

City Multi

R410A Series

Data Book 2006

CITY MULTI™

Databook G2

INDOOR UNITS

| | | |
|---|--|----------------------|
| GENERAL LINE-UP | | ii |
| Ceiling concealed (Low static pressure type) | PEFY-P-VML-E | IU-A |
| Ceiling concealed (High static pressure type) | PEFY-P-VMH-E | IU-A |
| Ceiling concealed (Middle static pressure type) | PEFY-P-VMM-E | IU-B |
| Ceiling concealed (All fresh air type) | PEFY-P-VMH-E | IU-C |
| Cassette ceiling (1-way flow type) | PMFY-P-VBM-E | IU-E |
| Cassette ceiling (2-way flow type) | PLFY-P-VLMD-E | IU-F |
| Cassette ceiling (4-way flow type) | PLFY-P-VCM-E PLFY-P-VAM-E | IU-G IU-G |
| Ceiling suspended | PCFY-P-VGM-E | IU-H |
| Wall mounted | PKFY-P-VAM-E PKFY-P-VGM-E PKFY-P-VFM-E | IU-I IU-I IU-I |
| Floor standing (Exposed type) | PFFY-P-VLEM-E | IU-J |
| Floor standing (Concealed type) | PFFY-P-VLRM-E | IU-J |
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| OA processing unit (Non-humidifier) | GUF-RD3 | V-B |
| OA processing unit (Include-humidifier) | GUF-RDH3 | V-B |
| BC controller (for R2 PURY) | CMB-P-V-G CMB-P-V-GA CMB-P-V-GB | BC BC BC |

OUTDOOR UNITS

| | | |
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CONTROLLER

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SYSTEM DESIGN

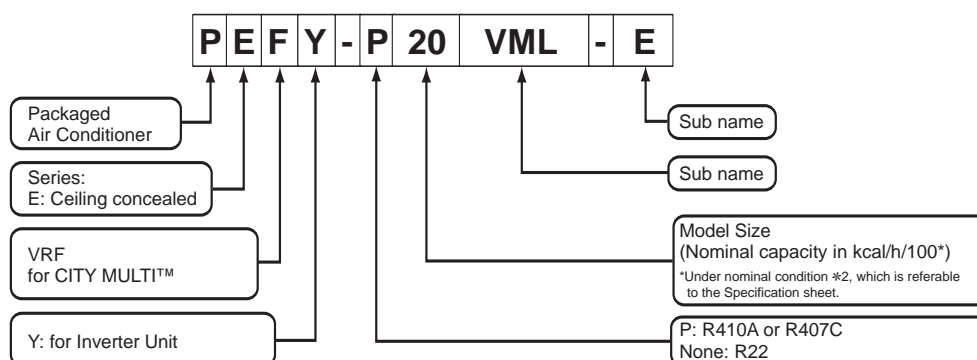
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INDOOR UNITS





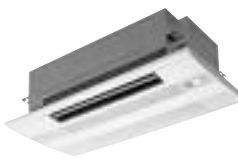
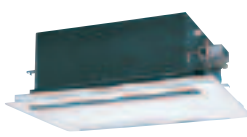
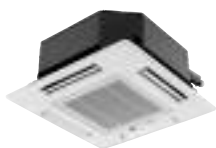
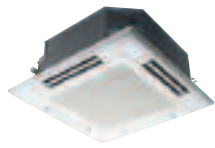





| GENERAL LINE-UP | | ii | |
|---|--|----------------------|----------------------|
| Ceiling concealed (Low static pressure type) | PEFY-P-VML-E | IU-A | A |
| Ceiling concealed (High static pressure type) | PEFY-P-VMH-E | IU-A | |
| Ceiling concealed (Middle static pressure type) | PEFY-P-VMM-E | IU-B | B |
| Ceiling concealed (All fresh air type) | PEFY-P-VMH-E | IU-C | C |
| Cassette ceiling (1-way flow type) | PMFY-P-VBM-E | IU-E | D |
| Cassette ceiling (2-way flow type) | PLFY-P-VLMD-E | IU-F | E |
| Cassette ceiling (4-way flow type) | PLFY-P-VCM-E PLFY-P-VAM-E | IU-G IU-G | F |
| Ceiling suspended | PCFY-P-VGM-E | IU-H | G |
| Wall mounted | PKFY-P-VAM-E PKFY-P-VGM-E PKFY-P-VFM-E | IU-I IU-I IU-I | H I |
| Floor standing (Exposed type) | PFFY-P-VLEM-E | IU-J | J |
| Floor standing (Concealed type) | PFFY-P-VLRM-E | IU-J | |
| LOSSNAY unit | LGH-RX4-E | V-A | V_A |
| OA processing unit (Non-humidifier) | GUF-RD ₃ | V-B | V_B |
| OA processing unit (Include-humidifier) | GUF-RDH ₃ | V-B | |
| BC controller (for R2 PURY) | CMB-P-V-G CMB-P-V-GA CMB-P-V-GB | BC BC BC | BC |

Naming Model



Indoor Units Line-up of CITY MULTI™ R410A Series.

All the indoor units are subject to CE and CCC regulation.

| Model size | | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 | |
|---------------------------------------|--|----------------------|---|--------|--|--------|---|--------|--------|--------|--------|--------|--------|---------|---|
| Nominal HP | | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP | |
| Nominal cooling cap.*1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 | 22.4 | 28.0 | |
| | kcal/h | 1,900 | 2,400 | 3,100 | 3,900 | 4,800 | 6,100 | 6,900 | 7,700 | 9,600 | 12,000 | 13,800 | 19,300 | 24,100 | |
| | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | 27,300 | 30,700 | 38,200 | 47,800 | 54,600 | 76,400 | 95,500 | |
| Nominal cooling cap.*2 | kW | 2.3 | 2.9 | 3.7 | 4.7 | 5.8 | 7.3 | 8.3 | 9.3 | 11.6 | 14.5 | 16.3 | 23.2 | 29.1 | |
| | kcal/h | 2,000 | 2,500 | 3,200 | 4,000 | 5,000 | 6,300 | 7,100 | 8,000 | 10,000 | 12,500 | 14,000 | 20,000 | 25,000 | |
| | Btu/h | 7,800 | 9,900 | 12,600 | 16,000 | 19,800 | 24,900 | 28,300 | 31,700 | 39,600 | 49,500 | 55,600 | 79,200 | 99,300 | |
| Nominal heating cap.*3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 | 18.0 | 25.0 | 31.5 | |
| | kcal/h | 2,200 | 2,800 | 3,400 | 4,300 | 5,400 | 6,900 | 7,700 | 8,600 | 10,800 | 13,800 | 15,500 | 21,500 | 27,100 | |
| | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 30,700 | 34,100 | 42,700 | 54,600 | 61,400 | 85,300 | 107,500 | |
| A B C D Ceiling concealed | PEFY-P-VML-E | | PEFY-P-VMH-E | | PEFY-P-VMM-E | | PEFY-P-VMH-E-F | | | | | | | | |
| |  | |  | |  | |  | | | | | | | | |
| | IU-A | PEFY-P-VML-E | ● | ● | ● | | | | | | | | | | |
| | IU-A | PEFY-P-VMH-E | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| IU-B | PEFY-P-VMM-E | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| F G H I Cassette ceiling | PMFY-P-VBM-E | | PLFY-P-VLMD-E | | PLFY-P-VCM-E | | PLFY-P-VAM-E | | | | | | | | |
| |  | |  | |  | |  | | | | | | | | |
| | IU-E | PMFY-P-VBM-E | ● | ● | ● | ● | | | | | | | | | |
| | IU-F | PLFY-P-VLMD-E | ● | ● | ● | ● | ● | | ● | ● | ● | | | | |
| V _A | IU-G | PLFY-P-VCM-E | ● | ● | ● | ● | | | | | | | | | |
| V _B | IU-G | PLFY-P-VAM-E | | | ● | ● | ● | | ● | ● | ● | | | | |
| BC Ceiling suspended | PCFY-P-VGM-E | | | | | | | | | | | | | | |
| |  | | | | | | | | | | | | | | |
| IU-H | PCFY-P-VGM-E | | | | ● | | ● | | | ● | ● | | | | |
| Wall mounted | PKFY-P-VAM-E | | PKFY-P-VGM-E | | | | | | | | | | | | |
| |  | |  | | | | | | | | | | | | |
| IU-I | PKFY-P-VAM-E | ● | ● | | | | | | | | | | | | |
| IU-I | PKFY-P-VGM-E | | | ● | ● | ● | | | | | | | | | |
| Floor standing | PFFY-P-VLEM-E | | PFFY-P-VLRM-E | | | | | | | | | | | | |
| |  | |  | | | | | | | | | | | | |
| IU-J | PFFY-P-VLEM-E | ● | ● | ● | ● | ● | ● | | | | | | | | |
| IU-J | PFFY-P-VLRM-E | ● | ● | ● | ● | ● | ● | | | | | | | | |

* kcal/h=round(kWx860,-2), Btu/h=round(kWx3,412,-2)

* Nominal conditions *1, *2, *3 are referable at the Specification sheet.



PEFY-P-VML-E



PEFY-P-VMH-E

PEFY-P-VML-E
PEFY-P-VMH-E

| | |
|--|----------|
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| Ceiling concealed | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PEFY-P-VML-E | ● | ● | ● | | | | | | | | | | |
| PEFY-P-VMH-E | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

1. SPECIFICATIONS

R410A Data G2

| Model | | PEFY-P20VML-E | PEFY-P25VML-E | PEFY-P32VML-E | | |
|---|--------------------------------|---|---------------------------------------|------------------------------|------------------------------|-------------|
| Power source | | 1-phase 220-240V 50Hz/60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | |
| | *1 | kcal / h | 1,900 | 2,400 | 3,100 | |
| | *1 | Btu / h | 7,500 | 9,600 | 12,300 | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | |
| | | Power input | kW | 0.05 / 0.06 | 0.05 / 0.06 | 0.07 / 0.09 |
| | | Current input | A | 0.24 / 0.28 | 0.24 / 0.28 | 0.32 / 0.42 |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | |
| | *3 | kcal / h | 2,200 | 2,800 | 3,400 | |
| | *3 | Btu / h | 8,500 | 10,900 | 13,600 | |
| | | Power input | kW | 0.05 / 0.06 | 0.05 / 0.06 | 0.07 / 0.09 |
| | | | Current input | A | 0.24 / 0.28 | 0.24 / 0.28 |
| External finish | | Galvanized | | | | |
| External dimension H x W x D | | mm | 225 x 720 x 550 | 225 x 720 x 550 | 225 x 720 x 550 | |
| | | in. | 8-7/8" x 28-3/8" x 21-11/16" | 8-7/8" x 28-3/8" x 21-11/16" | 8-7/8" x 28-3/8" x 21-11/16" | |
| Net weight | | kg (lb) | 18 (40) | 18 (40) | 18 (40) | |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 1 | | | |
| | External static press. | Pa | 5 (220V) | 5 (220V) | 5 (220V) | |
| | | mmHzO | 0.5 | 0.5 | 0.5 | |
| | | Pa | 5 (230, 240V) | 5 (230, 240V) | 5 (230, 240V) | |
| | | mmHzO | 0.5 | 0.5 | 0.5 | |
| | Motor type | | 1-phase induction motor | | | |
| | Motor output | | kW | 0.023 | 0.023 | 0.032 |
| | Driving mechanism | | Direct-driven by motor | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 4.8 - 5.8 - 7.9 | 4.8 - 5.8 - 7.9 | 4.8 - 5.8 - 9.5 | |
| | | L / s | 80 - 97 - 132 | 80 - 97 - 132 | 80 - 97 - 158 | |
| cfm | | 170 - 205 - 279 | 170 - 205 - 279 | 170 - 205 - 335 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | 25 - 29 - 36 (220V) | 25 - 29 - 36 (220V) | 25 - 29 - 40 (220V) | | |
| | dB <A> | 25 - 29 - 36 (230, 240V) | 25 - 29 - 36 (230, 240V) | 25 - 29 - 40 (230, 240V) | | |
| Insulation material | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | |
| Air filter | | PP Honeycomb fabric (washable) | | | | |
| Protection device | | Fuse | | | | |
| Refrigerant control device | | LEV | | | | |
| Connectable outdoor unit | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Brazed | ø6.35 (ø1/4") Brazed | ø6.35 (ø1/4") Brazed | |
| | | mm (in.) | ø6.35 (ø1/4") Brazed | ø6.35 (ø1/4") Brazed | ø6.35 (ø1/4") Brazed | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Brazed | ø12.7 (ø1/2") Brazed | ø12.7 (ø1/2") Brazed | |
| | | mm (in.) | ø12.7 (ø1/2") Brazed | ø12.7 (ø1/2") Brazed | ø12.7 (ø1/2") Brazed | |
| Diameter of drain pipe | | mm (in.) | R1 (External thread) | R1 (External thread) | R1 (External thread) | |
| Drawing | External | | IU-W65-3973 | IU-W65-3973 | IU-W65-3973 | |
| | Wiring | | IU-W65-3955 | IU-W65-3955 | IU-W65-3955 | |
| | Refrigerant cycle | | - | - | - | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | |
| Remark | Optional parts | | | | | |
| | Long life filter | | PAC-KE32LAF-F | PAC-KE32LAF-F | PAC-KE32LAF-F | |
| Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PEFY-P-VML-E

1. SPECIFICATIONS

| Model | | | PEFY-P40VMH-E | PEFY-P50VMH-E | PEFY-P63VMH-E | PEFY-P71VMH-E | |
|---|--------------------------------|----------------------|---|---------------------------|-----------------------------|--------------------------|-------------|
| Power source | | | 1-phase 220-240V 50Hz/60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 4.5 | 5.6 | 7.1 | 8.0 | |
| | | kcal / h | 3,900 | 4,800 | 6,100 | 6,900 | |
| | | Btu / h | 15,400 | 19,100 | 24,200 | 27,300 | |
| | *2 | kcal / h | 4,000 | 5,000 | 6,300 | 7,100 | |
| | | Power input | kW | 0.19 / 0.23 | 0.19 / 0.23 | 0.24 / 0.30 | 0.26 / 0.33 |
| Current input | | A | 0.88 / 1.06 | 0.88 / 1.06 | 1.12 / 1.38 | 1.20 / 1.51 | |
| Heating capacity (Nominal) | *3 | kW | 5.0 | 6.3 | 8.0 | 9.0 | |
| | | kcal / h | 4,300 | 5,400 | 6,900 | 7,700 | |
| | | Btu / h | 17,100 | 21,500 | 27,300 | 30,700 | |
| | Power input | kW | 0.19 / 0.23 | 0.19 / 0.23 | 0.24 / 0.30 | 0.26 / 0.33 | |
| | | Current input | A | 0.88 / 1.06 | 0.88 / 1.06 | 1.12 / 1.38 | 1.20 / 1.51 |
| External finish | | | Galvanized | | | | |
| External dimension H x W x D | | mm | 380 x 750 x 900 | 380 x 750 x 900 | 380 x 750 x 900 | 380 x 1,000 x 900 | |
| | | in. | 15" x 29-9/16" x 35-7/16" | 15" x 29-9/16" x 35-7/16" | 15" x 29-9/16" x 35-7/16" | 15" x 39-3/8" x 35-7/16" | |
| Net weight | | kg (lb) | 44 (98) | 45 (100) | 45 (100) | 50 (111) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 1 | | Sirocco fan x 1 | | |
| | External static press. | Pa | 50 - 100 - 200 (220V) | | 50 - 100 - 200 (220V) | | |
| | | mmH ₂ O | 5.1 - 10.2 - 20.4 | | 5.1 - 10.2 - 20.4 | | |
| | | Pa | 100 - 150 - 200 (230, 240V) | | 100 - 150 - 200 (230, 240V) | | |
| | | mmH ₂ O | 10.2 - 15.3 - 20.4 | | 10.2 - 15.3 - 20.4 | | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | | kW | 0.080 | 0.080 | 0.120 | 0.140 |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 10.0 - 14.0 | | 10.0 - 14.0 | | |
| | | L / s | 167 - 233 | | 167 - 233 | | |
| cfm | | 353 - 494 | | 353 - 494 | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | 27 - 34 (220V) | | 27 - 34 (220V) | | | |
| | dB <A> | 31 - 37 (230, 240V) | | 31 - 37 (230, 240V) | | | |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | |
| Air filter | | | Optional long life filter (Synthetic fiber unwoven cloth filter) and filter box are recommended. | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | | | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| Diameter of drain pipe | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| | | | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| Drawing | | | IU-W27-5924 | | | | |
| Wiring | | | IU-W65-3956 | | | | |
| Refrigerant cycle | | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Long life filter | | PAC-KE86LAF | PAC-KE86LAF | PAC-KE86LAF | PAC-KE88LAF | |
| | Filter box | | PAC-KE63TB-F | PAC-KE63TB-F | PAC-KE63TB-F | PAC-KE80TB-F | |
| | Drain pump kit | | PAC-KE04DM-F | PAC-KE04DM-F | PAC-KE04DM-F | PAC-KE04DM-F | |
| Installation | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

Note :

| | | | |
|--|---------------------------------|-------------------------------|-----------------------------------|
| *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |

* Nominal conditions *1, *3 are subject to JIS B8615-1.
 * Due to continuing improvement, above specification may be subject to change without notice.

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

R410A Data G2

| Model | | | PEFY-P80VMH-E | PEFY-P100VMH-E | PEFY-P125VMH-E | PEFY-P140VMH-E | |
|---|--------------------------------|----------------------|---|-----------------------------|-----------------------------|-----------------------------|-------------|
| Power source | | | 1-phase 220-240V 50Hz/60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 9.0 | 11.2 | 14.0 | 16.0 | |
| | | kcal / h | 7,700 | 9,600 | 12,000 | 13,800 | |
| | | Btu / h | 30,700 | 38,200 | 47,800 | 54,600 | |
| | *2 | kcal / h | 8,000 | 10,000 | 12,500 | 14,000 | |
| | | Power input | kW | 0.32 / 0.40 | 0.48 / 0.58 | 0.48 / 0.58 | 0.48 / 0.59 |
| | | Current input | A | 1.47 / 1.83 | 2.34 / 2.66 | 2.34 / 2.66 | 2.35 / 2.70 |
| Heating capacity (Nominal) | *3 | kW | 10.0 | 12.5 | 16.0 | 18.0 | |
| | | kcal / h | 8,600 | 10,800 | 13,800 | 15,500 | |
| | | Btu / h | 34,100 | 42,700 | 54,600 | 61,400 | |
| | Power input | kW | 0.32 / 0.40 | 0.48 / 0.58 | 0.48 / 0.58 | 0.48 / 0.59 | |
| | | Current input | A | 1.47 / 1.83 | 2.34 / 2.66 | 2.34 / 2.66 | 2.35 / 2.70 |
| External finish | | | Galvanized | | | | |
| External dimension H x W x D | | mm | 380 x 1,000 x 900 | 380 x 1,200 x 900 | 380 x 1,200 x 900 | 380 x 1,200 x 900 | |
| | | in. | 15" x 39-3/8" x 35-7/16" | 15" x 47-1/4" x 35-7/16" | 15" x 47-1/4" x 35-7/16" | 15" x 47-1/4" x 35-7/16" | |
| Net weight | | kg (lb) | 50 (111) | 70 (155) | 70 (155) | 70 (155) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | |
| | External static press. | Pa | 50 - 100 - 200 (220V) | 50 - 100 - 200 (220V) | 50 - 100 - 200 (220V) | 50 - 100 - 200 (220V) | |
| | | mmH ₂ O | 5.1 - 10.2 - 20.4 | 5.1 - 10.2 - 20.4 | 5.1 - 10.2 - 20.4 | 5.1 - 10.2 - 20.4 | |
| | | Pa | 100 - 150 - 200 (230, 240V) | 100 - 150 - 200 (230, 240V) | 100 - 150 - 200 (230, 240V) | 100 - 150 - 200 (230, 240V) | |
| | | mmH ₂ O | 10.2 - 15.3 - 20.4 | 10.2 - 15.3 - 20.4 | 10.2 - 15.3 - 20.4 | 10.2 - 15.3 - 20.4 | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | | kW | 0.180 | 0.260 | 0.260 | 0.260 |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | | 18.0 - 25.0 | 26.5 - 38.0 | 26.5 - 38.0 | 28.0 - 40.0 |
| | | L / s | | 300 - 417 | 442 - 633 | 442 - 633 | 467 - 667 |
| cfm | | 636 - 883 | 936 - 1,342 | 936 - 1,342 | 989 - 1,413 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 35 - 41 (220V) | 34 - 42 (220V) | 34 - 42 (220V) | 34 - 42 (220V) | |
| | | dB <A> | 38 - 43 (230, 240V) | 38 - 44 (230, 240V) | 38 - 44 (230, 240V) | 38 - 44 (230, 240V) | |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | |
| Air filter | | | Option : Synthetic fiber unwoven cloth filter (long life) | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | | | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| | | | ø15.88 (ø5/8") Flare | ø19.05 (ø3/4") Flare | ø19.05 (ø3/4") Flare | ø19.05 (ø3/4") Flare | |
| Diameter of drain pipe | | mm (in.) | 32 (1-1/4") | 32 (1-1/4") | 32 (1-1/4") | 32 (1-1/4") | |
| Drawing | External | | IU-W27-5924 | | | | |
| | Wiring | | IU-W65-3956 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Long life filter | | PAC-KE88LAF | PAC-KE89LAF | PAC-KE89LAF | PAC-KE89LAF | |
| | Filter box | | PAC-KE80TB-F | PAC-KE140TB-F | PAC-KE140TB-F | PAC-KE140TB-F | |
| | Drain pump kit | | PAC-KE04DM-F | PAC-KE04DM-F | PAC-KE04DM-F | PAC-KE04DM-F | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

Note :

*1 Nominal cooling conditions

*2 Nominal cooling conditions

*3 Nominal heating conditions

Unit converter

Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)

27°CDB/19.5°CWB (81°FDB/67°FWB)

20°CDB (68°FDB)

kcal/h = kW x 860

Outdoor : 35°CDB (95°FDB)

35°CDB (95°FDB)

7°CDB/6°CWB (45°FDB/43°FWB)

Btu/h = kW x 3,412

Pipe length : 7.5 m (24-9/16 ft)

5 m (16-3/8 ft)

7.5 m (24-9/16 ft)

cfm = m³/min x 35.31

Level difference : 0 m (0 ft)

0 m (0 ft)

0 m (0 ft)

lb = kg / 0.4536

* Nominal conditions *1, *3 are subject to JIS B8615-1.

* Due to continuing improvement, above specification may be subject to change without notice.

*Above specification data is subject to rounding variation.

Ref.: Spec_PEFY-P-VMH-E_2

1. SPECIFICATIONS

R410A Data G2

| Model | | | PEFY-P200VMH-E | PEFY-P250VMH-E | | | |
|---|--------------------------------|----------------------|---|------------------------------|-----------------|--|--|
| Power source | | | 3-phase, 4-wire, 380-415V 50/60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.0 | | | |
| | | kcal / h | 19,300 | 24,100 | | | |
| | | Btu / h | 76,400 | 95,500 | | | |
| | *2 | kcal / h | 20,000 | 25,000 | | | |
| | | Power input | kW | 0.99 / 1.14 | 1.23 / 1.41 | | |
| | Current input | A | 1.62 / 1.86 | 2.0 / 2.3 | | | |
| Heating capacity (Nominal) | *3 | kW | 25.0 | 31.5 | | | |
| | | kcal / h | 21,500 | 27,100 | | | |
| | | Btu / h | 85,300 | 107,500 | | | |
| | Power input | kW | 0.99 / 1.14 | 1.23 / 1.41 | | | |
| | | Current input | A | 1.62 / 1.86 | 2.0 / 2.3 | | |
| External finish | | | Galvanized | | | | |
| External dimension H x W x D | | mm | 470 X 1,250 X 1,120 | 470 X 1,250 X 1,120 | | | |
| | | in. | 18-9/16" x 49-1/4" x 44-1/8" | 18-9/16" x 49-1/4" x 44-1/8" | | | |
| Net weight | | kg (lb) | 100 (221) | 100 (221) | | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | | Sirocco fan x 2 | | |
| | External static press. | Pa | 110- 220 (380V) | 110- 220 (380V) | | | |
| | | mmH ₂ O | 11.2- 22.4 | 11.2- 22.4 | | | |
| | | Pa | 130- 260 (400, 415V) | 130- 260 (400, 415V) | | | |
| | | mmH ₂ O | 13.3- 26.5 | 13.3- 26.5 | | | |
| | Motor type | | 3-phase induction motor | | | | |
| | Motor output | | kW | 0.760 | 1.080 | | |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 58 | 72 | | | |
| | | L / s | 967 | 1,200 | | | |
| cfm | | 2,048 | 2,543 | | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | 42 / 45 (380V) | 50 / 52 (220V) | | | | |
| | dB <A> | 44 / 47 (400, 415V) | 52 / 54 (230, 240V) | | | | |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | |
| Air filter | | | Option : Synthetic fiber unwoven cloth filter (long life) | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø9.52 (ø3/8") Brazed | ø9.52 (ø3/8") Brazed | | | |
| | | | ø12.7 (ø1/2") Brazed | ø12.7 (ø1/2") Brazed | | | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø19.05 (ø3/4") Brazed | ø22.2 (ø7/8") Brazed | | | |
| | | | ø25.4 (ø1") Brazed | ø28.58 (ø1-1/8") Brazed | | | |
| Diameter of drain pipe | | mm (in.) | 32 (1-1/4") | 32 (1-1/4") | | | |
| Drawing | External | | IU-W27-5925 | | | | |
| | Wiring | | IU-W65-3957 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Long life filter | | PAC-KE85LAF | PAC-KE85LAF | | | |
| | Filter box | | PAC-KE250TB-F | PAC-KE250TB-F | | | |
| | Drain pump kit | | PAC-KE04DM-F | PAC-KE04DM-F | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PEFY-P-VMH-E_3

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|
| | | | 71°FDB/59°FWB | | 73°FDB/61°FWB | | 77°FDB/64°FWB | | 81°FDB/66°FWB | | 82°FDB/68°FWB | | 86°FDB/72°FWB | | 90°FDB/75°FWB | |
| | | | 21.5°CDB/15°CWB | | 23°CDB/16°CWB | | 25°CDB/18°CWB | | 27°CDB/19°CWB | | 28°CDB/20°CWB | | 30°CDB/22°CWB | | 32°CDB/24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.4 | 2.0 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 82 | 27.5 | 2.1 | 1.8 | 2.1 | 1.9 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 91 | 32.5 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.8 | 2.4 | 1.8 |
| 110 | 43.0 | 1.8 | 1.7 | 1.9 | 1.8 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.8 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 73 | 22.5 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.1 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.1 | 3.1 | 2.1 |
| 110 | 43.0 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.1 | 3.0 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.6 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.6 | 2.8 |
| | 77 | 25.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 82 | 27.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.4 | 2.7 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.7 | 3.7 | 2.7 | 3.8 | 2.8 | 4.0 | 2.7 | 4.3 | 2.7 |
| | 91 | 32.5 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.6 | 3.7 | 2.7 | 3.8 | 2.8 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 95 | 35.0 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.6 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.4 | 2.5 | 3.5 | 2.6 | 3.6 | 2.7 | 3.7 | 2.6 | 4.0 | 2.6 |
| 110 | 43.0 | 3.0 | 2.5 | 3.1 | 2.5 | 3.3 | 2.5 | 3.3 | 2.5 | 3.5 | 2.6 | 3.6 | 2.6 | 3.9 | 2.6 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.3 | 4.9 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.7 | 3.4 |
| | 73 | 22.5 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.3 | 4.9 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.7 | 3.4 |
| | 77 | 25.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.3 | 4.9 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 82 | 27.5 | 4.3 | 3.2 | 4.4 | 3.3 | 4.6 | 3.3 | 4.8 | 3.4 | 4.9 | 3.5 | 5.2 | 3.4 | 5.5 | 3.4 |
| | 86 | 30.0 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.7 | 3.3 | 4.8 | 3.4 | 5.0 | 3.4 | 5.4 | 3.3 |
| | 91 | 32.5 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.2 | 4.6 | 3.3 | 4.7 | 3.4 | 5.0 | 3.3 | 5.3 | 3.3 |
| | 95 | 35.0 | 4.0 | 3.1 | 4.1 | 3.2 | 4.4 | 3.2 | 4.5 | 3.2 | 4.6 | 3.4 | 4.9 | 3.3 | 5.2 | 3.3 |
| | 100 | 37.5 | 3.9 | 3.1 | 4.1 | 3.2 | 4.3 | 3.2 | 4.4 | 3.2 | 4.5 | 3.3 | 4.8 | 3.3 | 5.0 | 3.2 |
| | 104 | 40.0 | 3.9 | 3.1 | 4.0 | 3.2 | 4.2 | 3.1 | 4.3 | 3.2 | 4.5 | 3.3 | 4.7 | 3.2 | 5.0 | 3.2 |
| 110 | 43.0 | 3.8 | 3.0 | 3.9 | 3.1 | 4.1 | 3.1 | 4.2 | 3.1 | 4.3 | 3.2 | 4.5 | 3.2 | 4.8 | 3.1 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 73 | 22.5 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 77 | 25.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 6.9 | 3.9 |
| | 82 | 27.5 | 5.3 | 3.8 | 5.5 | 3.9 | 5.8 | 3.9 | 5.9 | 3.9 | 6.1 | 4.0 | 6.4 | 4.0 | 6.8 | 3.9 |
| | 86 | 30.0 | 5.2 | 3.8 | 5.3 | 3.8 | 5.7 | 3.8 | 5.8 | 3.8 | 6.0 | 4.0 | 6.3 | 3.9 | 6.7 | 3.9 |
| | 91 | 32.5 | 5.1 | 3.7 | 5.3 | 3.8 | 5.5 | 3.8 | 5.7 | 3.8 | 5.9 | 3.9 | 6.2 | 3.9 | 6.6 | 3.8 |
| | 95 | 35.0 | 5.0 | 3.7 | 5.2 | 3.8 | 5.5 | 3.7 | 5.6 | 3.7 | 5.7 | 3.9 | 6.0 | 3.8 | 6.4 | 3.7 |
| | 100 | 37.5 | 4.9 | 3.6 | 5.0 | 3.7 | 5.3 | 3.7 | 5.5 | 3.7 | 5.6 | 3.8 | 5.9 | 3.8 | 6.3 | 3.7 |
| | 104 | 40.0 | 4.8 | 3.6 | 5.0 | 3.7 | 5.3 | 3.6 | 5.4 | 3.7 | 5.5 | 3.8 | 5.8 | 3.7 | 6.2 | 3.7 |
| 110 | 43.0 | 4.7 | 3.5 | 4.8 | 3.6 | 5.1 | 3.6 | 5.2 | 3.6 | 5.4 | 3.7 | 5.7 | 3.7 | 6.0 | 3.6 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 9.0 | 5.3 |
| | 73 | 22.5 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 9.0 | 5.3 |
| | 77 | 25.0 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.1 | 7.7 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 82 | 27.5 | 6.7 | 5.0 | 6.9 | 5.1 | 7.3 | 5.1 | 7.5 | 5.1 | 7.7 | 5.3 | 8.1 | 5.2 | 8.7 | 5.2 |
| | 86 | 30.0 | 6.6 | 4.9 | 6.8 | 5.1 | 7.2 | 5.0 | 7.4 | 5.1 | 7.6 | 5.3 | 8.0 | 5.2 | 8.5 | 5.1 |
| | 91 | 32.5 | 6.5 | 4.9 | 6.7 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.4 | 5.2 | 7.8 | 5.1 | 8.3 | 5.0 |
| | 95 | 35.0 | 6.4 | 4.8 | 6.5 | 5.0 | 6.9 | 4.9 | 7.1 | 5.0 | 7.3 | 5.1 | 7.7 | 5.1 | 8.1 | 5.0 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.4 | 4.9 | 6.8 | 4.8 | 6.9 | 4.9 | 7.1 | 5.1 | 7.5 | 5.0 | 8.0 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.3 | 4.8 | 6.7 | 4.8 | 6.8 | 4.8 | 7.0 | 5.0 | 7.3 | 4.9 | 7.8 | 4.9 |
| 110 | 43.0 | 6.0 | 4.6 | 6.1 | 4.8 | 6.5 | 4.7 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.9 | 7.6 | 4.8 | |
| 71 (8.0) | 68 | 20.0 | 7.6 | 5.6 | 7.9 | 5.8 | 8.4 | 5.7 | 8.6 | 5.8 | 8.9 | 6.0 | 9.4 | 5.9 | 10.1 | 5.9 |
| | 73 | 22.5 | 7.6 | 5.6 | 7.9 | 5.8 | 8.4 | 5.7 | 8.6 | 5.8 | 8.9 | 6.0 | 9.4 | 5.9 | 10.1 | 5.9 |
| | 77 | 25.0 | 7.6 | 5.6 | 7.9 | 5.8 | 8.4 | 5.7 | 8.6 | 5.8 | 8.8 | 6.0 | 9.4 | 5.9 | 9.9 | 5.8 |
| | 82 | 27.5 | 7.6 | 5.6 | 7.8 | 5.7 | 8.2 | 5.7 | 8.5 | 5.7 | 8.7 | 5.9 | 9.2 | 5.8 | 9.8 | 5.8 |
| | 86 | 30.0 | 7.4 | 5.5 | 7.6 | 5.7 | 8.1 | 5.6 | 8.3 | 5.7 | 8.5 | 5.9 | 9.0 | 5.8 | 9.6 | 5.7 |
| | 91 | 32.5 | 7.3 | 5.4 | 7.5 | 5.6 | 7.9 | 5.5 | 8.1 | 5.6 | 8.4 | 5.8 | 8.8 | 5.7 | 9.4 | 5.6 |
| | 95 | 35.0 | 7.2 | 5.4 | 7.4 | 5.5 | 7.8 | 5.5 | 8.0 | 5.5 | 8.2 | 5.7 | 8.6 | 5.6 | 9.2 | 5.5 |
| | 100 | 37.5 | 7.0 | 5.3 | 7.2 | 5.5 | 7.6 | 5.4 | 7.8 | 5.5 | 8.0 | 5.7 | 8.5 | 5.6 | 9.0 | 5.5 |
| | 104 | 40.0 | 6.9 | 5.2 | 7.1 | 5.4 | 7.5 | 5.3 | 7.7 | 5.4 | 7.9 | 5.6 | 8.3 | 5.5 | 8.8 | 5.4 |
| 110 | 43.0 | 6.7 | 5.2 | 6.9 | 5.3 | 7.3 | 5.3 | 7.4 | 5.3 | 7.7 | 5.5 | 8.1 | 5.4 | 8.6 | 5.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.6 | 6.3 | 8.9 | 6.5 | 9.5 | 6.5 | 9.7 | 6.6 | 10.0 | 6.8 | 10.6 | 6.7 | 11.4 | 6.7 |
| | 73 | 22.5 | 8.6 | 6.3 | 8.9 | 6.5 | 9.5 | 6.5 | 9.7 | 6.6 | 10.0 | 6.8 | 10.6 | 6.7 | 11.4 | 6.7 |
| | 77 | 25.0 | 8.6 | 6.3 | 8.9 | 6.5 | 9.5 | 6.5 | 9.7 | 6.6 | 9.9 | 6.8 | 10.5 | 6.7 | 11.2 | 6.6 |
| | 82 | 27.5 | 8.5 | 6.3 | 8.8 | 6.5 | 9.3 | 6.4 | 9.5 | 6.5 | 9.8 | 6.7 | 10.3 | 6.6 | 11.0 | 6.5 |
| | 86 | 30.0 | 8.4 | 6.2 | 8.6 | 6.4 | 9.1 | 6.3 | 9.4 | 6.4 | 9.6 | 6.6 | 10.1 | 6.5 | 10.8 | 6.4 |
| | 91 | 32.5 | 8.2 | 6.2 | 8.5 | 6.3 | 8.9 | 6.3 | 9.1 | 6.3 | 9.4 | 6.6 | 9.9 | 6.4 | 10.5 | 6.4 |
| | 95 | 35.0 | 8.1 | 6.1 | 8.3 | 6.3 | 8.8 | 6.2 | 9.0 | 6.3 | 9.2 | 6.5 | 9.7 | 6.4 | 10.3 | 6.3 |
| | 100 | 37.5 | 7.9 | 6.0 | 8.1 | 6.2 | 8.6 | 6.1 | 8.8 | 6.2 | 9.0 | 6.4 | 9.5 | 6.3 | 10.1 | 6.2 |
| 100 (11.2) | 104 | 40.0 | 7.7 | 5.9 | 8.0 | 6.1 | 8.5 | 6.1 | 8.6 | 6.1 | 8.9 | 6.4 | 9.3 | 6.2 | 9.9 | 6.1 |
| | 110 | 43.0 | 7.6 | 5.8 | 7.8 | 6.0 | 8.2 | 6.0 | 8.4 | 6.0 | 8.6 | 6.2 | 9.1 | 6.1 | 9.6 | 6.0 |
| | 68 | 20.0 | 10.6 | 8.5 | 11.0 | 8.8 | 11.8 | 8.8 | 12.1 | 8.9 | 12.5 | 9.3 | 13.2 | 9.2 | 14.2 | 9.1 |
| | 73 | 22.5 | 10.6 | 8.5 | 11.0 | 8.8 | 11.8 | 8.8 | 12.1 | 8.9 | 12.5 | 9.3 | 13.2 | 9.2 | 14.2 | 9.1 |
| | 77 | 25.0 | 10.6 | 8.5 | 11.0 | 8.8 | 11.8 | 8.8 | 12.1 | 8.9 | 12.4 | 9.2 | 13.1 | 9.1 | 13.9 | 9.0 |
| | 82 | 27.5 | 10.6 | 8.5 | 10.9 | 8.8 | 11.5 | 8.7 | 11.9 | 8.8 | 12.2 | 9.2 | 12.8 | 9.0 | 13.7 | 8.9 |
| | 86 | 30.0 | 10.4 | 8.4 | 10.7 | 8.7 | 11.3 | 8.6 | 11.6 | 8.7 | 11.9 | 9.1 | 12.5 | 8.9 | 13.4 | 8.8 |
| | 91 | 32.5 | 10.2 | 8.3 | 10.5 | 8.6 | 11.1 | 8.5 | 11.4 | 8.6 | 11.7 | 9.0 | 12.3 | 8.8 | 13.1 | 8.7 |
| 125 (14.0) | 95 | 35.0 | 10.0 | 8.2 | 10.3 | 8.5 | 10.9 | 8.4 | 11.2 | 8.6 | 11.5 | 8.9 | 12.1 | 8.8 | 12.8 | 8.6 |
| | 100 | 37.5 | 9.8 | 8.1 | 10.1 | 8.4 | 10.7 | 8.3 | 10.9 | 8.5 | 11.3 | 8.8 | 11.9 | 8.7 | 12.5 | 8.5 |
| | 104 | 40.0 | 9.6 | 8.1 | 9.9 | 8.3 | 10.5 | 8.2 | 10.8 | 8.4 | 11.1 | 8.7 | 11.6 | 8.6 | 12.3 | 8.5 |
| | 110 | 43.0 | 9.4 | 7.9 | 9.7 | 8.2 | 10.2 | 8.1 | 10.4 | 8.3 | 10.8 | 8.6 | 11.3 | 8.5 | 12.0 | 8.3 |
| | 68 | 20.0 | 13.3 | 9.8 | 13.8 | 10.1 | 14.7 | 10.1 | 15.1 | 10.2 | 15.6 | 10.6 | 16.5 | 10.4 | 17.7 | 10.3 |
| | 73 | 22.5 | 13.3 | 9.8 | 13.8 | 10.1 | 14.7 | 10.1 | 15.1 | 10.2 | 15.6 | 10.6 | 16.5 | 10.4 | 17.7 | 10.3 |
| | 77 | 25.0 | 13.3 | 9.8 | 13.8 | 10.1 | 14.7 | 10.1 | 15.1 | 10.2 | 15.5 | 10.5 | 16.4 | 10.4 | 17.4 | 10.2 |
| | 82 | 27.5 | 13.2 | 9.8 | 13.7 | 10.1 | 14.4 | 9.9 | 14.8 | 10.1 | 15.3 | 10.4 | 16.0 | 10.2 | 17.1 | 10.1 |
| 140 (16.0) | 86 | 30.0 | 13.0 | 9.7 | 13.4 | 9.9 | 14.2 | 9.8 | 14.6 | 10.0 | 14.9 | 10.3 | 15.7 | 10.1 | 16.7 | 10.0 |
| | 91 | 32.5 | 12.7 | 9.5 | 13.2 | 9.8 | 13.9 | 9.7 | 14.2 | 9.8 | 14.6 | 10.2 | 15.4 | 10.0 | 16.4 | 9.9 |
| | 95 | 35.0 | 12.5 | 9.4 | 12.9 | 9.7 | 13.7 | 9.6 | 14.0 | 9.7 | 14.4 | 10.1 | 15.1 | 9.9 | 16.0 | 9.7 |
| | 100 | 37.5 | 12.3 | 9.3 | 12.6 | 9.6 | 13.4 | 9.5 | 13.7 | 9.6 | 14.1 | 9.9 | 14.8 | 9.8 | 15.7 | 9.6 |
| | 104 | 40.0 | 12.0 | 9.2 | 12.4 | 9.5 | 13.2 | 9.4 | 13.4 | 9.5 | 13.9 | 9.9 | 14.5 | 9.6 | 15.4 | 9.5 |
| | 110 | 43.0 | 11.8 | 9.1 | 12.1 | 9.3 | 12.8 | 9.2 | 13.0 | 9.3 | 13.4 | 9.7 | 14.1 | 9.5 | 15.0 | 9.4 |
| | 68 | 20.0 | 15.2 | 11.2 | 15.8 | 11.6 | 16.8 | 11.5 | 17.3 | 11.7 | 17.8 | 12.1 | 18.9 | 11.9 | 20.2 | 11.8 |
| | 73 | 22.5 | 15.2 | 11.2 | 15.8 | 11.6 | 16.8 | 11.5 | 17.3 | 11.7 | 17.8 | 12.1 | 18.9 | 11.9 | 20.2 | 11.8 |
| 200 (22.4) | 77 | 25.0 | 15.2 | 11.2 | 15.8 | 11.6 | 16.8 | 11.5 | 17.3 | 11.7 | 17.7 | 12.0 | 18.7 | 11.9 | 19.8 | 11.7 |
| | 82 | 27.5 | 15.1 | 11.2 | 15.6 | 11.5 | 16.5 | 11.4 | 17.0 | 11.5 | 17.4 | 11.9 | 18.3 | 11.7 | 19.5 | 11.6 |
| | 86 | 30.0 | 14.9 | 11.1 | 15.3 | 11.4 | 16.2 | 11.2 | 16.6 | 11.4 | 17.0 | 11.8 | 17.9 | 11.6 | 19.1 | 11.4 |
| | 91 | 32.5 | 14.6 | 10.9 | 15.0 | 11.2 | 15.8 | 11.1 | 16.2 | 11.2 | 16.7 | 11.6 | 17.6 | 11.4 | 18.7 | 11.3 |
| | 95 | 35.0 | 14.3 | 10.8 | 14.7 | 11.1 | 15.6 | 11.0 | 16.0 | 11.1 | 16.4 | 11.5 | 17.3 | 11.3 | 18.3 | 11.1 |
| | 100 | 37.5 | 14.0 | 10.7 | 14.4 | 10.9 | 15.3 | 10.8 | 15.6 | 10.9 | 16.1 | 11.4 | 17.0 | 11.2 | 17.9 | 11.0 |
| | 104 | 40.0 | 13.8 | 10.5 | 14.2 | 10.8 | 15.0 | 10.7 | 15.4 | 10.8 | 15.8 | 11.3 | 16.6 | 11.0 | 17.6 | 10.9 |
| | 110 | 43.0 | 13.4 | 10.4 | 13.8 | 10.7 | 14.6 | 10.6 | 14.9 | 10.6 | 15.4 | 11.1 | 16.2 | 10.9 | 17.1 | 10.7 |
| 250 (28.0) | 68 | 20.0 | 21.3 | 16.1 | 22.1 | 16.6 | 23.5 | 16.5 | 24.2 | 16.7 | 25.0 | 17.4 | 26.4 | 17.1 | 28.3 | 17.0 |
| | 73 | 22.5 | 21.3 | 16.1 | 22.1 | 16.6 | 23.5 | 16.5 | 24.2 | 16.7 | 25.0 | 17.4 | 26.4 | 17.1 | 28.3 | 17.0 |
| | 77 | 25.0 | 21.3 | 16.1 | 22.1 | 16.6 | 23.5 | 16.5 | 24.2 | 16.7 | 24.8 | 17.3 | 26.2 | 17.1 | 27.8 | 16.8 |
| | 82 | 27.5 | 21.2 | 16.0 | 21.8 | 16.5 | 23.1 | 16.3 | 23.7 | 16.6 | 24.4 | 17.2 | 25.6 | 16.8 | 27.3 | 16.6 |
| | 86 | 30.0 | 20.8 | 15.9 | 21.4 | 16.3 | 22.7 | 16.1 | 23.3 | 16.4 | 23.9 | 16.9 | 25.1 | 16.6 | 26.8 | 16.4 |
| | 91 | 32.5 | 20.4 | 15.7 | 21.1 | 16.2 | 22.2 | 15.9 | 22.7 | 16.1 | 23.4 | 16.8 | 24.6 | 16.5 | 26.2 | 16.2 |
| | 95 | 35.0 | 20.0 | 15.5 | 20.6 | 15.9 | 21.8 | 15.8 | 22.4 | 16.0 | 23.0 | 16.6 | 24.2 | 16.3 | 25.6 | 16.1 |
| | 100 | 37.5 | 19.6 | 15.3 | 20.2 | 15.7 | 21.4 | 15.6 | 21.8 | 15.8 | 22.5 | 16.4 | 23.7 | 16.1 | 25.1 | 15.9 |
| 250 (28.0) | 104 | 40.0 | 19.3 | 15.1 | 19.8 | 15.6 | 21.1 | 15.4 | 21.5 | 15.6 | 22.2 | 16.3 | 23.2 | 15.9 | 24.6 | 15.7 |
| | 110 | 43.0 | 18.8 | 14.9 | 19.4 | 15.4 | 20.5 | 15.2 | 20.8 | 15.4 | 21.5 | 16.0 | 22.6 | 15.7 | 24.0 | 15.5 |
| | 68 | 20.0 | 26.6 | 20.0 | 27.6 | 20.7 | 29.4 | 20.5 | 30.2 | 20.8 | 31.2 | 21.6 | 33.0 | 21.3 | 35.4 | 21.1 |
| | 73 | 22.5 | 26.6 | 20.0 | 27.6 | 20.7 | 29.4 | 20.5 | 30.2 | 20.8 | 31.2 | 21.6 | 33.0 | 21.3 | 35.4 | 21.1 |
| | 77 | 25.0 | 26.6 | 20.0 | 27.6 | 20.7 | 29.4 | 20.5 | 30.2 | 20.8 | 30.9 | 21.5 | 32.8 | 21.2 | 34.7 | 20.9 |
| | 82 | 27.5 | 26.5 | 19.9 | 27.3 | 20.5 | 28.8 | 20.3 | 29.7 | 20.6 | 30.5 | 21.3 | 32.1 | 20.9 | 34.2 | 20.7 |
| | 86 | 30.0 | 26.0 | 19.7 | 26.7 | 20.3 | 28.3 | 20.1 | 29.1 | 20.3 | 29.8 | 21.0 | 31.4 | 20.7 | 33.5 | 20.4 |
| | 91 | 32.5 | 25.5 | 19.5 | 26.3 | 20.1 | 27.7 | 19.8 | 28.4 | 20.0 | 29.3 | 20.8 | 30.8 | 20.4 | 32.8 | 20.2 |
| 250 (28.0) | 95 | 35.0 | 25.1 | 19.3 | 25.8 | 19.8 | 27.3 | 19.6 | 28.0 | 19.9 | 28.7 | 20.6 | 30.2 | 20.2 | 32.1 | 19.9 |
| | 100 | 37.5 | 24.6 | 19.0 | 25.2 | 19.5 | 26.7 | 19.4 | 27.3 | 19.6 | 28.1 | 20.4 | 29.7 | 20.0 | 31.4 | 19.7 |
| | 104 | 40.0 | 24.1 | 18.8 | 24.8 | 19.4 | 26.3 | 19.2 | 26.9 | 19.4 | 27.7 | 20.2 | 29.0 | 19.8 | 30.8 | 19.5 |
| | 110 | 43.0 | 23.5 | 18.5 | 24.2 | 19.1 | 25.6 | 18.9 | 26.0 | 19.1 | 26.9 | 19.8 | 28.3 | 19.5 | 30.0 | 19.2 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PURY-P200,250YGM

PEFY-P-VML-E,VMH-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | *FWB | *CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.6 | 4.5 | 4.4 | 4.3 |
| | 23 | -5.0 | 5.3 | 5.2 | 5.0 | 4.4 |
| | 32 | 0.0 | 6.0 | 5.9 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.3 | 6.2 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.6 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.8 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.2 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.6 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 8.1 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |
| 71 (8.0) | -4 | -20.0 | 4.6 | 4.5 | 4.5 | 4.5 |
| | 5 | -15.0 | 5.6 | 5.5 | 5.4 | 5.3 |
| | 14 | -10.0 | 6.6 | 6.5 | 6.3 | 6.2 |
| | 23 | -5.0 | 7.6 | 7.5 | 7.2 | 6.3 |
| | 32 | 0.0 | 8.5 | 8.5 | 7.2 | 6.3 |
| | 37 | 2.5 | 9.0 | 8.9 | 7.2 | 6.3 |
| | 43 | 6.0 | 9.4 | 9.0 | 7.2 | 6.3 |
| | 46 | 7.5 | 9.7 | 9.0 | 7.2 | 6.3 |
| | 50 | 10.0 | 10.3 | 9.0 | 7.2 | 6.3 |
| | 55 | 12.5 | 10.8 | 9.0 | 7.2 | 6.3 |
| 60 | 15.5 | 11.5 | 9.0 | 7.2 | 6.3 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | *FWB | *CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 5.0 |
| | 5 | -15.0 | 6.2 | 6.1 | 6.0 | 5.9 |
| | 14 | -10.0 | 7.3 | 7.2 | 7.0 | 6.9 |
| | 23 | -5.0 | 8.4 | 8.3 | 8.0 | 7.0 |
| | 32 | 0.0 | 9.5 | 9.4 | 8.0 | 7.0 |
| | 37 | 2.5 | 10.0 | 9.9 | 8.0 | 7.0 |
| | 43 | 6.0 | 10.4 | 10.0 | 8.0 | 7.0 |
| | 46 | 7.5 | 10.8 | 10.0 | 8.0 | 7.0 |
| | 50 | 10.0 | 11.4 | 10.0 | 8.0 | 7.0 |
| | 55 | 12.5 | 12.1 | 10.0 | 8.0 | 7.0 |
| 60 | 15.5 | 12.8 | 10.0 | 8.0 | 7.0 | |
| 100 (11.2) | -4 | -20.0 | 6.4 | 6.3 | 6.3 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.4 |
| | 14 | -10.0 | 9.1 | 9.0 | 8.8 | 8.6 |
| | 23 | -5.0 | 10.5 | 10.4 | 10.0 | 8.8 |
| | 32 | 0.0 | 11.8 | 11.8 | 10.0 | 8.8 |
| | 37 | 2.5 | 12.5 | 12.4 | 10.0 | 8.8 |
| | 43 | 6.0 | 13.0 | 12.5 | 10.0 | 8.8 |
| | 46 | 7.5 | 13.4 | 12.5 | 10.0 | 8.8 |
| | 50 | 10.0 | 14.3 | 12.5 | 10.0 | 8.8 |
| | 55 | 12.5 | 15.1 | 12.5 | 10.0 | 8.8 |
| 60 | 15.5 | 16.0 | 12.5 | 10.0 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.2 | 8.0 | 8.0 | 8.0 |
| | 5 | -15.0 | 9.9 | 9.8 | 9.6 | 9.4 |
| | 14 | -10.0 | 11.7 | 11.5 | 11.2 | 11.0 |
| | 23 | -5.0 | 13.4 | 13.3 | 12.8 | 11.2 |
| | 32 | 0.0 | 15.1 | 15.0 | 12.8 | 11.2 |
| | 37 | 2.5 | 16.0 | 15.8 | 12.8 | 11.2 |
| | 43 | 6.0 | 16.6 | 16.0 | 12.8 | 11.2 |
| | 46 | 7.5 | 17.2 | 16.0 | 12.8 | 11.2 |
| | 50 | 10.0 | 18.2 | 16.0 | 12.8 | 11.2 |
| | 55 | 12.5 | 19.3 | 16.0 | 12.8 | 11.2 |
| 60 | 15.5 | 20.5 | 16.0 | 12.8 | 11.2 | |
| 140 (16.0) | -4 | -20.0 | 9.3 | 9.0 | 9.0 | 9.0 |
| | 5 | -15.0 | 11.2 | 11.0 | 10.8 | 10.6 |
| | 14 | -10.0 | 13.1 | 13.0 | 12.6 | 12.3 |
| | 23 | -5.0 | 15.1 | 14.9 | 14.4 | 12.6 |
| | 32 | 0.0 | 17.0 | 16.9 | 14.4 | 12.6 |
| | 37 | 2.5 | 18.0 | 17.8 | 14.4 | 12.6 |
| | 43 | 6.0 | 18.7 | 18.0 | 14.4 | 12.6 |
| | 46 | 7.5 | 19.4 | 18.0 | 14.4 | 12.6 |
| | 50 | 10.0 | 20.5 | 18.0 | 14.4 | 12.6 |
| | 55 | 12.5 | 21.7 | 18.0 | 14.4 | 12.6 |
| 60 | 15.5 | 23.0 | 18.0 | 14.4 | 12.6 | |
| 200 (22.4) | -4 | -20.0 | 12.9 | 12.5 | 12.5 | 12.5 |
| | 5 | -15.0 | 15.5 | 15.3 | 15.0 | 14.8 |
| | 14 | -10.0 | 18.3 | 18.0 | 17.5 | 17.1 |
| | 23 | -5.0 | 21.0 | 20.8 | 20.0 | 17.5 |
| | 32 | 0.0 | 23.6 | 23.5 | 20.0 | 17.5 |
| | 37 | 2.5 | 25.0 | 24.8 | 20.0 | 17.5 |
| | 43 | 6.0 | 26.0 | 25.0 | 20.0 | 17.5 |
| | 46 | 7.5 | 26.9 | 25.0 | 20.0 | 17.5 |
| | 50 | 10.0 | 28.5 | 25.0 | 20.0 | 17.5 |
| | 55 | 12.5 | 30.1 | 25.0 | 20.0 | 17.5 |
| 60 | 15.5 | 32.0 | 25.0 | 20.0 | 17.5 | |
| 250 (28.0) | -4 | -20.0 | 16.2 | 15.8 | 15.8 | 15.8 |
| | 5 | -15.0 | 19.5 | 19.2 | 18.9 | 18.6 |
| | 14 | -10.0 | 23.0 | 22.7 | 22.1 | 21.6 |
| | 23 | -5.0 | 26.5 | 26.1 | 25.2 | 22.1 |
| | 32 | 0.0 | 29.8 | 29.6 | 25.2 | 22.1 |
| | 37 | 2.5 | 31.5 | 31.2 | 25.2 | 22.1 |
| | 43 | 6.0 | 32.8 | 31.5 | 25.2 | 22.1 |
| | 46 | 7.5 | 33.9 | 31.5 | 25.2 | 22.1 |
| | 50 | 10.0 | 35.9 | 31.5 | 25.2 | 22.1 |
| | 55 | 12.5 | 38.0 | 31.5 | 25.2 | 22.1 |
| 60 | 15.5 | 40.3 | 31.5 | 25.2 | 22.1 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.4 | 2.0 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 82 | 27.5 | 2.1 | 1.8 | 2.1 | 1.9 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 91 | 32.5 | 2.0 | 1.8 | 2.0 | 1.8 | 2.2 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 |
| | 100 | 37.5 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.0 | 1.7 | 2.1 | 1.8 | 2.4 | 2.0 | 2.3 | 1.9 | 2.4 | 1.8 |
| 110 | 43.0 | 1.8 | 1.7 | 1.8 | 1.7 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.8 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.3 | 3.6 | 2.3 |
| | 73 | 22.5 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | 3.6 | 2.3 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.6 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.2 | 3.4 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.1 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.1 | 3.0 | 2.3 | 2.9 | 2.2 | 3.1 | 2.1 |
| 110 | 43.0 | 2.4 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.7 | 3.6 | 2.8 | 3.9 | 2.8 | 4.0 | 2.8 | 4.2 | 2.9 | 4.4 | 2.9 | 4.7 | 2.8 |
| | 73 | 22.5 | 3.5 | 2.7 | 3.6 | 2.8 | 3.8 | 2.7 | 4.0 | 2.8 | 4.1 | 2.9 | 4.3 | 2.9 | 4.6 | 2.8 |
| | 77 | 25.0 | 3.4 | 2.7 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 82 | 27.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 2.8 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 91 | 32.5 | 3.3 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.7 | 2.7 | 3.8 | 2.8 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.2 | 2.7 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.7 | 4.1 | 2.6 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.1 | 2.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.9 | 2.8 | 3.8 | 2.6 | 4.0 | 2.6 |
| 110 | 43.0 | 3.0 | 2.5 | 3.0 | 2.5 | 3.2 | 2.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.3 | 4.5 | 3.4 | 4.9 | 3.4 | 5.0 | 3.5 | 5.2 | 3.6 | 5.5 | 3.6 | 5.9 | 3.5 |
| | 73 | 22.5 | 4.3 | 3.3 | 4.5 | 3.4 | 4.8 | 3.4 | 5.0 | 3.4 | 5.1 | 3.6 | 5.4 | 3.5 | 5.7 | 3.5 |
| | 77 | 25.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.3 | 4.9 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 82 | 27.5 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.8 | 3.4 | 4.9 | 3.5 | 5.2 | 3.4 | 5.5 | 3.4 |
| | 86 | 30.0 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.3 | 4.7 | 3.3 | 4.8 | 3.4 | 5.1 | 3.4 | 5.4 | 3.3 |
| | 91 | 32.5 | 4.1 | 3.2 | 4.2 | 3.2 | 4.4 | 3.2 | 4.6 | 3.3 | 4.7 | 3.4 | 5.0 | 3.4 | 5.3 | 3.3 |
| | 95 | 35.0 | 4.0 | 3.1 | 4.1 | 3.2 | 4.3 | 3.2 | 4.5 | 3.2 | 4.6 | 3.4 | 4.9 | 3.3 | 5.2 | 3.3 |
| | 100 | 37.5 | 4.0 | 3.1 | 4.0 | 3.2 | 4.3 | 3.1 | 4.4 | 3.2 | 4.5 | 3.3 | 4.8 | 3.3 | 5.1 | 3.2 |
| | 104 | 40.0 | 3.9 | 3.1 | 3.9 | 3.1 | 4.2 | 3.1 | 4.3 | 3.2 | 4.9 | 3.5 | 4.7 | 3.2 | 5.0 | 3.2 |
| 110 | 43.0 | 3.8 | 3.0 | 3.8 | 3.1 | 4.1 | 3.0 | 4.2 | 3.1 | 4.3 | 3.2 | 4.6 | 3.2 | 4.8 | 3.1 | |
| 50 (5.6) | 68 | 20.0 | 5.4 | 3.9 | 5.6 | 4.0 | 6.0 | 4.0 | 6.3 | 4.0 | 6.5 | 4.2 | 6.9 | 4.1 | 7.3 | 4.1 |
| | 73 | 22.5 | 5.4 | 3.9 | 5.6 | 4.0 | 6.0 | 3.9 | 6.2 | 4.0 | 6.4 | 4.1 | 6.7 | 4.1 | 7.1 | 4.0 |
| | 77 | 25.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.0 | 4.0 |
| | 82 | 27.5 | 5.2 | 3.8 | 5.4 | 3.9 | 5.7 | 3.8 | 5.9 | 3.9 | 6.1 | 4.0 | 6.5 | 4.0 | 6.9 | 3.9 |
| | 86 | 30.0 | 5.2 | 3.7 | 5.3 | 3.8 | 5.6 | 3.8 | 5.8 | 3.8 | 6.0 | 4.0 | 6.4 | 3.9 | 6.7 | 3.9 |
| | 91 | 32.5 | 5.1 | 3.7 | 5.2 | 3.8 | 5.5 | 3.7 | 5.7 | 3.8 | 5.9 | 3.9 | 6.2 | 3.9 | 6.6 | 3.8 |
| | 95 | 35.0 | 5.0 | 3.6 | 5.1 | 3.7 | 5.4 | 3.7 | 5.6 | 3.7 | 5.8 | 3.9 | 6.1 | 3.8 | 6.5 | 3.8 |
| | 100 | 37.5 | 4.9 | 3.6 | 5.0 | 3.7 | 5.3 | 3.6 | 5.5 | 3.7 | 5.7 | 3.8 | 6.0 | 3.8 | 6.3 | 3.7 |
| | 104 | 40.0 | 4.8 | 3.6 | 4.8 | 3.6 | 5.2 | 3.6 | 5.3 | 3.6 | 6.1 | 4.0 | 5.9 | 3.7 | 6.2 | 3.7 |
| 110 | 43.0 | 4.7 | 3.5 | 4.7 | 3.5 | 5.0 | 3.5 | 5.2 | 3.6 | 5.3 | 3.7 | 5.7 | 3.7 | 6.0 | 3.6 | |
| 63 (7.1) | 68 | 20.0 | 6.9 | 5.1 | 7.1 | 5.2 | 7.7 | 5.2 | 8.0 | 5.3 | 8.2 | 5.5 | 8.7 | 5.5 | 9.2 | 5.4 |
| | 73 | 22.5 | 6.9 | 5.1 | 7.1 | 5.2 | 7.6 | 5.2 | 7.8 | 5.3 | 8.1 | 5.5 | 8.5 | 5.4 | 9.1 | 5.3 |
| | 77 | 25.0 | 6.8 | 5.0 | 7.0 | 5.2 | 7.4 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 8.9 | 5.2 |
| | 82 | 27.5 | 6.6 | 5.0 | 6.8 | 5.1 | 7.3 | 5.1 | 7.5 | 5.1 | 7.8 | 5.3 | 8.2 | 5.3 | 8.7 | 5.2 |
| | 86 | 30.0 | 6.5 | 4.9 | 6.7 | 5.0 | 7.1 | 5.0 | 7.4 | 5.1 | 7.6 | 5.3 | 8.1 | 5.2 | 8.5 | 5.1 |
| | 91 | 32.5 | 6.4 | 4.9 | 6.6 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.5 | 5.2 | 7.9 | 5.1 | 8.4 | 5.1 |
| | 95 | 35.0 | 6.3 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.7 | 5.1 | 8.2 | 5.0 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.3 | 4.8 | 6.7 | 4.8 | 6.9 | 4.9 | 7.2 | 5.1 | 7.6 | 5.0 | 8.0 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.1 | 4.8 | 6.6 | 4.7 | 6.8 | 4.8 | 7.7 | 5.3 | 7.4 | 5.0 | 7.8 | 4.9 |
| 110 | 43.0 | 6.0 | 4.6 | 6.0 | 4.7 | 6.4 | 4.7 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.9 | 7.6 | 4.8 | |
| 71 (8.0) | 68 | 20.0 | 7.8 | 5.7 | 8.0 | 5.9 | 8.6 | 5.9 | 9.0 | 5.9 | 9.2 | 6.2 | 9.8 | 6.1 | 10.4 | 6.0 |
| | 73 | 22.5 | 7.7 | 5.7 | 8.0 | 5.8 | 8.5 | 5.8 | 8.8 | 5.9 | 9.1 | 6.1 | 9.6 | 6.0 | 10.2 | 5.9 |
| | 77 | 25.0 | 7.6 | 5.6 | 7.8 | 5.8 | 8.4 | 5.7 | 8.6 | 5.8 | 8.9 | 6.0 | 9.4 | 5.9 | 10.0 | 5.9 |
| | 82 | 27.5 | 7.5 | 5.5 | 7.7 | 5.7 | 8.2 | 5.7 | 8.5 | 5.7 | 8.7 | 6.0 | 9.3 | 5.9 | 9.8 | 5.8 |
| | 86 | 30.0 | 7.4 | 5.5 | 7.5 | 5.6 | 8.0 | 5.6 | 8.3 | 5.7 | 8.6 | 5.9 | 9.1 | 5.8 | 9.6 | 5.7 |
| | 91 | 32.5 | 7.2 | 5.4 | 7.4 | 5.5 | 7.9 | 5.5 | 8.2 | 5.6 | 8.4 | 5.8 | 8.9 | 5.7 | 9.4 | 5.6 |
| | 95 | 35.0 | 7.1 | 5.4 | 7.2 | 5.5 | 7.7 | 5.4 | 8.0 | 5.5 | 8.2 | 5.7 | 8.7 | 5.7 | 9.2 | 5.6 |
| | 100 | 37.5 | 7.0 | 5.3 | 7.1 | 5.4 | 7.6 | 5.4 | 7.8 | 5.5 | 8.1 | 5.7 | 8.6 | 5.6 | 9.1 | 5.5 |
| | 104 | 40.0 | 6.9 | 5.3 | 6.9 | 5.3 | 7.4 | 5.3 | 7.6 | 5.4 | 8.7 | 5.9 | 8.4 | 5.5 | 8.8 | 5.4 |
| 110 | 43.0 | 6.7 | 5.2 | 6.7 | 5.2 | 7.2 | 5.2 | 7.4 | 5.3 | 7.6 | 5.5 | 8.1 | 5.4 | 8.6 | 5.4 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.7 | 6.4 | 9.0 | 6.6 | 9.7 | 6.6 | 10.1 | 6.7 | 10.4 | 7.0 | 11.0 | 6.9 | 11.7 | 6.8 |
| | 73 | 22.5 | 8.7 | 6.4 | 9.0 | 6.6 | 9.6 | 6.6 | 9.9 | 6.7 | 10.2 | 6.9 | 10.8 | 6.8 | 11.5 | 6.7 |
| | 77 | 25.0 | 8.6 | 6.4 | 8.8 | 6.5 | 9.4 | 6.5 | 9.7 | 6.6 | 10.0 | 6.8 | 10.6 | 6.7 | 11.3 | 6.6 |
| | 82 | 27.5 | 8.4 | 6.3 | 8.6 | 6.4 | 9.2 | 6.4 | 9.5 | 6.5 | 9.8 | 6.7 | 10.4 | 6.7 | 11.0 | 6.5 |
| | 86 | 30.0 | 8.3 | 6.2 | 8.5 | 6.3 | 9.0 | 6.3 | 9.4 | 6.4 | 9.6 | 6.7 | 10.3 | 6.6 | 10.8 | 6.5 |
| | 91 | 32.5 | 8.1 | 6.1 | 8.3 | 6.3 | 8.9 | 6.2 | 9.2 | 6.3 | 9.5 | 6.6 | 10.0 | 6.5 | 10.6 | 6.4 |
| | 95 | 35.0 | 8.0 | 6.1 | 8.1 | 6.2 | 8.6 | 6.1 | 9.0 | 6.3 | 9.3 | 6.5 | 9.8 | 6.4 | 10.4 | 6.3 |
| | 100 | 37.5 | 7.9 | 6.0 | 8.0 | 6.1 | 8.5 | 6.1 | 8.8 | 6.2 | 9.1 | 6.4 | 9.6 | 6.3 | 10.2 | 6.2 |
| | 104 | 40.0 | 7.8 | 6.0 | 7.8 | 6.0 | 8.3 | 6.0 | 8.6 | 6.1 | 8.8 | 6.4 | 9.4 | 6.3 | 9.9 | 6.2 |
| 110 | 43.0 | 7.6 | 5.8 | 7.6 | 5.9 | 8.1 | 5.9 | 8.4 | 6.0 | 8.6 | 6.2 | 9.1 | 6.2 | 9.7 | 6.1 | |
| 100 (11.2) | 68 | 20.0 | 10.9 | 8.6 | 11.3 | 8.9 | 12.1 | 8.9 | 12.5 | 9.1 | 12.9 | 9.5 | 13.7 | 9.3 | 14.6 | 9.2 |
| | 73 | 22.5 | 10.8 | 8.6 | 11.2 | 8.9 | 11.9 | 8.8 | 12.3 | 9.0 | 12.7 | 9.4 | 13.5 | 9.3 | 14.3 | 9.1 |
| | 77 | 25.0 | 10.7 | 8.5 | 11.0 | 8.8 | 11.7 | 8.7 | 12.1 | 8.9 | 12.5 | 9.3 | 13.2 | 9.2 | 14.0 | 9.0 |
| | 82 | 27.5 | 10.5 | 8.4 | 10.8 | 8.7 | 11.5 | 8.6 | 11.9 | 8.8 | 12.2 | 9.2 | 13.0 | 9.1 | 13.7 | 8.9 |
| | 86 | 30.0 | 10.3 | 8.4 | 10.5 | 8.6 | 11.3 | 8.6 | 11.6 | 8.7 | 12.0 | 9.1 | 12.8 | 9.0 | 13.4 | 8.8 |
| | 91 | 32.5 | 10.1 | 8.3 | 10.4 | 8.5 | 11.0 | 8.5 | 11.4 | 8.7 | 11.8 | 9.0 | 12.4 | 8.9 | 13.2 | 8.8 |
| | 95 | 35.0 | 10.0 | 8.2 | 10.1 | 8.4 | 10.8 | 8.3 | 11.2 | 8.6 | 11.5 | 8.9 | 12.2 | 8.8 | 12.9 | 8.7 |
| | 100 | 37.5 | 9.9 | 8.2 | 9.9 | 8.3 | 10.6 | 8.3 | 10.9 | 8.5 | 11.3 | 8.8 | 12.0 | 8.7 | 12.7 | 8.6 |
| | 104 | 40.0 | 9.7 | 8.1 | 9.7 | 8.2 | 10.4 | 8.2 | 10.7 | 8.4 | 11.1 | 8.8 | 11.7 | 8.6 | 12.4 | 8.5 |
| 110 | 43.0 | 9.4 | 7.9 | 9.4 | 8.1 | 10.1 | 8.1 | 10.4 | 8.3 | 10.7 | 8.6 | 11.4 | 8.5 | 12.0 | 8.4 | |
| 125 (14.0) | 68 | 20.0 | 13.6 | 10.0 | 14.1 | 10.3 | 15.1 | 10.3 | 15.7 | 10.4 | 16.2 | 10.8 | 17.2 | 10.7 | 18.2 | 10.5 |
| | 73 | 22.5 | 13.5 | 9.9 | 14.0 | 10.2 | 14.9 | 10.2 | 15.4 | 10.3 | 15.9 | 10.7 | 16.8 | 10.6 | 17.9 | 10.4 |
| | 77 | 25.0 | 13.4 | 9.9 | 13.7 | 10.1 | 14.6 | 10.0 | 15.1 | 10.2 | 15.6 | 10.6 | 16.5 | 10.4 | 17.5 | 10.3 |
| | 82 | 27.5 | 13.1 | 9.7 | 13.4 | 10.0 | 14.4 | 9.9 | 14.8 | 10.1 | 15.3 | 10.5 | 16.2 | 10.3 | 17.2 | 10.1 |
| | 86 | 30.0 | 12.9 | 9.6 | 13.2 | 9.8 | 14.1 | 9.8 | 14.6 | 10.0 | 15.0 | 10.3 | 16.0 | 10.2 | 16.8 | 10.0 |
| | 91 | 32.5 | 12.7 | 9.5 | 13.0 | 9.7 | 13.8 | 9.7 | 14.3 | 9.8 | 14.7 | 10.2 | 15.5 | 10.1 | 16.5 | 9.9 |
| | 95 | 35.0 | 12.5 | 9.4 | 12.7 | 9.6 | 13.4 | 9.5 | 14.0 | 9.7 | 14.4 | 10.1 | 15.3 | 9.9 | 16.2 | 9.8 |
| | 100 | 37.5 | 12.3 | 9.3 | 12.4 | 9.5 | 13.2 | 9.4 | 13.7 | 9.6 | 14.1 | 10.0 | 15.0 | 9.8 | 15.8 | 9.7 |
| | 104 | 40.0 | 12.1 | 9.2 | 12.1 | 9.3 | 13.0 | 9.3 | 13.4 | 9.5 | 13.8 | 9.8 | 14.6 | 9.7 | 15.5 | 9.5 |
| 110 | 43.0 | 11.8 | 9.1 | 11.8 | 9.2 | 12.6 | 9.1 | 13.0 | 9.3 | 13.4 | 9.7 | 14.2 | 9.5 | 15.1 | 9.4 | |
| 140 (16.0) | 68 | 20.0 | 15.5 | 11.4 | 16.1 | 11.8 | 17.3 | 11.7 | 17.9 | 11.9 | 18.5 | 12.4 | 19.6 | 12.2 | 20.8 | 12.0 |
| | 73 | 22.5 | 15.4 | 11.4 | 16.0 | 11.7 | 17.0 | 11.6 | 17.6 | 11.8 | 18.2 | 12.2 | 19.2 | 12.1 | 20.4 | 11.9 |
| | 77 | 25.0 | 15.3 | 11.3 | 15.7 | 11.6 | 16.7 | 11.5 | 17.3 | 11.7 | 17.8 | 12.1 | 18.9 | 11.9 | 20.0 | 11.7 |
| | 82 | 27.5 | 15.0 | 11.1 | 15.4 | 11.4 | 16.4 | 11.3 | 17.0 | 11.5 | 17.5 | 12.0 | 18.5 | 11.8 | 19.6 | 11.6 |
| | 86 | 30.0 | 14.7 | 11.0 | 15.0 | 11.2 | 16.1 | 11.2 | 16.6 | 11.4 | 17.1 | 11.8 | 18.2 | 11.7 | 19.2 | 11.4 |
| | 91 | 32.5 | 14.5 | 10.9 | 14.8 | 11.1 | 15.8 | 11.0 | 16.3 | 11.2 | 16.8 | 11.7 | 17.8 | 11.5 | 18.8 | 11.3 |
| | 95 | 35.0 | 14.2 | 10.8 | 14.5 | 11.0 | 15.4 | 10.9 | 16.0 | 11.1 | 16.5 | 11.5 | 17.4 | 11.4 | 18.5 | 11.2 |
| | 100 | 37.5 | 14.1 | 10.7 | 14.2 | 10.8 | 15.1 | 10.8 | 15.6 | 10.9 | 16.2 | 11.4 | 17.1 | 11.2 | 18.1 | 11.1 |
| | 104 | 40.0 | 13.8 | 10.6 | 13.8 | 10.7 | 14.8 | 10.6 | 15.3 | 10.8 | 15.7 | 11.4 | 16.7 | 11.1 | 17.7 | 10.9 |
| 110 | 43.0 | 13.4 | 10.4 | 13.4 | 10.5 | 14.4 | 10.4 | 14.9 | 10.6 | 15.3 | 11.0 | 16.2 | 10.9 | 17.2 | 10.7 | |
| 200 (22.4) | 68 | 20.0 | 21.7 | 16.3 | 22.5 | 16.8 | 24.2 | 16.8 | 25.1 | 17.1 | 25.9 | 17.8 | 27.4 | 17.5 | 29.1 | 17.3 |
| | 73 | 22.5 | 21.6 | 16.3 | 22.4 | 16.8 | 23.9 | 16.7 | 24.6 | 16.9 | 25.4 | 17.6 | 26.9 | 17.3 | 28.6 | 17.1 |
| | 77 | 25.0 | 21.4 | 16.1 | 22.0 | 16.6 | 23.4 | 16.5 | 24.2 | 16.7 | 24.9 | 17.4 | 26.4 | 17.1 | 28.0 | 16.9 |
| | 82 | 27.5 | 20.9 | 15.9 | 21.5 | 16.4 | 23.0 | 16.3 | 23.7 | 16.6 | 24.5 | 17.2 | 25.9 | 17.0 | 27.4 | 16.7 |
| | 86 | 30.0 | 20.6 | 15.8 | 21.1 | 16.2 | 22.5 | 16.1 | 23.3 | 16.4 | 24.0 | 17.0 | 25.5 | 16.8 | 26.9 | 16.5 |
| | 91 | 32.5 | 20.3 | 15.6 | 20.7 | 16.0 | 22.1 | 15.9 | 22.8 | 16.2 | 23.5 | 16.8 | 24.9 | 16.5 | 26.4 | 16.3 |
| | 95 | 35.0 | 19.9 | 15.4 | 20.3 | 15.8 | 21.5 | 15.6 | 22.4 | 16.0 | 23.1 | 16.6 | 24.4 | 16.4 | 25.9 | 16.1 |
| | 100 | 37.5 | 19.7 | 15.3 | 19.8 | 15.6 | 21.2 | 15.5 | 21.8 | 15.8 | 22.6 | 16.4 | 24.0 | 16.2 | 25.4 | 16.0 |
| | 104 | 40.0 | 19.4 | 15.2 | 19.4 | 15.4 | 20.7 | 15.3 | 21.4 | 15.6 | 22.3 | 17.1 | 23.4 | 16.0 | 24.8 | 15.7 |
| 110 | 43.0 | 18.8 | 14.9 | 18.8 | 15.1 | 20.2 | 15.0 | 20.8 | 15.4 | 21.4 | 15.9 | 22.7 | 15.8 | 24.1 | 15.5 | |
| 250 (28.0) | 68 | 20.0 | 27.2 | 20.3 | 28.1 | 20.9 | 30.2 | 20.9 | 31.4 | 21.3 | 32.3 | 22.1 | 34.3 | 21.8 | 36.4 | 21.5 |
| | 73 | 22.5 | 27.0 | 20.2 | 28.0 | 20.9 | 29.8 | 20.7 | 30.8 | 21.0 | 31.8 | 21.9 | 33.7 | 21.5 | 35.7 | 21.2 |
| | 77 | 25.0 | 26.7 | 20.1 | 27.4 | 20.6 | 29.3 | 20.5 | 30.2 | 20.8 | 31.2 | 21.6 | 33.0 | 21.3 | 35.0 | 21.0 |
| | 82 | 27.5 | 26.2 | 19.8 | 26.9 | 20.3 | 28.7 | 20.2 | 29.7 | 20.6 | 30.6 | 21.4 | 32.4 | 21.1 | 34.3 | 20.7 |
| | 86 | 30.0 | 25.8 | 19.6 | 26.3 | 20.1 | 28.1 | 20.0 | 29.1 | 20.3 | 30.0 | 21.1 | 31.9 | 20.9 | 33.6 | 20.5 |
| | 91 | 32.5 | 25.3 | 19.4 | 25.9 | 19.9 | 27.6 | 19.7 | 28.6 | 20.1 | 29.4 | 20.9 | 31.1 | 20.6 | 33.0 | 20.3 |
| | 95 | 35.0 | 24.9 | 19.2 | 25.3 | 19.6 | 26.9 | 19.4 | 28.0 | 19.9 | 28.8 | 20.6 | 30.5 | 20.3 | 32.3 | 20.0 |
| | 100 | 37.5 | 24.6 | 19.1 | 24.8 | 19.4 | 26.5 | 19.2 | 27.3 | 19.6 | 28.3 | 20.4 | 30.0 | 20.1 | 31.7 | 19.8 |
| | 104 | 40.0 | 24.2 | 18.8 | 24.2 | 19.1 | 25.9 | 19.0 | 26.7 | 19.3 | 27.3 | 20.4 | 29.3 | 19.9 | 30.9 | 19.5 |
| 110 | 43.0 | 23.5 | 18.5 | 23.5 | 18.8 | 25.2 | 18.7 | 26.0 | 19.1 | 26.7 | 19.8 | 28.4 | 19.6 | 30.1 | 19.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PEFY-P-VML-E,VMH-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 55 | 12.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.0 |
| | 5 | -15.0 | 3.8 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.4 | 4.4 | 4.3 | 4.0 |
| | 23 | -5.0 | 5.0 | 5.0 | 4.7 | 4.0 |
| | 32 | 0.0 | 5.7 | 5.7 | 4.7 | 4.0 |
| | 37 | 2.5 | 6.0 | 6.0 | 4.7 | 4.0 |
| | 43 | 6.0 | 6.5 | 6.3 | 4.7 | 4.0 |
| | 46 | 7.5 | 6.7 | 6.3 | 4.7 | 4.0 |
| | 50 | 10.0 | 7.0 | 6.3 | 4.7 | 4.0 |
| | 55 | 12.5 | 7.2 | 6.3 | 4.7 | 4.0 |
| 60 | 15.5 | 7.2 | 6.3 | 4.7 | 4.0 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 55 | 12.5 | 9.2 | 8.0 | 6.0 | 5.1 |
| 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 | |
| 71 (8.0) | -4 | -20.0 | 4.7 | 4.5 | 4.5 | 4.3 |
| | 5 | -15.0 | 5.4 | 5.4 | 5.4 | 5.2 |
| | 14 | -10.0 | 6.3 | 6.3 | 6.2 | 5.8 |
| | 23 | -5.0 | 7.2 | 7.2 | 6.8 | 5.8 |
| | 32 | 0.0 | 8.1 | 8.1 | 6.8 | 5.8 |
| | 37 | 2.5 | 8.6 | 8.5 | 6.8 | 5.8 |
| | 43 | 6.0 | 9.2 | 9.0 | 6.8 | 5.8 |
| | 46 | 7.5 | 9.5 | 9.0 | 6.8 | 5.8 |
| | 50 | 10.0 | 9.9 | 9.0 | 6.8 | 5.8 |
| | 55 | 12.5 | 10.4 | 9.0 | 6.8 | 5.8 |
| 60 | 15.5 | 10.4 | 9.0 | 6.8 | 5.8 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 4.8 |
| | 5 | -15.0 | 6.0 | 6.0 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.0 | 7.0 | 6.9 | 6.4 |
| | 23 | -5.0 | 8.0 | 8.0 | 7.5 | 6.4 |
| | 32 | 0.0 | 9.0 | 9.0 | 7.5 | 6.4 |
| | 37 | 2.5 | 9.6 | 9.5 | 7.5 | 6.4 |
| | 43 | 6.0 | 10.3 | 10.0 | 7.5 | 6.4 |
| | 46 | 7.5 | 10.6 | 10.0 | 7.5 | 6.4 |
| | 50 | 10.0 | 11.1 | 10.0 | 7.5 | 6.4 |
| | 55 | 12.5 | 11.5 | 10.0 | 7.5 | 6.4 |
| 60 | 15.5 | 11.5 | 10.0 | 7.5 | 6.4 | |
| 100 (11.2) | -4 | -20.0 | 6.5 | 6.3 | 6.3 | 6.0 |
| | 5 | -15.0 | 7.5 | 7.5 | 7.5 | 7.3 |
| | 14 | -10.0 | 8.8 | 8.8 | 8.6 | 8.0 |
| | 23 | -5.0 | 10.0 | 10.0 | 9.4 | 8.0 |
| | 32 | 0.0 | 11.3 | 11.3 | 9.4 | 8.0 |
| | 37 | 2.5 | 11.9 | 11.8 | 9.4 | 8.0 |
| | 43 | 6.0 | 12.8 | 12.5 | 9.4 | 8.0 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.4 | 8.0 |
| | 50 | 10.0 | 13.8 | 12.5 | 9.4 | 8.0 |
| | 55 | 12.5 | 14.4 | 12.5 | 9.4 | 8.0 |
| 60 | 15.5 | 14.4 | 12.5 | 9.4 | 8.0 | |
| 125 (14.0) | -4 | -20.0 | 8.3 | 8.0 | 8.0 | 7.7 |
| | 5 | -15.0 | 9.6 | 9.6 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.2 | 11.2 | 11.0 | 10.2 |
| | 23 | -5.0 | 12.8 | 12.8 | 12.0 | 10.2 |
| | 32 | 0.0 | 14.4 | 14.4 | 12.0 | 10.2 |
| | 37 | 2.5 | 15.3 | 15.1 | 12.0 | 10.2 |
| | 43 | 6.0 | 16.4 | 16.0 | 12.0 | 10.2 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.0 | 10.2 |
| | 50 | 10.0 | 17.7 | 16.0 | 12.0 | 10.2 |
| | 55 | 12.5 | 18.4 | 16.0 | 12.0 | 10.2 |
| 60 | 15.5 | 18.4 | 16.0 | 12.0 | 10.2 | |
| 140 (16.0) | -4 | -20.0 | 9.4 | 9.0 | 9.0 | 8.6 |
| | 5 | -15.0 | 10.8 | 10.8 | 10.8 | 10.4 |
| | 14 | -10.0 | 12.6 | 12.6 | 12.3 | 11.5 |
| | 23 | -5.0 | 14.4 | 14.4 | 13.5 | 11.5 |
| | 32 | 0.0 | 16.2 | 16.2 | 13.5 | 11.5 |
| | 37 | 2.5 | 17.2 | 17.0 | 13.5 | 11.5 |
| | 43 | 6.0 | 18.5 | 18.0 | 13.5 | 11.5 |
| | 46 | 7.5 | 19.1 | 18.0 | 13.5 | 11.5 |
| | 50 | 10.0 | 19.9 | 18.0 | 13.5 | 11.5 |
| | 55 | 12.5 | 20.7 | 18.0 | 13.5 | 11.5 |
| 60 | 15.5 | 20.7 | 18.0 | 13.5 | 11.5 | |
| 200 (22.4) | -4 | -20.0 | 13.0 | 12.5 | 12.5 | 12.0 |
| | 5 | -15.0 | 15.0 | 15.0 | 15.0 | 14.5 |
| | 14 | -10.0 | 17.5 | 17.5 | 17.1 | 16.0 |
| | 23 | -5.0 | 20.0 | 20.0 | 18.8 | 16.0 |
| | 32 | 0.0 | 22.5 | 22.5 | 18.8 | 16.0 |
| | 37 | 2.5 | 23.9 | 23.6 | 18.8 | 16.0 |
| | 43 | 6.0 | 25.6 | 25.0 | 18.8 | 16.0 |
| | 46 | 7.5 | 26.5 | 25.0 | 18.8 | 16.0 |
| | 50 | 10.0 | 27.6 | 25.0 | 18.8 | 16.0 |
| | 55 | 12.5 | 28.8 | 25.0 | 18.8 | 16.0 |
| 60 | 15.5 | 28.8 | 25.0 | 18.8 | 16.0 | |
| 250 (28.0) | -4 | -20.0 | 16.4 | 15.8 | 15.8 | 15.1 |
| | 5 | -15.0 | 18.9 | 18.9 | 18.9 | 18.3 |
| | 14 | -10.0 | 22.1 | 22.1 | 21.6 | 20.2 |
| | 23 | -5.0 | 25.2 | 25.2 | 23.6 | 20.2 |
| | 32 | 0.0 | 28.4 | 28.4 | 23.6 | 20.2 |
| | 37 | 2.5 | 30.1 | 29.8 | 23.6 | 20.2 |
| | 43 | 6.0 | 32.3 | 31.5 | 23.6 | 20.2 |
| | 46 | 7.5 | 33.4 | 31.5 | 23.6 | 20.2 |
| | 50 | 10.0 | 34.8 | 31.5 | 23.6 | 20.2 |
| | 55 | 12.5 | 36.2 | 31.5 | 23.6 | 20.2 |
| 60 | 15.5 | 36.2 | 31.5 | 23.6 | 20.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.1 | 1.9 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 2.0 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 77 | 25.0 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 2.0 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 82 | 27.5 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.0 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 91 | 32.5 | 2.0 | 1.8 | 2.0 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| 110 | 43.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | |
| 25 (2.8) | 68 | 20.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 73 | 22.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 77 | 25.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.5 | 2.2 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.2 | 3.4 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.3 | 3.2 | 2.2 | 3.4 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.7 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| 110 | 43.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.7 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 77 | 25.0 | 3.3 | 2.6 | 3.4 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 2.8 |
| | 82 | 27.5 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.3 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.4 | 2.7 |
| | 91 | 32.5 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.7 | 2.8 | 4.0 | 2.7 | 4.3 | 2.7 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.5 | 2.6 | 3.5 | 2.6 | 3.7 | 2.8 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.7 | 2.7 | 4.0 | 2.7 | 4.2 | 2.7 |
| 110 | 43.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.4 | 2.5 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.7 | 4.2 | 2.7 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.8 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.7 | 3.4 |
| | 73 | 22.5 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.8 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 77 | 25.0 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.7 | 3.3 | 4.9 | 3.5 | 5.2 | 3.4 | 5.6 | 3.4 |
| | 82 | 27.5 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.3 | 4.7 | 3.3 | 4.9 | 3.5 | 5.2 | 3.4 | 5.4 | 3.3 |
| | 86 | 30.0 | 4.1 | 3.2 | 4.2 | 3.2 | 4.5 | 3.2 | 4.6 | 3.3 | 4.8 | 3.4 | 5.1 | 3.4 | 5.4 | 3.4 |
| | 91 | 32.5 | 4.1 | 3.1 | 4.1 | 3.2 | 4.4 | 3.2 | 4.5 | 3.3 | 4.8 | 3.4 | 5.1 | 3.4 | 5.4 | 3.3 |
| | 95 | 35.0 | 4.0 | 3.1 | 4.1 | 3.2 | 4.4 | 3.2 | 4.5 | 3.2 | 4.7 | 3.4 | 5.0 | 3.4 | 5.4 | 3.3 |
| | 100 | 37.5 | 4.0 | 3.1 | 4.0 | 3.2 | 4.3 | 3.2 | 4.4 | 3.2 | 4.7 | 3.4 | 5.0 | 3.3 | 5.3 | 3.3 |
| | 104 | 40.0 | 3.9 | 3.1 | 4.0 | 3.2 | 4.3 | 3.2 | 4.4 | 3.2 | 4.6 | 3.3 | 5.0 | 3.3 | 5.3 | 3.3 |
| 110 | 43.0 | 3.9 | 3.1 | 3.9 | 3.1 | 4.2 | 3.1 | 4.3 | 3.2 | 4.5 | 3.3 | 4.9 | 3.3 | 5.2 | 3.3 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.8 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 73 | 22.5 | 5.3 | 3.8 | 5.4 | 3.9 | 5.8 | 3.9 | 5.9 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.0 | 4.0 |
| | 77 | 25.0 | 5.2 | 3.8 | 5.3 | 3.8 | 5.7 | 3.8 | 5.9 | 3.9 | 6.1 | 4.0 | 6.5 | 4.0 | 6.9 | 3.9 |
| | 82 | 27.5 | 5.2 | 3.7 | 5.3 | 3.8 | 5.7 | 3.8 | 5.8 | 3.8 | 6.0 | 4.0 | 6.4 | 4.0 | 6.7 | 3.9 |
| | 86 | 30.0 | 5.1 | 3.7 | 5.2 | 3.8 | 5.6 | 3.8 | 5.8 | 3.8 | 6.0 | 4.0 | 6.4 | 3.9 | 6.8 | 3.9 |
| | 91 | 32.5 | 5.0 | 3.7 | 5.2 | 3.8 | 5.5 | 3.7 | 5.7 | 3.8 | 5.9 | 4.0 | 6.3 | 3.9 | 6.7 | 3.9 |
| | 95 | 35.0 | 5.0 | 3.6 | 5.1 | 3.7 | 5.5 | 3.7 | 5.6 | 3.7 | 5.8 | 3.9 | 6.3 | 3.9 | 6.7 | 3.8 |
| | 100 | 37.5 | 4.9 | 3.6 | 5.0 | 3.7 | 5.4 | 3.7 | 5.5 | 3.7 | 5.8 | 3.9 | 6.2 | 3.9 | 6.6 | 3.8 |
| | 104 | 40.0 | 4.8 | 3.6 | 5.0 | 3.7 | 5.3 | 3.7 | 5.4 | 3.7 | 5.7 | 3.9 | 6.2 | 3.9 | 6.6 | 3.8 |
| 110 | 43.0 | 4.8 | 3.6 | 4.9 | 3.6 | 5.3 | 3.6 | 5.4 | 3.7 | 5.7 | 3.8 | 6.0 | 3.8 | 6.5 | 3.8 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.0 | 6.9 | 5.1 | 7.4 | 5.1 | 7.6 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 8.9 | 5.3 |
| | 73 | 22.5 | 6.7 | 5.0 | 6.9 | 5.1 | 7.3 | 5.1 | 7.5 | 5.1 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 77 | 25.0 | 6.6 | 4.9 | 6.8 | 5.1 | 7.2 | 5.0 | 7.5 | 5.1 | 7.7 | 5.3 | 8.2 | 5.3 | 8.8 | 5.2 |
| | 82 | 27.5 | 6.5 | 4.9 | 6.7 | 5.0 | 7.2 | 5.0 | 7.4 | 5.1 | 7.7 | 5.3 | 8.2 | 5.2 | 8.5 | 5.1 |
| | 86 | 30.0 | 6.5 | 4.9 | 6.6 | 5.0 | 7.1 | 5.0 | 7.3 | 5.1 | 7.6 | 5.3 | 8.1 | 5.2 | 8.6 | 5.1 |
| | 91 | 32.5 | 6.4 | 4.8 | 6.5 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.5 | 5.2 | 8.0 | 5.2 | 8.5 | 5.1 |
| | 95 | 35.0 | 6.3 | 4.8 | 6.4 | 4.9 | 6.9 | 4.9 | 7.1 | 5.0 | 7.4 | 5.2 | 8.0 | 5.2 | 8.4 | 5.1 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 7.0 | 4.9 | 7.3 | 5.2 | 7.8 | 5.1 | 8.4 | 5.1 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.3 | 4.8 | 6.8 | 4.8 | 6.9 | 4.9 | 7.2 | 5.1 | 7.8 | 5.1 | 8.3 | 5.0 |
| 110 | 43.0 | 6.1 | 4.7 | 6.2 | 4.8 | 6.7 | 4.8 | 6.8 | 4.8 | 7.2 | 5.1 | 7.7 | 5.1 | 8.2 | 5.0 | |
| 71 (8.0) | 68 | 20.0 | 7.6 | 5.6 | 7.8 | 5.7 | 8.3 | 5.7 | 8.6 | 5.8 | 8.9 | 6.0 | 9.4 | 5.9 | 10.1 | 5.9 |
| | 73 | 22.5 | 7.5 | 5.6 | 7.7 | 5.7 | 8.2 | 5.7 | 8.5 | 5.7 | 8.8 | 6.0 | 9.4 | 5.9 | 10.0 | 5.8 |
| | 77 | 25.0 | 7.4 | 5.5 | 7.6 | 5.7 | 8.2 | 5.6 | 8.4 | 5.7 | 8.7 | 5.9 | 9.3 | 5.9 | 9.9 | 5.8 |
| | 82 | 27.5 | 7.4 | 5.5 | 7.5 | 5.6 | 8.1 | 5.6 | 8.3 | 5.7 | 8.6 | 5.9 | 9.2 | 5.9 | 9.6 | 5.7 |
| | 86 | 30.0 | 7.3 | 5.4 | 7.4 | 5.6 | 8.0 | 5.6 | 8.2 | 5.6 | 8.6 | 5.9 | 9.1 | 5.8 | 9.7 | 5.7 |
| | 91 | 32.5 | 7.2 | 5.4 | 7.4 | 5.5 | 7.8 | 5.5 | 8.1 | 5.6 | 8.5 | 5.8 | 9.0 | 5.8 | 9.6 | 5.7 |
| | 95 | 35.0 | 7.1 | 5.4 | 7.2 | 5.5 | 7.8 | 5.5 | 8.0 | 5.5 | 8.3 | 5.8 | 9.0 | 5.8 | 9.5 | 5.7 |
| | 100 | 37.5 | 7.0 | 5.3 | 7.2 | 5.4 | 7.7 | 5.4 | 7.9 | 5.5 | 8.3 | 5.8 | 8.8 | 5.7 | 9.4 | 5.6 |
| | 104 | 40.0 | 6.9 | 5.3 | 7.1 | 5.4 | 7.6 | 5.4 | 7.8 | 5.4 | 8.2 | 5.7 | 8.8 | 5.7 | 9.4 | 5.6 |
| 110 | 43.0 | 6.9 | 5.2 | 7.0 | 5.4 | 7.5 | 5.3 | 7.7 | 5.4 | 8.1 | 5.7 | 8.6 | 5.6 | 9.3 | 5.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|------|---------------|------|---------------|------|---------------|------|
| | | | 71°FDB/59°FWB | | 73°FDB/61°FWB | | 77°FDB/64°FWB | | 81°FDB/66°FWB | | 82°FDB/68°FWB | | 86°FDB/72°FWB | | 90°FDB/75°FWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| | °FDB | °CDB | 21.5°CDB/15°CWB | 23°CDB/16°CWB | 25°CDB/18°CWB | 27°CDB/19°CWB | 28°CDB/20°CWB | 30°CDB/22°CWB | 32°CDB/24°CWB | | | | | | | |
| 80 (9.0) | 68 | 20.0 | 8.5 | 6.3 | 8.8 | 6.5 | 9.4 | 6.5 | 9.6 | 6.5 | 10.0 | 6.8 | 10.6 | 6.7 | 11.3 | 6.7 |
| | 73 | 22.5 | 8.5 | 6.3 | 8.7 | 6.5 | 9.3 | 6.4 | 9.5 | 6.5 | 9.9 | 6.8 | 10.6 | 6.7 | 11.2 | 6.6 |
| | 77 | 25.0 | 8.4 | 6.2 | 8.6 | 6.4 | 9.2 | 6.4 | 9.5 | 6.5 | 9.8 | 6.7 | 10.4 | 6.7 | 11.1 | 6.6 |
| | 82 | 27.5 | 8.3 | 6.2 | 8.5 | 6.3 | 9.1 | 6.3 | 9.4 | 6.4 | 9.7 | 6.7 | 10.4 | 6.6 | 10.8 | 6.5 |
| | 86 | 30.0 | 8.2 | 6.2 | 8.4 | 6.3 | 9.0 | 6.3 | 9.3 | 6.4 | 9.6 | 6.7 | 10.3 | 6.6 | 10.9 | 6.5 |
| | 91 | 32.5 | 8.1 | 6.1 | 8.3 | 6.3 | 8.8 | 6.2 | 9.1 | 6.3 | 9.5 | 6.6 | 10.2 | 6.6 | 10.8 | 6.5 |
| | 95 | 35.0 | 8.0 | 6.1 | 8.1 | 6.2 | 8.8 | 6.2 | 9.0 | 6.3 | 9.4 | 6.5 | 10.1 | 6.5 | 10.7 | 6.4 |
| | 100 | 37.5 | 7.9 | 6.0 | 8.1 | 6.2 | 8.6 | 6.1 | 8.9 | 6.2 | 9.3 | 6.5 | 9.9 | 6.5 | 10.6 | 6.4 |
| 104 | 40.0 | 7.8 | 6.0 | 8.0 | 6.1 | 8.6 | 6.1 | 8.7 | 6.2 | 9.2 | 6.5 | 9.9 | 6.4 | 10.5 | 6.4 | |
| 110 | 43.0 | 7.7 | 5.9 | 7.9 | 6.1 | 8.5 | 6.1 | 8.6 | 6.1 | 9.1 | 6.4 | 9.7 | 6.4 | 10.4 | 6.3 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 8.5 | 10.9 | 8.8 | 11.6 | 8.7 | 12.0 | 8.9 | 12.5 | 9.3 | 13.2 | 9.2 | 14.1 | 9.1 |
| | 73 | 22.5 | 10.5 | 8.5 | 10.8 | 8.7 | 11.5 | 8.7 | 11.9 | 8.8 | 12.3 | 9.2 | 13.2 | 9.1 | 13.9 | 9.0 |
| | 77 | 25.0 | 10.4 | 8.4 | 10.7 | 8.7 | 11.4 | 8.6 | 11.8 | 8.8 | 12.2 | 9.2 | 13.0 | 9.1 | 13.8 | 9.0 |
| | 82 | 27.5 | 10.3 | 8.4 | 10.5 | 8.6 | 11.3 | 8.6 | 11.6 | 8.7 | 12.1 | 9.1 | 12.9 | 9.0 | 13.4 | 8.8 |
| | 86 | 30.0 | 10.2 | 8.3 | 10.4 | 8.6 | 11.2 | 8.5 | 11.5 | 8.7 | 12.0 | 9.1 | 12.8 | 9.0 | 13.6 | 8.9 |
| | 91 | 32.5 | 10.1 | 8.3 | 10.3 | 8.5 | 11.0 | 8.4 | 11.3 | 8.6 | 11.9 | 9.0 | 12.7 | 9.0 | 13.4 | 8.8 |
| | 95 | 35.0 | 10.0 | 8.2 | 10.1 | 8.4 | 10.9 | 8.4 | 11.2 | 8.6 | 11.6 | 9.0 | 12.5 | 8.9 | 13.3 | 8.8 |
| | 100 | 37.5 | 9.9 | 8.2 | 10.0 | 8.4 | 10.8 | 8.3 | 11.0 | 8.5 | 11.6 | 8.9 | 12.4 | 8.9 | 13.2 | 8.8 |
| 104 | 40.0 | 9.7 | 8.1 | 9.9 | 8.3 | 10.7 | 8.3 | 10.9 | 8.4 | 11.4 | 8.9 | 12.3 | 8.8 | 13.1 | 8.7 | |
| 110 | 43.0 | 9.6 | 8.1 | 9.8 | 8.3 | 10.5 | 8.2 | 10.8 | 8.4 | 11.3 | 8.8 | 12.1 | 8.8 | 13.0 | 8.7 | |
| 125 (14.0) | 68 | 20.0 | 13.2 | 9.8 | 13.7 | 10.1 | 14.6 | 10.0 | 15.0 | 10.1 | 15.6 | 10.6 | 16.5 | 10.4 | 17.6 | 10.3 |
| | 73 | 22.5 | 13.2 | 9.8 | 13.5 | 10.0 | 14.4 | 9.9 | 14.8 | 10.1 | 15.4 | 10.5 | 16.5 | 10.4 | 17.4 | 10.2 |
| | 77 | 25.0 | 13.0 | 9.7 | 13.4 | 9.9 | 14.3 | 9.9 | 14.7 | 10.0 | 15.3 | 10.4 | 16.2 | 10.3 | 17.3 | 10.2 |
| | 82 | 27.5 | 12.9 | 9.6 | 13.2 | 9.8 | 14.1 | 9.8 | 14.6 | 10.0 | 15.1 | 10.4 | 16.1 | 10.3 | 16.8 | 10.0 |
| | 86 | 30.0 | 12.7 | 9.5 | 13.0 | 9.8 | 14.0 | 9.8 | 14.4 | 9.9 | 15.0 | 10.3 | 16.0 | 10.2 | 16.9 | 10.1 |
| | 91 | 32.5 | 12.6 | 9.5 | 12.9 | 9.7 | 13.7 | 9.6 | 14.1 | 9.8 | 14.8 | 10.3 | 15.8 | 10.2 | 16.8 | 10.0 |
| | 95 | 35.0 | 12.5 | 9.4 | 12.7 | 9.6 | 13.7 | 9.6 | 14.0 | 9.7 | 14.6 | 10.1 | 15.7 | 10.1 | 16.7 | 10.0 |
| | 100 | 37.5 | 12.3 | 9.3 | 12.6 | 9.6 | 13.4 | 9.5 | 13.8 | 9.6 | 14.5 | 10.1 | 15.5 | 10.0 | 16.5 | 9.9 |
| 104 | 40.0 | 12.1 | 9.2 | 12.4 | 9.5 | 13.4 | 9.5 | 13.6 | 9.5 | 14.3 | 10.0 | 15.4 | 10.0 | 16.4 | 9.9 | |
| 110 | 43.0 | 12.0 | 9.2 | 12.3 | 9.4 | 13.2 | 9.4 | 13.4 | 9.5 | 14.1 | 10.0 | 15.1 | 9.9 | 16.2 | 9.8 | |
| 140 (16.0) | 68 | 20.0 | 15.1 | 11.2 | 15.6 | 11.5 | 16.6 | 11.4 | 17.1 | 11.6 | 17.8 | 12.1 | 18.9 | 11.9 | 20.2 | 11.8 |
| | 73 | 22.5 | 15.0 | 11.2 | 15.4 | 11.4 | 16.5 | 11.4 | 17.0 | 11.5 | 17.6 | 12.0 | 18.8 | 11.9 | 19.9 | 11.7 |
| | 77 | 25.0 | 14.9 | 11.1 | 15.3 | 11.4 | 16.3 | 11.3 | 16.8 | 11.5 | 17.4 | 11.9 | 18.6 | 11.8 | 19.8 | 11.7 |
| | 82 | 27.5 | 14.7 | 11.0 | 15.0 | 11.2 | 16.2 | 11.2 | 16.6 | 11.4 | 17.3 | 11.9 | 18.4 | 11.7 | 19.2 | 11.4 |
| | 86 | 30.0 | 14.6 | 10.9 | 14.9 | 11.2 | 16.0 | 11.2 | 16.5 | 11.3 | 17.1 | 11.8 | 18.2 | 11.7 | 19.4 | 11.5 |
| | 91 | 32.5 | 14.4 | 10.8 | 14.7 | 11.1 | 15.7 | 11.0 | 16.2 | 11.2 | 17.0 | 11.7 | 18.1 | 11.6 | 19.2 | 11.4 |
| | 95 | 35.0 | 14.2 | 10.8 | 14.5 | 11.0 | 15.6 | 11.0 | 16.0 | 11.1 | 16.6 | 11.6 | 17.9 | 11.6 | 19.0 | 11.4 |
| | 100 | 37.5 | 14.1 | 10.7 | 14.4 | 10.9 | 15.4 | 10.9 | 15.8 | 11.0 | 16.6 | 11.6 | 17.7 | 11.5 | 18.9 | 11.3 |
| 104 | 40.0 | 13.8 | 10.6 | 14.2 | 10.8 | 15.3 | 10.8 | 15.5 | 10.9 | 16.3 | 11.5 | 17.6 | 11.4 | 18.7 | 11.3 | |
| 110 | 43.0 | 13.8 | 10.5 | 14.0 | 10.8 | 15.0 | 10.7 | 15.4 | 10.8 | 16.2 | 11.4 | 17.3 | 11.3 | 18.6 | 11.2 | |
| 200 (22.4) | 68 | 20.0 | 21.2 | 16.0 | 21.8 | 16.5 | 23.3 | 16.4 | 24.0 | 16.6 | 25.0 | 17.4 | 26.4 | 17.1 | 28.2 | 17.0 |
| | 73 | 22.5 | 21.1 | 16.0 | 21.6 | 16.4 | 23.1 | 16.3 | 23.7 | 16.6 | 24.6 | 17.3 | 26.3 | 17.1 | 27.9 | 16.8 |
| | 77 | 25.0 | 20.8 | 15.9 | 21.4 | 16.3 | 22.8 | 16.2 | 23.5 | 16.5 | 24.4 | 17.2 | 26.0 | 17.0 | 27.7 | 16.8 |
| | 82 | 27.5 | 20.6 | 15.8 | 21.1 | 16.2 | 22.6 | 16.1 | 23.3 | 16.4 | 24.2 | 17.1 | 25.8 | 16.9 | 26.9 | 16.5 |
| | 86 | 30.0 | 20.4 | 15.7 | 20.8 | 16.0 | 22.4 | 16.0 | 23.1 | 16.3 | 24.0 | 17.0 | 25.5 | 16.8 | 27.1 | 16.6 |
| | 91 | 32.5 | 20.2 | 15.5 | 20.6 | 15.9 | 22.0 | 15.8 | 22.6 | 16.1 | 23.7 | 16.9 | 25.3 | 16.7 | 26.9 | 16.5 |
| | 95 | 35.0 | 19.9 | 15.4 | 20.3 | 15.8 | 21.8 | 15.8 | 22.4 | 16.0 | 23.3 | 16.7 | 25.1 | 16.6 | 26.7 | 16.4 |
| | 100 | 37.5 | 19.7 | 15.3 | 20.1 | 15.7 | 21.5 | 15.6 | 22.1 | 15.9 | 23.2 | 16.7 | 24.8 | 16.5 | 26.4 | 16.3 |
| 104 | 40.0 | 19.4 | 15.2 | 19.8 | 15.6 | 21.4 | 15.6 | 21.7 | 15.7 | 22.8 | 16.5 | 24.6 | 16.5 | 26.2 | 16.2 | |
| 110 | 43.0 | 19.3 | 15.1 | 19.6 | 15.5 | 21.1 | 15.4 | 21.5 | 15.6 | 22.6 | 16.4 | 24.2 | 16.3 | 26.0 | 16.2 | |
| 250 (28.0) | 68 | 20.0 | 26.5 | 19.9 | 27.3 | 20.5 | 29.1 | 20.4 | 30.0 | 20.7 | 31.2 | 21.6 | 33.0 | 21.3 | 35.3 | 21.1 |
| | 73 | 22.5 | 26.3 | 19.9 | 27.0 | 20.4 | 28.8 | 20.3 | 29.7 | 20.6 | 30.8 | 21.4 | 32.9 | 21.3 | 34.9 | 20.9 |
| | 77 | 25.0 | 26.0 | 19.7 | 26.7 | 20.3 | 28.6 | 20.2 | 29.4 | 20.5 | 30.5 | 21.3 | 32.5 | 21.1 | 34.6 | 20.8 |
| | 82 | 27.5 | 25.8 | 19.6 | 26.3 | 20.1 | 28.3 | 20.0 | 29.1 | 20.3 | 30.2 | 21.2 | 32.2 | 21.0 | 33.6 | 20.5 |
| | 86 | 30.0 | 25.5 | 19.5 | 26.0 | 19.9 | 28.0 | 19.9 | 28.8 | 20.2 | 30.0 | 21.1 | 31.9 | 20.9 | 33.9 | 20.6 |
| | 91 | 32.5 | 25.2 | 19.3 | 25.8 | 19.8 | 27.4 | 19.7 | 28.3 | 20.0 | 29.7 | 21.0 | 31.6 | 20.8 | 33.6 | 20.5 |
| | 95 | 35.0 | 24.9 | 19.2 | 25.3 | 19.6 | 27.3 | 19.6 | 28.0 | 19.9 | 29.1 | 20.8 | 31.4 | 20.7 | 33.3 | 20.4 |
| | 100 | 37.5 | 24.6 | 19.1 | 25.1 | 19.5 | 26.9 | 19.4 | 27.6 | 19.7 | 29.0 | 20.7 | 30.9 | 20.5 | 33.0 | 20.3 |
| 104 | 40.0 | 24.2 | 18.8 | 24.8 | 19.4 | 26.7 | 19.4 | 27.2 | 19.5 | 28.6 | 20.5 | 30.8 | 20.4 | 32.8 | 20.2 | |
| 110 | 43.0 | 24.1 | 18.8 | 24.5 | 19.2 | 26.3 | 19.2 | 26.9 | 19.4 | 28.3 | 20.4 | 30.2 | 20.2 | 32.5 | 20.1 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VML-E,VMH-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | *FWB | *CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.5 | 4.4 | 4.3 | 4.2 |
| | 23 | -5.0 | 5.2 | 5.0 | 4.9 | 4.4 |
| | 32 | 0.0 | 5.8 | 5.7 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.0 | 6.0 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.5 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.7 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.0 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.3 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 7.3 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |
| 71 (8.0) | -4 | -20.0 | 4.8 | 4.6 | 4.6 | 4.5 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.4 | 5.2 |
| | 14 | -10.0 | 6.5 | 6.3 | 6.1 | 5.9 |
| | 23 | -5.0 | 7.4 | 7.2 | 6.9 | 6.3 |
| | 32 | 0.0 | 8.3 | 8.1 | 7.2 | 6.3 |
| | 37 | 2.5 | 8.6 | 8.6 | 7.2 | 6.3 |
| | 43 | 6.0 | 9.3 | 9.0 | 7.2 | 6.3 |
| | 46 | 7.5 | 9.5 | 9.0 | 7.2 | 6.3 |
| | 50 | 10.0 | 10.0 | 9.0 | 7.2 | 6.3 |
| | 55 | 12.5 | 10.4 | 9.0 | 7.2 | 6.3 |
| 60 | 15.5 | 10.4 | 9.0 | 7.2 | 6.3 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | *FWB | *CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.3 | 5.1 | 5.1 | 5.0 |
| | 5 | -15.0 | 6.3 | 6.1 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.2 | 7.0 | 6.8 | 6.6 |
| | 23 | -5.0 | 8.2 | 8.0 | 7.7 | 7.1 |
| | 32 | 0.0 | 9.2 | 9.0 | 8.0 | 7.1 |
| | 37 | 2.5 | 9.6 | 9.5 | 8.0 | 7.1 |
| | 43 | 6.0 | 10.3 | 10.0 | 8.0 | 7.1 |
| | 46 | 7.5 | 10.6 | 10.0 | 8.0 | 7.1 |
| | 50 | 10.0 | 11.1 | 10.0 | 8.0 | 7.1 |
| | 55 | 12.5 | 11.6 | 10.0 | 8.0 | 7.1 |
| 60 | 15.5 | 11.6 | 10.0 | 8.0 | 7.1 | |
| 100 (11.2) | -4 | -20.0 | 6.6 | 6.4 | 6.4 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.3 |
| | 14 | -10.0 | 9.0 | 8.8 | 8.5 | 8.3 |
| | 23 | -5.0 | 10.3 | 10.0 | 9.6 | 8.8 |
| | 32 | 0.0 | 11.5 | 11.3 | 9.9 | 8.8 |
| | 37 | 2.5 | 12.0 | 11.9 | 9.9 | 8.8 |
| | 43 | 6.0 | 12.9 | 12.5 | 9.9 | 8.8 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.9 | 8.8 |
| | 50 | 10.0 | 13.9 | 12.5 | 9.9 | 8.8 |
| | 55 | 12.5 | 14.5 | 12.5 | 9.9 | 8.8 |
| 60 | 15.5 | 14.5 | 12.5 | 9.9 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.5 | 8.2 | 8.2 | 8.0 |
| | 5 | -15.0 | 10.0 | 9.7 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.5 | 11.2 | 10.9 | 10.6 |
| | 23 | -5.0 | 13.1 | 12.8 | 12.3 | 11.3 |
| | 32 | 0.0 | 14.7 | 14.4 | 12.7 | 11.3 |
| | 37 | 2.5 | 15.4 | 15.2 | 12.7 | 11.3 |
| | 43 | 6.0 | 16.5 | 16.0 | 12.7 | 11.3 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.7 | 11.3 |
| | 50 | 10.0 | 17.8 | 16.0 | 12.7 | 11.3 |
| | 55 | 12.5 | 18.6 | 16.0 | 12.7 | 11.3 |
| 60 | 15.5 | 18.6 | 16.0 | 12.7 | 11.3 | |
| 140 (16.0) | -4 | -20.0 | 9.5 | 9.2 | 9.2 | 9.0 |
| | 5 | -15.0 | 11.3 | 10.9 | 10.8 | 10.4 |
| | 14 | -10.0 | 13.0 | 12.6 | 12.2 | 11.9 |
| | 23 | -5.0 | 14.8 | 14.4 | 13.9 | 12.7 |
| | 32 | 0.0 | 16.6 | 16.2 | 14.3 | 12.7 |
| | 37 | 2.5 | 17.3 | 17.1 | 14.3 | 12.7 |
| | 43 | 6.0 | 18.5 | 18.0 | 14.3 | 12.7 |
| | 46 | 7.5 | 19.1 | 18.0 | 14.3 | 12.7 |
| | 50 | 10.0 | 20.0 | 18.0 | 14.3 | 12.7 |
| | 55 | 12.5 | 20.9 | 18.0 | 14.3 | 12.7 |
| 60 | 15.5 | 20.9 | 18.0 | 14.3 | 12.7 | |
| 200 (22.4) | -4 | -20.0 | 13.3 | 12.8 | 12.8 | 12.5 |
| | 5 | -15.0 | 15.6 | 15.1 | 15.0 | 14.5 |
| | 14 | -10.0 | 18.0 | 17.5 | 17.0 | 16.5 |
| | 23 | -5.0 | 20.5 | 20.0 | 19.3 | 17.6 |
| | 32 | 0.0 | 23.0 | 22.5 | 19.9 | 17.6 |
| | 37 | 2.5 | 24.0 | 23.8 | 19.9 | 17.6 |
| | 43 | 6.0 | 25.8 | 25.0 | 19.9 | 17.6 |
| | 46 | 7.5 | 26.5 | 25.0 | 19.9 | 17.6 |
| | 50 | 10.0 | 27.8 | 25.0 | 19.9 | 17.6 |
| | 55 | 12.5 | 29.0 | 25.0 | 19.9 | 17.6 |
| 60 | 15.5 | 29.0 | 25.0 | 19.9 | 17.6 | |
| 250 (28.0) | -4 | -20.0 | 16.7 | 16.1 | 16.1 | 15.8 |
| | 5 | -15.0 | 19.7 | 19.1 | 18.9 | 18.3 |
| | 14 | -10.0 | 22.7 | 22.1 | 21.4 | 20.8 |
| | 23 | -5.0 | 25.8 | 25.2 | 24.3 | 22.2 |
| | 32 | 0.0 | 29.0 | 28.4 | 25.0 | 22.2 |
| | 37 | 2.5 | 30.2 | 29.9 | 25.0 | 22.2 |
| | 43 | 6.0 | 32.4 | 31.5 | 25.0 | 22.2 |
| | 46 | 7.5 | 33.4 | 31.5 | 25.0 | 22.2 |
| | 50 | 10.0 | 35.0 | 31.5 | 25.0 | 22.2 |
| | 55 | 12.5 | 36.5 | 31.5 | 25.0 | 22.2 |
| 60 | 15.5 | 36.5 | 31.5 | 25.0 | 22.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 |
| | 68 | 20.0 | 2.1 | 1.8 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.4 | 2.0 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 86 | 30.0 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 |
| | 104 | 40.0 | 1.7 | 1.6 | 1.8 | 1.7 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 |
| | 113 | 45.0 | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.9 | 1.7 | 1.9 | 1.8 | 2.0 | 1.8 | 2.2 | 1.7 |
| 25 (2.8) | 50 | 10.0 | 2.8 | 2.2 | 2.9 | 2.3 | 3.1 | 2.2 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 | 3.7 | 2.3 |
| | 68 | 20.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 104 | 40.0 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 |
| | 113 | 45.0 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.7 | 2.9 |
| | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.7 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 86 | 30.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.2 | 2.7 |
| | 104 | 40.0 | 2.9 | 2.4 | 3.0 | 2.5 | 3.2 | 2.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.8 | 2.5 |
| | 113 | 45.0 | 2.7 | 2.3 | 2.8 | 2.4 | 3.0 | 2.4 | 3.0 | 2.4 | 3.1 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.3 | 4.6 | 3.5 | 4.9 | 3.4 | 5.1 | 3.5 | 5.2 | 3.6 | 5.6 | 3.6 | 5.9 | 3.5 |
| | 68 | 20.0 | 4.2 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.8 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 86 | 30.0 | 3.9 | 3.1 | 4.1 | 3.2 | 4.4 | 3.2 | 4.5 | 3.2 | 4.6 | 3.4 | 4.9 | 3.3 | 5.2 | 3.3 |
| | 104 | 40.0 | 3.6 | 2.9 | 3.7 | 3.0 | 3.9 | 3.0 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.7 | 3.1 |
| | 113 | 45.0 | 3.3 | 2.8 | 3.5 | 2.9 | 3.7 | 2.9 | 3.8 | 3.0 | 3.9 | 3.1 | 4.2 | 3.0 | 4.4 | 3.0 |
| 50 (5.6) | 50 | 10.0 | 5.5 | 3.9 | 5.7 | 4.0 | 6.1 | 4.0 | 6.3 | 4.1 | 6.5 | 4.2 | 6.9 | 4.2 | 7.3 | 4.1 |
| | 68 | 20.0 | 5.3 | 3.8 | 5.4 | 3.9 | 5.8 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 6.9 | 3.9 |
| | 86 | 30.0 | 4.9 | 3.6 | 5.1 | 3.7 | 5.4 | 3.7 | 5.6 | 3.7 | 5.8 | 3.9 | 6.1 | 3.8 | 6.5 | 3.8 |
| | 104 | 40.0 | 4.4 | 3.4 | 4.6 | 3.5 | 4.9 | 3.5 | 5.1 | 3.5 | 5.2 | 3.7 | 5.5 | 3.6 | 5.9 | 3.5 |
| | 113 | 45.0 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.7 | 3.4 | 4.9 | 3.5 | 5.2 | 3.5 | 5.5 | 3.4 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 5.2 | 7.3 | 5.3 | 7.8 | 5.3 | 8.0 | 5.4 | 8.3 | 5.6 | 8.8 | 5.5 | 9.3 | 5.4 |
| | 68 | 20.0 | 6.7 | 5.0 | 6.9 | 5.1 | 7.4 | 5.1 | 7.6 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 86 | 30.0 | 6.2 | 4.8 | 6.4 | 4.9 | 6.9 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.8 | 5.1 | 8.2 | 5.0 |
| | 104 | 40.0 | 5.6 | 4.5 | 5.8 | 4.6 | 6.2 | 4.6 | 6.4 | 4.7 | 6.6 | 4.9 | 7.0 | 4.8 | 7.4 | 4.7 |
| | 113 | 45.0 | 5.3 | 4.3 | 5.4 | 4.5 | 5.8 | 4.4 | 6.0 | 4.5 | 6.2 | 4.7 | 6.6 | 4.6 | 6.9 | 4.6 |
| 71 (8.0) | 50 | 10.0 | 7.9 | 5.8 | 8.2 | 5.9 | 8.8 | 5.9 | 9.0 | 6.0 | 9.3 | 6.2 | 9.9 | 6.1 | 10.5 | 6.0 |
| | 68 | 20.0 | 7.5 | 5.6 | 7.8 | 5.7 | 8.3 | 5.7 | 8.6 | 5.8 | 8.8 | 6.0 | 9.4 | 5.9 | 9.9 | 5.8 |
| | 86 | 30.0 | 7.0 | 5.3 | 7.3 | 5.5 | 7.8 | 5.4 | 8.0 | 5.5 | 8.2 | 5.7 | 8.7 | 5.7 | 9.2 | 5.6 |
| | 104 | 40.0 | 6.3 | 5.0 | 6.6 | 5.2 | 7.0 | 5.1 | 7.2 | 5.2 | 7.5 | 5.4 | 7.9 | 5.4 | 8.4 | 5.3 |
| | 113 | 45.0 | 5.9 | 4.8 | 6.1 | 5.0 | 6.6 | 4.9 | 6.8 | 5.0 | 7.0 | 5.2 | 7.4 | 5.2 | 7.8 | 5.1 |
| 80 (9.0) | 50 | 10.0 | 8.9 | 6.5 | 9.2 | 6.7 | 9.9 | 6.7 | 10.2 | 6.8 | 10.5 | 7.0 | 11.1 | 6.9 | 11.8 | 6.8 |
| | 68 | 20.0 | 8.5 | 6.3 | 8.8 | 6.5 | 9.3 | 6.4 | 9.6 | 6.5 | 9.9 | 6.8 | 10.5 | 6.7 | 11.2 | 6.6 |
| | 86 | 30.0 | 7.9 | 6.0 | 8.2 | 6.2 | 8.7 | 6.2 | 9.0 | 6.3 | 9.3 | 6.5 | 9.8 | 6.4 | 10.4 | 6.3 |
| | 104 | 40.0 | 7.1 | 5.6 | 7.4 | 5.8 | 7.9 | 5.8 | 8.1 | 5.9 | 8.4 | 6.2 | 8.9 | 6.1 | 9.4 | 6.0 |
| | 113 | 45.0 | 6.7 | 5.4 | 6.9 | 5.6 | 7.4 | 5.6 | 7.6 | 5.7 | 7.9 | 5.9 | 8.3 | 5.9 | 8.8 | 5.8 |
| 100 (11.2) | 50 | 10.0 | 11.1 | 8.7 | 11.5 | 9.0 | 12.3 | 9.0 | 12.7 | 9.2 | 13.1 | 9.5 | 13.8 | 9.4 | 14.6 | 9.2 |
| | 68 | 20.0 | 10.5 | 8.5 | 10.9 | 8.8 | 11.6 | 8.7 | 12.0 | 8.9 | 12.4 | 9.2 | 13.1 | 9.1 | 13.9 | 9.0 |
| | 86 | 30.0 | 9.8 | 8.1 | 10.2 | 8.4 | 10.9 | 8.4 | 11.2 | 8.6 | 11.5 | 8.9 | 12.2 | 8.8 | 12.9 | 8.7 |
| | 104 | 40.0 | 8.9 | 7.7 | 9.2 | 8.0 | 9.8 | 8.0 | 10.1 | 8.1 | 10.5 | 8.5 | 11.1 | 8.4 | 11.7 | 8.3 |
| | 113 | 45.0 | 8.3 | 7.4 | 8.6 | 7.7 | 9.2 | 7.7 | 9.5 | 7.9 | 9.8 | 8.2 | 10.4 | 8.1 | 11.0 | 8.0 |
| 125 (14.0) | 50 | 10.0 | 13.9 | 10.1 | 14.4 | 10.4 | 15.3 | 10.4 | 15.8 | 10.5 | 16.3 | 10.9 | 17.3 | 10.7 | 18.3 | 10.6 |
| | 68 | 20.0 | 13.1 | 9.8 | 13.6 | 10.1 | 14.5 | 10.0 | 15.0 | 10.1 | 15.5 | 10.5 | 16.4 | 10.4 | 17.3 | 10.2 |
| | 86 | 30.0 | 12.3 | 9.3 | 12.7 | 9.6 | 13.6 | 9.6 | 14.0 | 9.7 | 14.4 | 10.1 | 15.3 | 10.0 | 16.2 | 9.8 |
| | 104 | 40.0 | 11.1 | 8.8 | 11.5 | 9.1 | 12.3 | 9.0 | 12.7 | 9.2 | 13.1 | 9.5 | 13.8 | 9.4 | 14.6 | 9.3 |
| | 113 | 45.0 | 10.4 | 8.4 | 10.7 | 8.7 | 11.5 | 8.7 | 11.8 | 8.8 | 12.2 | 9.2 | 12.9 | 9.1 | 13.7 | 8.9 |
| 140 (16.0) | 50 | 10.0 | 15.9 | 11.6 | 16.4 | 11.9 | 17.5 | 11.9 | 18.1 | 12.0 | 18.7 | 12.5 | 19.8 | 12.3 | 20.9 | 12.1 |
| | 68 | 20.0 | 15.0 | 11.1 | 15.6 | 11.5 | 16.6 | 11.4 | 17.2 | 11.6 | 17.7 | 12.0 | 18.7 | 11.9 | 19.8 | 11.7 |
| | 86 | 30.0 | 14.0 | 10.6 | 14.5 | 11.0 | 15.5 | 10.9 | 16.0 | 11.1 | 16.5 | 11.5 | 17.5 | 11.4 | 18.5 | 11.2 |
| | 104 | 40.0 | 12.7 | 10.0 | 13.1 | 10.4 | 14.0 | 10.3 | 14.5 | 10.5 | 14.9 | 10.9 | 15.8 | 10.8 | 16.7 | 10.6 |
| | 113 | 45.0 | 11.9 | 9.6 | 12.3 | 10.0 | 13.1 | 9.9 | 13.5 | 10.1 | 14.0 | 10.5 | 14.8 | 10.4 | 15.6 | 10.2 |
| 200 (22.4) | 50 | 10.0 | 22.2 | 16.5 | 23.0 | 17.1 | 24.5 | 17.0 | 25.3 | 17.2 | 26.1 | 17.9 | 27.7 | 17.6 | 29.3 | 17.3 |
| | 68 | 20.0 | 21.0 | 16.0 | 21.8 | 16.5 | 23.3 | 16.4 | 24.0 | 16.7 | 24.8 | 17.3 | 26.2 | 17.1 | 27.8 | 16.8 |
| | 86 | 30.0 | 19.6 | 15.3 | 20.3 | 15.8 | 21.7 | 15.7 | 22.4 | 16.0 | 23.1 | 16.6 | 24.5 | 16.4 | 25.9 | 16.1 |
| | 104 | 40.0 | 17.8 | 14.4 | 18.4 | 14.9 | 19.6 | 14.8 | 20.3 | 15.1 | 20.9 | 15.7 | 22.2 | 15.5 | 23.4 | 15.3 |
| | 113 | 45.0 | 16.6 | 13.9 | 17.2 | 14.4 | 18.4 | 14.3 | 19.0 | 14.6 | 19.5 | 15.2 | 20.7 | 15.0 | 21.9 | 14.8 |
| 250 (28.0) | 50 | 10.0 | 27.7 | 20.6 | 28.7 | 21.2 | 30.7 | 21.1 | 31.7 | 21.4 | 32.6 | 22.2 | 34.6 | 21.9 | 36.6 | 21.6 |
| | 68 | 20.0 | 26.3 | 19.9 | 27.2 | 20.5 | 29.1 | 20.4 | 30.0 | 20.7 | 30.9 | 21.5 | 32.8 | 21.2 | 34.7 | 20.9 |
| | 86 | 30.0 | 24.5 | 19.0 | 25.4 | 19.6 | 27.1 | 19.5 | 28.0 | 19.9 | 28.9 | 20.6 | 30.6 | 20.4 | 32.4 | 20.0 |
| | 104 | 40.0 | 22.2 | 17.9 | 23.0 | 18.5 | 24.6 | 18.4 | 25.3 | 18.8 | 26.1 | 19.5 | 27.7 | 19.3 | 29.3 | 19.0 |
| | 113 | 45.0 | 20.8 | 17.2 | 21.5 | 17.8 | 23.0 | 17.7 | 23.7 | 18.1 | 24.4 | 18.9 | 25.9 | 18.6 | 27.4 | 18.3 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PEFY-P-VML-E,VMH-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °F | °C | SHC | SHC | SHC | SHC | SHC |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 50 (5.6) | 50 | 10 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 68 | 20 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 86 | 30 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 104 | 40 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 113 | 45 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| 71 (8.0) | 50 | 10 | 7.1 | 7.1 | 7.1 | 6.0 | 5.5 |
| | 68 | 20 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 86 | 30 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 104 | 40 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 113 | 45 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| 80 (9.0) | 50 | 10 | 7.9 | 7.9 | 7.9 | 6.7 | 6.1 |
| | 68 | 20 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 86 | 30 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 104 | 40 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 113 | 45 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| 100 (11.2) | 50 | 10 | 9.9 | 9.9 | 9.9 | 8.4 | 7.7 |
| | 68 | 20 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 86 | 30 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 104 | 40 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 113 | 45 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| 125 (14.0) | 50 | 10 | 12.7 | 12.7 | 12.7 | 10.7 | 9.8 |
| | 68 | 20 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 86 | 30 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 104 | 40 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 113 | 45 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| 140 (16.0) | 50 | 10 | 14.2 | 14.2 | 14.2 | 12.1 | 11.0 |
| | 68 | 20 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| | 86 | 30 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| | 104 | 40 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| | 113 | 45 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| 200 (22.4) | 50 | 10 | 19.8 | 19.8 | 19.8 | 16.8 | 15.3 |
| | 68 | 20 | 25.0 | 25.0 | 25.0 | 21.2 | 19.4 |
| | 86 | 30 | 25.0 | 25.0 | 25.0 | 21.2 | 19.4 |
| | 104 | 40 | 25.0 | 25.0 | 25.0 | 21.2 | 19.4 |
| | 113 | 45 | 25.0 | 25.0 | 25.0 | 21.2 | 19.4 |
| 250 (28.0) | 50 | 10 | 24.9 | 24.9 | 24.9 | 21.2 | 19.3 |
| | 68 | 20 | 31.5 | 31.5 | 31.5 | 26.7 | 24.4 |
| | 86 | 30 | 31.5 | 31.5 | 31.5 | 26.7 | 24.4 |
| | 104 | 40 | 31.5 | 31.5 | 31.5 | 26.7 | 24.4 |
| | 113 | 45 | 31.5 | 31.5 | 31.5 | 26.7 | 24.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | 2.7 | 1.9 |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 82 | 27.5 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.2 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 91 | 32.5 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 95 | 35.0 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 |
| | 100 | 37.5 | 1.9 | 1.6 | 1.9 | 1.6 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.8 | 1.6 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 |
| 110 | 43.0 | 1.8 | 1.5 | 1.8 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 |
| | 73 | 22.5 | 2.6 | 2.1 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 77 | 25.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.2 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 91 | 32.5 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 95 | 35.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| | 100 | 37.5 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| | 104 | 40.0 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| 110 | 43.0 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.0 | 2.8 | 4.2 | 2.8 | 4.4 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.8 |
| | 77 | 25.0 | 3.3 | 2.5 | 3.4 | 2.6 | 3.7 | 2.6 | 3.8 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 82 | 27.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.3 | 2.7 |
| | 86 | 30.0 | 3.2 | 2.4 | 3.3 | 2.5 | 3.6 | 2.5 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 91 | 32.5 | 3.2 | 2.4 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.7 | 3.7 | 2.7 | 4.0 | 2.7 | 4.2 | 2.6 |
| | 95 | 35.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 100 | 37.5 | 3.0 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.6 | 3.6 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 104 | 40.0 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.4 | 3.5 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.1 | 2.6 |
| 110 | 43.0 | 2.9 | 2.2 | 3.0 | 2.3 | 3.3 | 2.3 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 4.0 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.8 | 3.5 | 5.0 | 3.5 | 5.2 | 3.4 | 5.5 | 3.4 |
| | 73 | 22.5 | 4.2 | 3.1 | 4.4 | 3.2 | 4.6 | 3.2 | 4.8 | 3.4 | 4.9 | 3.4 | 5.2 | 3.4 | 5.4 | 3.4 |
| | 77 | 25.0 | 4.2 | 3.1 | 4.3 | 3.2 | 4.6 | 3.2 | 4.7 | 3.4 | 4.8 | 3.4 | 5.1 | 3.4 | 5.4 | 3.3 |
| | 82 | 27.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.6 | 3.3 | 4.8 | 3.3 | 5.1 | 3.3 | 5.3 | 3.3 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.6 | 3.3 | 4.7 | 3.3 | 5.0 | 3.3 | 5.3 | 3.3 |
| | 91 | 32.5 | 4.0 | 2.9 | 4.1 | 3.0 | 4.4 | 3.1 | 4.5 | 3.3 | 4.7 | 3.3 | 4.9 | 3.3 | 5.2 | 3.2 |
| | 95 | 35.0 | 3.9 | 2.9 | 4.0 | 3.0 | 4.3 | 3.0 | 4.5 | 3.2 | 4.6 | 3.2 | 4.9 | 3.2 | 5.2 | 3.2 |
| | 100 | 37.5 | 3.8 | 2.8 | 3.9 | 2.9 | 4.2 | 3.0 | 4.4 | 3.2 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.2 |
| | 104 | 40.0 | 3.7 | 2.8 | 3.9 | 2.9 | 4.2 | 2.9 | 4.3 | 3.1 | 4.5 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 |
| 110 | 43.0 | 3.6 | 2.7 | 3.8 | 2.8 | 4.1 | 2.9 | 4.2 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 5.0 | 3.1 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.7 | 5.5 | 3.8 | 5.8 | 3.8 | 6.0 | 4.0 | 6.2 | 4.0 | 6.5 | 4.0 | 6.8 | 3.9 |
| | 73 | 22.5 | 5.3 | 3.6 | 5.4 | 3.7 | 5.8 | 3.7 | 5.9 | 4.0 | 6.1 | 4.0 | 6.4 | 3.9 | 6.8 | 3.8 |
| | 77 | 25.0 | 5.2 | 3.6 | 5.3 | 3.7 | 5.7 | 3.7 | 5.9 | 3.9 | 6.0 | 3.9 | 6.4 | 3.9 | 6.7 | 3.8 |
| | 82 | 27.5 | 5.1 | 3.5 | 5.3 | 3.6 | 5.6 | 3.6 | 5.8 | 3.9 | 6.0 | 3.9 | 6.3 | 3.8 | 6.6 | 3.8 |
| | 86 | 30.0 | 5.0 | 3.5 | 5.2 | 3.6 | 5.5 | 3.6 | 5.7 | 3.8 | 5.9 | 3.8 | 6.2 | 3.8 | 6.6 | 3.7 |
| | 91 | 32.5 | 4.9 | 3.4 | 5.1 | 3.5 | 5.5 | 3.5 | 5.6 | 3.8 | 5.8 | 3.8 | 6.1 | 3.7 | 6.5 | 3.7 |
| | 95 | 35.0 | 4.8 | 3.3 | 5.0 | 3.5 | 5.4 | 3.5 | 5.5 | 3.7 | 5.7 | 3.7 | 6.1 | 3.7 | 6.4 | 3.7 |
| | 100 | 37.5 | 4.7 | 3.3 | 4.9 | 3.4 | 5.3 | 3.4 | 5.5 | 3.7 | 5.6 | 3.7 | 6.0 | 3.7 | 6.4 | 3.6 |
| | 104 | 40.0 | 4.6 | 3.2 | 4.8 | 3.3 | 5.2 | 3.4 | 5.4 | 3.6 | 5.6 | 3.6 | 5.9 | 3.6 | 6.3 | 3.6 |
| 110 | 43.0 | 4.5 | 3.1 | 4.7 | 3.2 | 5.1 | 3.3 | 5.3 | 3.5 | 5.5 | 3.5 | 5.8 | 3.5 | 6.2 | 3.5 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.8 | 7.0 | 5.0 | 7.4 | 5.0 | 7.6 | 5.3 | 7.8 | 5.3 | 8.2 | 5.3 | 8.7 | 5.2 |
| | 73 | 22.5 | 6.7 | 4.8 | 6.9 | 4.9 | 7.3 | 5.0 | 7.5 | 5.2 | 7.7 | 5.2 | 8.1 | 5.2 | 8.6 | 5.1 |
| | 77 | 25.0 | 6.6 | 4.7 | 6.8 | 4.9 | 7.2 | 4.9 | 7.4 | 5.2 | 7.6 | 5.2 | 8.1 | 5.1 | 8.5 | 5.1 |
| | 82 | 27.5 | 6.5 | 4.7 | 6.7 | 4.8 | 7.1 | 4.8 | 7.3 | 5.1 | 7.5 | 5.1 | 8.0 | 5.1 | 8.4 | 5.0 |
| | 86 | 30.0 | 6.4 | 4.6 | 6.6 | 4.7 | 7.0 | 4.8 | 7.2 | 5.1 | 7.5 | 5.1 | 7.9 | 5.0 | 8.3 | 5.0 |
| | 91 | 32.5 | 6.3 | 4.5 | 6.5 | 4.7 | 6.9 | 4.7 | 7.1 | 5.0 | 7.4 | 5.0 | 7.8 | 5.0 | 8.2 | 4.9 |
| | 95 | 35.0 | 6.1 | 4.4 | 6.4 | 4.6 | 6.8 | 4.6 | 7.0 | 4.9 | 7.3 | 4.9 | 7.7 | 4.9 | 8.2 | 4.9 |
| | 100 | 37.5 | 6.0 | 4.3 | 6.2 | 4.5 | 6.7 | 4.5 | 6.9 | 4.8 | 7.2 | 4.9 | 7.6 | 4.9 | 8.1 | 4.8 |
| | 104 | 40.0 | 5.9 | 4.2 | 6.1 | 4.4 | 6.6 | 4.5 | 6.8 | 4.8 | 7.1 | 4.8 | 7.5 | 4.8 | 8.0 | 4.8 |
| 110 | 43.0 | 5.7 | 4.1 | 6.0 | 4.3 | 6.4 | 4.4 | 6.7 | 4.7 | 6.9 | 4.7 | 7.4 | 4.7 | 7.9 | 4.7 | |
| 71 (8.0) | 68 | 20.0 | 7.6 | 5.4 | 7.8 | 5.6 | 8.3 | 5.6 | 8.6 | 5.9 | 8.8 | 5.9 | 9.3 | 5.9 | 9.8 | 5.8 |
| | 73 | 22.5 | 7.5 | 5.3 | 7.7 | 5.5 | 8.2 | 5.5 | 8.5 | 5.9 | 8.7 | 5.8 | 9.2 | 5.8 | 9.7 | 5.7 |
| | 77 | 25.0 | 7.4 | 5.3 | 7.6 | 5.4 | 8.1 | 5.5 | 8.4 | 5.8 | 8.6 | 5.8 | 9.1 | 5.7 | 9.6 | 5.7 |
| | 82 | 27.5 | 7.3 | 5.2 | 7.5 | 5.4 | 8.0 | 5.4 | 8.3 | 5.7 | 8.5 | 5.7 | 9.0 | 5.7 | 9.5 | 5.6 |
| | 86 | 30.0 | 7.2 | 5.1 | 7.4 | 5.3 | 7.9 | 5.3 | 8.2 | 5.6 | 8.4 | 5.6 | 8.9 | 5.6 | 9.4 | 5.5 |
| | 91 | 32.5 | 7.1 | 5.0 | 7.3 | 5.2 | 7.8 | 5.2 | 8.0 | 5.6 | 8.3 | 5.6 | 8.8 | 5.5 | 9.3 | 5.5 |
| | 95 | 35.0 | 6.9 | 4.9 | 7.2 | 5.1 | 7.7 | 5.2 | 7.9 | 5.5 | 8.2 | 5.5 | 8.7 | 5.5 | 9.2 | 5.4 |
| | 100 | 37.5 | 6.8 | 4.8 | 7.0 | 5.0 | 7.5 | 5.1 | 7.8 | 5.4 | 8.1 | 5.4 | 8.6 | 5.4 | 9.1 | 5.4 |
| | 104 | 40.0 | 6.6 | 4.7 | 6.9 | 4.9 | 7.4 | 5.0 | 7.7 | 5.3 | 7.9 | 5.3 | 8.5 | 5.4 | 9.0 | 5.3 |
| 110 | 43.0 | 6.5 | 4.6 | 6.7 | 4.8 | 7.3 | 4.9 | 7.5 | 5.2 | 7.8 | 5.2 | 8.3 | 5.3 | 8.9 | 5.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PEFY-P-VML-E,VMH-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.6 | 6.1 | 8.8 | 6.3 | 9.4 | 6.3 | 9.6 | 6.7 | 9.9 | 6.7 | 10.4 | 6.7 | 11.0 | 6.6 |
| | 73 | 22.5 | 8.4 | 6.0 | 8.7 | 6.2 | 9.2 | 6.3 | 9.5 | 6.6 | 9.8 | 6.6 | 10.3 | 6.6 | 10.9 | 6.5 |
| | 77 | 25.0 | 8.3 | 6.0 | 8.6 | 6.2 | 9.1 | 6.2 | 9.4 | 6.6 | 9.7 | 6.5 | 10.2 | 6.5 | 10.8 | 6.4 |
| | 82 | 27.5 | 8.2 | 5.9 | 8.5 | 6.1 | 9.0 | 6.1 | 9.3 | 6.5 | 9.6 | 6.5 | 10.1 | 6.4 | 10.6 | 6.4 |
| | 86 | 30.0 | 8.1 | 5.8 | 8.4 | 6.0 | 8.9 | 6.0 | 9.2 | 6.4 | 9.5 | 6.4 | 10.0 | 6.4 | 10.5 | 6.3 |
| | 91 | 32.5 | 7.9 | 5.7 | 8.2 | 5.9 | 8.8 | 5.9 | 9.0 | 6.3 | 9.3 | 6.3 | 9.9 | 6.3 | 10.4 | 6.2 |
| | 95 | 35.0 | 7.8 | 5.6 | 8.1 | 5.8 | 8.6 | 5.8 | 8.9 | 6.2 | 9.2 | 6.2 | 9.8 | 6.2 | 10.3 | 6.2 |
| | 100 | 37.5 | 7.6 | 5.5 | 7.9 | 5.7 | 8.5 | 5.7 | 8.8 | 6.1 | 9.1 | 6.1 | 9.7 | 6.1 | 10.2 | 6.1 |
| | 110 | 43.0 | 7.3 | 5.2 | 7.6 | 5.4 | 8.2 | 5.5 | 8.5 | 5.9 | 8.8 | 5.9 | 9.4 | 6.0 | 10.0 | 5.9 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 8.4 | 11.0 | 8.6 | 11.6 | 8.7 | 12.0 | 9.2 | 12.3 | 9.2 | 13.0 | 9.2 | 13.7 | 9.1 |
| | 73 | 22.5 | 10.5 | 8.2 | 10.8 | 8.5 | 11.5 | 8.6 | 11.8 | 9.1 | 12.2 | 9.1 | 12.9 | 9.1 | 13.5 | 9.0 |
| | 77 | 25.0 | 10.4 | 8.1 | 10.7 | 8.4 | 11.4 | 8.5 | 11.7 | 9.0 | 12.0 | 9.0 | 12.7 | 9.0 | 13.4 | 8.9 |
| | 82 | 27.5 | 10.2 | 8.0 | 10.6 | 8.3 | 11.2 | 8.4 | 11.6 | 8.8 | 11.9 | 8.9 | 12.6 | 8.9 | 13.2 | 8.8 |
| | 86 | 30.0 | 10.1 | 7.9 | 10.4 | 8.2 | 11.1 | 8.3 | 11.4 | 8.7 | 11.8 | 8.8 | 12.4 | 8.8 | 13.1 | 8.7 |
| | 91 | 32.5 | 9.9 | 7.8 | 10.2 | 8.0 | 10.9 | 8.1 | 11.3 | 8.6 | 11.6 | 8.6 | 12.3 | 8.7 | 13.0 | 8.6 |
| | 95 | 35.0 | 9.7 | 7.6 | 10.0 | 7.9 | 10.7 | 8.0 | 11.1 | 8.5 | 11.4 | 8.5 | 12.2 | 8.6 | 12.9 | 8.6 |
| | 100 | 37.5 | 9.5 | 7.4 | 9.8 | 7.7 | 10.6 | 7.9 | 10.9 | 8.4 | 11.3 | 8.4 | 12.0 | 8.5 | 12.7 | 8.5 |
| | 110 | 43.0 | 9.0 | 7.1 | 9.4 | 7.4 | 10.2 | 7.6 | 10.5 | 8.1 | 10.9 | 8.1 | 11.6 | 8.2 | 12.4 | 8.2 |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.5 | 13.7 | 9.8 | 14.6 | 9.8 | 15.0 | 10.4 | 15.4 | 10.4 | 16.2 | 10.3 | 17.1 | 10.1 |
| | 73 | 22.5 | 13.1 | 9.4 | 13.5 | 9.7 | 14.4 | 9.7 | 14.8 | 10.3 | 15.2 | 10.3 | 16.1 | 10.2 | 16.9 | 10.0 |
| | 77 | 25.0 | 13.0 | 9.2 | 13.4 | 9.5 | 14.2 | 9.6 | 14.6 | 10.2 | 15.1 | 10.1 | 15.9 | 10.1 | 16.7 | 9.9 |
| | 82 | 27.5 | 12.8 | 9.1 | 13.2 | 9.4 | 14.0 | 9.5 | 14.5 | 10.0 | 14.9 | 10.0 | 15.7 | 10.0 | 16.6 | 9.8 |
| | 86 | 30.0 | 12.6 | 9.0 | 13.0 | 9.3 | 13.9 | 9.3 | 14.3 | 9.9 | 14.7 | 9.9 | 15.5 | 9.9 | 16.4 | 9.7 |
| | 91 | 32.5 | 12.3 | 8.8 | 12.8 | 9.1 | 13.6 | 9.2 | 14.1 | 9.8 | 14.5 | 9.8 | 15.4 | 9.7 | 16.2 | 9.6 |
| | 95 | 35.0 | 12.1 | 8.6 | 12.5 | 8.9 | 13.4 | 9.0 | 13.9 | 9.6 | 14.3 | 9.6 | 15.2 | 9.6 | 16.1 | 9.5 |
| | 100 | 37.5 | 11.8 | 8.4 | 12.3 | 8.8 | 13.2 | 8.9 | 13.7 | 9.5 | 14.1 | 9.5 | 15.0 | 9.5 | 15.9 | 9.5 |
| | 110 | 43.0 | 11.3 | 8.1 | 11.8 | 8.4 | 12.7 | 8.6 | 13.2 | 9.1 | 13.6 | 9.2 | 14.6 | 9.2 | 15.5 | 9.2 |
| 140 (16.0) | 68 | 20.0 | 14.7 | 10.5 | 15.2 | 10.8 | 16.1 | 10.9 | 16.6 | 11.5 | 17.1 | 11.5 | 18.0 | 11.4 | 18.9 | 11.2 |
| | 73 | 22.5 | 14.5 | 10.4 | 15.0 | 10.7 | 15.9 | 10.7 | 16.4 | 11.4 | 16.9 | 11.4 | 17.8 | 11.3 | 18.7 | 11.1 |
| | 77 | 25.0 | 14.3 | 10.2 | 14.8 | 10.6 | 15.7 | 10.6 | 16.2 | 11.2 | 16.7 | 11.2 | 17.6 | 11.2 | 18.5 | 11.0 |
| | 82 | 27.5 | 14.1 | 10.1 | 14.6 | 10.4 | 15.5 | 10.5 | 16.0 | 11.1 | 16.5 | 11.1 | 17.4 | 11.0 | 18.3 | 10.9 |
| | 86 | 30.0 | 14.0 | 10.0 | 14.4 | 10.3 | 15.3 | 10.3 | 15.8 | 11.0 | 16.3 | 11.0 | 17.2 | 10.9 | 18.1 | 10.8 |
| | 91 | 32.5 | 13.7 | 9.8 | 14.1 | 10.1 | 15.1 | 10.2 | 15.6 | 10.8 | 16.1 | 10.8 | 17.0 | 10.8 | 18.0 | 10.7 |
| | 95 | 35.0 | 13.4 | 9.6 | 13.9 | 9.9 | 14.9 | 10.0 | 15.3 | 10.6 | 15.8 | 10.7 | 16.8 | 10.7 | 17.8 | 10.6 |
| | 100 | 37.5 | 13.1 | 9.4 | 13.6 | 9.7 | 14.6 | 9.8 | 15.1 | 10.5 | 15.6 | 10.5 | 16.6 | 10.5 | 17.6 | 10.5 |
| | 110 | 43.0 | 12.8 | 9.1 | 13.3 | 9.5 | 14.4 | 9.7 | 14.9 | 10.3 | 15.4 | 10.4 | 16.4 | 10.4 | 17.5 | 10.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PEFY-P-VML-E,VMH-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 | |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 | |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |
| 50 (5.6) | -4 | -20.0 | 4.1 | 4.0 | 3.8 | 3.7 |
| | 5 | -15.0 | 4.4 | 4.2 | 4.1 | 4.0 |
| | 14 | -10.0 | 4.7 | 4.6 | 4.5 | 4.4 |
| | 23 | -5.0 | 5.4 | 5.2 | 5.0 | 4.9 |
| | 32 | 0.0 | 5.9 | 5.8 | 5.5 | 5.5 |
| | 37 | 2.5 | 6.2 | 6.0 | 5.9 | 5.8 |
| | 43 | 6.0 | 6.4 | 6.3 | 6.2 | 6.1 |
| | 46 | 7.5 | 6.8 | 6.7 | 6.2 | 6.1 |
| | 50 | 10.0 | 7.1 | 6.9 | 6.2 | 6.1 |
| | 55 | 12.5 | 7.4 | 7.2 | 6.2 | 6.1 |
| 60 | 15.5 | 7.6 | 7.2 | 6.2 | 6.1 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |
| 71 (8.0) | -4 | -20.0 | 5.9 | 5.7 | 5.4 | 5.3 |
| | 5 | -15.0 | 6.3 | 6.0 | 5.9 | 5.8 |
| | 14 | -10.0 | 6.8 | 6.6 | 6.4 | 6.3 |
| | 23 | -5.0 | 7.7 | 7.5 | 7.1 | 7.0 |
| | 32 | 0.0 | 8.5 | 8.3 | 7.9 | 7.8 |
| | 37 | 2.5 | 8.9 | 8.6 | 8.4 | 8.3 |
| | 43 | 6.0 | 9.2 | 9.0 | 8.9 | 8.7 |
| | 46 | 7.5 | 9.7 | 9.5 | 8.9 | 8.7 |
| | 50 | 10.0 | 10.2 | 9.9 | 8.9 | 8.7 |
| | 55 | 12.5 | 10.6 | 10.4 | 8.9 | 8.7 |
| 60 | 15.5 | 10.9 | 10.4 | 8.9 | 8.7 | |

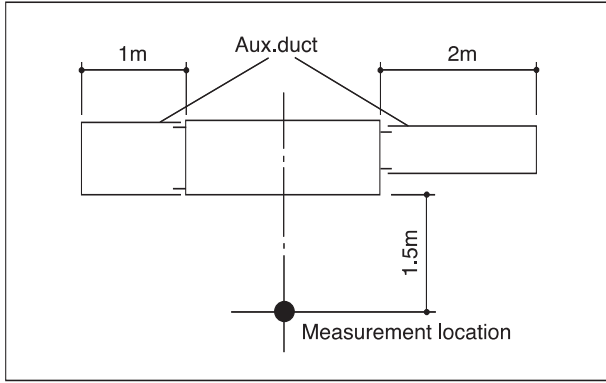
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 6.5 | 6.3 | 6.0 | 5.9 |
| | 5 | -15.0 | 7.0 | 6.7 | 6.5 | 6.4 |
| | 14 | -10.0 | 7.5 | 7.3 | 7.1 | 7.0 |
| | 23 | -5.0 | 8.5 | 8.3 | 7.9 | 7.8 |
| | 32 | 0.0 | 9.4 | 9.2 | 8.8 | 8.7 |
| | 37 | 2.5 | 9.9 | 9.6 | 9.3 | 9.2 |
| | 43 | 6.0 | 10.2 | 10.0 | 9.9 | 9.7 |
| | 46 | 7.5 | 10.8 | 10.6 | 9.9 | 9.7 |
| | 50 | 10.0 | 11.3 | 11.0 | 9.9 | 9.7 |
| | 55 | 12.5 | 11.8 | 11.5 | 9.9 | 9.7 |
| 60 | 15.5 | 12.1 | 11.5 | 9.9 | 9.7 | |
| 100 (11.2) | -4 | -20.0 | 8.1 | 7.9 | 7.5 | 7.4 |
| | 5 | -15.0 | 8.8 | 8.4 | 8.1 | 8.0 |
| | 14 | -10.0 | 9.4 | 9.1 | 8.9 | 8.8 |
| | 23 | -5.0 | 10.6 | 10.4 | 9.9 | 9.8 |
| | 32 | 0.0 | 11.8 | 11.5 | 11.0 | 10.9 |
| | 37 | 2.5 | 12.4 | 12.0 | 11.6 | 11.5 |
| | 43 | 6.0 | 12.8 | 12.5 | 12.4 | 12.1 |
| | 46 | 7.5 | 13.5 | 13.3 | 12.4 | 12.1 |
| | 50 | 10.0 | 14.1 | 13.8 | 12.4 | 12.1 |
| | 55 | 12.5 | 14.8 | 14.4 | 12.4 | 12.1 |
| 60 | 15.5 | 15.1 | 14.4 | 12.4 | 12.1 | |
| 125 (14.0) | -4 | -20.0 | 10.4 | 10.1 | 9.6 | 9.4 |
| | 5 | -15.0 | 11.2 | 10.7 | 10.4 | 10.2 |
| | 14 | -10.0 | 12.0 | 11.7 | 11.4 | 11.2 |
| | 23 | -5.0 | 13.6 | 13.3 | 12.6 | 12.5 |
| | 32 | 0.0 | 15.0 | 14.7 | 14.1 | 13.9 |
| | 37 | 2.5 | 15.8 | 15.4 | 14.9 | 14.7 |
| | 43 | 6.0 | 16.3 | 16.0 | 15.8 | 15.5 |
| | 46 | 7.5 | 17.3 | 17.0 | 15.8 | 15.5 |
| | 50 | 10.0 | 18.1 | 17.6 | 15.8 | 15.5 |
| | 55 | 12.5 | 18.9 | 18.4 | 15.8 | 15.5 |
| 60 | 15.5 | 19.4 | 18.4 | 15.8 | 15.5 | |
| 140 (16.0) | -4 | -20.0 | 11.7 | 11.3 | 10.8 | 10.6 |
| | 5 | -15.0 | 12.6 | 12.1 | 11.7 | 11.5 |
| | 14 | -10.0 | 13.5 | 13.1 | 12.8 | 12.6 |
| | 23 | -5.0 | 15.3 | 14.9 | 14.2 | 14.0 |
| | 32 | 0.0 | 16.9 | 16.6 | 15.8 | 15.7 |
| | 37 | 2.5 | 17.8 | 17.3 | 16.7 | 16.6 |
| | 43 | 6.0 | 18.4 | 18.0 | 17.8 | 17.5 |
| | 46 | 7.5 | 19.4 | 19.1 | 17.8 | 17.5 |
| | 50 | 10.0 | 20.3 | 19.8 | 17.8 | 17.5 |
| | 55 | 12.5 | 21.2 | 20.7 | 17.8 | 17.5 |
| 60 | 15.5 | 21.8 | 20.7 | 17.8 | 17.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

3. SOUND LEVELS

3-1. Sound levels

PEFY-P-VML-E,VMH-E



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

| | Sound level dB (A) |
|---------------|--------------------|
| PEFY-P20VML-E | 25-29-36 |
| PEFY-P25VML-E | 25-29-36 |
| PEFY-P32VML-E | 25-29-40 |

Sound level at anechoic room : Low-Mid-High

| | | Sound level dB (A) | | |
|--------------------|-----------|--------------------|-------|-------|
| | | Low | Mid | High |
| PEFY-P40VMH-E | 220V | 25-30 | 27-34 | 30-40 |
| PEFY-P50VMH-E | 230, 240V | 30-34 | 31-37 | 31-41 |
| PEFY-P63VMH-E | 220V | 31-36 | 32-38 | 36-43 |
| | 230, 240V | 35-39 | 36-41 | 38-44 |
| PEFY-P71VMH-E | 220V | 30-36 | 32-39 | 35-43 |
| | 230, 240V | 34-39 | 35-41 | 37-44 |
| PEFY-P80VMH-E | 220V | 32-39 | 35-41 | 37-43 |
| | 230, 240V | 37-41 | 38-43 | 39-45 |
| PEFY-P100,125VMH-E | 220V | 32-40 | 34-42 | 36-46 |
| | 230, 240V | 36-42 | 38-44 | 38-47 |
| PEFY-P140VMH-E | 380V | 42 | - | 45 |
| PEFY-P200VMH-E | 400, 415V | 44 | - | 47 |
| | 380V | 50 | - | 52 |
| PEFY-P250VMH-E | 400, 415V | 52 | - | 54 |

* External static pressure of PEFY-P40-140VMH-E

Low : 50Pa at 220V, 100Pa at 230, 240V
 Mid : 100Pa at 220V, 150Pa at 230, 240V
 High : 200Pa at 220V, 200Pa at 230, 240V

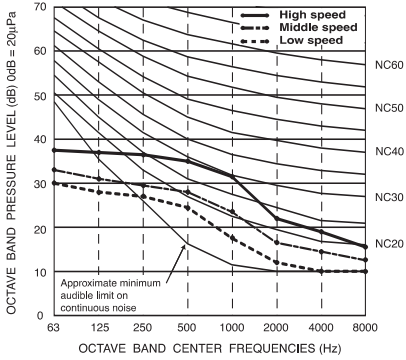
* External static pressure of PEFY-P200-250VMH-E

Low : 110Pa at 380V, 130Pa at 400,415V
 High : 220Pa at 380V, 260Pa at 400,415V

3-2. NC curves

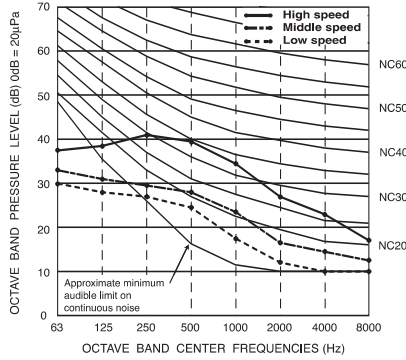
PEFY-P20,25VML-E

External static pressure : 5Pa
 Power source : 220,230,240V, 50/60Hz



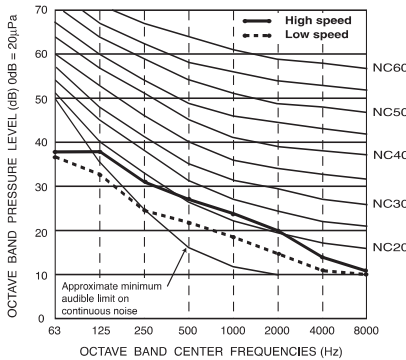
PEFY-P32VML-E

External static pressure : 5Pa
 Power source : 220,230,240V, 50/60Hz



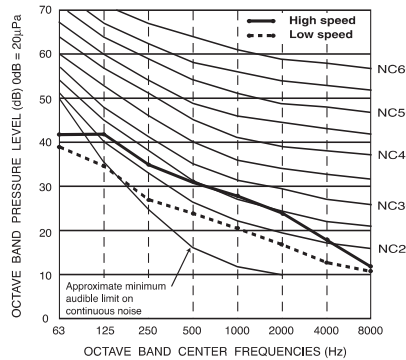
PEFY-P40,50VMH-E

External static pressure : 50Pa
 Power source : 220V, 50/60Hz



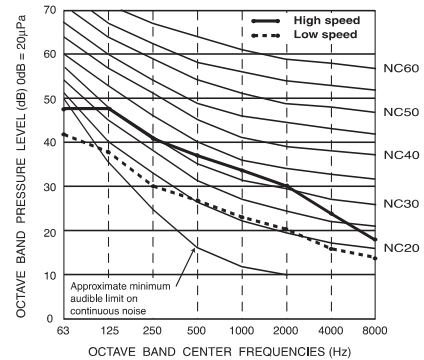
PEFY-P40,50VMH-E

External static pressure : 100Pa
 Power source : 220V, 50/60Hz

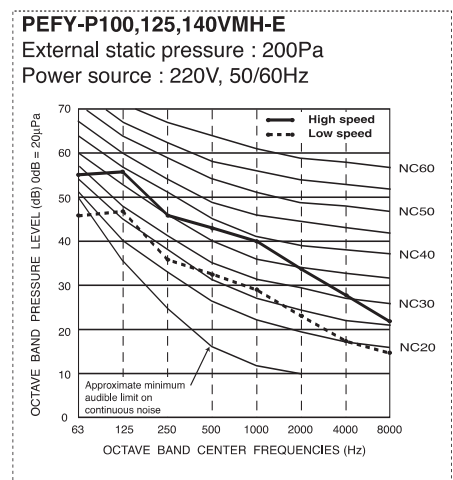
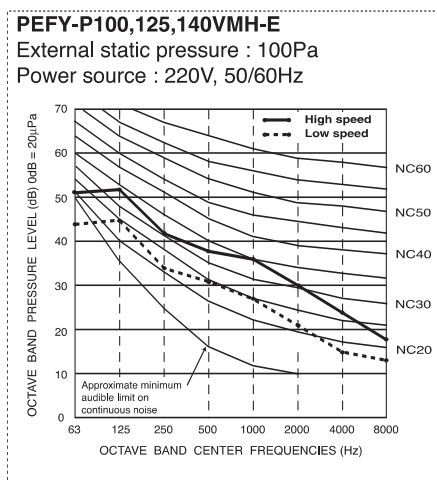
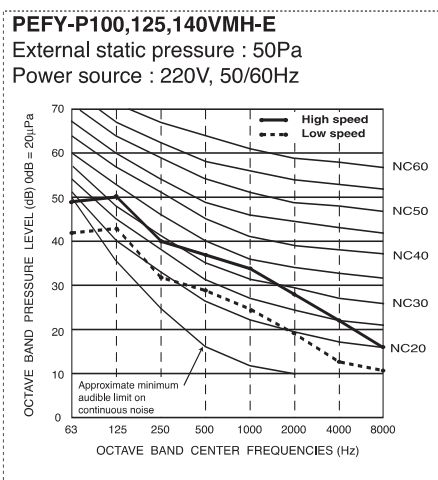
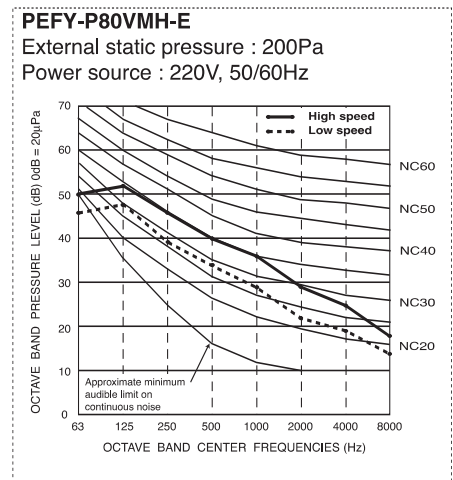
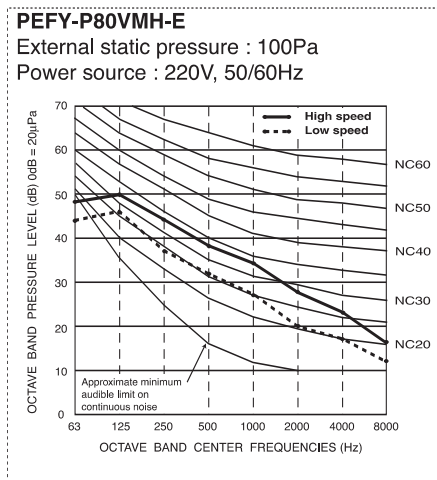
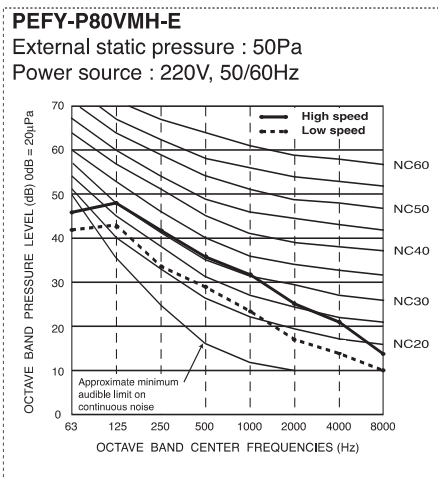
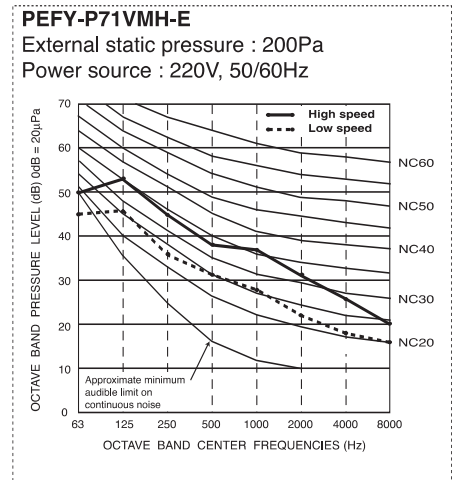
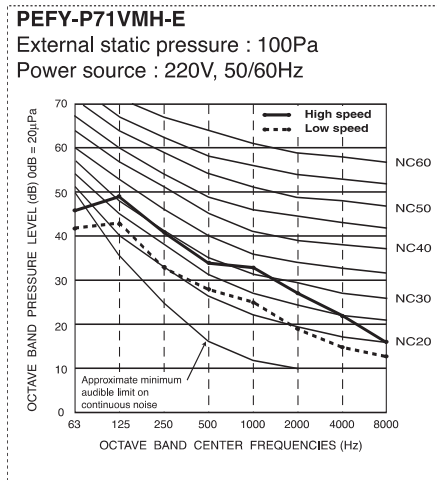
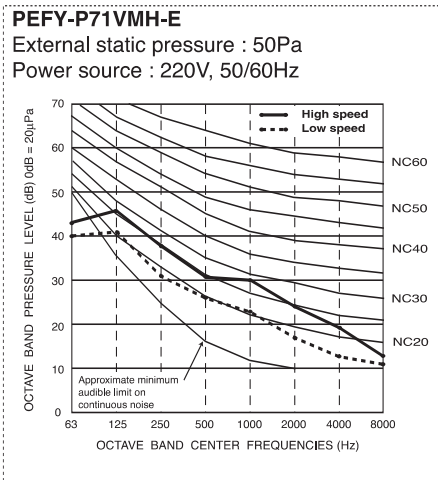
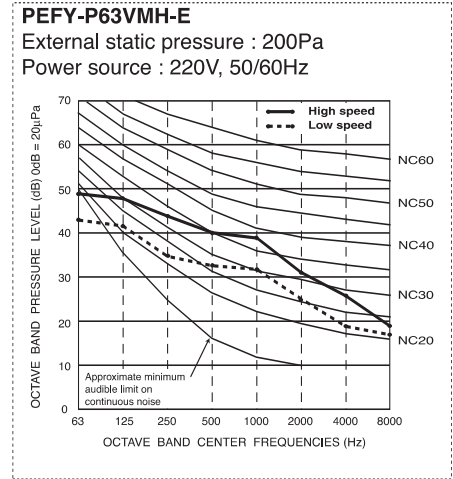
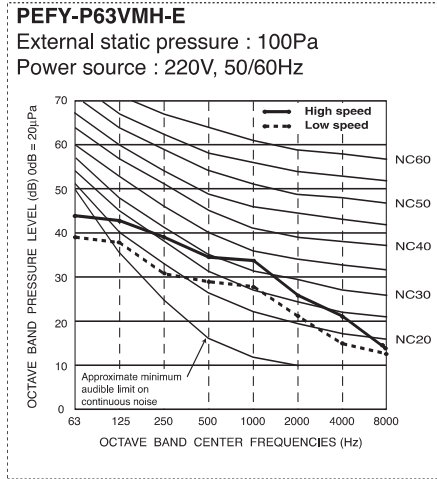
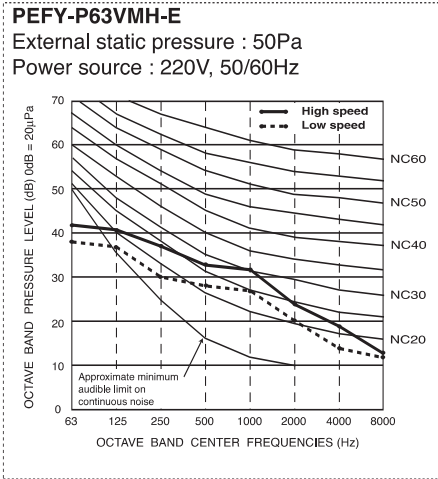


PEFY-P40,50VMH-E

External static pressure : 200Pa
 Power source : 220V, 50/60Hz



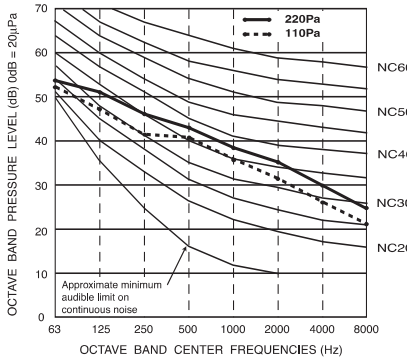
3-2. NC curves



3-2. NC curves

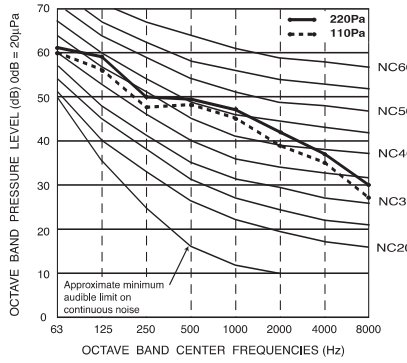
PEFY-P200VMH-E

External static pressure : 110,220Pa
Power source : 380V, 50/60Hz



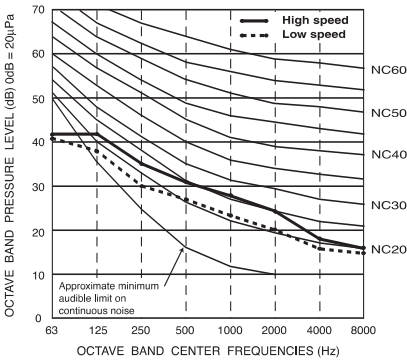
PEFY-P250VMH-E

External static pressure : 110,220Pa
Power source : 380V, 50/60Hz



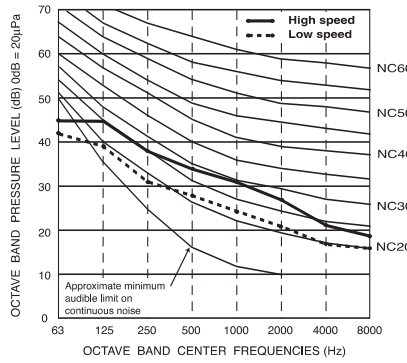
PEFY-P40,50VMH-E

External static pressure : 100Pa
Power source : 230,240V, 50/60Hz



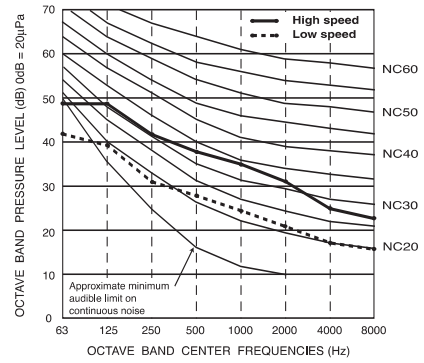
PEFY-P40,50VMH-E

External static pressure : 150Pa
Power source : 230,240V, 50/60Hz



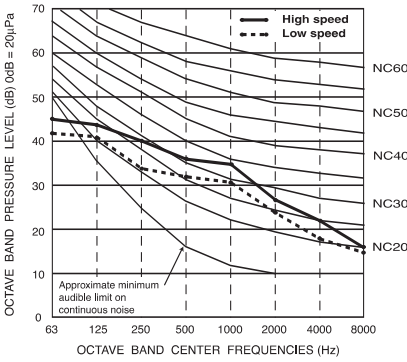
PEFY-P40,50VMH-E

External static pressure : 200Pa
Power source : 230,240V, 50/60Hz



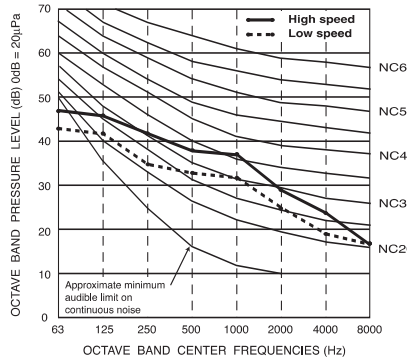
PEFY-P63VMH-E

External static pressure : 100Pa
Power source : 230,240V, 50/60Hz



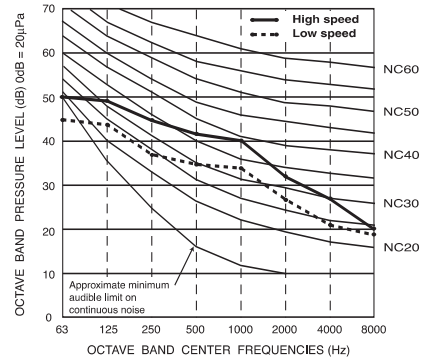
PEFY-P63VMH-E

External static pressure : 150Pa
Power source : 230,240V, 50/60Hz



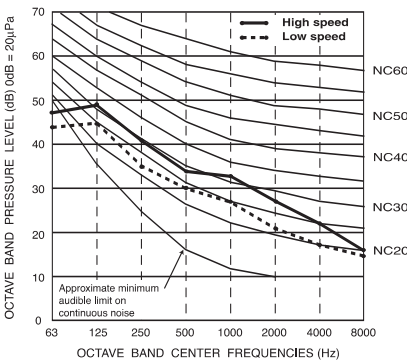
PEFY-P63VMH-E

External static pressure : 200Pa
Power source : 230,240V, 50/60Hz



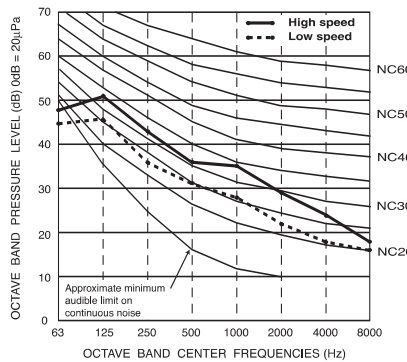
PEFY-P71VMH-E

External static pressure : 100Pa
Power source : 230,240V, 50/60Hz



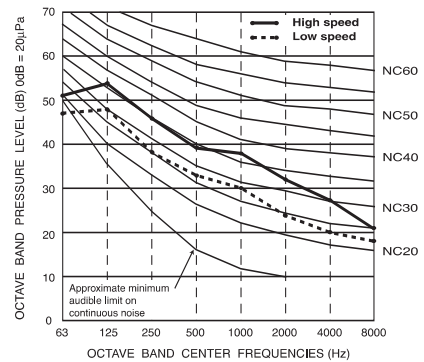
PEFY-P71VMH-E

External static pressure : 150Pa
Power source : 230,240V, 50/60Hz

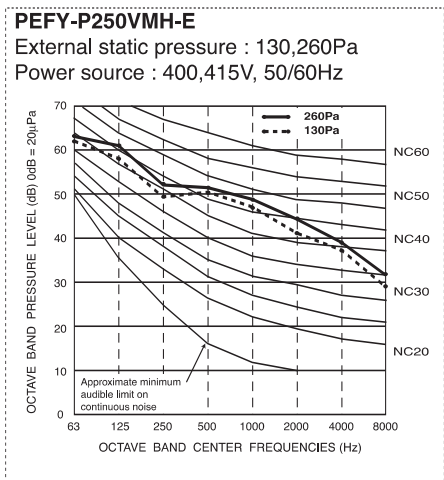
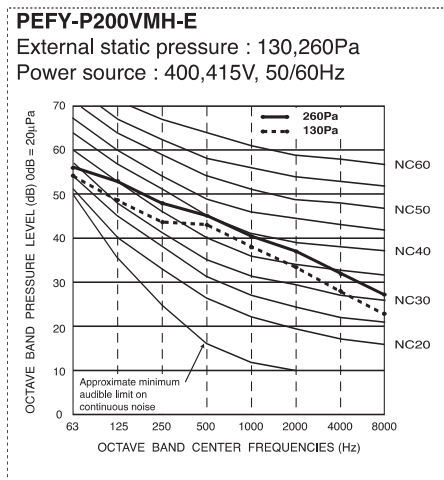
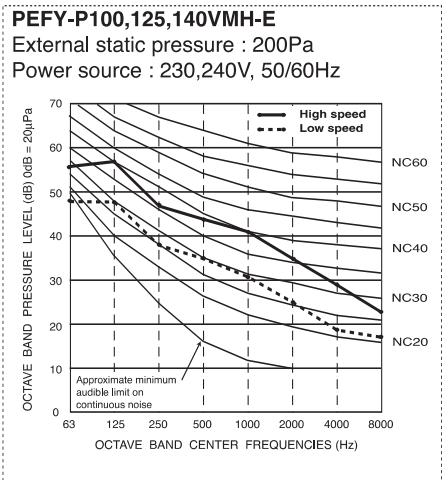
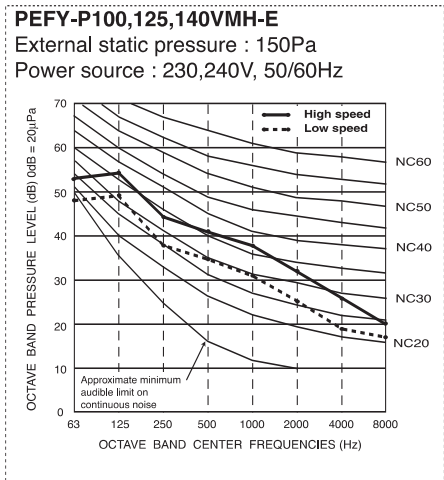
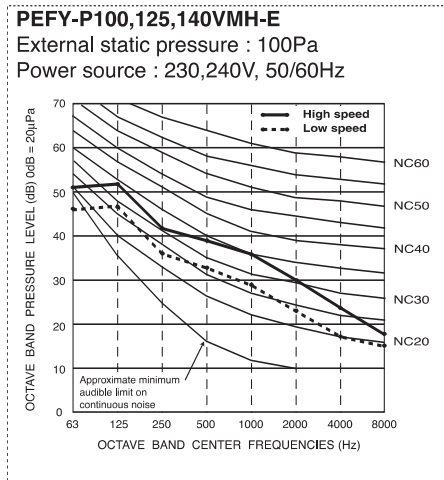
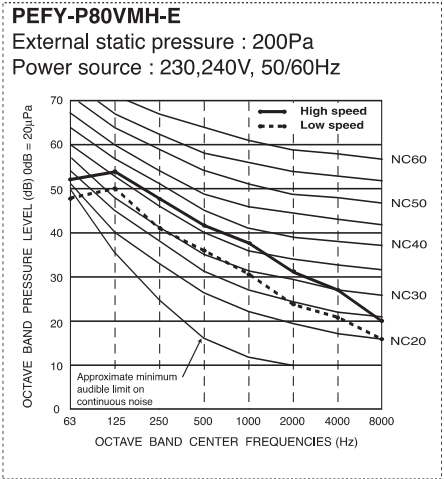
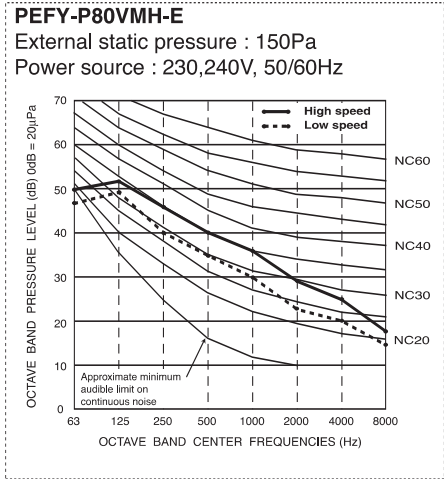
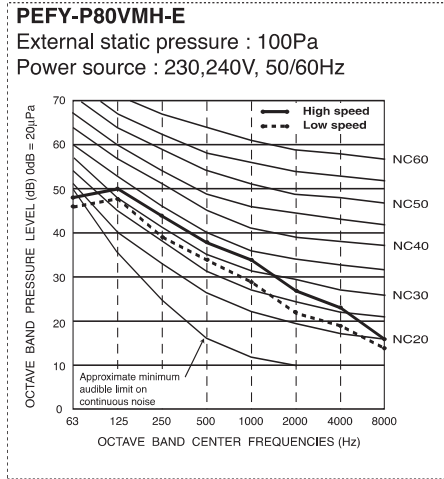


PEFY-P71VMH-E

External static pressure : 200Pa
Power source : 230,240V, 50/60Hz

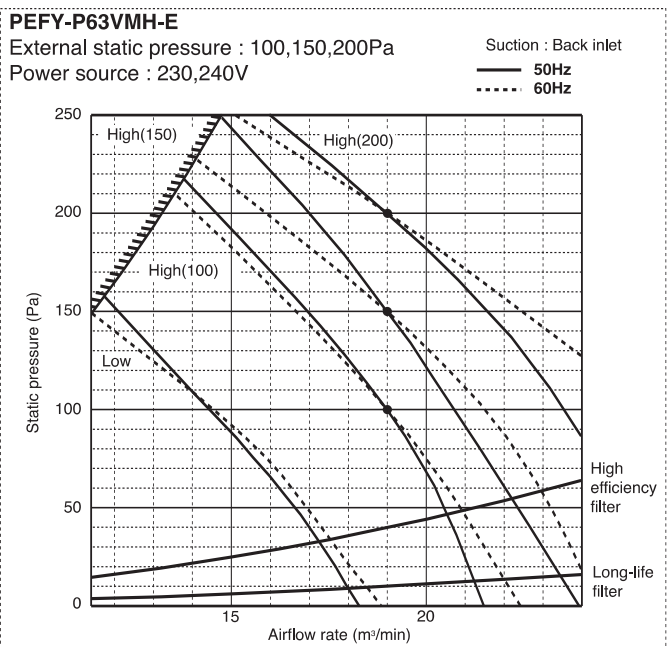
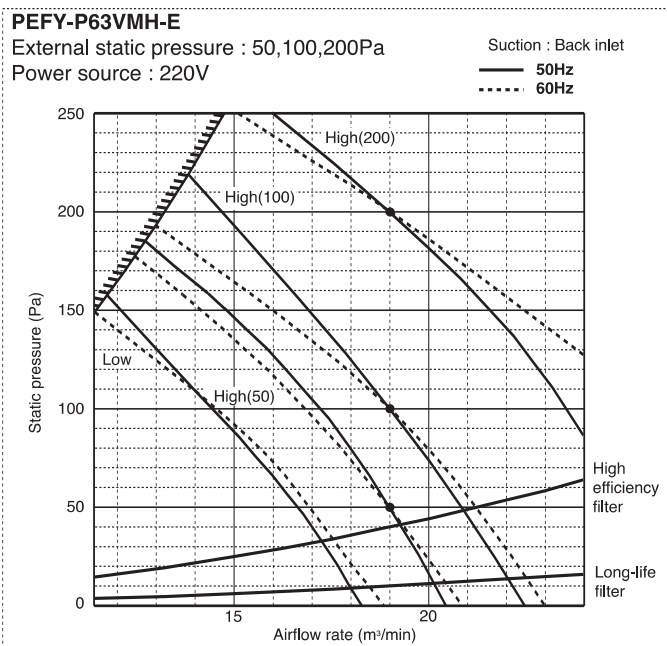
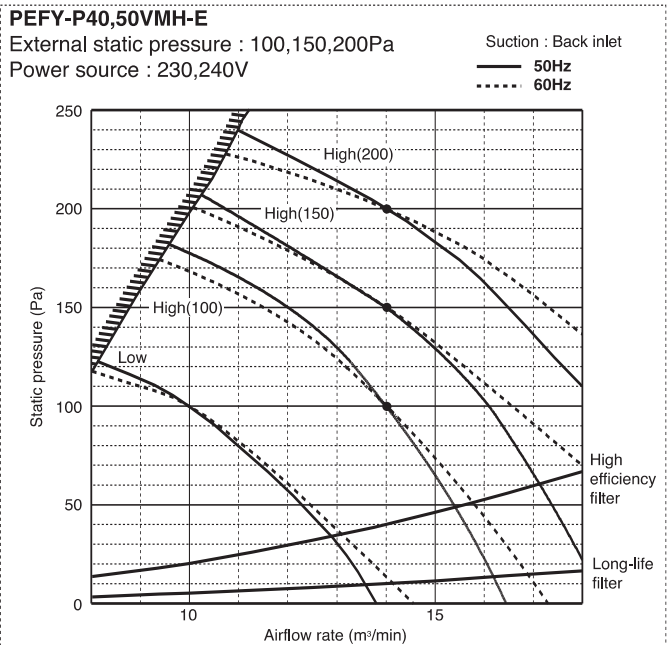
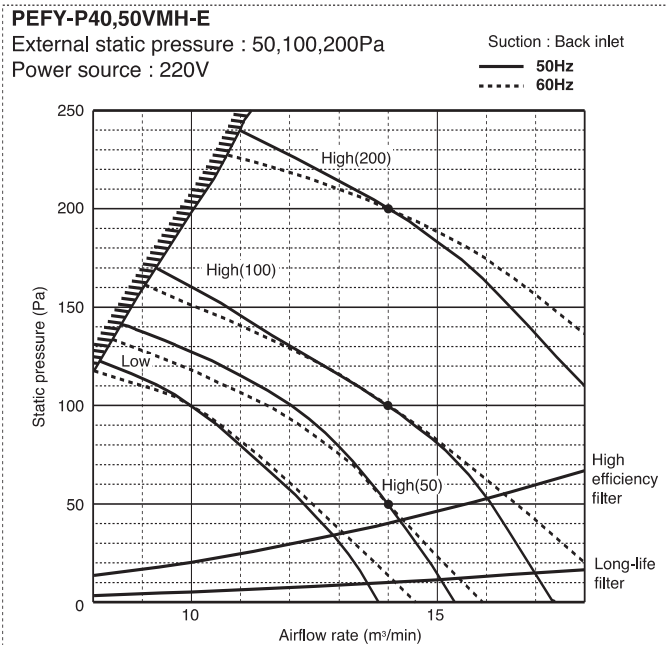
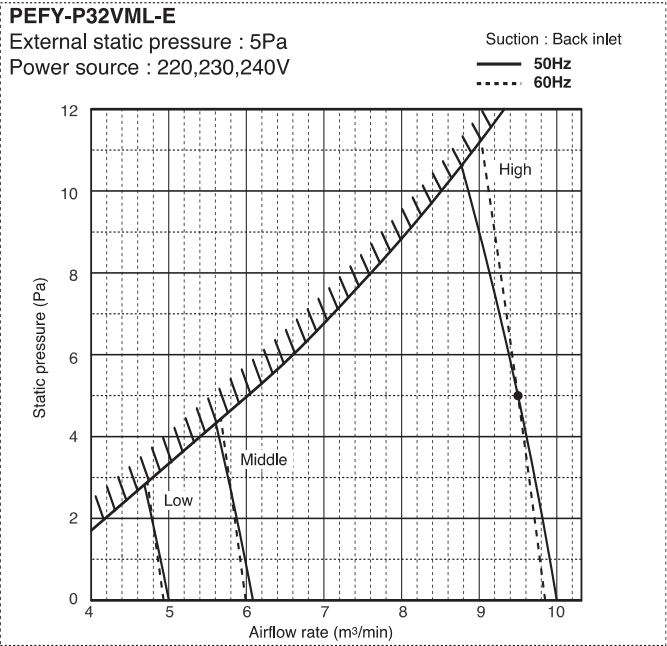
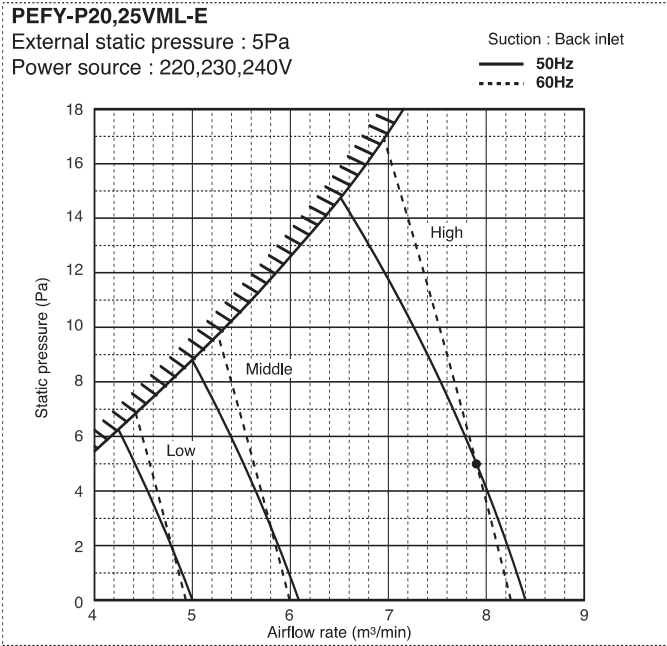


3-2. NC curves

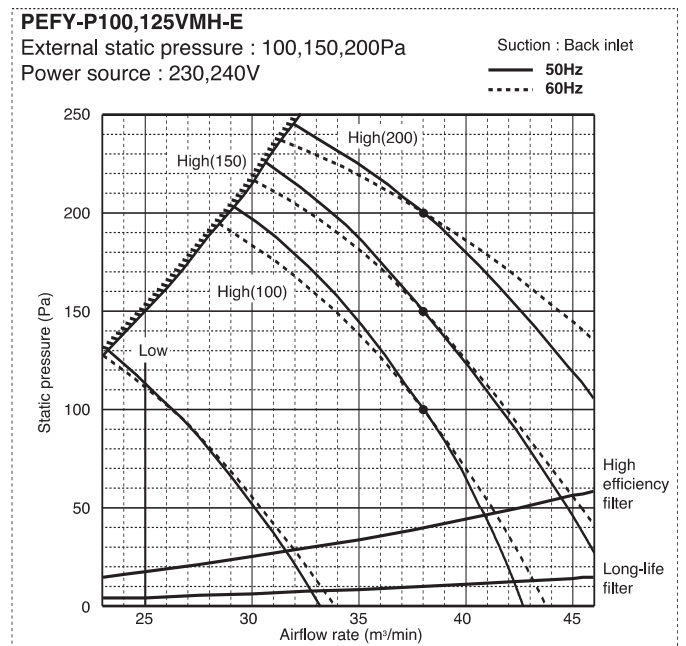
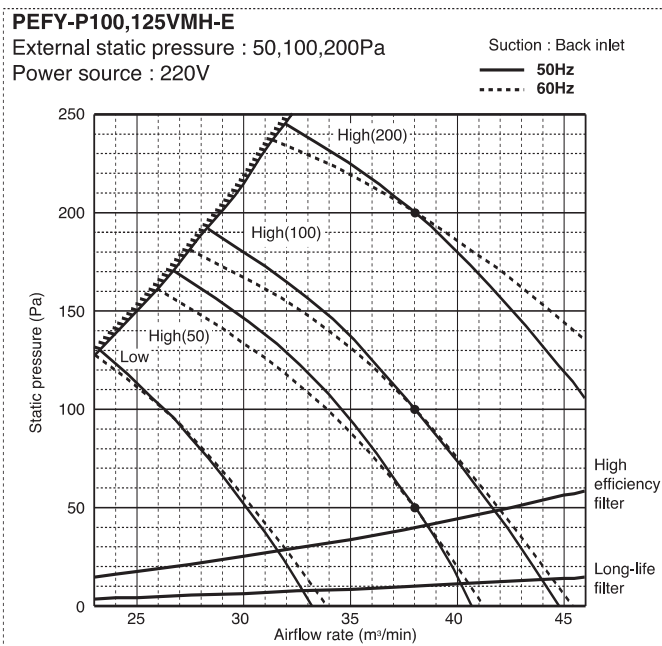
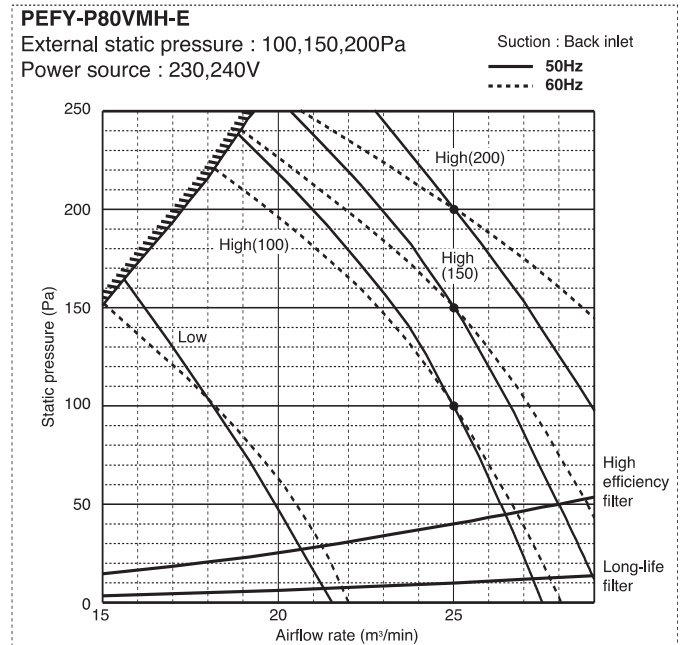
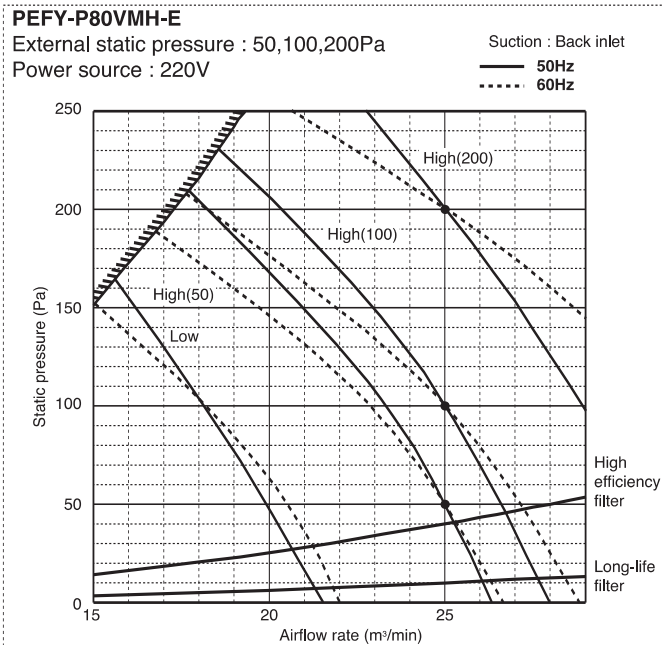
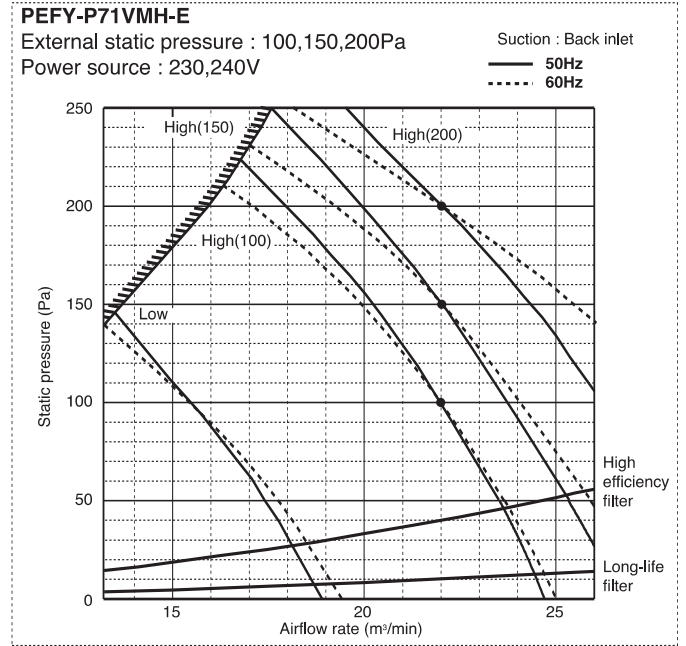
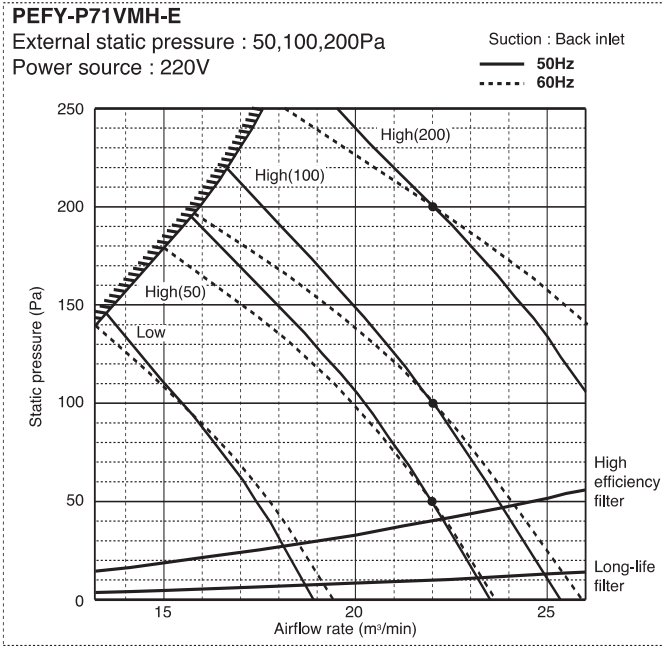


3. SOUND LEVELS

3-3. Fan characteristics curves

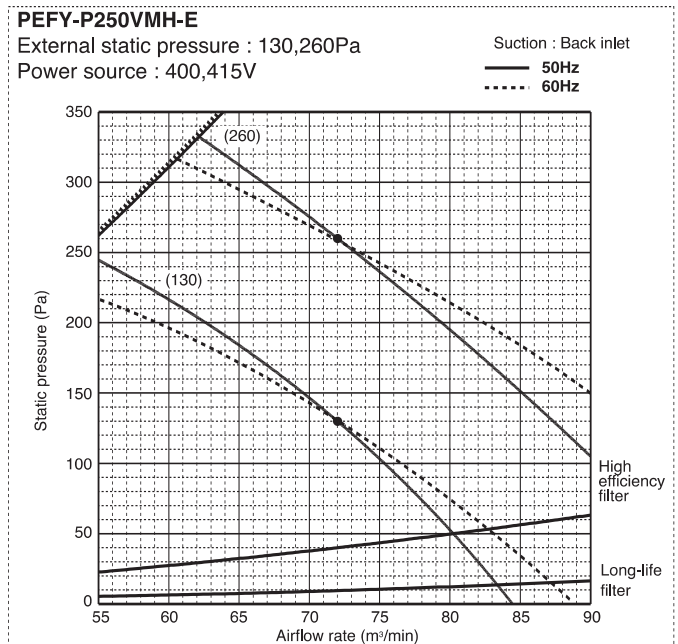
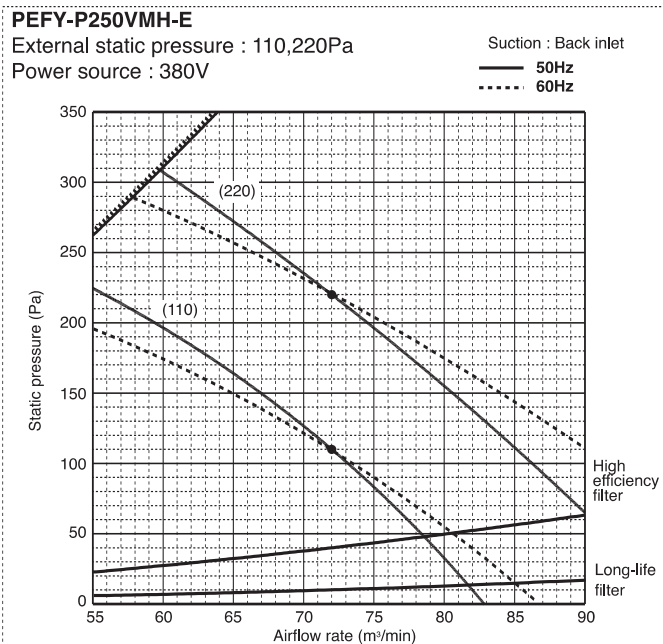
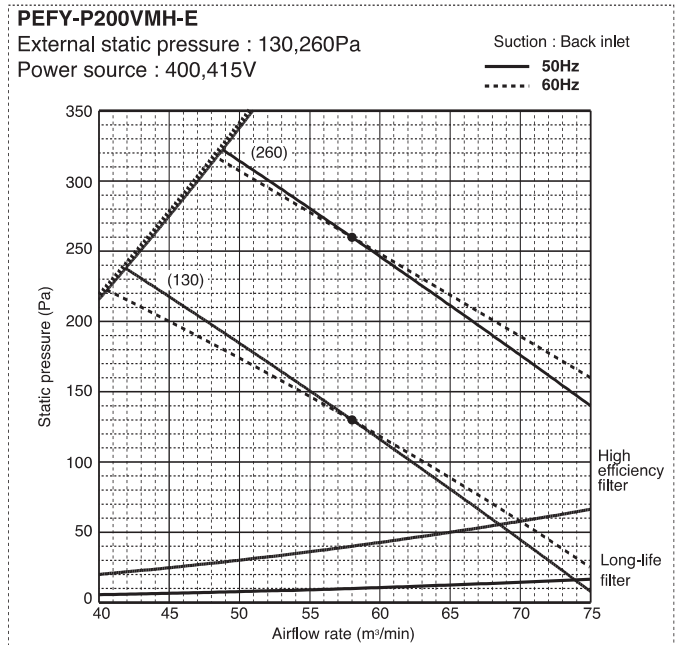
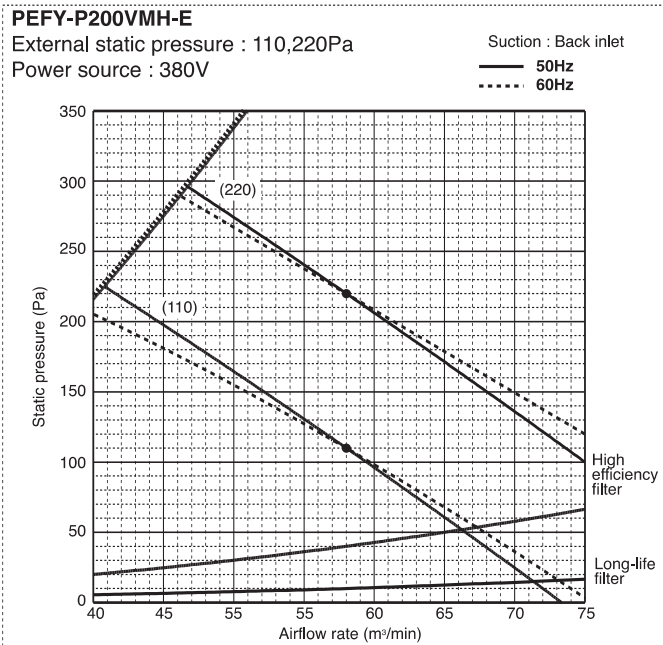
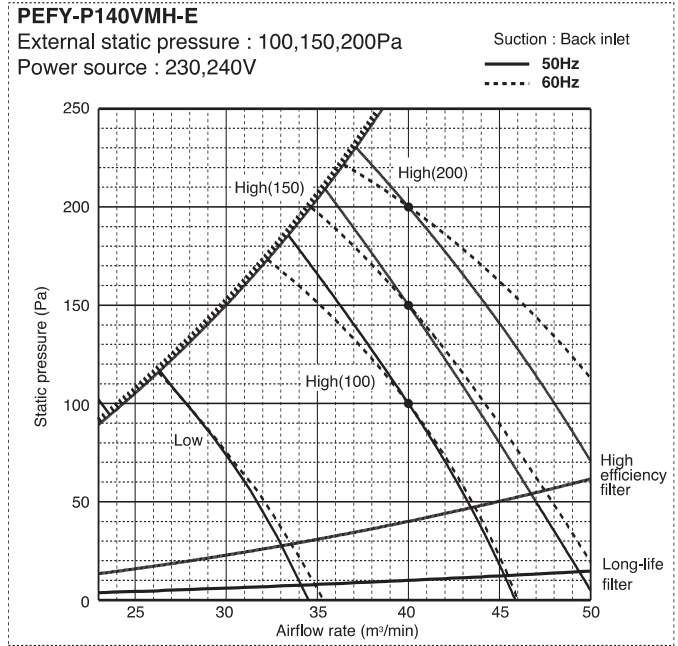
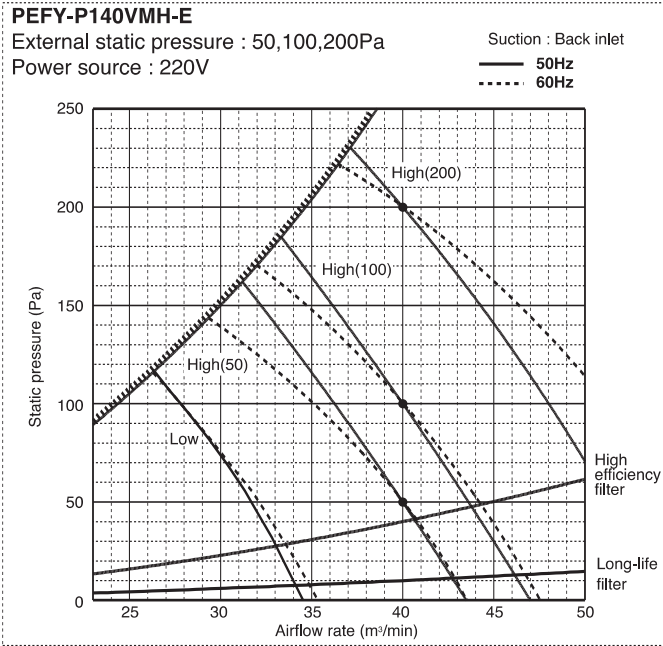


3-3. Fan characteristics curves



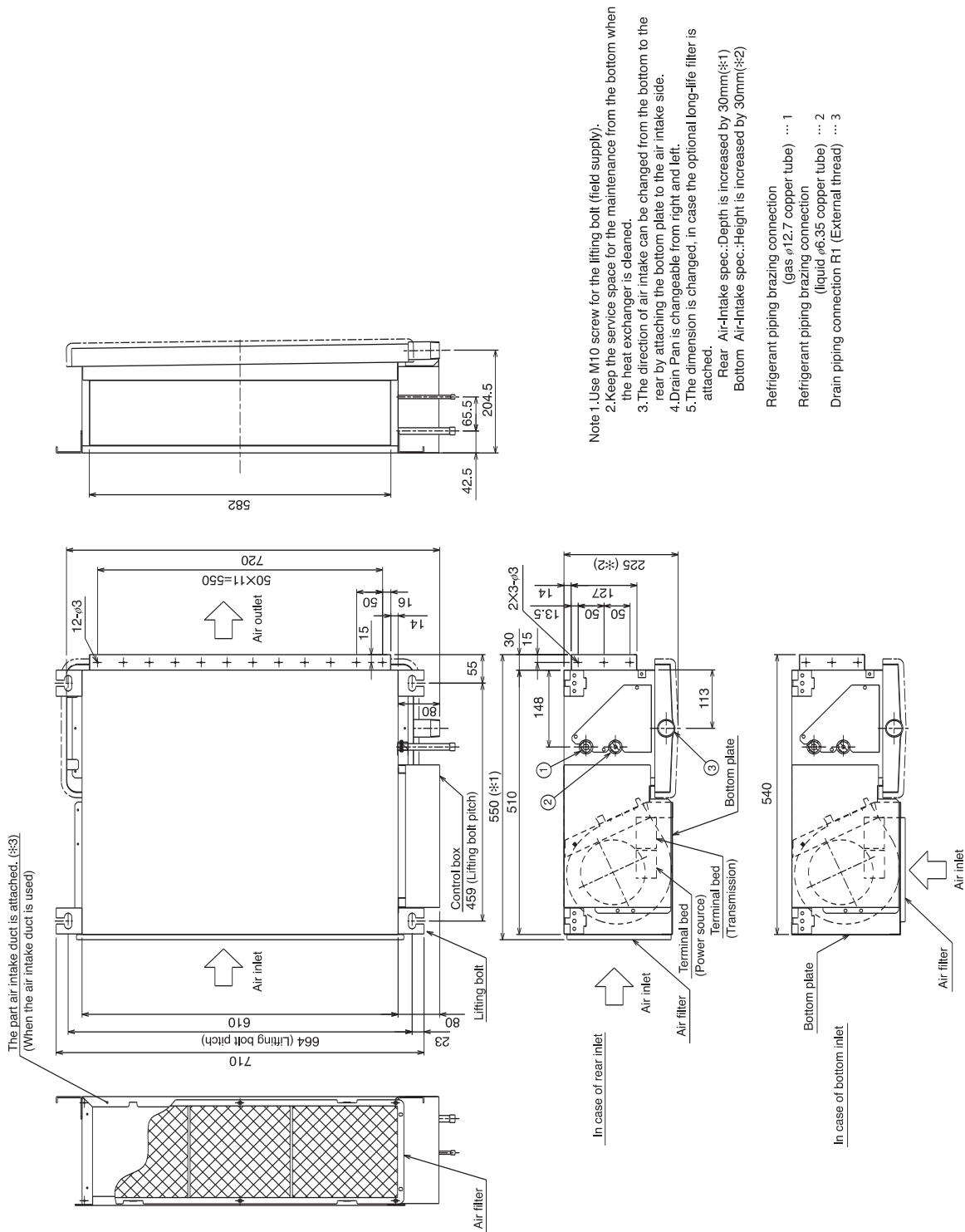
A
B
C
D
E
F
G
H
I
J
V₄
V₅
BC

3-3. Fan characteristics curves



PEFY-P20,25,32VML-E

Draw. : IU-W65-3947
Unit : mm



A
B
C
D
E
F
G
H
I
J
V_A
V_B
BC

PEFY-P200, 250VMH-E

Draw. : IU-W27-5925

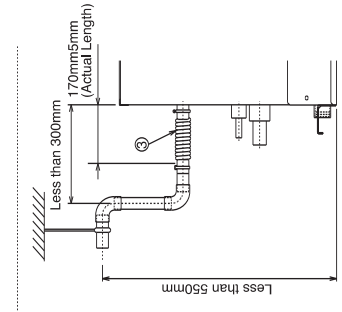
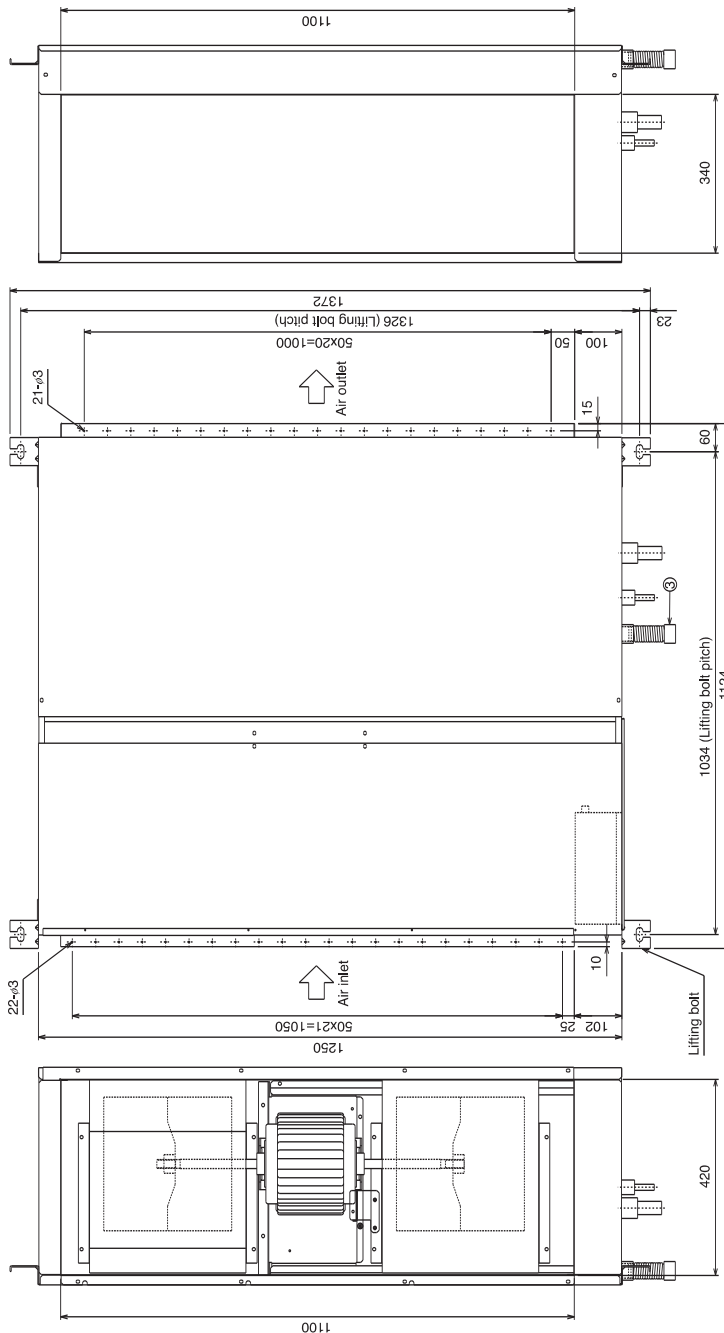
Unit : mm

- Note : 1. Use M10 screw for the lifting bolt (field supply).
 2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
 3. Make sure to install the air filter(field supply)on the air intake side. In case field supplied air filter is used, attach it where the filter service is easily done.
 4. On this model, you would use pipe packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.

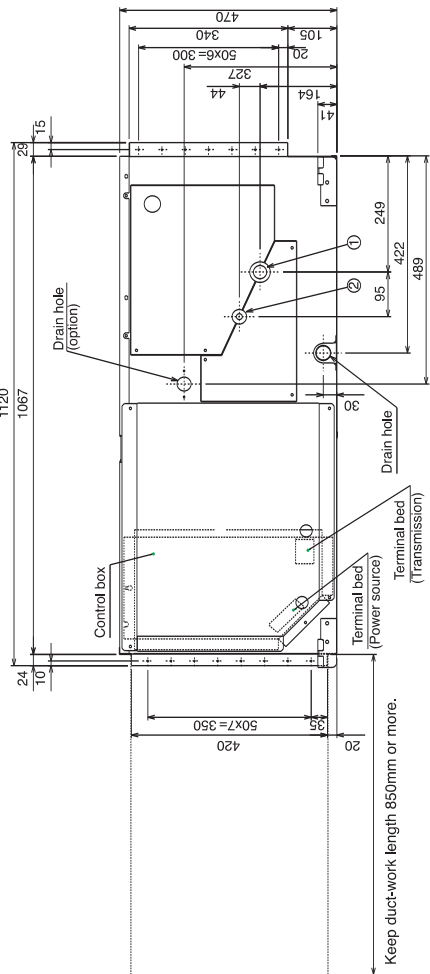
| Model | A | B |
|-----------|-------------------------------------|------------------------------------|
| P200VMH-E | *1: $\phi 19.05$ *2: $\phi 25.4$ | *1: $\phi 9.52$ *2: $\phi 12.7$ |
| P250VMH-E | *1: $\phi 22.2$ *2: $\phi 28.58$ | *1: $\phi 9.52$ *2: $\phi 12.7$ |

*1: R410A outdoor unit
 *2: R407C, R22 outdoor unit

- Refrigerant piping brazing connection
 (gas A copper tube)①
 Refrigerant piping brazing connection
 (liquid B copper tube)②
 Drain hose 32mm(1-1/4inch)
 <flexible joint 200mm>(accessory)③



When installing the drain water lifting-up mech(option).



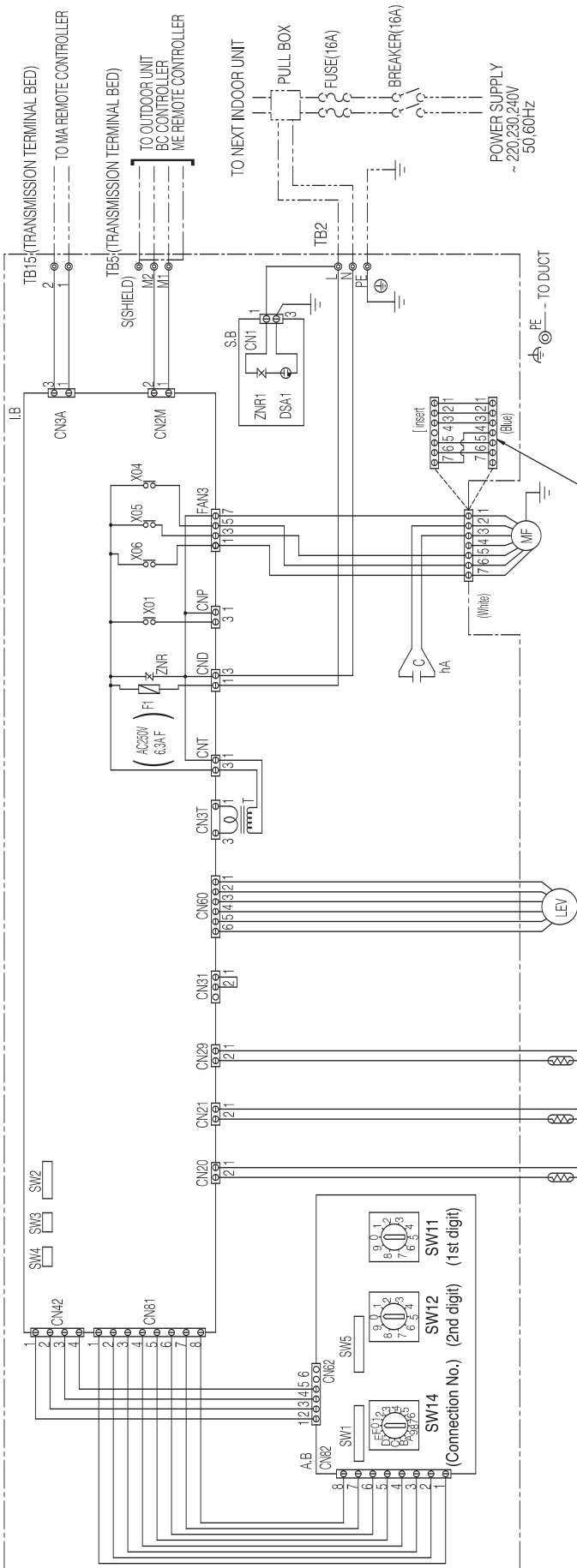
Keep duct-work length 850mm or more.

A
B
C
D
E
F
G
H
I
J
V₄
V₆
BC

PEFY-P20,25,32VML-E

Drw. : IU-W65-3955

INSIDE SECTION OF CONTROL BOX



The motor connector is connected with 230V, 240V power at factory shipment. If 220 power is used, insert the attachment. Color/Power source White/230V, 240V Blue/220V

NOTE : 1. The wirings to TB2, TB5 shown in dotted line are field work.
2. Mark ⊕ indicates terminal bed, ⊖ connector, ⊕ board insertion connector or fastening connector of control board.

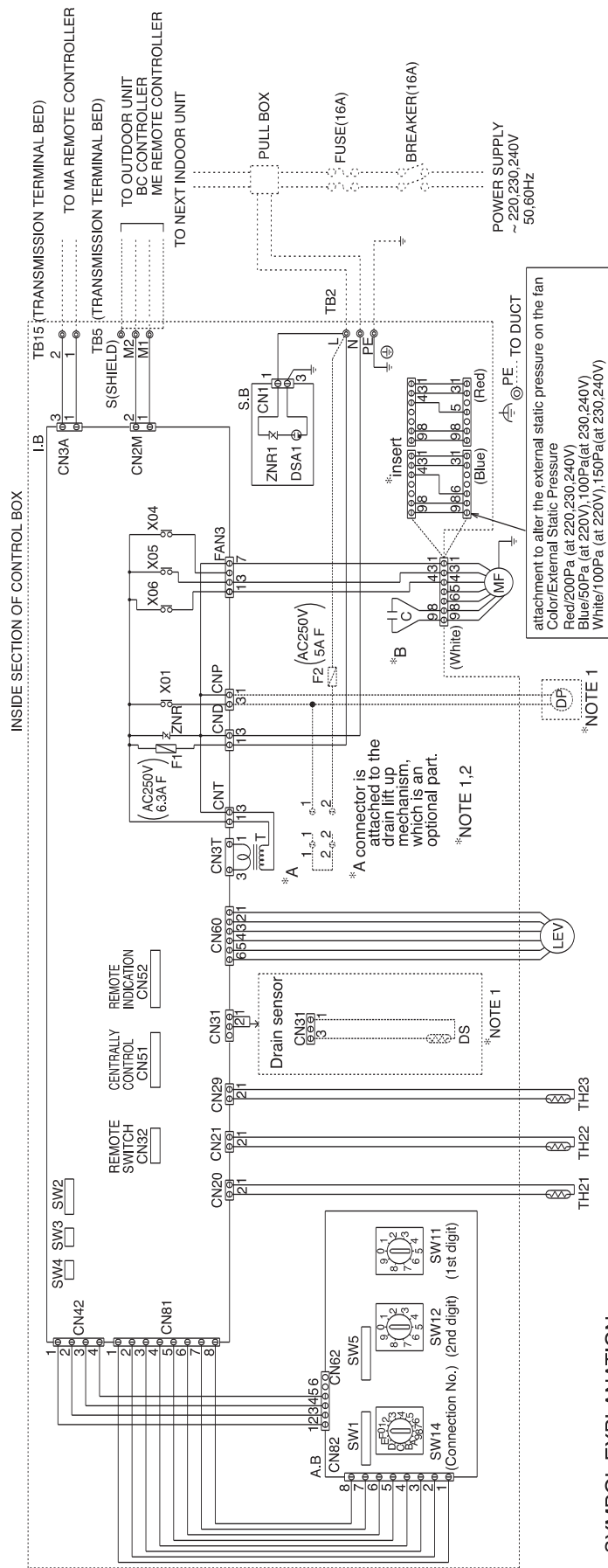
hA Capacitor
MODELS 20/25 1.5F
MODEL 32 2.0F

SYMBOL EXPLANATION

| SYMBOL | NAME | SYMBOL | NAME |
|---------|---------------------------------|-----------|--|
| MF | Fan motor | TH21 | Thermistor (inlet temp. detection) |
| C | hA Capacitor (for MF) | TH22 | Thermistor (piping temp. detection/liquid) |
| I.B | Indoor controller board | TH23 | Thermistor (piping temp. detection/gas) |
| A.B | Address board | SW11(A,B) | Switch (1st digit address set) |
| TB2 | Power source terminal bed | SW12(A,B) | Switch (2nd digit address set) |
| TB5 | Transmission terminal bed | SW14(A,B) | Switch (connection No. set) |
| TB15 | Transmission terminal bed | SW1(A,B) | Switch (for mode selection) |
| F1 | Fuse AC250V 6.3A F | SW2(LB) | Switch (for capacity code) |
| T | Transformer | SW3(LB) | Switch (for mode selection) |
| LEV | Electronic linear expans. valve | SW4(LB) | Switch (for model selection) |
| S.B | Surge absorber board | SW5(A,B) | Switch (for voltage selection) |
| X04-X06 | Aux. relay | | |

PEFY-P40,50,63,71,80,100,125,140VMH-E

Draw. : IU-W65-3956



SYMBOL EXPLANATION

| SYMBOL | NAME | SYMBOL | NAME |
|--------|---------------------------------|-----------|---|
| MF | Fan motor | S.B | Surge absorber board |
| C | *B Capacitor (for MF) | TH21 | Thermistor (inlet temp.detection) |
| I.B | Indoor controller board | TH22 | Thermistor (piping temp.detection/liquid) |
| A.B | Address board | TH23 | Thermistor (piping temp.detection/gas) |
| TB2 | Power source terminal bed | SW1(A,B) | Switch (1st digit address set) |
| TB5 | Transmission terminal bed | SW12(A,B) | Switch (2nd digit address set) |
| TB15 | Transmission terminal bed | SW14(A,B) | Switch (connection No.set) |
| F1 | Fuse AC250V 6.3A F | SW1(A,B) | Switch (for mode selection) |
| <F2> | Fuse AC250V 5A F | SW2(LB) | Switch (for capacity code) |
| T | Transformer | SW3(LB) | Switch (for mode selection) |
| <DP> | Drain Pump | SW4(LB) | Switch (for model selection) |
| LEV | Electronic linear expans. valve | SW5(A,B) | Switch (for voltage selection) |
| <DS> | Drain sensor | X04-X06 | Aux.relay |

inside < > is the optional parts

- NOTE : 1. The part of the broken line indicates the circuit for optional parts.
 2.*A in the chart is the connector for a drain pump test run operation.
 (The Drain Pump operates continuously if the connector is inserted and the power is supplied.)
 After the test run, make sure to remove the *A connector.
 3.The wirings to TB2, TB5 (shown in dotted line) are field work.
 4.Mark ⊕ indicates terminal bed, ⊕ connector, ⊕ board insertion connector or fastening connector of control board.

- *B Capacitor
 MODELS 40/50
 MODEL 63
 MODELS 71/80
 MODELS 100/125/140 7.0F

attachment to alter the external static pressure on the fan
 Color/External Static Pressure
 Red/200Pa (at 220,230,240V)
 Blue/50Pa (at 220V), 100Pa(at 230,240V)
 White/100Pa (at 220V), 150Pa(at 230,240V)

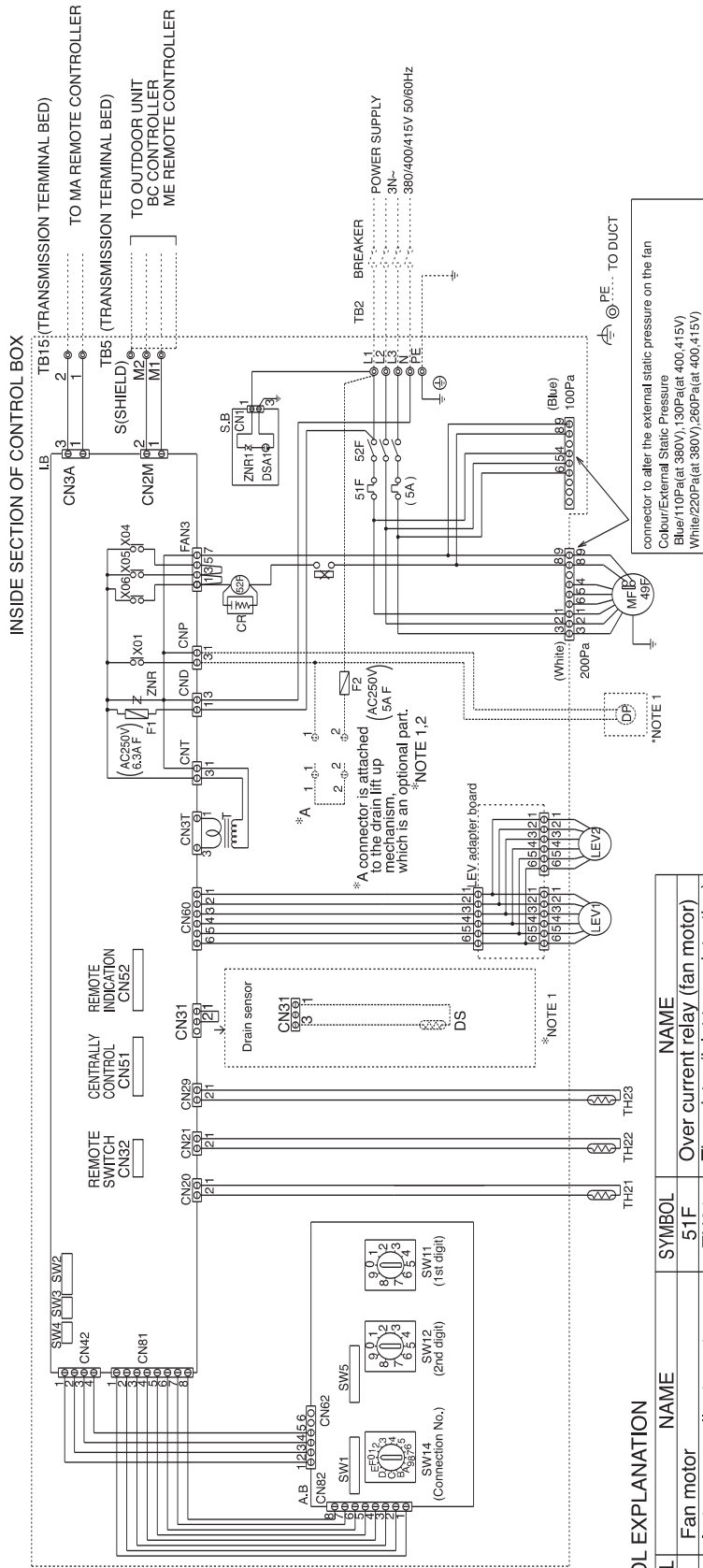
*A connector is attached to the drain lift up mechanism, which is an optional part.
 *NOTE 1, 2

*NOTE 1

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
AL
AM
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PEFY-P200,250VMH-E

Drw. : IU-W65-3957



INSIDE SECTION OF CONTROL BOX

SYMBOL EXPLANATION

| SYMBOL | NAME | SYMBOL | NAME |
|-----------|--------------------------------|-----------|---|
| MF | Fan motor | 51F | Over current relay (fan motor) |
| I.B | Indoor controller board | TH21 | Thermistor (inlet temp.detection) |
| A.B | Address board | TH22 | Thermistor (piping temp.detection/liquid) |
| TB2 | Power source terminal bed | TH23 | Thermistor (piping temp.detection/gas) |
| TB5 | Transmission terminal bed | SW11(A.B) | Switch (1st digit address set) |
| TB15 | Transmission terminal bed | SW12(A.B) | Switch (2nd digit address set) |
| F1 | Fuse AC250V 6.3A F | SW14(A.B) | Switch (for mode selection) |
| <F2> | Fuse AC250V 5A F | SW1(A.B) | Switch (for mode selection) |
| T | Transformer | SW2(LB) | Switch (for capacity code) |
| <DP> | Drain Pump | SW3(LB) | Switch (for mode selection) |
| LEV1,LEV2 | Electronic linear expan. valve | SW4(LB) | Switch (for model selection) |
| <DS> | Drain sensor | SW5(A.B) | Switch (for voltage selection) |
| S.B | Surge absorber board | X04-X06 | Aux. relay |
| 52F | Contactora (fan motor) | 49F | Inner thermostat |

inside < > is the optional parts

CAUTION : 1. To protect Fan motor from abnormal current, Over current relays<51F> is installed. Therefore, do not change factory set value of Over current relays.

- NOTE : 1. The part of the broken line indicates the circuit for optional parts.
 2. 'A' in the chart is the connector for a drain pump test run operation, and the power is supplied.
 After the test run, make sure to remove the 'A' connector.
 3. The wirings to TB2, TB5 shown in dotted line are field work.
 4. Mark ⊕ indicates terminal bed, ⊙ connector, ⊞ board insertion connector or fastening connector of control board.

*NOTE 1

*A connector is attached to the drain lift up mechanism, which is an optional part.
 *NOTE 1,2

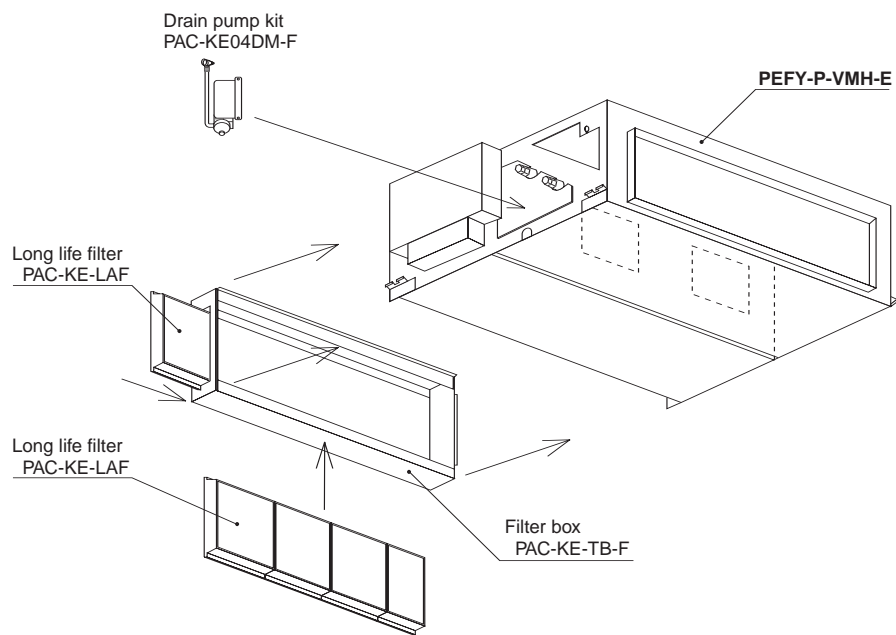
*NOTE 1

*NOTE 1

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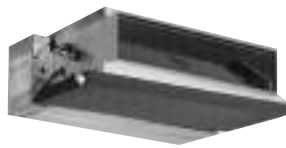
*NOTE 1

| Description | Model | Applicable capacity |
|------------------|---------------|-------------------------------|
| Long life filter | PAC-KE32LAF-F | PEFY-P20,25,32VML-E |
| | PAC-KE86LAF | PEFY-P40,50,63VMH-E |
| | PAC-KE88LAF | PEFY-P71,80VMH-E |
| | PAC-KE89LAF | PEFY-P100,125,140VMH-E |
| | PAC-KE85LAF | PEFY-P200,250VMH-E |
| Filter box | PAC-KE63TB-F | PEFY-P40,50,63VMH-E |
| | PAC-KE80TB-F | PEFY-P71,80VMH-E |
| | PAC-KE140TB-F | PEFY-P100,125,140VMH-E |
| | PAC-KE250TB-F | PEFY-P200,250VMH-E |
| Drain pump kit | PAC-KE04DM-F | PEFY-P40,50,63,71,80,100VMH-E |
| | | PEFY-P125,140,200,250VMH-E |



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BC

- A**
- B
- C
- D
- E
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- G
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- I
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- V_a
- V_b
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PEFY-P-VMM-E

PEFY-P-VMM-E

| | |
|--|----------|
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- A
- B**
- C
- D
- E
- F
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- H
- I
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| Ceiling concealed | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PEFY-P-VMM-E | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PEFY-P20VMM-E | PEFY-P25VMM-E | PEFY-P32VMM-E | PEFY-P40VMM-E | |
|---|--------------------------------|----------------------|--|---------------------------------|--------------------------------|---|-------|
| Power source | | | 1-phase 220-240V 50Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | |
| | | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 | |
| | | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 | |
| | | Power input | kW | 0.15 | 0.15 | 0.17 | 0.19 |
| | | Current input | A | 0.73 | 0.73 | 0.81 | 0.92 |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | |
| | | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 | |
| | | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 | |
| | Power input | kW | 0.15 | 0.15 | 0.17 | 0.19 | |
| | | Current input | A | 0.73 | 0.73 | 0.81 | 0.92 |
| External finish | | | Galvanized | | | | |
| External dimension H x W x D | | mm | 295 x 815 x 700 | 295x815x700 | 295x815x700 | 295x935x700 | |
| | | in. | 11-5/8" x 32-1/8" x 27-9/16" | 11-5/8" x 32-1/8" x 27-9/16" | 11-5/8" x 32-1/8" x 27-9/16" | 11-5/8" x 36-13/16" x 27-9/16" | |
| Net weight | | kg (lb) | 27 (60) | 27 (60) | 27 (60) | 33 (73) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 2 | |
| | External static press. | Pa | 30- 50- 100 | 30- 50- 100 | 30- 50- 100 | 30- 50- 100 | |
| | | mmH ₂ O | 3.1- 5.1- 10.2 | 3.1- 5.1- 10.2 | 3.1- 5.1- 10.2 | 3.1- 5.1- 10.2 | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | | kW | 0.075 | 0.075 | 0.075 | 0.075 |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 6.0 - 7.2 - 8.5 | 6.0 - 7.2 - 8.5 | 7.5-9.0-10.5 | 10.0-12.0-14.0 | |
| | | L / s | 100 - 120 - 142 | 100 - 120 - 142 | 125-150-175 | 167-200-233 | |
| cfm | | 212 - 254 - 300 | 212 - 254 - 300 | 265-318-371 | 353-424-494 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 27-30-32 | 27-30-32 | 28-32-35 | 31-34-37 | |
| Insulation material | | | Polyethylene foam, Urethane foam | | | | |
| Air filter | | | PP honeycomb fabric (washable) | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | |
| | | | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | |
| | | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | |
| Diameter of drain pipe | | mm (in.) | R1(External thread) | R1(External thread) | R1(External thread) | R1(External thread) | |
| Drawing | External | | IU - W65-3948 | | | | |
| | Wiring | | IU - W65-3958 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Circular duct flange | | PAC-KE32EDF-F | PAC-KE32EDF-F | PAC-KE32EDF-F | PAC-KE50EDF-F | |
| | Drain pump kit | | PAC-KE03DM-F | PAC-KE03DM-F | PAC-KE03DM-F | PAC-KE03DM-F | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | |
| Note : | | | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter | |
| Indoor : | | | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 | |
| Outdoor : | | | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 | |
| Pipe length : | | | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 | |
| Level difference : | | | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | | | *Above specification data is subject to rounding variation. | |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | | | Ref.: Spec_PEFY-P-VMM-E_1 | |

1. SPECIFICATIONS

| Model | | | PEFY-P50VMM-E | PEFY-P63VMM-E | PEFY-P71VMM-E | PEFY-P80VMM-E | |
|---|--------------------------------|----------------------|--|-------------------------------|-------------------------------|-------------------------------|------|
| Power source | | | 1-phase 220-240V 50Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 5.6 | 7.1 | 8.0 | 9.0 | |
| | | kcal / h | 4,800 | 6,100 | 6,900 | 7,700 | |
| | | Btu / h | 19,100 | 24,200 | 27,300 | 30,700 | |
| | *2 | kcal / h | 5,000 | 6,300 | 7,100 | 8,000 | |
| | | Power input kW | 0.2 | 0.22 | 0.25 | 0.25 | |
| Current input A | | 0.98 | 1.07 | 1.15 | 1.15 | | |
| Heating capacity (Nominal) | *3 | kW | 6.3 | 8.0 | 9.0 | 10.0 | |
| | | kcal / h | 5,400 | 6,900 | 7,700 | 8,600 | |
| | | Btu / h | 21,500 | 27,300 | 30,700 | 34,100 | |
| | Power input kW | 0.2 | 0.22 | 0.25 | 0.25 | | |
| | | Current input A | | 0.98 | 1.07 | 1.15 | 1.15 |
| External finish | | | Galvanized | | | | |
| External dimension H x W x D | | mm | 295 x 935 x 700 | 295 x 1,175 x 700 | 295 x 1,175 x 700 | 295 x 1,175 x 700 | |
| | | in. | 11-5/8" x 36-13/16" x 27-9/16" | 11-5/8" x 46-5/16" x 27-9/16" | 11-5/8" x 46-5/16" x 27-9/16" | 11-5/8" x 46-5/16" x 27-9/16" | |
| Net weight | | kg (lb) | 33 (73) | 42 (93) | 42 (93) | 42 (93) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | |
| | External static press. | Pa | 30- 50- 100 | 30- 50- 100 | 30- 50- 100 | 30- 50- 100 | |
| | | mmH ₂ O | 3.1- 5.1- 10.2 | 3.1- 5.1- 10.2 | 3.1- 5.1- 10.2 | 3.1- 5.1- 10.2 | |
| | Motor type | | | 1-phase induction motor | | | |
| | Motor output kW | | 0.075 | 0.078 | 0.078 | 0.078 | |
| | Driving mechanism | | | Direct-driven by motor | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 12.0-14.5-17.0 | 13.5-16.2-19.0 | 14.5-18.0-21.0 | 14.5-18.0-21.0 | |
| | | L / s | 200-242-283 | 225-270-317 | 242-300-350 | 242-300-350 | |
| cfm | | 424-512-600 | 477-572-671 | 512-636-742 | 512-636-742 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 31-35-38 | 31-35-38 | 32-36-39 | 32-36-39 | |
| Insulation material | | | Polyethylene foam, Urethane foam | | | | |
| Air filter | | | PP honeycomb fabric (washable) | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | | | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | | |
| | | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | | |
| Diameter of drain pipe | | mm (in.) | R1(External thread) | R1(External thread) | R1(External thread) | R1(External thread) | |
| Drawing | External | | IU - W65-3948 | | | | |
| | Wiring | | IU - W65-3958 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Circular duct flange | | PAC-KE50EDF-F | PAC-KE80EDF-F | PAC-KE80EDF-F | PAC-KE80EDF-F | |
| | Drain pump kit | | PAC-KE03DM-F | PAC-KE03DM-F | PAC-KE03DM-F | PAC-KE03DM-F | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PEFY-P-VMM-E_2

1. SPECIFICATIONS

R410A Data G2

| Model | | PEFY-P100VMM-E | PEFY-P125VMM-E | PEFY-P140VMM-E | | |
|---|--------------------------------|--|---------------------------------|--|---|--|
| Power source | | 1-phase 220-240V 50Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 11.2 | 14.0 | 16.0 | |
| | *1 | kcal / h | 9,600 | 12,000 | 13,800 | |
| | *1 | Btu / h | 38,200 | 47,800 | 54,600 | |
| | *2 | kcal / h | 10,000 | 12,500 | 14,000 | |
| | | Power input | kW | 0.29 | 0.4 | 0.42 |
| | | Current input | A | 1.34 | 1.9 | 1.95 |
| Heating capacity (Nominal) | *3 | kW | 12.5 | 16.0 | 18.0 | |
| | *3 | kcal / h | 10,800 | 13,800 | 15,500 | |
| | *3 | Btu / h | 42,700 | 54,600 | 61,400 | |
| | | Power input | kW | 0.29 | 0.4 | 0.42 |
| | | | Current input | A | 1.34 | 1.9 |
| External finish | | Galvanized | | | | |
| External dimension H x W x D | | mm | 325 x 1,415 x 740 | 325 x 1,415 x 740 | 325 x 1,715 x 740 | |
| | | in. | 12-13/16" x 55-3/4" x 29-3/16" | 12-13/16" x 55-3/4" x 29-3/16" | 12-13/16" x 67-9/16" x 29-3/16" | |
| Net weight | | kg (lb) | 62 (137) | 65 (144) | 70 (155) | |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | |
| | External static press. | Pa | 50- 130 | 50- 130 | 50- 130 | |
| | | mmH ₂ O | 5.1- 13.3 | 5.1- 13.3 | 5.1- 13.3 | |
| | Motor type | | 1-phase induction motor | | | |
| | Motor output | | kW | 0.200 | 0.280 | 0.280 |
| | Driving mechanism | | Direct-driven by motor | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | | 23.0 - 33.0 | 28.0 - 40.0 | 29.5 - 42.0 |
| L / s | | 383 - 550 | 467 - 667 | 492 - 700 | | |
| cfm | | 812 - 1,165 | 989 - 1,413 | 1,042 - 1,483 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 40 - 44 | 42 - 45 | 42 - 45 | |
| Insulation material | | Polyethylene foam, Urethane foam | | | | |
| Air filter | | PP honeycomb fabric (washable) | | | | |
| Protection device | | Fuse | | | | |
| Refrigerant control device | | LEV | | | | |
| Connectable outdoor unit | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | | Gas (R410A) (R22, R407C) | mm (in.) | ø15.88 (ø5/8") Flare ø19.05 (ø3/4") Flare | ø15.88 (ø5/8") Flare ø19.05 (ø3/4") Flare | ø15.88 (ø5/8") Flare ø19.05 (ø3/4") Flare |
| Diameter of drain pipe | | mm (in.) | R1(External thread) | R1(External thread) | R1(External thread) | |
| Drawing | External | | IU - W65-3949 | IU - W65-3949 | IU - W65-3949 | |
| | Wiring | | IU - W65-3959 | IU - W65-3959 | IU - W65-3959 | |
| | Refrigerant cycle | | - | - | - | |
| Standard attachment | | Document Accessory Installation Manual, Instruction Book | | | | |
| Remark | Optional parts | | | | | |
| | Circular duct flange | | PAC-KE125EDF-F | PAC-KE125EDF-F | PAC-KE140EDF-F | |
| | Drain pump kit | | PAC-KE03DM-F | PAC-KE03DM-F | PAC-KE03DM-F | |
| Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | |
| Note : | | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter | |
| Indoor : | | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 | |
| Outdoor : | | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 | |
| Pipe length : | | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 | |
| Level difference : | | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | | *Above specification data is subject to rounding variation. | |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | | Ref.: Spec_PEFY-P-VMM-E_3 | |

2. CAPACITY TABLES

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 82 | 27.5 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 |
| 110 | 43.0 | 1.8 | 1.6 | 1.9 | 1.7 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.7 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 73 | 22.5 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 77 | 25.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 91 | 32.5 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 95 | 35.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.0 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.0 | 3.1 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.0 | 3.1 | 2.0 |
| 110 | 43.0 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.7 | 4.6 | 2.7 |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.7 | 4.6 | 2.7 |
| | 77 | 25.0 | 3.4 | 2.6 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.7 | 4.5 | 2.7 |
| | 82 | 27.5 | 3.4 | 2.6 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.1 | 2.7 | 4.4 | 2.6 |
| | 86 | 30.0 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.7 | 4.0 | 2.6 | 4.3 | 2.6 |
| | 91 | 32.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.5 | 3.7 | 2.6 | 3.8 | 2.7 | 4.0 | 2.6 | 4.2 | 2.6 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.0 | 2.5 |
| | 104 | 40.0 | 3.1 | 2.4 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.5 | 4.0 | 2.5 |
| 110 | 43.0 | 3.0 | 2.4 | 3.1 | 2.4 | 3.3 | 2.4 | 3.3 | 2.4 | 3.5 | 2.5 | 3.6 | 2.5 | 3.9 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.4 | 4.9 | 3.4 | 5.0 | 3.6 | 5.3 | 3.5 | 5.7 | 3.5 |
| | 73 | 22.5 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.4 | 4.9 | 3.4 | 5.0 | 3.6 | 5.3 | 3.5 | 5.7 | 3.5 |
| | 77 | 25.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.4 | 4.9 | 3.4 | 5.0 | 3.6 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 82 | 27.5 | 4.3 | 3.3 | 4.4 | 3.4 | 4.6 | 3.3 | 4.8 | 3.4 | 4.9 | 3.5 | 5.2 | 3.5 | 5.5 | 3.4 |
| | 86 | 30.0 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.7 | 3.4 | 4.8 | 3.5 | 5.0 | 3.4 | 5.4 | 3.4 |
| | 91 | 32.5 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.3 | 4.6 | 3.3 | 4.7 | 3.4 | 5.0 | 3.4 | 5.3 | 3.3 |
| | 95 | 35.0 | 4.0 | 3.2 | 4.1 | 3.3 | 4.4 | 3.2 | 4.5 | 3.3 | 4.6 | 3.4 | 4.9 | 3.3 | 5.2 | 3.3 |
| | 100 | 37.5 | 3.9 | 3.1 | 4.1 | 3.2 | 4.3 | 3.2 | 4.4 | 3.2 | 4.5 | 3.4 | 4.8 | 3.3 | 5.0 | 3.3 |
| | 104 | 40.0 | 3.9 | 3.1 | 4.0 | 3.2 | 4.2 | 3.2 | 4.3 | 3.2 | 4.5 | 3.3 | 4.7 | 3.3 | 5.0 | 3.2 |
| 110 | 43.0 | 3.8 | 3.1 | 3.9 | 3.2 | 4.1 | 3.1 | 4.2 | 3.2 | 4.3 | 3.3 | 4.5 | 3.2 | 4.8 | 3.2 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 73 | 22.5 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 77 | 25.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.2 | 6.9 | 4.2 |
| | 82 | 27.5 | 5.3 | 4.0 | 5.5 | 4.1 | 5.8 | 4.1 | 5.9 | 4.1 | 6.1 | 4.3 | 6.4 | 4.2 | 6.8 | 4.1 |
| | 86 | 30.0 | 5.2 | 3.9 | 5.3 | 4.1 | 5.7 | 4.0 | 5.8 | 4.1 | 6.0 | 4.2 | 6.3 | 4.1 | 6.7 | 4.1 |
| | 91 | 32.5 | 5.1 | 3.9 | 5.3 | 4.0 | 5.5 | 4.0 | 5.7 | 4.0 | 5.9 | 4.2 | 6.2 | 4.1 | 6.6 | 4.0 |
| | 95 | 35.0 | 5.0 | 3.9 | 5.2 | 4.0 | 5.5 | 3.9 | 5.6 | 4.0 | 5.7 | 4.1 | 6.0 | 4.0 | 6.4 | 4.0 |
| | 100 | 37.5 | 4.9 | 3.8 | 5.0 | 3.9 | 5.3 | 3.9 | 5.5 | 3.9 | 5.6 | 4.1 | 5.9 | 4.0 | 6.3 | 3.9 |
| | 104 | 40.0 | 4.8 | 3.8 | 5.0 | 3.9 | 5.3 | 3.8 | 5.4 | 3.9 | 5.5 | 4.0 | 5.8 | 4.0 | 6.2 | 3.9 |
| 110 | 43.0 | 4.7 | 3.7 | 4.8 | 3.8 | 5.1 | 3.8 | 5.2 | 3.8 | 5.4 | 4.0 | 5.7 | 3.9 | 6.0 | 3.8 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 9.0 | 5.3 |
| | 73 | 22.5 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 9.0 | 5.3 |
| | 77 | 25.0 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.1 | 7.7 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 82 | 27.5 | 6.7 | 5.0 | 6.9 | 5.1 | 7.3 | 5.1 | 7.5 | 5.1 | 7.7 | 5.3 | 8.1 | 5.2 | 8.7 | 5.2 |
| | 86 | 30.0 | 6.6 | 4.9 | 6.8 | 5.1 | 7.2 | 5.0 | 7.4 | 5.1 | 7.6 | 5.3 | 8.0 | 5.2 | 8.5 | 5.1 |
| | 91 | 32.5 | 6.5 | 4.9 | 6.7 | 5.0 | 7.0 | 5.0 | 7.2 | 5.0 | 7.4 | 5.2 | 7.8 | 5.1 | 8.3 | 5.0 |
| | 95 | 35.0 | 6.4 | 4.8 | 6.5 | 5.0 | 6.9 | 4.9 | 7.1 | 5.0 | 7.3 | 5.1 | 7.7 | 5.1 | 8.1 | 5.0 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.4 | 4.9 | 6.8 | 4.8 | 6.9 | 4.9 | 7.1 | 5.1 | 7.5 | 5.0 | 8.0 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.3 | 4.8 | 6.7 | 4.8 | 6.8 | 4.9 | 7.0 | 5.0 | 7.3 | 4.9 | 7.8 | 4.9 |
| 110 | 43.0 | 6.0 | 4.6 | 6.1 | 4.8 | 6.5 | 4.7 | 6.6 | 4.8 | 6.8 | 5.0 | 7.2 | 4.9 | 7.6 | 4.8 | |
| 71 (8.0) | 68 | 20.0 | 7.6 | 5.6 | 7.9 | 5.8 | 8.4 | 5.8 | 8.6 | 5.8 | 8.9 | 6.1 | 9.4 | 6.0 | 10.1 | 5.9 |
| | 73 | 22.5 | 7.6 | 5.6 | 7.9 | 5.8 | 8.4 | 5.8 | 8.6 | 5.8 | 8.9 | 6.1 | 9.4 | 6.0 | 10.1 | 5.9 |
| | 77 | 25.0 | 7.6 | 5.6 | 7.9 | 5.8 | 8.4 | 5.8 | 8.6 | 5.8 | 8.8 | 6.0 | 9.4 | 5.9 | 9.9 | 5.8 |
| | 82 | 27.5 | 7.6 | 5.6 | 7.8 | 5.8 | 8.2 | 5.7 | 8.5 | 5.8 | 8.7 | 6.0 | 9.2 | 5.9 | 9.8 | 5.8 |
| | 86 | 30.0 | 7.4 | 5.5 | 7.6 | 5.7 | 8.1 | 5.6 | 8.3 | 5.7 | 8.5 | 5.9 | 9.0 | 5.8 | 9.6 | 5.7 |
| | 91 | 32.5 | 7.3 | 5.5 | 7.5 | 5.6 | 7.9 | 5.5 | 8.1 | 5.6 | 8.4 | 5.8 | 8.8 | 5.7 | 9.4 | 5.6 |
| | 95 | 35.0 | 7.2 | 5.4 | 7.4 | 5.5 | 7.8 | 5.5 | 8.0 | 5.6 | 8.2 | 5.8 | 8.6 | 5.7 | 9.2 | 5.6 |
| | 100 | 37.5 | 7.0 | 5.3 | 7.2 | 5.5 | 7.6 | 5.4 | 7.8 | 5.5 | 8.0 | 5.7 | 8.5 | 5.6 | 9.0 | 5.5 |
| | 104 | 40.0 | 6.9 | 5.3 | 7.1 | 5.4 | 7.5 | 5.4 | 7.7 | 5.4 | 7.9 | 5.6 | 8.3 | 5.5 | 8.8 | 5.4 |
| 110 | 43.0 | 6.7 | 5.2 | 6.9 | 5.3 | 7.3 | 5.3 | 7.4 | 5.3 | 7.7 | 5.5 | 8.1 | 5.4 | 8.6 | 5.4 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.6 | 6.1 | 8.9 | 6.3 | 9.5 | 6.2 | 9.7 | 6.3 | 10.0 | 6.5 | 10.6 | 6.4 | 11.4 | 6.4 |
| | 73 | 22.5 | 8.6 | 6.1 | 8.9 | 6.3 | 9.5 | 6.2 | 9.7 | 6.3 | 10.0 | 6.5 | 10.6 | 6.4 | 11.4 | 6.4 |
| | 77 | 25.0 | 8.6 | 6.1 | 8.9 | 6.3 | 9.5 | 6.2 | 9.7 | 6.3 | 9.9 | 6.5 | 10.5 | 6.4 | 11.2 | 6.3 |
| | 82 | 27.5 | 8.5 | 6.1 | 8.8 | 6.2 | 9.3 | 6.2 | 9.5 | 6.2 | 9.8 | 6.4 | 10.3 | 6.3 | 11.0 | 6.2 |
| | 86 | 30.0 | 8.4 | 6.0 | 8.6 | 6.2 | 9.1 | 6.1 | 9.4 | 6.1 | 9.6 | 6.3 | 10.1 | 6.2 | 10.8 | 6.1 |
| | 91 | 32.5 | 8.2 | 5.9 | 8.5 | 6.1 | 8.9 | 6.0 | 9.1 | 6.0 | 9.4 | 6.3 | 9.9 | 6.1 | 10.5 | 6.1 |
| | 95 | 35.0 | 8.1 | 5.8 | 8.3 | 6.0 | 8.8 | 5.9 | 9.0 | 6.0 | 9.2 | 6.2 | 9.7 | 6.1 | 10.3 | 6.0 |
| | 100 | 37.5 | 7.9 | 5.8 | 8.1 | 5.9 | 8.6 | 5.8 | 8.8 | 5.9 | 9.0 | 6.1 | 9.5 | 6.0 | 10.1 | 5.9 |
| | 104 | 40.0 | 7.7 | 5.7 | 8.0 | 5.8 | 8.5 | 5.8 | 8.6 | 5.8 | 8.9 | 6.0 | 9.3 | 5.9 | 9.9 | 5.8 |
| | 110 | 43.0 | 7.6 | 5.6 | 7.8 | 5.8 | 8.2 | 5.7 | 8.4 | 5.7 | 8.6 | 5.9 | 9.1 | 5.8 | 9.6 | 5.7 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 8.3 | 11.0 | 8.6 | 11.8 | 8.5 | 12.1 | 8.7 | 12.5 | 9.0 | 13.2 | 8.9 | 14.2 | 8.8 |
| | 73 | 22.5 | 10.6 | 8.3 | 11.0 | 8.6 | 11.8 | 8.5 | 12.1 | 8.7 | 12.5 | 9.0 | 13.2 | 8.9 | 14.2 | 8.8 |
| | 77 | 25.0 | 10.6 | 8.3 | 11.0 | 8.6 | 11.8 | 8.5 | 12.1 | 8.7 | 12.4 | 9.0 | 13.1 | 8.8 | 13.9 | 8.7 |
| | 82 | 27.5 | 10.6 | 8.3 | 10.9 | 8.5 | 11.5 | 8.4 | 11.9 | 8.6 | 12.2 | 8.9 | 12.8 | 8.7 | 13.7 | 8.6 |
| | 86 | 30.0 | 10.4 | 8.2 | 10.7 | 8.4 | 11.3 | 8.3 | 11.6 | 8.5 | 11.9 | 8.8 | 12.5 | 8.6 | 13.4 | 8.5 |
| | 91 | 32.5 | 10.2 | 8.1 | 10.5 | 8.4 | 11.1 | 8.2 | 11.4 | 8.4 | 11.7 | 8.7 | 12.3 | 8.6 | 13.1 | 8.4 |
| | 95 | 35.0 | 10.0 | 8.0 | 10.3 | 8.3 | 10.9 | 8.2 | 11.2 | 8.3 | 11.5 | 8.6 | 12.1 | 8.5 | 12.8 | 8.3 |
| | 100 | 37.5 | 9.8 | 7.9 | 10.1 | 8.1 | 10.7 | 8.1 | 10.9 | 8.2 | 11.3 | 8.5 | 11.9 | 8.4 | 12.5 | 8.3 |
| | 104 | 40.0 | 9.6 | 7.8 | 9.9 | 8.1 | 10.5 | 8.0 | 10.8 | 8.1 | 11.1 | 8.5 | 11.6 | 8.3 | 12.3 | 8.2 |
| | 110 | 43.0 | 9.4 | 7.7 | 9.7 | 8.0 | 10.2 | 7.9 | 10.4 | 8.0 | 10.8 | 8.3 | 11.3 | 8.2 | 12.0 | 8.1 |
| 125 (14.0) | 68 | 20.0 | 13.3 | 10.2 | 13.8 | 10.5 | 14.7 | 10.4 | 15.1 | 10.6 | 15.6 | 11.0 | 16.5 | 10.8 | 17.7 | 10.8 |
| | 73 | 22.5 | 13.3 | 10.2 | 13.8 | 10.5 | 14.7 | 10.4 | 15.1 | 10.6 | 15.6 | 11.0 | 16.5 | 10.8 | 17.7 | 10.8 |
| | 77 | 25.0 | 13.3 | 10.2 | 13.8 | 10.5 | 14.7 | 10.4 | 15.1 | 10.6 | 15.5 | 10.9 | 16.4 | 10.8 | 17.4 | 10.6 |
| | 82 | 27.5 | 13.2 | 10.1 | 13.7 | 10.4 | 14.4 | 10.3 | 14.8 | 10.5 | 15.3 | 10.9 | 16.0 | 10.7 | 17.1 | 10.5 |
| | 86 | 30.0 | 13.0 | 10.0 | 13.4 | 10.3 | 14.2 | 10.2 | 14.6 | 10.4 | 14.9 | 10.7 | 15.7 | 10.5 | 16.7 | 10.4 |
| | 91 | 32.5 | 12.7 | 9.9 | 13.2 | 10.2 | 13.9 | 10.1 | 14.2 | 10.2 | 14.6 | 10.6 | 15.4 | 10.4 | 16.4 | 10.3 |
| | 95 | 35.0 | 12.5 | 9.8 | 12.9 | 10.1 | 13.7 | 10.0 | 14.0 | 10.1 | 14.4 | 10.5 | 15.1 | 10.3 | 16.0 | 10.2 |
| | 100 | 37.5 | 12.3 | 9.7 | 12.6 | 10.0 | 13.4 | 9.9 | 13.7 | 10.0 | 14.1 | 10.4 | 14.8 | 10.2 | 15.7 | 10.0 |
| | 104 | 40.0 | 12.0 | 9.6 | 12.4 | 9.9 | 13.2 | 9.8 | 13.4 | 9.9 | 13.9 | 10.3 | 14.5 | 10.1 | 15.4 | 9.9 |
| | 110 | 43.0 | 11.8 | 9.4 | 12.1 | 9.7 | 12.8 | 9.6 | 13.0 | 9.7 | 13.4 | 10.1 | 14.1 | 10.0 | 15.0 | 9.8 |
| 140 (16.0) | 68 | 20.0 | 15.2 | 11.3 | 15.8 | 11.6 | 16.8 | 11.6 | 17.3 | 11.7 | 17.8 | 12.2 | 18.9 | 12.0 | 20.2 | 11.9 |
| | 73 | 22.5 | 15.2 | 11.3 | 15.8 | 11.6 | 16.8 | 11.6 | 17.3 | 11.7 | 17.8 | 12.2 | 18.9 | 12.0 | 20.2 | 11.9 |
| | 77 | 25.0 | 15.2 | 11.3 | 15.8 | 11.6 | 16.8 | 11.6 | 17.3 | 11.7 | 17.7 | 12.1 | 18.7 | 11.9 | 19.8 | 11.7 |
| | 82 | 27.5 | 15.1 | 11.2 | 15.6 | 11.6 | 16.5 | 11.4 | 17.0 | 11.6 | 17.4 | 12.0 | 18.3 | 11.8 | 19.5 | 11.6 |
| | 86 | 30.0 | 14.9 | 11.1 | 15.3 | 11.4 | 16.2 | 11.3 | 16.6 | 11.4 | 17.0 | 11.8 | 17.9 | 11.6 | 19.1 | 11.5 |
| | 91 | 32.5 | 14.6 | 11.0 | 15.0 | 11.3 | 15.8 | 11.1 | 16.2 | 11.3 | 16.7 | 11.7 | 17.6 | 11.5 | 18.7 | 11.3 |
| | 95 | 35.0 | 14.3 | 10.8 | 14.7 | 11.1 | 15.6 | 11.0 | 16.0 | 11.2 | 16.4 | 11.6 | 17.3 | 11.4 | 18.3 | 11.2 |
| | 100 | 37.5 | 14.0 | 10.7 | 14.4 | 11.0 | 15.3 | 10.9 | 15.6 | 11.0 | 16.1 | 11.4 | 17.0 | 11.2 | 17.9 | 11.1 |
| | 104 | 40.0 | 13.8 | 10.6 | 14.2 | 10.9 | 15.0 | 10.8 | 15.4 | 10.9 | 15.8 | 11.3 | 16.6 | 11.1 | 17.6 | 10.9 |
| | 110 | 43.0 | 13.4 | 10.4 | 13.8 | 10.7 | 14.6 | 10.6 | 14.9 | 10.7 | 15.4 | 11.1 | 16.2 | 10.9 | 17.1 | 10.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PURY-P200,250YGM

PEFY-P-VMM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.6 | 4.5 | 4.4 | 4.3 |
| | 23 | -5.0 | 5.3 | 5.2 | 5.0 | 4.4 |
| | 32 | 0.0 | 6.0 | 5.9 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.3 | 6.2 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.6 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.8 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.2 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.6 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 8.1 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |
| 71 (8.0) | -4 | -20.0 | 4.6 | 4.5 | 4.5 | 4.5 |
| | 5 | -15.0 | 5.6 | 5.5 | 5.4 | 5.3 |
| | 14 | -10.0 | 6.6 | 6.5 | 6.3 | 6.2 |
| | 23 | -5.0 | 7.6 | 7.5 | 7.2 | 6.3 |
| | 32 | 0.0 | 8.5 | 8.5 | 7.2 | 6.3 |
| | 37 | 2.5 | 9.0 | 8.9 | 7.2 | 6.3 |
| | 43 | 6.0 | 9.4 | 9.0 | 7.2 | 6.3 |
| | 46 | 7.5 | 9.7 | 9.0 | 7.2 | 6.3 |
| | 50 | 10.0 | 10.3 | 9.0 | 7.2 | 6.3 |
| | 55 | 12.5 | 10.8 | 9.0 | 7.2 | 6.3 |
| 60 | 15.5 | 11.5 | 9.0 | 7.2 | 6.3 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 5.0 |
| | 5 | -15.0 | 6.2 | 6.1 | 6.0 | 5.9 |
| | 14 | -10.0 | 7.3 | 7.2 | 7.0 | 6.9 |
| | 23 | -5.0 | 8.4 | 8.3 | 8.0 | 7.0 |
| | 32 | 0.0 | 9.5 | 9.4 | 8.0 | 7.0 |
| | 37 | 2.5 | 10.0 | 9.9 | 8.0 | 7.0 |
| | 43 | 6.0 | 10.4 | 10.0 | 8.0 | 7.0 |
| | 46 | 7.5 | 10.8 | 10.0 | 8.0 | 7.0 |
| | 50 | 10.0 | 11.4 | 10.0 | 8.0 | 7.0 |
| | 55 | 12.5 | 12.1 | 10.0 | 8.0 | 7.0 |
| 60 | 15.5 | 12.8 | 10.0 | 8.0 | 7.0 | |
| 100 (11.2) | -4 | -20.0 | 6.4 | 6.3 | 6.3 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.4 |
| | 14 | -10.0 | 9.1 | 9.0 | 8.8 | 8.6 |
| | 23 | -5.0 | 10.5 | 10.4 | 10.0 | 8.8 |
| | 32 | 0.0 | 11.8 | 11.8 | 10.0 | 8.8 |
| | 37 | 2.5 | 12.5 | 12.4 | 10.0 | 8.8 |
| | 43 | 6.0 | 13.0 | 12.5 | 10.0 | 8.8 |
| | 46 | 7.5 | 13.4 | 12.5 | 10.0 | 8.8 |
| | 50 | 10.0 | 14.3 | 12.5 | 10.0 | 8.8 |
| | 55 | 12.5 | 15.1 | 12.5 | 10.0 | 8.8 |
| 60 | 15.5 | 16.0 | 12.5 | 10.0 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.2 | 8.0 | 8.0 | 8.0 |
| | 5 | -15.0 | 9.9 | 9.8 | 9.6 | 9.4 |
| | 14 | -10.0 | 11.7 | 11.5 | 11.2 | 11.0 |
| | 23 | -5.0 | 13.4 | 13.3 | 12.8 | 11.2 |
| | 32 | 0.0 | 15.1 | 15.0 | 12.8 | 11.2 |
| | 37 | 2.5 | 16.0 | 15.8 | 12.8 | 11.2 |
| | 43 | 6.0 | 16.6 | 16.0 | 12.8 | 11.2 |
| | 46 | 7.5 | 17.2 | 16.0 | 12.8 | 11.2 |
| | 50 | 10.0 | 18.2 | 16.0 | 12.8 | 11.2 |
| | 55 | 12.5 | 19.3 | 16.0 | 12.8 | 11.2 |
| 60 | 15.5 | 20.5 | 16.0 | 12.8 | 11.2 | |
| 140 (16.0) | -4 | -20.0 | 9.3 | 9.0 | 9.0 | 9.0 |
| | 5 | -15.0 | 11.2 | 11.0 | 10.8 | 10.6 |
| | 14 | -10.0 | 13.1 | 13.0 | 12.6 | 12.3 |
| | 23 | -5.0 | 15.1 | 14.9 | 14.4 | 12.6 |
| | 32 | 0.0 | 17.0 | 16.9 | 14.4 | 12.6 |
| | 37 | 2.5 | 18.0 | 17.8 | 14.4 | 12.6 |
| | 43 | 6.0 | 18.7 | 18.0 | 14.4 | 12.6 |
| | 46 | 7.5 | 19.4 | 18.0 | 14.4 | 12.6 |
| | 50 | 10.0 | 20.5 | 18.0 | 14.4 | 12.6 |
| | 55 | 12.5 | 21.7 | 18.0 | 14.4 | 12.6 |
| 60 | 15.5 | 23.0 | 18.0 | 14.4 | 12.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|
| | | | 71°FDB/59°FWB | | 73°FDB/61°FWB | | 77°FDB/64°FWB | | 81°FDB/66°FWB | | 82°FDB/68°FWB | | 86°FDB/72°FWB | | 90°FDB/75°FWB | |
| | | | 21.5°CDB/15°CWB | | 23°CDB/16°CWB | | 25°CDB/18°CWB | | 27°CDB/19°CWB | | 28°CDB/20°CWB | | 30°CDB/22°CWB | | 32°CDB/24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 1.9 | 2.9 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 82 | 27.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.0 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.4 | 1.9 | 2.3 | 1.8 | 2.4 | 1.8 |
| 110 | 43.0 | 1.8 | 1.6 | 1.8 | 1.7 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.2 | 3.4 | 2.2 | 3.6 | 2.2 |
| | 73 | 22.5 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.2 | 2.2 | 3.4 | 2.2 | 3.6 | 2.2 |
| | 77 | 25.0 | 2.7 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.6 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 91 | 32.5 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 95 | 35.0 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.2 | 2.0 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 3.0 | 2.2 | 2.9 | 2.0 | 3.1 | 2.0 |
| 110 | 43.0 | 2.4 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.7 | 4.0 | 2.7 | 4.2 | 2.8 | 4.4 | 2.8 | 4.7 | 2.7 |
| | 73 | 22.5 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.1 | 2.8 | 4.3 | 2.8 | 4.6 | 2.7 |
| | 77 | 25.0 | 3.4 | 2.6 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.7 | 4.5 | 2.7 |
| | 82 | 27.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.2 | 2.7 | 4.4 | 2.7 |
| | 86 | 30.0 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.7 | 4.1 | 2.7 | 4.3 | 2.6 |
| | 91 | 32.5 | 3.3 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 | 3.7 | 2.6 | 3.8 | 2.7 | 4.0 | 2.6 | 4.2 | 2.6 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.6 | 4.2 | 2.6 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.9 | 2.6 | 4.1 | 2.5 |
| | 104 | 40.0 | 3.1 | 2.4 | 3.1 | 2.4 | 3.3 | 2.4 | 3.4 | 2.5 | 3.9 | 2.7 | 3.8 | 2.5 | 4.0 | 2.5 |
| 110 | 43.0 | 3.0 | 2.4 | 3.0 | 2.4 | 3.2 | 2.4 | 3.3 | 2.4 | 3.4 | 2.5 | 3.7 | 2.5 | 3.9 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.3 | 4.5 | 3.4 | 4.9 | 3.4 | 5.0 | 3.5 | 5.2 | 3.6 | 5.5 | 3.6 | 5.9 | 3.5 |
| | 73 | 22.5 | 4.3 | 3.3 | 4.5 | 3.4 | 4.8 | 3.4 | 5.0 | 3.5 | 5.1 | 3.6 | 5.4 | 3.6 | 5.7 | 3.5 |
| | 77 | 25.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.4 | 4.9 | 3.4 | 5.0 | 3.6 | 5.3 | 3.5 | 5.6 | 3.5 |
| | 82 | 27.5 | 4.2 | 3.3 | 4.3 | 3.4 | 4.6 | 3.3 | 4.8 | 3.4 | 4.9 | 3.5 | 5.2 | 3.5 | 5.5 | 3.4 |
| | 86 | 30.0 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.3 | 4.7 | 3.4 | 4.8 | 3.5 | 5.1 | 3.4 | 5.4 | 3.4 |
| | 91 | 32.5 | 4.1 | 3.2 | 4.2 | 3.3 | 4.4 | 3.3 | 4.6 | 3.3 | 4.7 | 3.5 | 5.0 | 3.4 | 5.3 | 3.4 |
| | 95 | 35.0 | 4.0 | 3.2 | 4.1 | 3.2 | 4.3 | 3.2 | 4.5 | 3.3 | 4.6 | 3.4 | 4.9 | 3.4 | 5.2 | 3.3 |
| | 100 | 37.5 | 4.0 | 3.1 | 4.0 | 3.2 | 4.3 | 3.2 | 4.4 | 3.2 | 4.5 | 3.4 | 4.8 | 3.3 | 5.1 | 3.3 |
| | 104 | 40.0 | 3.9 | 3.1 | 3.9 | 3.2 | 4.2 | 3.1 | 4.3 | 3.2 | 4.9 | 3.5 | 4.7 | 3.3 | 5.0 | 3.2 |
| 110 | 43.0 | 3.8 | 3.1 | 3.8 | 3.1 | 4.1 | 3.1 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.2 | 4.8 | 3.2 | |
| 50 (5.6) | 68 | 20.0 | 5.4 | 4.1 | 5.6 | 4.2 | 6.0 | 4.2 | 6.3 | 4.3 | 6.5 | 4.4 | 6.9 | 4.4 | 7.3 | 4.3 |
| | 73 | 22.5 | 5.4 | 4.0 | 5.6 | 4.2 | 6.0 | 4.1 | 6.2 | 4.2 | 6.4 | 4.4 | 6.7 | 4.3 | 7.1 | 4.2 |
| | 77 | 25.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 82 | 27.5 | 5.2 | 4.0 | 5.4 | 4.1 | 5.7 | 4.0 | 5.9 | 4.1 | 6.1 | 4.3 | 6.5 | 4.2 | 6.9 | 4.1 |
| | 86 | 30.0 | 5.2 | 3.9 | 5.3 | 4.0 | 5.6 | 4.0 | 5.8 | 4.1 | 6.0 | 4.2 | 6.4 | 4.2 | 6.7 | 4.1 |
| | 91 | 32.5 | 5.1 | 3.9 | 5.2 | 4.0 | 5.5 | 3.9 | 5.7 | 4.0 | 5.9 | 4.2 | 6.2 | 4.1 | 6.6 | 4.1 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.1 | 3.9 | 5.4 | 3.9 | 5.6 | 4.0 | 5.8 | 4.1 | 6.1 | 4.1 | 6.5 | 4.0 |
| | 100 | 37.5 | 4.9 | 3.8 | 5.0 | 3.9 | 5.3 | 3.8 | 5.5 | 3.9 | 5.7 | 4.1 | 6.0 | 4.0 | 6.3 | 4.0 |
| | 104 | 40.0 | 4.8 | 3.8 | 4.8 | 3.8 | 5.2 | 3.8 | 5.3 | 3.9 | 6.1 | 4.3 | 5.9 | 4.0 | 6.2 | 3.9 |
| 110 | 43.0 | 4.7 | 3.7 | 4.7 | 3.8 | 5.0 | 3.7 | 5.2 | 3.8 | 5.3 | 4.0 | 5.7 | 3.9 | 6.0 | 3.9 | |
| 63 (7.1) | 68 | 20.0 | 6.9 | 5.1 | 7.1 | 5.2 | 7.7 | 5.2 | 8.0 | 5.3 | 8.2 | 5.5 | 8.7 | 5.5 | 9.2 | 5.4 |
| | 73 | 22.5 | 6.9 | 5.1 | 7.1 | 5.2 | 7.6 | 5.2 | 7.8 | 5.3 | 8.1 | 5.5 | 8.5 | 5.4 | 9.1 | 5.3 |
| | 77 | 25.0 | 6.8 | 5.0 | 7.0 | 5.2 | 7.4 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 8.9 | 5.2 |
| | 82 | 27.5 | 6.6 | 5.0 | 6.8 | 5.1 | 7.3 | 5.1 | 7.5 | 5.1 | 7.8 | 5.3 | 8.2 | 5.3 | 8.7 | 5.2 |
| | 86 | 30.0 | 6.5 | 4.9 | 6.7 | 5.0 | 7.1 | 5.0 | 7.4 | 5.1 | 7.6 | 5.3 | 8.1 | 5.2 | 8.5 | 5.1 |
| | 91 | 32.5 | 6.4 | 4.9 | 6.6 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.5 | 5.2 | 7.9 | 5.1 | 8.4 | 5.1 |
| | 95 | 35.0 | 6.3 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.7 | 5.1 | 8.2 | 5.0 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.3 | 4.8 | 6.7 | 4.8 | 6.9 | 4.9 | 7.2 | 5.1 | 7.6 | 5.0 | 8.0 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.1 | 4.8 | 6.6 | 4.7 | 6.8 | 4.8 | 7.7 | 5.3 | 7.4 | 5.0 | 7.8 | 4.9 |
| 110 | 43.0 | 6.0 | 4.6 | 6.0 | 4.7 | 6.4 | 4.7 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.9 | 7.6 | 4.8 | |
| 71 (8.0) | 68 | 20.0 | 7.8 | 5.7 | 8.0 | 5.9 | 8.6 | 5.9 | 9.0 | 6.0 | 9.2 | 6.2 | 9.8 | 6.1 | 10.4 | 6.0 |
| | 73 | 22.5 | 7.7 | 5.7 | 8.0 | 5.9 | 8.5 | 5.8 | 8.8 | 5.9 | 9.1 | 6.1 | 9.6 | 6.0 | 10.2 | 5.9 |
| | 77 | 25.0 | 7.6 | 5.6 | 7.8 | 5.8 | 8.4 | 5.7 | 8.6 | 5.8 | 8.9 | 6.0 | 9.4 | 6.0 | 10.0 | 5.9 |
| | 82 | 27.5 | 7.5 | 5.6 | 7.7 | 5.7 | 8.2 | 5.7 | 8.5 | 5.8 | 8.7 | 6.0 | 9.3 | 5.9 | 9.8 | 5.8 |
| | 86 | 30.0 | 7.4 | 5.5 | 7.5 | 5.6 | 8.0 | 5.6 | 8.3 | 5.7 | 8.6 | 5.9 | 9.1 | 5.8 | 9.6 | 5.7 |
| | 91 | 32.5 | 7.2 | 5.4 | 7.4 | 5.6 | 7.9 | 5.5 | 8.2 | 5.6 | 8.4 | 5.8 | 8.9 | 5.7 | 9.4 | 5.7 |
| | 95 | 35.0 | 7.1 | 5.4 | 7.2 | 5.5 | 7.7 | 5.4 | 8.0 | 5.6 | 8.2 | 5.8 | 8.7 | 5.7 | 9.2 | 5.6 |
| | 100 | 37.5 | 7.0 | 5.3 | 7.1 | 5.4 | 7.6 | 5.4 | 7.8 | 5.5 | 8.1 | 5.7 | 8.6 | 5.6 | 9.1 | 5.5 |
| | 104 | 40.0 | 6.9 | 5.3 | 6.9 | 5.3 | 7.4 | 5.3 | 7.6 | 5.4 | 8.7 | 6.0 | 8.4 | 5.5 | 8.8 | 5.5 |
| 110 | 43.0 | 6.7 | 5.2 | 6.7 | 5.2 | 7.2 | 5.2 | 7.4 | 5.3 | 7.6 | 5.5 | 8.1 | 5.5 | 8.6 | 5.4 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 80 (9.0) | 68 | 20.0 | 8.7 | 6.2 | 9.0 | 6.4 | 9.7 | 6.4 | 10.1 | 6.5 | 10.4 | 6.7 | 11.0 | 6.6 | 11.7 | 6.5 |
| | 73 | 22.5 | 8.7 | 6.2 | 9.0 | 6.4 | 9.6 | 6.3 | 9.9 | 6.4 | 10.2 | 6.6 | 10.8 | 6.5 | 11.5 | 6.4 |
| | 77 | 25.0 | 8.6 | 6.1 | 8.8 | 6.3 | 9.4 | 6.2 | 9.7 | 6.3 | 10.0 | 6.5 | 10.6 | 6.4 | 11.3 | 6.3 |
| | 82 | 27.5 | 8.4 | 6.0 | 8.6 | 6.2 | 9.2 | 6.1 | 9.5 | 6.2 | 9.8 | 6.5 | 10.4 | 6.4 | 11.0 | 6.3 |
| | 86 | 30.0 | 8.3 | 6.0 | 8.5 | 6.1 | 9.0 | 6.1 | 9.4 | 6.1 | 9.6 | 6.4 | 10.3 | 6.3 | 10.8 | 6.2 |
| | 91 | 32.5 | 8.1 | 5.9 | 8.3 | 6.0 | 8.9 | 6.0 | 9.2 | 6.1 | 9.5 | 6.3 | 10.0 | 6.2 | 10.6 | 6.1 |
| | 95 | 35.0 | 8.0 | 5.8 | 8.1 | 5.9 | 8.6 | 5.9 | 9.0 | 6.0 | 9.3 | 6.2 | 9.8 | 6.1 | 10.4 | 6.0 |
| | 100 | 37.5 | 7.9 | 5.8 | 8.0 | 5.8 | 8.5 | 5.8 | 8.8 | 5.9 | 9.1 | 6.1 | 9.6 | 6.0 | 10.2 | 5.9 |
| | 104 | 40.0 | 7.8 | 5.7 | 7.8 | 5.8 | 8.3 | 5.7 | 8.6 | 5.8 | 9.8 | 6.4 | 9.4 | 6.0 | 9.9 | 5.8 |
| | 110 | 43.0 | 7.6 | 5.6 | 7.6 | 5.6 | 8.1 | 5.6 | 8.4 | 5.7 | 8.6 | 5.9 | 9.1 | 5.8 | 9.7 | 5.8 |
| 100 (11.2) | 68 | 20.0 | 10.9 | 8.4 | 11.3 | 8.7 | 12.1 | 8.7 | 12.5 | 8.8 | 12.9 | 9.2 | 13.7 | 9.1 | 14.6 | 8.9 |
| | 73 | 22.5 | 10.8 | 8.4 | 11.2 | 8.7 | 11.9 | 8.6 | 12.3 | 8.8 | 12.7 | 9.1 | 13.5 | 9.0 | 14.3 | 8.8 |
| | 77 | 25.0 | 10.7 | 8.3 | 11.0 | 8.6 | 11.7 | 8.5 | 12.1 | 8.7 | 12.5 | 9.0 | 13.2 | 8.9 | 14.0 | 8.7 |
| | 82 | 27.5 | 10.5 | 8.2 | 10.8 | 8.5 | 11.5 | 8.4 | 11.9 | 8.6 | 12.2 | 8.9 | 13.0 | 8.8 | 13.7 | 8.7 |
| | 86 | 30.0 | 10.3 | 8.1 | 10.5 | 8.4 | 11.3 | 8.3 | 11.6 | 8.5 | 12.0 | 8.8 | 12.8 | 8.7 | 13.4 | 8.6 |
| | 91 | 32.5 | 10.1 | 8.1 | 10.4 | 8.3 | 11.0 | 8.2 | 11.4 | 8.4 | 11.8 | 8.7 | 12.4 | 8.6 | 13.2 | 8.5 |
| | 95 | 35.0 | 10.0 | 8.0 | 10.1 | 8.2 | 10.8 | 8.1 | 11.2 | 8.3 | 11.5 | 8.6 | 12.2 | 8.5 | 12.9 | 8.4 |
| | 100 | 37.5 | 9.9 | 7.9 | 9.9 | 8.1 | 10.6 | 8.0 | 10.9 | 8.2 | 11.3 | 8.5 | 12.0 | 8.4 | 12.7 | 8.3 |
| | 104 | 40.0 | 9.7 | 7.8 | 9.7 | 8.0 | 10.4 | 7.9 | 10.7 | 8.1 | 12.2 | 8.9 | 11.7 | 8.3 | 12.4 | 8.2 |
| | 110 | 43.0 | 9.4 | 7.7 | 9.4 | 7.8 | 10.1 | 7.8 | 10.4 | 8.0 | 10.7 | 8.3 | 11.4 | 8.2 | 12.0 | 8.1 |
| 125 (14.0) | 68 | 20.0 | 13.6 | 10.3 | 14.1 | 10.6 | 15.1 | 10.6 | 15.7 | 10.8 | 16.2 | 11.2 | 17.2 | 11.1 | 18.2 | 10.9 |
| | 73 | 22.5 | 13.5 | 10.3 | 14.0 | 10.6 | 14.9 | 10.5 | 15.4 | 10.7 | 15.9 | 11.1 | 16.8 | 11.0 | 17.9 | 10.8 |
| | 77 | 25.0 | 13.4 | 10.2 | 13.7 | 10.5 | 14.6 | 10.4 | 15.1 | 10.6 | 15.6 | 11.0 | 16.5 | 10.8 | 17.5 | 10.7 |
| | 82 | 27.5 | 13.1 | 10.1 | 13.4 | 10.3 | 14.4 | 10.3 | 14.8 | 10.5 | 15.3 | 10.9 | 16.2 | 10.7 | 17.2 | 10.6 |
| | 86 | 30.0 | 12.9 | 10.0 | 13.2 | 10.2 | 14.1 | 10.2 | 14.6 | 10.4 | 15.0 | 10.7 | 16.0 | 10.6 | 16.8 | 10.4 |
| | 91 | 32.5 | 12.7 | 9.9 | 13.0 | 10.1 | 13.8 | 10.0 | 14.3 | 10.2 | 14.7 | 10.6 | 15.5 | 10.5 | 16.5 | 10.3 |
| | 95 | 35.0 | 12.5 | 9.8 | 12.7 | 10.0 | 13.4 | 9.9 | 14.0 | 10.1 | 14.4 | 10.5 | 15.3 | 10.4 | 16.2 | 10.2 |
| | 100 | 37.5 | 12.3 | 9.7 | 12.4 | 9.9 | 13.2 | 9.8 | 13.7 | 10.0 | 14.1 | 10.4 | 15.0 | 10.3 | 15.8 | 10.1 |
| | 104 | 40.0 | 12.1 | 9.6 | 12.1 | 9.7 | 13.0 | 9.7 | 13.4 | 9.9 | 15.2 | 10.8 | 14.6 | 10.1 | 15.5 | 10.0 |
| | 110 | 43.0 | 11.8 | 9.4 | 11.8 | 9.6 | 12.6 | 9.5 | 13.0 | 9.7 | 13.4 | 10.1 | 14.2 | 10.0 | 15.1 | 9.8 |
| 140 (16.0) | 68 | 20.0 | 15.5 | 11.4 | 16.1 | 11.8 | 17.3 | 11.8 | 17.9 | 12.0 | 18.5 | 12.4 | 19.6 | 12.3 | 20.8 | 12.1 |
| | 73 | 22.5 | 15.4 | 11.4 | 16.0 | 11.8 | 17.0 | 11.7 | 17.6 | 11.8 | 18.2 | 12.3 | 19.2 | 12.1 | 20.4 | 11.9 |
| | 77 | 25.0 | 15.3 | 11.3 | 15.7 | 11.6 | 16.7 | 11.5 | 17.3 | 11.7 | 17.8 | 12.1 | 18.9 | 12.0 | 20.0 | 11.8 |
| | 82 | 27.5 | 15.0 | 11.2 | 15.4 | 11.5 | 16.4 | 11.4 | 17.0 | 11.6 | 17.5 | 12.0 | 18.5 | 11.8 | 19.6 | 11.6 |
| | 86 | 30.0 | 14.7 | 11.0 | 15.0 | 11.3 | 16.1 | 11.2 | 16.6 | 11.4 | 17.1 | 11.9 | 18.2 | 11.7 | 19.2 | 11.5 |
| | 91 | 32.5 | 14.5 | 10.9 | 14.8 | 11.2 | 15.8 | 11.1 | 16.3 | 11.3 | 16.8 | 11.7 | 17.8 | 11.5 | 18.8 | 11.4 |
| | 95 | 35.0 | 14.2 | 10.8 | 14.5 | 11.0 | 15.4 | 10.9 | 16.0 | 11.2 | 16.5 | 11.6 | 17.4 | 11.4 | 18.5 | 11.2 |
| | 100 | 37.5 | 14.1 | 10.7 | 14.2 | 10.9 | 15.1 | 10.8 | 15.6 | 11.0 | 16.2 | 11.5 | 17.1 | 11.3 | 18.1 | 11.1 |
| | 104 | 40.0 | 13.8 | 10.6 | 13.8 | 10.7 | 14.8 | 10.7 | 15.3 | 10.9 | 17.4 | 12.0 | 16.7 | 11.2 | 17.7 | 11.0 |
| | 110 | 43.0 | 13.4 | 10.4 | 13.4 | 10.5 | 14.4 | 10.5 | 14.9 | 10.7 | 15.3 | 11.1 | 16.2 | 11.0 | 17.2 | 10.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PEFY-P-VMM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 55 | 12.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.0 |
| | 5 | -15.0 | 3.8 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.4 | 4.4 | 4.3 | 4.0 |
| | 23 | -5.0 | 5.0 | 5.0 | 4.7 | 4.0 |
| | 32 | 0.0 | 5.7 | 5.7 | 4.7 | 4.0 |
| | 37 | 2.5 | 6.0 | 6.0 | 4.7 | 4.0 |
| | 43 | 6.0 | 6.5 | 6.3 | 4.7 | 4.0 |
| | 46 | 7.5 | 6.7 | 6.3 | 4.7 | 4.0 |
| | 50 | 10.0 | 7.0 | 6.3 | 4.7 | 4.0 |
| | 55 | 12.5 | 7.2 | 6.3 | 4.7 | 4.0 |
| 60 | 15.5 | 7.2 | 6.3 | 4.7 | 4.0 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 55 | 12.5 | 9.2 | 8.0 | 6.0 | 5.1 |
| 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 | |
| 71 (8.0) | -4 | -20.0 | 4.7 | 4.5 | 4.5 | 4.3 |
| | 5 | -15.0 | 5.4 | 5.4 | 5.4 | 5.2 |
| | 14 | -10.0 | 6.3 | 6.3 | 6.2 | 5.8 |
| | 23 | -5.0 | 7.2 | 7.2 | 6.8 | 5.8 |
| | 32 | 0.0 | 8.1 | 8.1 | 6.8 | 5.8 |
| | 37 | 2.5 | 8.6 | 8.5 | 6.8 | 5.8 |
| | 43 | 6.0 | 9.2 | 9.0 | 6.8 | 5.8 |
| | 46 | 7.5 | 9.5 | 9.0 | 6.8 | 5.8 |
| | 50 | 10.0 | 9.9 | 9.0 | 6.8 | 5.8 |
| | 55 | 12.5 | 10.4 | 9.0 | 6.8 | 5.8 |
| 60 | 15.5 | 10.4 | 9.0 | 6.8 | 5.8 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 4.8 |
| | 5 | -15.0 | 6.0 | 6.0 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.0 | 7.0 | 6.9 | 6.4 |
| | 23 | -5.0 | 8.0 | 8.0 | 7.5 | 6.4 |
| | 32 | 0.0 | 9.0 | 9.0 | 7.5 | 6.4 |
| | 37 | 2.5 | 9.6 | 9.5 | 7.5 | 6.4 |
| | 43 | 6.0 | 10.3 | 10.0 | 7.5 | 6.4 |
| | 46 | 7.5 | 10.6 | 10.0 | 7.5 | 6.4 |
| | 50 | 10.0 | 11.1 | 10.0 | 7.5 | 6.4 |
| | 55 | 12.5 | 11.5 | 10.0 | 7.5 | 6.4 |
| 60 | 15.5 | 11.5 | 10.0 | 7.5 | 6.4 | |
| 100 (11.2) | -4 | -20.0 | 6.5 | 6.3 | 6.3 | 6.0 |
| | 5 | -15.0 | 7.5 | 7.5 | 7.5 | 7.3 |
| | 14 | -10.0 | 8.8 | 8.8 | 8.6 | 8.0 |
| | 23 | -5.0 | 10.0 | 10.0 | 9.4 | 8.0 |
| | 32 | 0.0 | 11.3 | 11.3 | 9.4 | 8.0 |
| | 37 | 2.5 | 11.9 | 11.8 | 9.4 | 8.0 |
| | 43 | 6.0 | 12.8 | 12.5 | 9.4 | 8.0 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.4 | 8.0 |
| | 50 | 10.0 | 13.8 | 12.5 | 9.4 | 8.0 |
| | 55 | 12.5 | 14.4 | 12.5 | 9.4 | 8.0 |
| 60 | 15.5 | 14.4 | 12.5 | 9.4 | 8.0 | |
| 125 (14.0) | -4 | -20.0 | 8.3 | 8.0 | 8.0 | 7.7 |
| | 5 | -15.0 | 9.6 | 9.6 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.2 | 11.2 | 11.0 | 10.2 |
| | 23 | -5.0 | 12.8 | 12.8 | 12.0 | 10.2 |
| | 32 | 0.0 | 14.4 | 14.4 | 12.0 | 10.2 |
| | 37 | 2.5 | 15.3 | 15.1 | 12.0 | 10.2 |
| | 43 | 6.0 | 16.4 | 16.0 | 12.0 | 10.2 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.0 | 10.2 |
| | 50 | 10.0 | 17.7 | 16.0 | 12.0 | 10.2 |
| | 55 | 12.5 | 18.4 | 16.0 | 12.0 | 10.2 |
| 60 | 15.5 | 18.4 | 16.0 | 12.0 | 10.2 | |
| 140 (16.0) | -4 | -20.0 | 9.4 | 9.0 | 9.0 | 8.6 |
| | 5 | -15.0 | 10.8 | 10.8 | 10.8 | 10.4 |
| | 14 | -10.0 | 12.6 | 12.6 | 12.3 | 11.5 |
| | 23 | -5.0 | 14.4 | 14.4 | 13.5 | 11.5 |
| | 32 | 0.0 | 16.2 | 16.2 | 13.5 | 11.5 |
| | 37 | 2.5 | 17.2 | 17.0 | 13.5 | 11.5 |
| | 43 | 6.0 | 18.5 | 18.0 | 13.5 | 11.5 |
| | 46 | 7.5 | 19.1 | 18.0 | 13.5 | 11.5 |
| | 50 | 10.0 | 19.9 | 18.0 | 13.5 | 11.5 |
| | 55 | 12.5 | 20.7 | 18.0 | 13.5 | 11.5 |
| 60 | 15.5 | 20.7 | 18.0 | 13.5 | 11.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 82 | 27.5 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.0 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| 110 | 43.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 73 | 22.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 77 | 25.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.0 | 2.9 | 2.1 | 3.1 | 2.2 | 3.2 | 2.1 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 91 | 32.5 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 95 | 35.0 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.7 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| 110 | 43.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.0 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | 4.0 | 2.8 | 4.2 | 2.7 | 4.5 | 2.7 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.6 | 4.0 | 2.7 | 4.2 | 2.7 | 4.5 | 2.7 |
| | 77 | 25.0 | 3.3 | 2.5 | 3.4 | 2.6 | 3.7 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.2 | 2.7 | 4.4 | 2.7 |
| | 82 | 27.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.7 | 4.1 | 2.7 | 4.3 | 2.6 |
| | 86 | 30.0 | 3.3 | 2.5 | 3.3 | 2.6 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.7 | 4.1 | 2.7 | 4.4 | 2.6 |
| | 91 | 32.5 | 3.2 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.8 | 2.7 | 4.1 | 2.7 | 4.3 | 2.6 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.5 | 3.7 | 2.7 | 4.0 | 2.6 | 4.3 | 2.6 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.5 | 3.5 | 2.5 | 3.5 | 2.5 | 3.7 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 |
| | 104 | 40.0 | 3.1 | 2.4 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 |
| 110 | 43.0 | 3.1 | 2.4 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.9 | 2.6 | 4.2 | 2.6 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.3 | 4.4 | 3.4 | 4.7 | 3.4 | 4.8 | 3.4 | 5.0 | 3.6 | 5.3 | 3.5 | 5.7 | 3.5 |
| | 73 | 22.5 | 4.2 | 3.3 | 4.3 | 3.4 | 4.6 | 3.3 | 4.8 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.6 | 3.5 |
| | 77 | 25.0 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.7 | 3.4 | 4.9 | 3.5 | 5.2 | 3.5 | 5.6 | 3.4 |
| | 82 | 27.5 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.3 | 4.7 | 3.4 | 4.9 | 3.5 | 5.2 | 3.5 | 5.4 | 3.4 |
| | 86 | 30.0 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.3 | 4.6 | 3.3 | 4.8 | 3.5 | 5.1 | 3.4 | 5.4 | 3.4 |
| | 91 | 32.5 | 4.1 | 3.2 | 4.1 | 3.3 | 4.4 | 3.2 | 4.5 | 3.3 | 4.8 | 3.5 | 5.1 | 3.4 | 5.4 | 3.4 |
| | 95 | 35.0 | 4.0 | 3.2 | 4.1 | 3.2 | 4.4 | 3.2 | 4.5 | 3.3 | 4.7 | 3.4 | 5.0 | 3.4 | 5.4 | 3.4 |
| | 100 | 37.5 | 4.0 | 3.1 | 4.0 | 3.2 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.4 | 5.0 | 3.4 | 5.3 | 3.4 |
| | 104 | 40.0 | 3.9 | 3.1 | 4.0 | 3.2 | 4.3 | 3.2 | 4.4 | 3.2 | 4.6 | 3.4 | 5.0 | 3.4 | 5.3 | 3.3 |
| 110 | 43.0 | 3.9 | 3.1 | 3.9 | 3.2 | 4.2 | 3.2 | 4.3 | 3.2 | 4.5 | 3.4 | 4.9 | 3.3 | 5.2 | 3.3 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.8 | 4.1 | 6.0 | 4.1 | 6.2 | 4.3 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 73 | 22.5 | 5.3 | 4.0 | 5.4 | 4.1 | 5.8 | 4.1 | 5.9 | 4.1 | 6.2 | 4.3 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 77 | 25.0 | 5.2 | 3.9 | 5.3 | 4.1 | 5.7 | 4.0 | 5.9 | 4.1 | 6.1 | 4.3 | 6.5 | 4.2 | 6.9 | 4.2 |
| | 82 | 27.5 | 5.2 | 3.9 | 5.3 | 4.0 | 5.7 | 4.0 | 5.8 | 4.1 | 6.0 | 4.2 | 6.4 | 4.2 | 6.7 | 4.1 |
| | 86 | 30.0 | 5.1 | 3.9 | 5.2 | 4.0 | 5.6 | 4.0 | 5.8 | 4.0 | 6.0 | 4.2 | 6.4 | 4.2 | 6.8 | 4.1 |
| | 91 | 32.5 | 5.0 | 3.9 | 5.2 | 4.0 | 5.5 | 3.9 | 5.7 | 4.0 | 5.9 | 4.2 | 6.3 | 4.2 | 6.7 | 4.1 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.1 | 3.9 | 5.5 | 3.9 | 5.6 | 4.0 | 5.8 | 4.2 | 6.3 | 4.1 | 6.7 | 4.1 |
| | 100 | 37.5 | 4.9 | 3.8 | 5.0 | 3.9 | 5.4 | 3.9 | 5.5 | 3.9 | 5.8 | 4.1 | 6.2 | 4.1 | 6.6 | 4.1 |
| | 104 | 40.0 | 4.8 | 3.8 | 5.0 | 3.9 | 5.3 | 3.9 | 5.4 | 3.9 | 5.7 | 4.1 | 6.2 | 4.1 | 6.6 | 4.0 |
| 110 | 43.0 | 4.8 | 3.8 | 4.9 | 3.8 | 5.3 | 3.8 | 5.4 | 3.9 | 5.7 | 4.1 | 6.0 | 4.0 | 6.5 | 4.0 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.0 | 6.9 | 5.1 | 7.4 | 5.1 | 7.6 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 8.9 | 5.3 |
| | 73 | 22.5 | 6.7 | 5.0 | 6.9 | 5.1 | 7.3 | 5.1 | 7.5 | 5.1 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 77 | 25.0 | 6.6 | 4.9 | 6.8 | 5.1 | 7.2 | 5.0 | 7.5 | 5.1 | 7.7 | 5.3 | 8.2 | 5.3 | 8.8 | 5.2 |
| | 82 | 27.5 | 6.5 | 4.9 | 6.7 | 5.0 | 7.2 | 5.0 | 7.4 | 5.1 | 7.7 | 5.3 | 8.2 | 5.2 | 8.5 | 5.1 |
| | 86 | 30.0 | 6.5 | 4.9 | 6.6 | 5.0 | 7.1 | 5.0 | 7.3 | 5.1 | 7.6 | 5.3 | 8.1 | 5.2 | 8.6 | 5.1 |
| | 91 | 32.5 | 6.4 | 4.8 | 6.5 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.5 | 5.2 | 8.0 | 5.2 | 8.5 | 5.1 |
| | 95 | 35.0 | 6.3 | 4.8 | 6.4 | 4.9 | 6.9 | 4.9 | 7.1 | 5.0 | 7.4 | 5.2 | 8.0 | 5.2 | 8.4 | 5.1 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 7.0 | 4.9 | 7.3 | 5.2 | 7.8 | 5.1 | 8.4 | 5.1 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.3 | 4.8 | 6.8 | 4.8 | 6.9 | 4.9 | 7.2 | 5.1 | 7.8 | 5.1 | 8.3 | 5.0 |
| 110 | 43.0 | 6.1 | 4.7 | 6.2 | 4.8 | 6.7 | 4.8 | 6.8 | 4.9 | 7.2 | 5.1 | 7.7 | 5.1 | 8.2 | 5.0 | |
| 71 (8.0) | 68 | 20.0 | 7.6 | 5.6 | 7.8 | 5.8 | 8.3 | 5.7 | 8.6 | 5.8 | 8.9 | 6.1 | 9.4 | 6.0 | 10.1 | 5.9 |
| | 73 | 22.5 | 7.5 | 5.6 | 7.7 | 5.7 | 8.2 | 5.7 | 8.5 | 5.8 | 8.8 | 6.0 | 9.4 | 5.9 | 10.0 | 5.9 |
| | 77 | 25.0 | 7.4 | 5.5 | 7.6 | 5.7 | 8.2 | 5.6 | 8.4 | 5.7 | 8.7 | 6.0 | 9.3 | 5.9 | 9.9 | 5.8 |
| | 82 | 27.5 | 7.4 | 5.5 | 7.5 | 5.6 | 8.1 | 5.6 | 8.3 | 5.7 | 8.6 | 5.9 | 9.2 | 5.9 | 9.6 | 5.7 |
| | 86 | 30.0 | 7.3 | 5.5 | 7.4 | 5.6 | 8.0 | 5.6 | 8.2 | 5.7 | 8.6 | 5.9 | 9.1 | 5.8 | 9.7 | 5.8 |
| | 91 | 32.5 | 7.2 | 5.4 | 7.4 | 5.5 | 7.8 | 5.5 | 8.1 | 5.6 | 8.5 | 5.9 | 9.0 | 5.8 | 9.6 | 5.7 |
| | 95 | 35.0 | 7.1 | 5.4 | 7.2 | 5.5 | 7.8 | 5.5 | 8.0 | 5.6 | 8.3 | 5.8 | 9.0 | 5.8 | 9.5 | 5.7 |
| | 100 | 37.5 | 7.0 | 5.3 | 7.2 | 5.5 | 7.7 | 5.4 | 7.9 | 5.5 | 8.3 | 5.8 | 8.8 | 5.7 | 9.4 | 5.7 |
| | 104 | 40.0 | 6.9 | 5.3 | 7.1 | 5.4 | 7.6 | 5.4 | 7.8 | 5.5 | 8.2 | 5.7 | 8.8 | 5.7 | 9.4 | 5.6 |
| 110 | 43.0 | 6.9 | 5.3 | 7.0 | 5.4 | 7.5 | 5.4 | 7.7 | 5.4 | 8.1 | 5.7 | 8.6 | 5.7 | 9.3 | 5.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.5 | 6.1 | 8.8 | 6.2 | 9.4 | 6.2 | 9.6 | 6.3 | 10.0 | 6.5 | 10.6 | 6.4 | 11.3 | 6.4 |
| | 73 | 22.5 | 8.5 | 6.1 | 8.7 | 6.2 | 9.3 | 6.2 | 9.5 | 6.2 | 9.9 | 6.5 | 10.6 | 6.4 | 11.2 | 6.3 |
| | 77 | 25.0 | 8.4 | 6.0 | 8.6 | 6.2 | 9.2 | 6.1 | 9.5 | 6.2 | 9.8 | 6.4 | 10.4 | 6.4 | 11.1 | 6.3 |
| | 82 | 27.5 | 8.3 | 6.0 | 8.5 | 6.1 | 9.1 | 6.1 | 9.4 | 6.1 | 9.7 | 6.4 | 10.4 | 6.3 | 10.8 | 6.2 |
| | 86 | 30.0 | 8.2 | 5.9 | 8.4 | 6.0 | 9.0 | 6.0 | 9.3 | 6.1 | 9.6 | 6.4 | 10.3 | 6.3 | 10.9 | 6.2 |
| | 91 | 32.5 | 8.1 | 5.9 | 8.3 | 6.0 | 8.8 | 6.0 | 9.1 | 6.0 | 9.5 | 6.3 | 10.2 | 6.3 | 10.8 | 6.2 |
| | 95 | 35.0 | 8.0 | 5.8 | 8.1 | 5.9 | 8.8 | 5.9 | 9.0 | 6.0 | 9.4 | 6.2 | 10.1 | 6.2 | 10.7 | 6.1 |
| | 100 | 37.5 | 7.9 | 5.8 | 8.1 | 5.9 | 8.6 | 5.9 | 8.9 | 5.9 | 9.3 | 6.2 | 9.9 | 6.2 | 10.6 | 6.1 |
| | 104 | 40.0 | 7.8 | 5.7 | 8.0 | 5.8 | 8.6 | 5.8 | 8.7 | 5.9 | 9.2 | 6.2 | 9.9 | 6.1 | 10.5 | 6.1 |
| 110 | 43.0 | 7.7 | 5.7 | 7.9 | 5.8 | 8.5 | 5.8 | 8.6 | 5.8 | 9.1 | 6.1 | 9.7 | 6.1 | 10.4 | 6.0 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 8.3 | 10.9 | 8.5 | 11.6 | 8.5 | 12.0 | 8.6 | 12.5 | 9.0 | 13.2 | 8.9 | 14.1 | 8.8 |
| | 73 | 22.5 | 10.5 | 8.2 | 10.8 | 8.5 | 11.5 | 8.4 | 11.9 | 8.6 | 12.3 | 8.9 | 13.2 | 8.9 | 13.9 | 8.7 |
| | 77 | 25.0 | 10.4 | 8.2 | 10.7 | 8.4 | 11.4 | 8.4 | 11.8 | 8.5 | 12.2 | 8.9 | 13.0 | 8.8 | 13.8 | 8.7 |
| | 82 | 27.5 | 10.3 | 8.1 | 10.5 | 8.4 | 11.3 | 8.3 | 11.6 | 8.5 | 12.1 | 8.9 | 12.9 | 8.8 | 13.4 | 8.6 |
| | 86 | 30.0 | 10.2 | 8.1 | 10.4 | 8.3 | 11.2 | 8.3 | 11.5 | 8.4 | 12.0 | 8.8 | 12.8 | 8.7 | 13.6 | 8.6 |
| | 91 | 32.5 | 10.1 | 8.0 | 10.3 | 8.3 | 11.0 | 8.2 | 11.3 | 8.3 | 11.9 | 8.8 | 12.7 | 8.7 | 13.4 | 8.6 |
| | 95 | 35.0 | 10.0 | 8.0 | 10.1 | 8.2 | 10.9 | 8.2 | 11.2 | 8.3 | 11.6 | 8.7 | 12.5 | 8.6 | 13.3 | 8.5 |
| | 100 | 37.5 | 9.9 | 7.9 | 10.0 | 8.1 | 10.8 | 8.1 | 11.0 | 8.2 | 11.6 | 8.7 | 12.4 | 8.6 | 13.2 | 8.5 |
| | 104 | 40.0 | 9.7 | 7.8 | 9.9 | 8.1 | 10.7 | 8.1 | 10.9 | 8.2 | 11.4 | 8.6 | 12.3 | 8.6 | 13.1 | 8.4 |
| 110 | 43.0 | 9.6 | 7.8 | 9.8 | 8.0 | 10.5 | 8.0 | 10.8 | 8.1 | 11.3 | 8.5 | 12.1 | 8.5 | 13.0 | 8.4 | |
| 125 (14.0) | 68 | 20.0 | 13.2 | 10.1 | 13.7 | 10.4 | 14.6 | 10.4 | 15.0 | 10.5 | 15.6 | 11.0 | 16.5 | 10.8 | 17.6 | 10.7 |
| | 73 | 22.5 | 13.2 | 10.1 | 13.5 | 10.4 | 14.4 | 10.3 | 14.8 | 10.5 | 15.4 | 10.9 | 16.5 | 10.8 | 17.4 | 10.7 |
| | 77 | 25.0 | 13.0 | 10.0 | 13.4 | 10.3 | 14.3 | 10.2 | 14.7 | 10.4 | 15.3 | 10.9 | 16.2 | 10.7 | 17.3 | 10.6 |
| | 82 | 27.5 | 12.9 | 10.0 | 13.2 | 10.2 | 14.1 | 10.2 | 14.6 | 10.4 | 15.1 | 10.8 | 16.1 | 10.7 | 16.8 | 10.4 |
| | 86 | 30.0 | 12.7 | 9.9 | 13.0 | 10.1 | 14.0 | 10.1 | 14.4 | 10.3 | 15.0 | 10.7 | 16.0 | 10.6 | 16.9 | 10.5 |
| | 91 | 32.5 | 12.6 | 9.8 | 12.9 | 10.1 | 13.7 | 10.0 | 14.1 | 10.2 | 14.8 | 10.7 | 15.8 | 10.6 | 16.8 | 10.4 |
| | 95 | 35.0 | 12.5 | 9.8 | 12.7 | 10.0 | 13.7 | 10.0 | 14.0 | 10.1 | 14.6 | 10.6 | 15.7 | 10.5 | 16.7 | 10.4 |
| | 100 | 37.5 | 12.3 | 9.7 | 12.6 | 9.9 | 13.4 | 9.9 | 13.8 | 10.0 | 14.5 | 10.5 | 15.5 | 10.4 | 16.5 | 10.3 |
| | 104 | 40.0 | 12.1 | 9.6 | 12.4 | 9.9 | 13.4 | 9.9 | 13.6 | 9.9 | 14.3 | 10.5 | 15.4 | 10.4 | 16.4 | 10.3 |
| 110 | 43.0 | 12.0 | 9.6 | 12.3 | 9.8 | 13.2 | 9.8 | 13.4 | 9.9 | 14.1 | 10.4 | 15.1 | 10.3 | 16.2 | 10.2 | |
| 140 (16.0) | 68 | 20.0 | 15.1 | 11.2 | 15.6 | 11.6 | 16.6 | 11.5 | 17.1 | 11.6 | 17.8 | 12.2 | 18.9 | 12.0 | 20.2 | 11.9 |
| | 73 | 22.5 | 15.0 | 11.2 | 15.4 | 11.5 | 16.5 | 11.4 | 17.0 | 11.6 | 17.6 | 12.1 | 18.8 | 12.0 | 19.9 | 11.8 |
| | 77 | 25.0 | 14.9 | 11.1 | 15.3 | 11.4 | 16.3 | 11.3 | 16.8 | 11.5 | 17.4 | 12.0 | 18.6 | 11.9 | 19.8 | 11.7 |
| | 82 | 27.5 | 14.7 | 11.0 | 15.0 | 11.3 | 16.2 | 11.3 | 16.6 | 11.4 | 17.3 | 11.9 | 18.4 | 11.8 | 19.2 | 11.5 |
| | 86 | 30.0 | 14.6 | 11.0 | 14.9 | 11.2 | 16.0 | 11.2 | 16.5 | 11.4 | 17.1 | 11.9 | 18.2 | 11.7 | 19.4 | 11.6 |
| | 91 | 32.5 | 14.4 | 10.9 | 14.7 | 11.1 | 15.7 | 11.1 | 16.2 | 11.2 | 17.0 | 11.8 | 18.1 | 11.7 | 19.2 | 11.5 |
| | 95 | 35.0 | 14.2 | 10.8 | 14.5 | 11.0 | 15.6 | 11.0 | 16.0 | 11.2 | 16.6 | 11.7 | 17.9 | 11.6 | 19.0 | 11.4 |
| | 100 | 37.5 | 14.1 | 10.7 | 14.4 | 11.0 | 15.4 | 10.9 | 15.8 | 11.1 | 16.6 | 11.6 | 17.7 | 11.5 | 18.9 | 11.4 |
| | 104 | 40.0 | 13.8 | 10.6 | 14.2 | 10.9 | 15.3 | 10.9 | 15.5 | 11.0 | 16.3 | 11.5 | 17.6 | 11.5 | 18.7 | 11.3 |
| 110 | 43.0 | 13.8 | 10.6 | 14.0 | 10.8 | 15.0 | 10.8 | 15.4 | 10.9 | 16.2 | 11.5 | 17.3 | 11.4 | 18.6 | 11.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PEFY-P-VMM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.5 | 4.4 | 4.3 | 4.2 |
| | 23 | -5.0 | 5.2 | 5.0 | 4.9 | 4.4 |
| | 32 | 0.0 | 5.8 | 5.7 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.0 | 6.0 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.5 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.7 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.0 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.3 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 7.3 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |
| 71 (8.0) | -4 | -20.0 | 4.8 | 4.6 | 4.6 | 4.5 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.4 | 5.2 |
| | 14 | -10.0 | 6.5 | 6.3 | 6.1 | 5.9 |
| | 23 | -5.0 | 7.4 | 7.2 | 6.9 | 6.3 |
| | 32 | 0.0 | 8.3 | 8.1 | 7.2 | 6.3 |
| | 37 | 2.5 | 8.6 | 8.6 | 7.2 | 6.3 |
| | 43 | 6.0 | 9.3 | 9.0 | 7.2 | 6.3 |
| | 46 | 7.5 | 9.5 | 9.0 | 7.2 | 6.3 |
| | 50 | 10.0 | 10.0 | 9.0 | 7.2 | 6.3 |
| | 55 | 12.5 | 10.4 | 9.0 | 7.2 | 6.3 |
| 60 | 15.5 | 10.4 | 9.0 | 7.2 | 6.3 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.3 | 5.1 | 5.1 | 5.0 |
| | 5 | -15.0 | 6.3 | 6.1 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.2 | 7.0 | 6.8 | 6.6 |
| | 23 | -5.0 | 8.2 | 8.0 | 7.7 | 7.1 |
| | 32 | 0.0 | 9.2 | 9.0 | 8.0 | 7.1 |
| | 37 | 2.5 | 9.6 | 9.5 | 8.0 | 7.1 |
| | 43 | 6.0 | 10.3 | 10.0 | 8.0 | 7.1 |
| | 46 | 7.5 | 10.6 | 10.0 | 8.0 | 7.1 |
| | 50 | 10.0 | 11.1 | 10.0 | 8.0 | 7.1 |
| | 55 | 12.5 | 11.6 | 10.0 | 8.0 | 7.1 |
| 60 | 15.5 | 11.6 | 10.0 | 8.0 | 7.1 | |
| 100 (11.2) | -4 | -20.0 | 6.6 | 6.4 | 6.4 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.3 |
| | 14 | -10.0 | 9.0 | 8.8 | 8.5 | 8.3 |
| | 23 | -5.0 | 10.3 | 10.0 | 9.6 | 8.8 |
| | 32 | 0.0 | 11.5 | 11.3 | 9.9 | 8.8 |
| | 37 | 2.5 | 12.0 | 11.9 | 9.9 | 8.8 |
| | 43 | 6.0 | 12.9 | 12.5 | 9.9 | 8.8 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.9 | 8.8 |
| | 50 | 10.0 | 13.9 | 12.5 | 9.9 | 8.8 |
| | 55 | 12.5 | 14.5 | 12.5 | 9.9 | 8.8 |
| 60 | 15.5 | 14.5 | 12.5 | 9.9 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.5 | 8.2 | 8.2 | 8.0 |
| | 5 | -15.0 | 10.0 | 9.7 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.5 | 11.2 | 10.9 | 10.6 |
| | 23 | -5.0 | 13.1 | 12.8 | 12.3 | 11.3 |
| | 32 | 0.0 | 14.7 | 14.4 | 12.7 | 11.3 |
| | 37 | 2.5 | 15.4 | 15.2 | 12.7 | 11.3 |
| | 43 | 6.0 | 16.5 | 16.0 | 12.7 | 11.3 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.7 | 11.3 |
| | 50 | 10.0 | 17.8 | 16.0 | 12.7 | 11.3 |
| | 55 | 12.5 | 18.6 | 16.0 | 12.7 | 11.3 |
| 60 | 15.5 | 18.6 | 16.0 | 12.7 | 11.3 | |
| 140 (16.0) | -4 | -20.0 | 9.5 | 9.2 | 9.2 | 9.0 |
| | 5 | -15.0 | 11.3 | 10.9 | 10.8 | 10.4 |
| | 14 | -10.0 | 13.0 | 12.6 | 12.2 | 11.9 |
| | 23 | -5.0 | 14.8 | 14.4 | 13.9 | 12.7 |
| | 32 | 0.0 | 16.6 | 16.2 | 14.3 | 12.7 |
| | 37 | 2.5 | 17.3 | 17.1 | 14.3 | 12.7 |
| | 43 | 6.0 | 18.5 | 18.0 | 14.3 | 12.7 |
| | 46 | 7.5 | 19.1 | 18.0 | 14.3 | 12.7 |
| | 50 | 10.0 | 20.0 | 18.0 | 14.3 | 12.7 |
| | 55 | 12.5 | 20.9 | 18.0 | 14.3 | 12.7 |
| 60 | 15.5 | 20.9 | 18.0 | 14.3 | 12.7 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 | 2.9 | 1.9 |
| | 68 | 20.0 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.7 | 1.6 | 1.8 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.7 |
| | 113 | 45.0 | 1.6 | 1.6 | 1.7 | 1.6 | 1.8 | 1.6 | 1.9 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.2 | 1.7 |
| 25 (2.8) | 50 | 10.0 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 68 | 20.0 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.0 | 3.1 | 2.0 |
| | 86 | 30.0 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 1.9 |
| | 104 | 40.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 113 | 45.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.8 | 4.7 | 2.8 |
| | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.7 | 4.5 | 2.7 |
| | 86 | 30.0 | 3.2 | 2.4 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.6 | 4.2 | 2.6 |
| | 104 | 40.0 | 2.9 | 2.3 | 3.0 | 2.4 | 3.2 | 2.4 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.4 |
| | 113 | 45.0 | 2.7 | 2.2 | 2.8 | 2.3 | 3.0 | 2.3 | 3.0 | 2.3 | 3.1 | 2.4 | 3.3 | 2.4 | 3.5 | 2.3 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.4 | 4.6 | 3.5 | 4.9 | 3.5 | 5.1 | 3.5 | 5.2 | 3.7 | 5.6 | 3.6 | 5.9 | 3.6 |
| | 68 | 20.0 | 4.2 | 3.3 | 4.4 | 3.4 | 4.7 | 3.4 | 4.8 | 3.4 | 5.0 | 3.6 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 86 | 30.0 | 3.9 | 3.1 | 4.1 | 3.2 | 4.4 | 3.2 | 4.5 | 3.3 | 4.6 | 3.4 | 4.9 | 3.4 | 5.2 | 3.3 |
| | 104 | 40.0 | 3.6 | 3.0 | 3.7 | 3.1 | 3.9 | 3.0 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.7 | 3.1 |
| | 113 | 45.0 | 3.3 | 2.8 | 3.5 | 3.0 | 3.7 | 2.9 | 3.8 | 3.0 | 3.9 | 3.1 | 4.2 | 3.1 | 4.4 | 3.0 |
| 50 (5.6) | 50 | 10.0 | 5.5 | 4.1 | 5.7 | 4.2 | 6.1 | 4.2 | 6.3 | 4.3 | 6.5 | 4.4 | 6.9 | 4.4 | 7.3 | 4.3 |
| | 68 | 20.0 | 5.3 | 4.0 | 5.4 | 4.1 | 5.8 | 4.1 | 6.0 | 4.1 | 6.2 | 4.3 | 6.6 | 4.2 | 6.9 | 4.2 |
| | 86 | 30.0 | 4.9 | 3.8 | 5.1 | 3.9 | 5.4 | 3.9 | 5.6 | 4.0 | 5.8 | 4.1 | 6.1 | 4.1 | 6.5 | 4.0 |
| | 104 | 40.0 | 4.4 | 3.6 | 4.6 | 3.7 | 4.9 | 3.7 | 5.1 | 3.8 | 5.2 | 3.9 | 5.5 | 3.9 | 5.9 | 3.8 |
| | 113 | 45.0 | 4.2 | 3.4 | 4.3 | 3.6 | 4.6 | 3.5 | 4.7 | 3.6 | 4.9 | 3.8 | 5.2 | 3.7 | 5.5 | 3.7 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 5.2 | 7.3 | 5.3 | 7.8 | 5.3 | 8.0 | 5.4 | 8.3 | 5.6 | 8.8 | 5.5 | 9.3 | 5.4 |
| | 68 | 20.0 | 6.7 | 5.0 | 6.9 | 5.1 | 7.4 | 5.1 | 7.6 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 86 | 30.0 | 6.2 | 4.8 | 6.4 | 4.9 | 6.9 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.8 | 5.1 | 8.2 | 5.0 |
| | 104 | 40.0 | 5.6 | 4.5 | 5.8 | 4.6 | 6.2 | 4.6 | 6.4 | 4.7 | 6.6 | 4.9 | 7.0 | 4.8 | 7.4 | 4.7 |
| | 113 | 45.0 | 5.3 | 4.3 | 5.4 | 4.5 | 5.8 | 4.4 | 6.0 | 4.5 | 6.2 | 4.7 | 6.6 | 4.6 | 6.9 | 4.6 |
| 71 (8.0) | 50 | 10.0 | 7.9 | 5.8 | 8.2 | 6.0 | 8.8 | 5.9 | 9.0 | 6.0 | 9.3 | 6.2 | 9.9 | 6.1 | 10.5 | 6.0 |
| | 68 | 20.0 | 7.5 | 5.6 | 7.8 | 5.7 | 8.3 | 5.7 | 8.6 | 5.8 | 8.8 | 6.0 | 9.4 | 5.9 | 9.9 | 5.8 |
| | 86 | 30.0 | 7.0 | 5.3 | 7.3 | 5.5 | 7.8 | 5.5 | 8.0 | 5.6 | 8.2 | 5.8 | 8.7 | 5.7 | 9.2 | 5.6 |
| | 104 | 40.0 | 6.3 | 5.0 | 6.6 | 5.2 | 7.0 | 5.1 | 7.2 | 5.2 | 7.5 | 5.4 | 7.9 | 5.4 | 8.4 | 5.3 |
| | 113 | 45.0 | 5.9 | 4.8 | 6.1 | 5.0 | 6.6 | 4.9 | 6.8 | 5.0 | 7.0 | 5.3 | 7.4 | 5.2 | 7.8 | 5.1 |
| 80 (9.0) | 50 | 10.0 | 8.9 | 6.3 | 9.2 | 6.5 | 9.9 | 6.4 | 10.2 | 6.5 | 10.5 | 6.7 | 11.1 | 6.7 | 11.8 | 6.5 |
| | 68 | 20.0 | 8.5 | 6.1 | 8.8 | 6.2 | 9.3 | 6.2 | 9.6 | 6.3 | 9.9 | 6.5 | 10.5 | 6.4 | 11.2 | 6.3 |
| | 86 | 30.0 | 7.9 | 5.8 | 8.2 | 5.9 | 8.7 | 5.9 | 9.0 | 6.0 | 9.3 | 6.2 | 9.8 | 6.1 | 10.4 | 6.0 |
| | 104 | 40.0 | 7.1 | 5.4 | 7.4 | 5.6 | 7.9 | 5.5 | 8.1 | 5.6 | 8.4 | 5.8 | 8.9 | 5.8 | 9.4 | 5.7 |
| | 113 | 45.0 | 6.7 | 5.2 | 6.9 | 5.3 | 7.4 | 5.3 | 7.6 | 5.4 | 7.9 | 5.6 | 8.3 | 5.5 | 8.8 | 5.4 |
| 100 (11.2) | 50 | 10.0 | 11.1 | 8.5 | 11.5 | 8.8 | 12.3 | 8.8 | 12.7 | 8.9 | 13.1 | 9.2 | 13.8 | 9.1 | 14.6 | 9.0 |
| | 68 | 20.0 | 10.5 | 8.2 | 10.9 | 8.5 | 11.6 | 8.5 | 12.0 | 8.6 | 12.4 | 9.0 | 13.1 | 8.8 | 13.9 | 8.7 |
| | 86 | 30.0 | 9.8 | 7.9 | 10.2 | 8.2 | 10.9 | 8.1 | 11.2 | 8.3 | 11.5 | 8.6 | 12.2 | 8.5 | 12.9 | 8.4 |
| | 104 | 40.0 | 8.9 | 7.5 | 9.2 | 7.7 | 9.8 | 7.7 | 10.1 | 7.9 | 10.5 | 8.2 | 11.1 | 8.1 | 11.7 | 8.0 |
| | 113 | 45.0 | 8.3 | 7.2 | 8.6 | 7.5 | 9.2 | 7.4 | 9.5 | 7.6 | 9.8 | 7.9 | 10.4 | 7.8 | 11.0 | 7.7 |
| 125 (14.0) | 50 | 10.0 | 13.9 | 10.4 | 14.4 | 10.8 | 15.3 | 10.7 | 15.8 | 10.9 | 16.3 | 11.3 | 17.3 | 11.1 | 18.3 | 11.0 |
| | 68 | 20.0 | 13.1 | 10.1 | 13.6 | 10.4 | 14.5 | 10.4 | 15.0 | 10.5 | 15.5 | 10.9 | 16.4 | 10.8 | 17.3 | 10.6 |
| | 86 | 30.0 | 12.3 | 9.7 | 12.7 | 10.0 | 13.6 | 9.9 | 14.0 | 10.1 | 14.4 | 10.5 | 15.3 | 10.4 | 16.2 | 10.2 |
| | 104 | 40.0 | 11.1 | 9.1 | 11.5 | 9.4 | 12.3 | 9.4 | 12.7 | 9.6 | 13.1 | 10.0 | 13.8 | 9.8 | 14.6 | 9.7 |
| | 113 | 45.0 | 10.4 | 8.8 | 10.7 | 9.1 | 11.5 | 9.0 | 11.8 | 9.3 | 12.2 | 9.6 | 12.9 | 9.5 | 13.7 | 9.4 |
| 140 (16.0) | 50 | 10.0 | 15.9 | 11.6 | 16.4 | 12.0 | 17.5 | 11.9 | 18.1 | 12.1 | 18.7 | 12.5 | 19.8 | 12.3 | 20.9 | 12.1 |
| | 68 | 20.0 | 15.0 | 11.2 | 15.6 | 11.5 | 16.6 | 11.5 | 17.2 | 11.7 | 17.7 | 12.1 | 18.7 | 11.9 | 19.8 | 11.7 |
| | 86 | 30.0 | 14.0 | 10.7 | 14.5 | 11.0 | 15.5 | 11.0 | 16.0 | 11.2 | 16.5 | 11.6 | 17.5 | 11.4 | 18.5 | 11.3 |
| | 104 | 40.0 | 12.7 | 10.1 | 13.1 | 10.4 | 14.0 | 10.3 | 14.5 | 10.5 | 14.9 | 11.0 | 15.8 | 10.8 | 16.7 | 10.6 |
| | 113 | 45.0 | 11.9 | 9.7 | 12.3 | 10.0 | 13.1 | 9.9 | 13.5 | 10.2 | 14.0 | 10.6 | 14.8 | 10.4 | 15.6 | 10.3 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PEFY-P-VMM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °F | °C | SHC | SHC | SHC | SHC | SHC |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 50 (5.6) | 50 | 10 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 68 | 20 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 86 | 30 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 104 | 40 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 113 | 45 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| 71 (8.0) | 50 | 10 | 7.1 | 7.1 | 7.1 | 6.0 | 5.5 |
| | 68 | 20 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 86 | 30 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 104 | 40 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 113 | 45 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| 80 (9.0) | 50 | 10 | 7.9 | 7.9 | 7.9 | 6.7 | 6.1 |
| | 68 | 20 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 86 | 30 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 104 | 40 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 113 | 45 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| 100 (11.2) | 50 | 10 | 9.9 | 9.9 | 9.9 | 8.4 | 7.7 |
| | 68 | 20 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 86 | 30 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 104 | 40 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 113 | 45 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| 125 (14.0) | 50 | 10 | 12.7 | 12.7 | 12.7 | 10.7 | 9.8 |
| | 68 | 20 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 86 | 30 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 104 | 40 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 113 | 45 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| 140 (16.0) | 50 | 10 | 14.2 | 14.2 | 14.2 | 12.1 | 11.0 |
| | 68 | 20 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| | 86 | 30 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| | 104 | 40 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |
| | 113 | 45 | 18.0 | 18.0 | 18.0 | 15.3 | 13.9 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|
| | | | 71°FDB/59°FWB | | 73°FDB/61°FWB | | 77°FDB/64°FWB | | 81°FDB/66°FWB | | 82°FDB/68°FWB | | 86°FDB/72°FWB | | 90°FDB/75°FWB | |
| | | | 21.5°CDB/15°CWB | | 23°CDB/16°CWB | | 25°CDB/18°CWB | | 27°CDB/19°CWB | | 28°CDB/20°CWB | | 30°CDB/22°CWB | | 32°CDB/24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 82 | 27.5 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.3 | 1.8 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.6 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 91 | 32.5 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 1.9 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.5 | 1.9 | 1.6 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.8 | 1.5 | 1.9 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.5 | 1.8 |
| | 110 | 43.0 | 1.8 | 1.5 | 1.8 | 1.5 | 2.0 | 1.6 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.4 | 1.7 |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 | 3.4 | 2.1 |
| | 73 | 22.5 | 2.6 | 1.9 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 77 | 25.0 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.1 |
| | 82 | 27.5 | 2.6 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 86 | 30.0 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 | 2.9 | 2.1 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.0 |
| | 91 | 32.5 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.0 | 3.1 | 2.0 | 3.2 | 2.0 |
| | 95 | 35.0 | 2.4 | 1.8 | 2.5 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 |
| | 100 | 37.5 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 |
| | 104 | 40.0 | 2.3 | 1.7 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.9 | 2.8 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 |
| | 110 | 43.0 | 2.3 | 1.7 | 2.4 | 1.7 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.1 | 1.9 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.9 | 2.7 | 4.0 | 2.7 | 4.2 | 2.7 | 4.4 | 2.7 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 | 4.3 | 2.6 |
| | 77 | 25.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.7 | 2.5 | 3.8 | 2.7 | 3.9 | 2.7 | 4.1 | 2.6 | 4.3 | 2.6 |
| | 82 | 27.5 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.6 | 3.8 | 2.6 | 4.0 | 2.6 | 4.3 | 2.6 |
| | 86 | 30.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.6 | 2.4 | 3.7 | 2.6 | 3.8 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 |
| | 91 | 32.5 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.6 | 3.7 | 2.6 | 4.0 | 2.6 | 4.2 | 2.5 |
| | 95 | 35.0 | 3.1 | 2.3 | 3.2 | 2.3 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.5 | 4.1 | 2.5 |
| | 100 | 37.5 | 3.0 | 2.2 | 3.2 | 2.3 | 3.4 | 2.3 | 3.5 | 2.5 | 3.6 | 2.5 | 3.9 | 2.5 | 4.1 | 2.5 |
| | 104 | 40.0 | 3.0 | 2.2 | 3.1 | 2.2 | 3.3 | 2.3 | 3.5 | 2.4 | 3.6 | 2.5 | 3.8 | 2.5 | 4.1 | 2.5 |
| | 110 | 43.0 | 2.9 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.4 | 3.5 | 2.4 | 3.7 | 2.4 | 4.0 | 2.4 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.8 | 3.5 | 5.0 | 3.5 | 5.2 | 3.5 | 5.5 | 3.5 |
| | 73 | 22.5 | 4.2 | 3.2 | 4.4 | 3.3 | 4.6 | 3.3 | 4.8 | 3.5 | 4.9 | 3.5 | 5.2 | 3.5 | 5.4 | 3.4 |
| | 77 | 25.0 | 4.2 | 3.1 | 4.3 | 3.2 | 4.6 | 3.2 | 4.7 | 3.4 | 4.8 | 3.4 | 5.1 | 3.4 | 5.4 | 3.4 |
| | 82 | 27.5 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.6 | 3.4 | 4.8 | 3.4 | 5.1 | 3.4 | 5.3 | 3.4 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.6 | 3.4 | 4.7 | 3.4 | 5.0 | 3.3 | 5.3 | 3.3 |
| | 91 | 32.5 | 4.0 | 3.0 | 4.1 | 3.1 | 4.4 | 3.1 | 4.5 | 3.3 | 4.7 | 3.3 | 4.9 | 3.3 | 5.2 | 3.3 |
| | 95 | 35.0 | 3.9 | 2.9 | 4.0 | 3.0 | 4.3 | 3.1 | 4.5 | 3.3 | 4.6 | 3.3 | 4.9 | 3.3 | 5.2 | 3.3 |
| | 100 | 37.5 | 3.8 | 2.9 | 3.9 | 3.0 | 4.2 | 3.0 | 4.4 | 3.2 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.2 |
| | 104 | 40.0 | 3.7 | 2.8 | 3.9 | 2.9 | 4.2 | 3.0 | 4.3 | 3.2 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.2 |
| | 110 | 43.0 | 3.6 | 2.7 | 3.8 | 2.8 | 4.1 | 2.9 | 4.2 | 3.1 | 4.4 | 3.1 | 4.7 | 3.1 | 5.0 | 3.1 |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.9 | 5.5 | 4.0 | 5.8 | 4.0 | 6.0 | 4.3 | 6.2 | 4.3 | 6.5 | 4.2 | 6.8 | 4.2 |
| | 73 | 22.5 | 5.3 | 3.8 | 5.4 | 4.0 | 5.8 | 4.0 | 5.9 | 4.2 | 6.1 | 4.2 | 6.4 | 4.2 | 6.8 | 4.1 |
| | 77 | 25.0 | 5.2 | 3.8 | 5.3 | 3.9 | 5.7 | 3.9 | 5.9 | 4.2 | 6.0 | 4.2 | 6.4 | 4.1 | 6.7 | 4.1 |
| | 82 | 27.5 | 5.1 | 3.7 | 5.3 | 3.9 | 5.6 | 3.9 | 5.8 | 4.1 | 6.0 | 4.1 | 6.3 | 4.1 | 6.6 | 4.0 |
| | 86 | 30.0 | 5.0 | 3.7 | 5.2 | 3.8 | 5.5 | 3.8 | 5.7 | 4.1 | 5.9 | 4.1 | 6.2 | 4.0 | 6.6 | 4.0 |
| | 91 | 32.5 | 4.9 | 3.6 | 5.1 | 3.7 | 5.5 | 3.8 | 5.6 | 4.0 | 5.8 | 4.0 | 6.1 | 4.0 | 6.5 | 4.0 |
| | 95 | 35.0 | 4.8 | 3.5 | 5.0 | 3.7 | 5.4 | 3.7 | 5.5 | 3.9 | 5.7 | 3.9 | 6.1 | 3.9 | 6.4 | 3.9 |
| | 100 | 37.5 | 4.7 | 3.5 | 4.9 | 3.6 | 5.3 | 3.6 | 5.5 | 3.9 | 5.6 | 3.9 | 6.0 | 3.9 | 6.4 | 3.9 |
| | 104 | 40.0 | 4.6 | 3.4 | 4.8 | 3.5 | 5.2 | 3.6 | 5.4 | 3.8 | 5.6 | 3.8 | 5.9 | 3.9 | 6.3 | 3.8 |
| | 110 | 43.0 | 4.5 | 3.3 | 4.7 | 3.4 | 5.1 | 3.5 | 5.3 | 3.7 | 5.5 | 3.8 | 5.8 | 3.8 | 6.2 | 3.8 |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.9 | 7.0 | 5.0 | 7.4 | 5.0 | 7.6 | 5.3 | 7.8 | 5.3 | 8.2 | 5.3 | 8.7 | 5.2 |
| | 73 | 22.5 | 6.7 | 4.8 | 6.9 | 4.9 | 7.3 | 5.0 | 7.5 | 5.3 | 7.7 | 5.3 | 8.1 | 5.2 | 8.6 | 5.1 |
| | 77 | 25.0 | 6.6 | 4.7 | 6.8 | 4.9 | 7.2 | 4.9 | 7.4 | 5.2 | 7.6 | 5.2 | 8.1 | 5.2 | 8.5 | 5.1 |
| | 82 | 27.5 | 6.5 | 4.7 | 6.7 | 4.8 | 7.1 | 4.8 | 7.3 | 5.1 | 7.5 | 5.1 | 8.0 | 5.1 | 8.4 | 5.0 |
| | 86 | 30.0 | 6.4 | 4.6 | 6.6 | 4.8 | 7.0 | 4.8 | 7.2 | 5.1 | 7.5 | 5.1 | 7.9 | 5.0 | 8.3 | 5.0 |
| | 91 | 32.5 | 6.3 | 4.5 | 6.5 | 4.7 | 6.9 | 4.7 | 7.1 | 5.0 | 7.4 | 5.0 | 7.8 | 5.0 | 8.2 | 4.9 |
| | 95 | 35.0 | 6.1 | 4.4 | 6.4 | 4.6 | 6.8 | 4.6 | 7.0 | 4.9 | 7.3 | 4.9 | 7.7 | 4.9 | 8.2 | 4.9 |
| | 100 | 37.5 | 6.0 | 4.3 | 6.2 | 4.5 | 6.7 | 4.6 | 6.9 | 4.8 | 7.2 | 4.9 | 7.6 | 4.9 | 8.1 | 4.8 |
| | 104 | 40.0 | 5.9 | 4.2 | 6.1 | 4.4 | 6.6 | 4.5 | 6.8 | 4.8 | 7.1 | 4.8 | 7.5 | 4.8 | 8.0 | 4.8 |
| | 110 | 43.0 | 5.7 | 4.1 | 6.0 | 4.3 | 6.4 | 4.4 | 6.7 | 4.7 | 6.9 | 4.7 | 7.4 | 4.7 | 7.9 | 4.7 |
| 71 (8.0) | 68 | 20.0 | 7.6 | 5.4 | 7.8 | 5.6 | 8.3 | 5.6 | 8.6 | 5.9 | 8.8 | 5.9 | 9.3 | 5.9 | 9.8 | 5.8 |
| | 73 | 22.5 | 7.5 | 5.4 | 7.7 | 5.5 | 8.2 | 5.5 | 8.5 | 5.9 | 8.7 | 5.9 | 9.2 | 5.8 | 9.7 | 5.7 |
| | 77 | 25.0 | 7.4 | 5.3 | 7.6 | 5.5 | 8.1 | 5.5 | 8.4 | 5.8 | 8.6 | 5.8 | 9.1 | 5.8 | 9.6 | 5.7 |
| | 82 | 27.5 | 7.3 | 5.2 | 7.5 | 5.4 | 8.0 | 5.4 | 8.3 | 5.7 | 8.5 | 5.7 | 9.0 | 5.7 | 9.5 | 5.6 |
| | 86 | 30.0 | 7.2 | 5.1 | 7.4 | 5.3 | 7.9 | 5.3 | 8.2 | 5.7 | 8.4 | 5.7 | 8.9 | 5.6 | 9.4 | 5.6 |
| | 91 | 32.5 | 7.1 | 5.0 | 7.3 | 5.2 | 7.8 | 5.3 | 8.0 | 5.6 | 8.3 | 5.6 | 8.8 | 5.6 | 9.3 | 5.5 |
| | 95 | 35.0 | 6.9 | 4.9 | 7.2 | 5.1 | 7.7 | 5.2 | 7.9 | 5.5 | 8.2 | 5.5 | 8.7 | 5.5 | 9.2 | 5.5 |
| | 100 | 37.5 | 6.8 | 4.8 | 7.0 | 5.0 | 7.5 | 5.1 | 7.8 | 5.4 | 8.1 | 5.4 | 8.6 | 5.4 | 9.1 | 5.4 |
| | 104 | 40.0 | 6.6 | 4.7 | 6.9 | 4.9 | 7.4 | 5.0 | 7.7 | 5.3 | 7.9 | 5.4 | 8.5 | 5.4 | 9.0 | 5.4 |
| | 110 | 43.0 | 6.5 | 4.6 | 6.7 | 4.8 | 7.3 | 4.9 | 7.5 | 5.2 | 7.8 | 5.2 | 8.3 | 5.3 | 8.9 | 5.3 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PEFY-P-VMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| | | | 71°FDB / 59°F WB | | 73°FDB / 61°F WB | | 77°FDB / 64°F WB | | 81°FDB / 66°F WB | | 82°FDB / 68°F WB | | 86°FDB / 72°F WB | | 90°FDB / 75°F WB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 80 (9.0) | 68 | 20.0 | 8.6 | 5.9 | 8.8 | 6.0 | 9.4 | 6.0 | 9.6 | 6.4 | 9.9 | 6.4 | 10.4 | 6.3 | 11.0 | 6.2 |
| | 73 | 22.5 | 8.4 | 5.8 | 8.7 | 6.0 | 9.2 | 6.0 | 9.5 | 6.3 | 9.8 | 6.3 | 10.3 | 6.2 | 10.9 | 6.1 |
| | 77 | 25.0 | 8.3 | 5.7 | 8.6 | 5.9 | 9.1 | 5.9 | 9.4 | 6.3 | 9.7 | 6.2 | 10.2 | 6.2 | 10.8 | 6.1 |
| | 82 | 27.5 | 8.2 | 5.6 | 8.5 | 5.8 | 9.0 | 5.8 | 9.3 | 6.2 | 9.6 | 6.2 | 10.1 | 6.1 | 10.6 | 6.0 |
| | 86 | 30.0 | 8.1 | 5.5 | 8.4 | 5.7 | 8.9 | 5.7 | 9.2 | 6.1 | 9.5 | 6.1 | 10.0 | 6.0 | 10.5 | 5.9 |
| | 91 | 32.5 | 7.9 | 5.4 | 8.2 | 5.6 | 8.8 | 5.7 | 9.0 | 6.0 | 9.3 | 6.0 | 9.9 | 6.0 | 10.4 | 5.9 |
| | 95 | 35.0 | 7.8 | 5.3 | 8.1 | 5.5 | 8.6 | 5.6 | 8.9 | 5.9 | 9.2 | 5.9 | 9.8 | 5.9 | 10.3 | 5.8 |
| | 100 | 37.5 | 7.6 | 5.2 | 7.9 | 5.4 | 8.5 | 5.5 | 8.8 | 5.8 | 9.1 | 5.8 | 9.7 | 5.8 | 10.2 | 5.8 |
| | 104 | 40.0 | 7.4 | 5.1 | 7.7 | 5.3 | 8.3 | 5.4 | 8.6 | 5.7 | 8.9 | 5.8 | 9.5 | 5.8 | 10.1 | 5.7 |
| | 110 | 43.0 | 7.3 | 5.0 | 7.6 | 5.2 | 8.2 | 5.3 | 8.5 | 5.6 | 8.8 | 5.7 | 9.4 | 5.7 | 10.0 | 5.6 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 8.1 | 11.0 | 8.4 | 11.6 | 8.4 | 12.0 | 8.9 | 12.3 | 8.9 | 13.0 | 8.8 | 13.7 | 8.8 |
| | 73 | 22.5 | 10.5 | 8.0 | 10.8 | 8.2 | 11.5 | 8.3 | 11.8 | 8.8 | 12.2 | 8.8 | 12.9 | 8.8 | 13.5 | 8.7 |
| | 77 | 25.0 | 10.4 | 7.9 | 10.7 | 8.1 | 11.4 | 8.2 | 11.7 | 8.7 | 12.0 | 8.7 | 12.7 | 8.7 | 13.4 | 8.6 |
| | 82 | 27.5 | 10.2 | 7.8 | 10.6 | 8.0 | 11.2 | 8.1 | 11.6 | 8.6 | 11.9 | 8.6 | 12.6 | 8.6 | 13.2 | 8.5 |
| | 86 | 30.0 | 10.1 | 7.7 | 10.4 | 7.9 | 11.1 | 8.0 | 11.4 | 8.5 | 11.8 | 8.5 | 12.4 | 8.5 | 13.1 | 8.4 |
| | 91 | 32.5 | 9.9 | 7.5 | 10.2 | 7.8 | 10.9 | 7.9 | 11.3 | 8.3 | 11.6 | 8.4 | 12.3 | 8.4 | 13.0 | 8.3 |
| | 95 | 35.0 | 9.7 | 7.4 | 10.0 | 7.6 | 10.7 | 7.7 | 11.1 | 8.2 | 11.4 | 8.3 | 12.2 | 8.3 | 12.9 | 8.2 |
| | 100 | 37.5 | 9.5 | 7.2 | 9.8 | 7.5 | 10.6 | 7.6 | 10.9 | 8.1 | 11.3 | 8.1 | 12.0 | 8.2 | 12.7 | 8.2 |
| | 104 | 40.0 | 9.3 | 7.0 | 9.6 | 7.3 | 10.4 | 7.5 | 10.8 | 8.0 | 11.1 | 8.0 | 11.9 | 8.1 | 12.6 | 8.1 |
| | 110 | 43.0 | 9.0 | 6.9 | 9.4 | 7.2 | 10.2 | 7.3 | 10.5 | 7.8 | 10.9 | 7.9 | 11.6 | 7.9 | 12.4 | 7.9 |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.9 | 13.7 | 10.2 | 14.6 | 10.2 | 15.0 | 10.8 | 15.4 | 10.8 | 16.2 | 10.8 | 17.1 | 10.6 |
| | 73 | 22.5 | 13.1 | 9.8 | 13.5 | 10.1 | 14.4 | 10.1 | 14.8 | 10.7 | 15.2 | 10.7 | 16.1 | 10.7 | 16.9 | 10.5 |
| | 77 | 25.0 | 13.0 | 9.6 | 13.4 | 9.9 | 14.2 | 10.0 | 14.6 | 10.6 | 15.1 | 10.6 | 15.9 | 10.5 | 16.7 | 10.4 |
| | 82 | 27.5 | 12.8 | 9.5 | 13.2 | 9.8 | 14.0 | 9.9 | 14.5 | 10.5 | 14.9 | 10.5 | 15.7 | 10.4 | 16.6 | 10.3 |
| | 86 | 30.0 | 12.6 | 9.4 | 13.0 | 9.7 | 13.9 | 9.7 | 14.3 | 10.3 | 14.7 | 10.3 | 15.5 | 10.3 | 16.4 | 10.2 |
| | 91 | 32.5 | 12.3 | 9.2 | 12.8 | 9.5 | 13.6 | 9.6 | 14.1 | 10.2 | 14.5 | 10.2 | 15.4 | 10.2 | 16.2 | 10.1 |
| | 95 | 35.0 | 12.1 | 9.0 | 12.5 | 9.3 | 13.4 | 9.4 | 13.9 | 10.0 | 14.3 | 10.1 | 15.2 | 10.1 | 16.1 | 10.0 |
| | 100 | 37.5 | 11.8 | 8.8 | 12.3 | 9.1 | 13.2 | 9.3 | 13.7 | 9.9 | 14.1 | 9.9 | 15.0 | 10.0 | 15.9 | 9.9 |
| | 104 | 40.0 | 11.6 | 8.6 | 12.0 | 8.9 | 13.0 | 9.1 | 13.4 | 9.7 | 13.9 | 9.8 | 14.8 | 9.8 | 15.8 | 9.8 |
| | 110 | 43.0 | 11.3 | 8.4 | 11.8 | 8.7 | 12.7 | 8.9 | 13.2 | 9.5 | 13.6 | 9.6 | 14.6 | 9.7 | 15.5 | 9.7 |
| 140 (16.0) | 68 | 20.0 | 14.7 | 10.6 | 15.2 | 10.9 | 16.1 | 10.9 | 16.6 | 11.6 | 17.1 | 11.6 | 18.0 | 11.5 | 18.9 | 11.3 |
| | 73 | 22.5 | 14.5 | 10.4 | 15.0 | 10.8 | 15.9 | 10.8 | 16.4 | 11.4 | 16.9 | 11.4 | 17.8 | 11.3 | 18.7 | 11.2 |
| | 77 | 25.0 | 14.3 | 10.3 | 14.8 | 10.6 | 15.7 | 10.7 | 16.2 | 11.3 | 16.7 | 11.3 | 17.6 | 11.2 | 18.5 | 11.1 |
| | 82 | 27.5 | 14.1 | 10.2 | 14.6 | 10.5 | 15.5 | 10.5 | 16.0 | 11.2 | 16.5 | 11.2 | 17.4 | 11.1 | 18.3 | 11.0 |
| | 86 | 30.0 | 14.0 | 10.0 | 14.4 | 10.3 | 15.3 | 10.4 | 15.8 | 11.0 | 16.3 | 11.0 | 17.2 | 11.0 | 18.1 | 10.8 |
| | 91 | 32.5 | 13.7 | 9.8 | 14.1 | 10.2 | 15.1 | 10.2 | 15.6 | 10.9 | 16.1 | 10.9 | 17.0 | 10.9 | 18.0 | 10.7 |
| | 95 | 35.0 | 13.4 | 9.6 | 13.9 | 10.0 | 14.9 | 10.1 | 15.3 | 10.7 | 15.8 | 10.7 | 16.8 | 10.7 | 17.8 | 10.6 |
| | 100 | 37.5 | 13.1 | 9.4 | 13.6 | 9.8 | 14.6 | 9.9 | 15.1 | 10.5 | 15.6 | 10.6 | 16.6 | 10.6 | 17.6 | 10.5 |
| | 104 | 40.0 | 12.8 | 9.2 | 13.3 | 9.6 | 14.4 | 9.7 | 14.9 | 10.4 | 15.4 | 10.4 | 16.4 | 10.5 | 17.5 | 10.4 |
| | 110 | 43.0 | 12.5 | 9.0 | 13.0 | 9.3 | 14.1 | 9.5 | 14.6 | 10.2 | 15.1 | 10.2 | 16.1 | 10.3 | 17.2 | 10.3 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PEFY-P-VMM-E

SHC : Sensible Heat Capacity(kW)

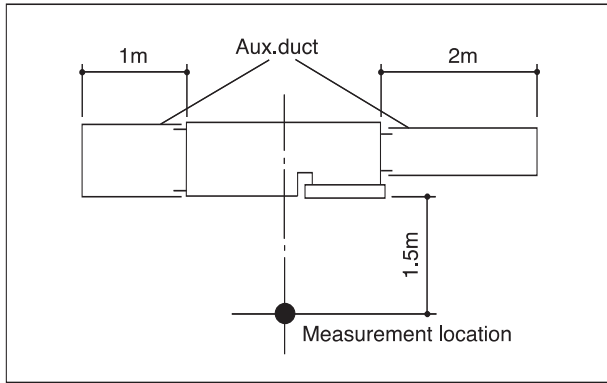
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 | |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 | |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |
| 50 (5.6) | -4 | -20.0 | 4.1 | 4.0 | 3.8 | 3.7 |
| | 5 | -15.0 | 4.4 | 4.2 | 4.1 | 4.0 |
| | 14 | -10.0 | 4.7 | 4.6 | 4.5 | 4.4 |
| | 23 | -5.0 | 5.4 | 5.2 | 5.0 | 4.9 |
| | 32 | 0.0 | 5.9 | 5.8 | 5.5 | 5.5 |
| | 37 | 2.5 | 6.2 | 6.0 | 5.9 | 5.8 |
| | 43 | 6.0 | 6.4 | 6.3 | 6.2 | 6.1 |
| | 46 | 7.5 | 6.8 | 6.7 | 6.2 | 6.1 |
| | 50 | 10.0 | 7.1 | 6.9 | 6.2 | 6.1 |
| | 55 | 12.5 | 7.4 | 7.2 | 6.2 | 6.1 |
| 60 | 15.5 | 7.6 | 7.2 | 6.2 | 6.1 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |
| 71 (8.0) | -4 | -20.0 | 5.9 | 5.7 | 5.4 | 5.3 |
| | 5 | -15.0 | 6.3 | 6.0 | 5.9 | 5.8 |
| | 14 | -10.0 | 6.8 | 6.6 | 6.4 | 6.3 |
| | 23 | -5.0 | 7.7 | 7.5 | 7.1 | 7.0 |
| | 32 | 0.0 | 8.5 | 8.3 | 7.9 | 7.8 |
| | 37 | 2.5 | 8.9 | 8.6 | 8.4 | 8.3 |
| | 43 | 6.0 | 9.2 | 9.0 | 8.9 | 8.7 |
| | 46 | 7.5 | 9.7 | 9.5 | 8.9 | 8.7 |
| | 50 | 10.0 | 10.2 | 9.9 | 8.9 | 8.7 |
| | 55 | 12.5 | 10.6 | 10.4 | 8.9 | 8.7 |
| 60 | 15.5 | 10.9 | 10.4 | 8.9 | 8.7 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 6.5 | 6.3 | 6.0 | 5.9 |
| | 5 | -15.0 | 7.0 | 6.7 | 6.5 | 6.4 |
| | 14 | -10.0 | 7.5 | 7.3 | 7.1 | 7.0 |
| | 23 | -5.0 | 8.5 | 8.3 | 7.9 | 7.8 |
| | 32 | 0.0 | 9.4 | 9.2 | 8.8 | 8.7 |
| | 37 | 2.5 | 9.9 | 9.6 | 9.3 | 9.2 |
| | 43 | 6.0 | 10.2 | 10.0 | 9.9 | 9.7 |
| | 46 | 7.5 | 10.8 | 10.6 | 9.9 | 9.7 |
| | 50 | 10.0 | 11.3 | 11.0 | 9.9 | 9.7 |
| | 55 | 12.5 | 11.8 | 11.5 | 9.9 | 9.7 |
| 60 | 15.5 | 12.1 | 11.5 | 9.9 | 9.7 | |
| 100 (11.2) | -4 | -20.0 | 8.1 | 7.9 | 7.5 | 7.4 |
| | 5 | -15.0 | 8.8 | 8.4 | 8.1 | 8.0 |
| | 14 | -10.0 | 9.4 | 9.1 | 8.9 | 8.8 |
| | 23 | -5.0 | 10.6 | 10.4 | 9.9 | 9.8 |
| | 32 | 0.0 | 11.8 | 11.5 | 11.0 | 10.9 |
| | 37 | 2.5 | 12.4 | 12.0 | 11.6 | 11.5 |
| | 43 | 6.0 | 12.8 | 12.5 | 12.4 | 12.1 |
| | 46 | 7.5 | 13.5 | 13.3 | 12.4 | 12.1 |
| | 50 | 10.0 | 14.1 | 13.8 | 12.4 | 12.1 |
| | 55 | 12.5 | 14.8 | 14.4 | 12.4 | 12.1 |
| 60 | 15.5 | 15.1 | 14.4 | 12.4 | 12.1 | |
| 125 (14.0) | -4 | -20.0 | 10.4 | 10.1 | 9.6 | 9.4 |
| | 5 | -15.0 | 11.2 | 10.7 | 10.4 | 10.2 |
| | 14 | -10.0 | 12.0 | 11.7 | 11.4 | 11.2 |
| | 23 | -5.0 | 13.6 | 13.3 | 12.6 | 12.5 |
| | 32 | 0.0 | 15.0 | 14.7 | 14.1 | 13.9 |
| | 37 | 2.5 | 15.8 | 15.4 | 14.9 | 14.7 |
| | 43 | 6.0 | 16.3 | 16.0 | 15.8 | 15.5 |
| | 46 | 7.5 | 17.3 | 17.0 | 15.8 | 15.5 |
| | 50 | 10.0 | 18.1 | 17.6 | 15.8 | 15.5 |
| | 55 | 12.5 | 18.9 | 18.4 | 15.8 | 15.5 |
| 60 | 15.5 | 19.4 | 18.4 | 15.8 | 15.5 | |
| 140 (16.0) | -4 | -20.0 | 11.7 | 11.3 | 10.8 | 10.6 |
| | 5 | -15.0 | 12.6 | 12.1 | 11.7 | 11.5 |
| | 14 | -10.0 | 13.5 | 13.1 | 12.8 | 12.6 |
| | 23 | -5.0 | 15.3 | 14.9 | 14.2 | 14.0 |
| | 32 | 0.0 | 16.9 | 16.6 | 15.8 | 15.7 |
| | 37 | 2.5 | 17.8 | 17.3 | 16.7 | 16.6 |
| | 43 | 6.0 | 18.4 | 18.0 | 17.8 | 17.5 |
| | 46 | 7.5 | 19.4 | 19.1 | 17.8 | 17.5 |
| | 50 | 10.0 | 20.3 | 19.8 | 17.8 | 17.5 |
| | 55 | 12.5 | 21.2 | 20.7 | 17.8 | 17.5 |
| 60 | 15.5 | 21.8 | 20.7 | 17.8 | 17.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

3-1. Sound levels

PEFY-P-VMM-E



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

| | Sound level dB (A) | | |
|----------------|--------------------|----------|----------|
| | Low | Mid | High |
| PEFY-P20VMM-E | 23-28-31 | 27-30-32 | 29-34-39 |
| PEFY-P25VMM-E | | | |
| PEFY-P32VMM-E | 26-30-33 | 28-32-35 | 32-36-39 |
| PEFY-P40VMM-E | 29-32-35 | 31-34-37 | 33-37-41 |
| PEFY-P50VMM-E | 29-34-37 | 31-35-38 | 34-38-41 |
| PEFY-P63VMM-E | 30-34-37 | 31-35-38 | 34-38-41 |
| PEFY-P71VMM-E | | | |
| PEFY-P80VMM-E | | | |
| PEFY-P100VMM-E | 40-44 | - | 43-47 |
| PEFY-P125VMM-E | 42-45 | - | 44-47 |
| PEFY-P140VMM-E | 42-45 | - | 44-47 |

* External static pressure of PEFY-P20~80VMM-E

Low : 30Pa at 220,230,240V, 50Hz

Mid : 50Pa at 220,230,240V, 50Hz

High : 100Pa at 220,230,240V, 50Hz

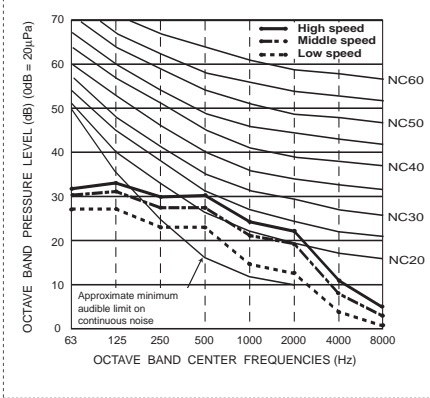
* External static pressure of PEFY-P100~140VMM-E

Low : 50Pa at 220,230,240V, 50Hz

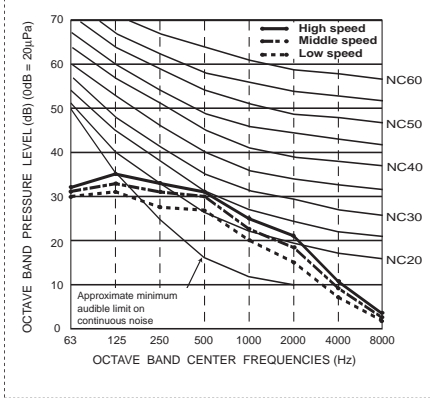
High : 130Pa at 220,230,240V, 50Hz

3-2. NC curves

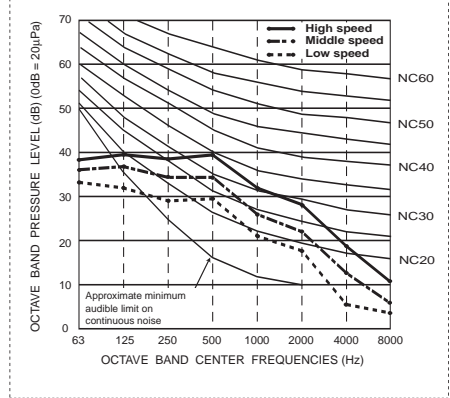
PEFY-P20,25VMM-E
 External static pressure : 30Pa Back inlet
 Power source : 220,230,240V, 50Hz



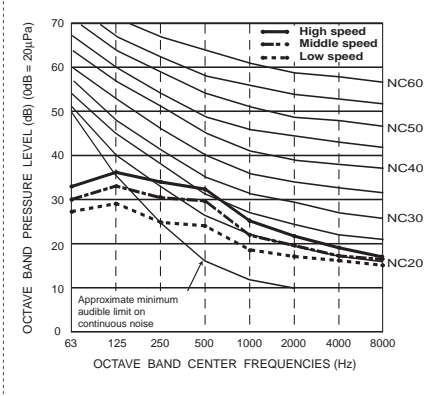
PEFY-P20,25VMM-E
 External static pressure : 50Pa Back inlet
 Power source : 220,230,240V, 50Hz



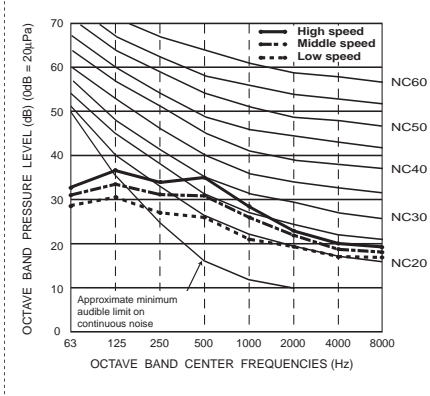
PEFY-P20,25VMM-E
 External static pressure : 100Pa Back inlet
 Power source : 220,230,240V, 50Hz



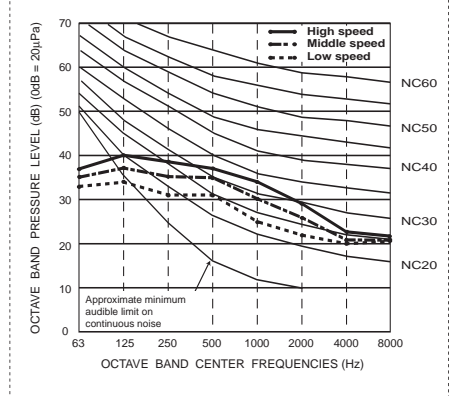
PEFY-P32VMM-E
 External static pressure : 30Pa Back inlet
 Power source : 220,230,240V, 50Hz



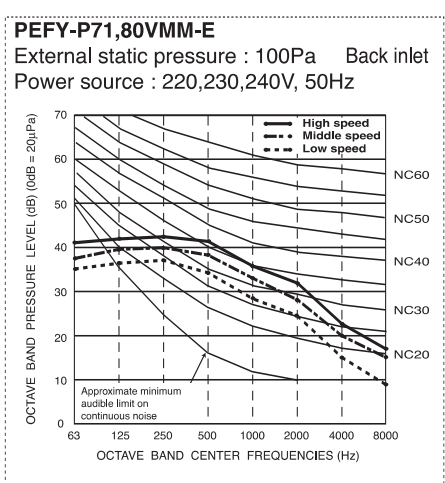
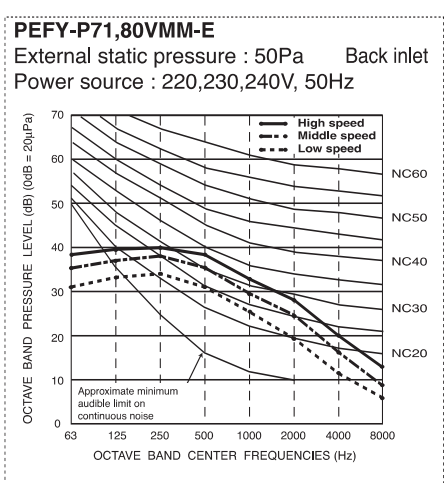
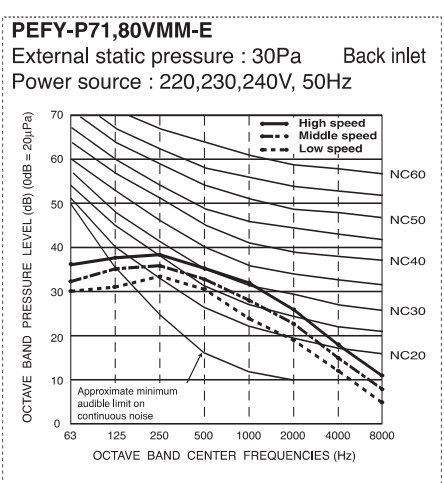
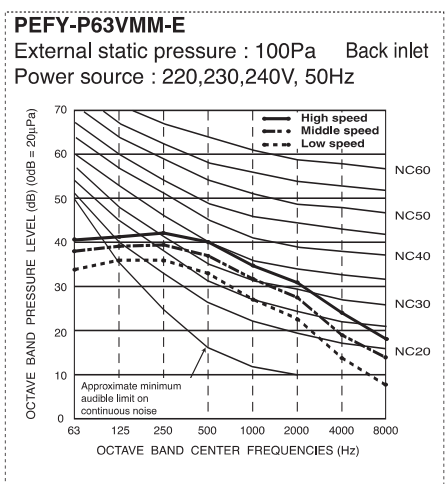
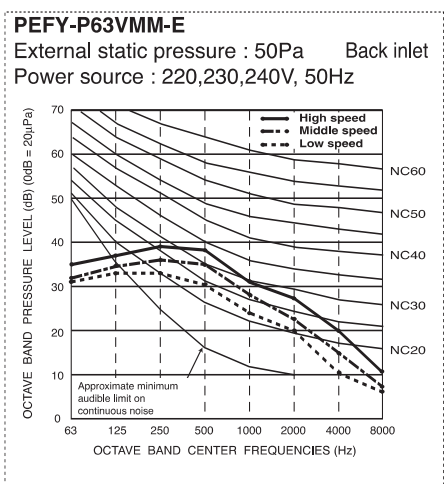
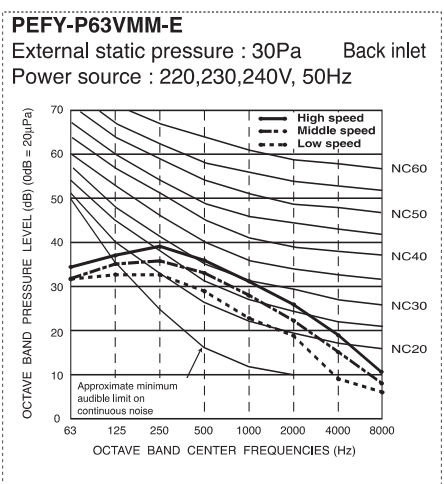
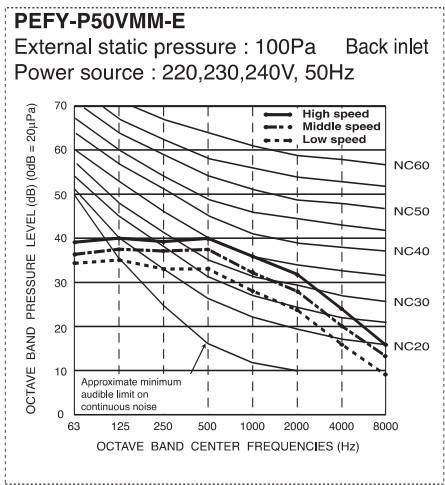
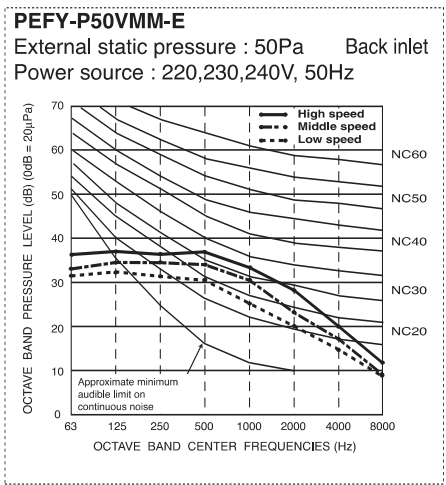
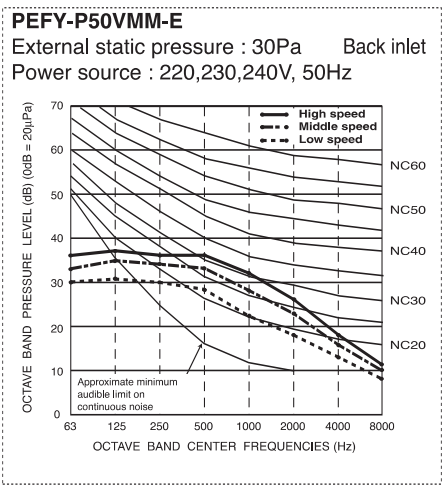
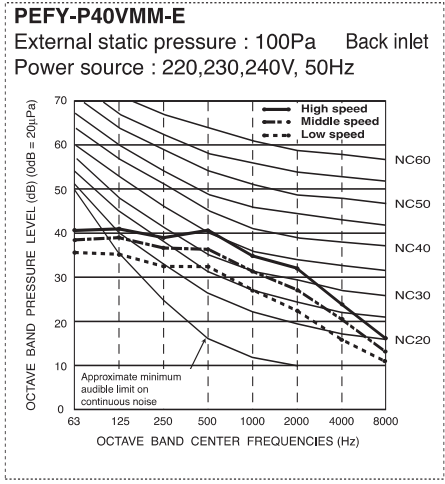
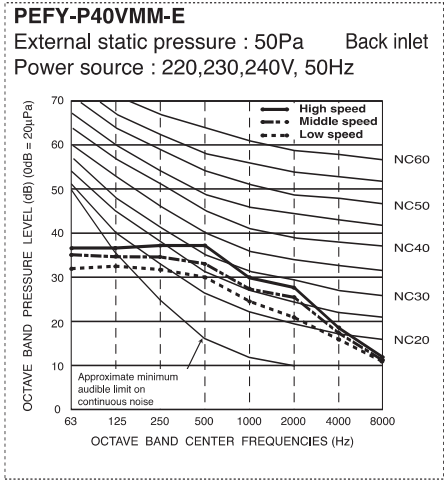
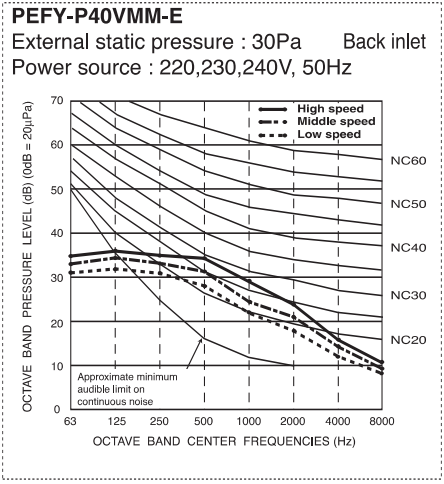
PEFY-P32VMM-E
 External static pressure : 50Pa Back inlet
 Power source : 220,230,240V, 50Hz



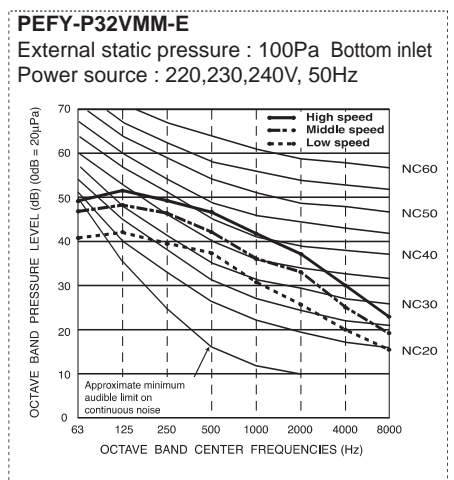
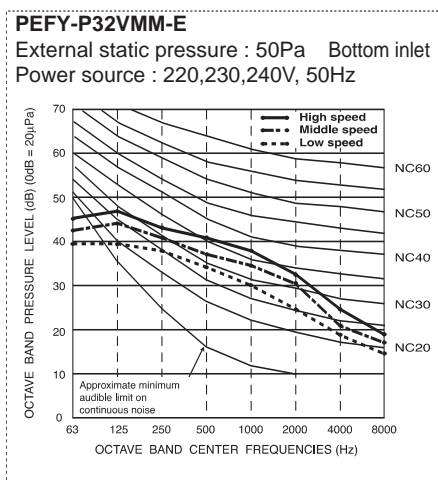
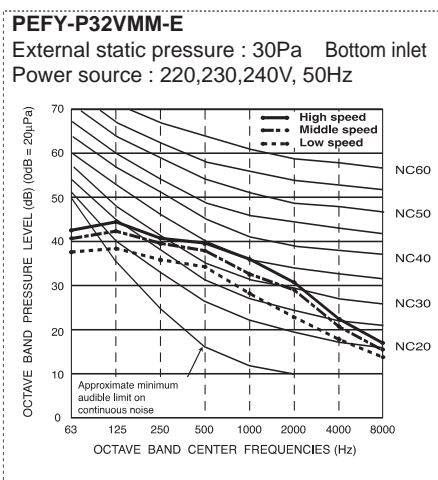
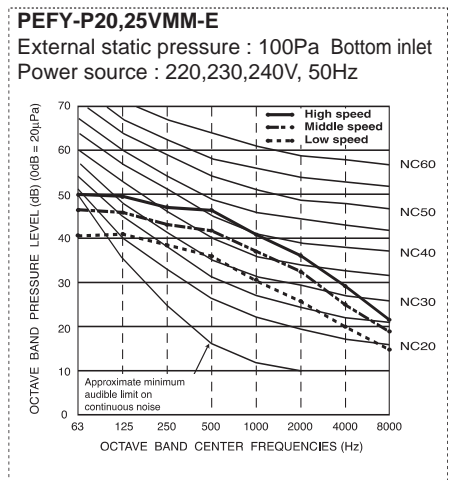
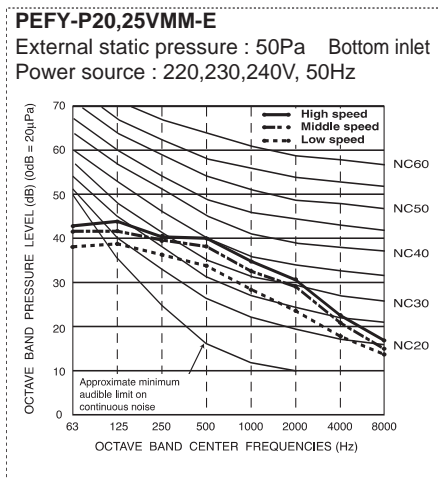
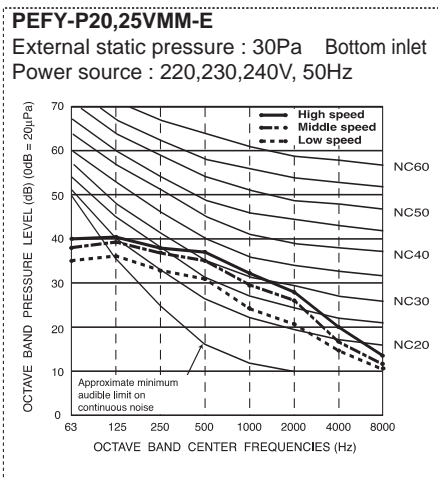
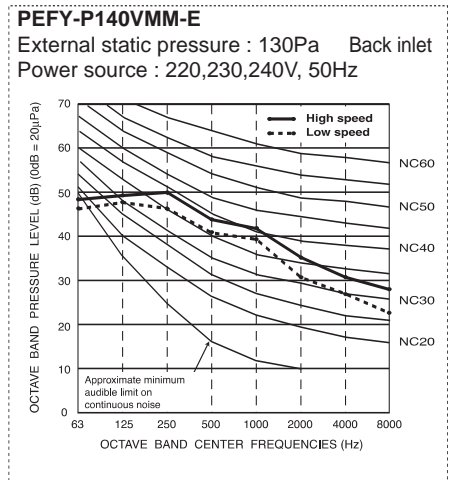
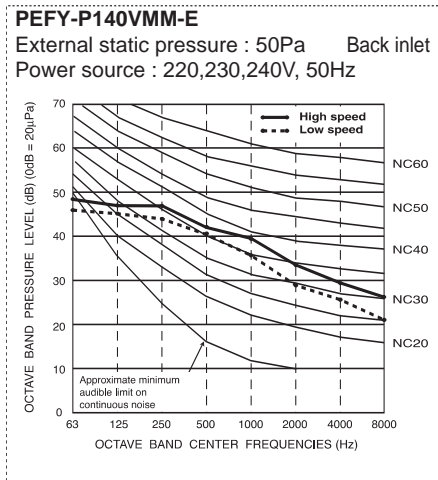
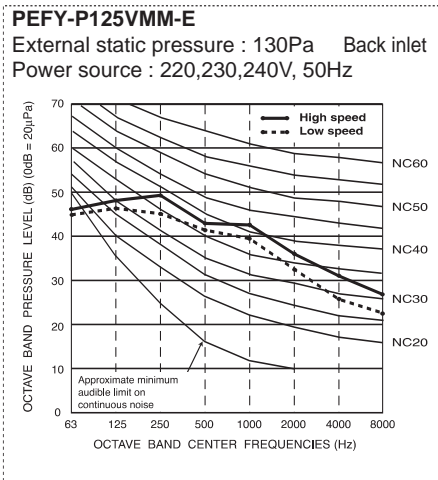
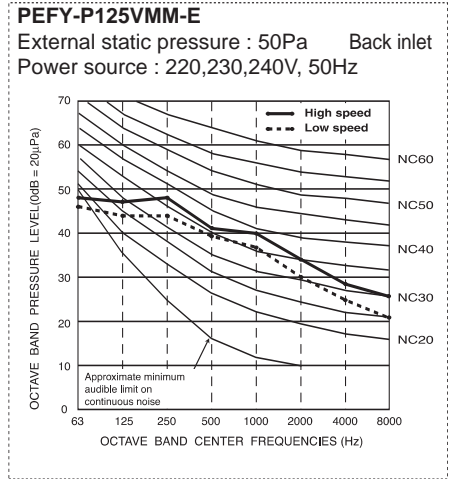
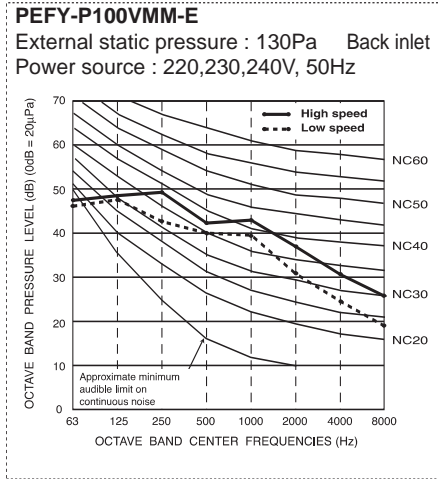
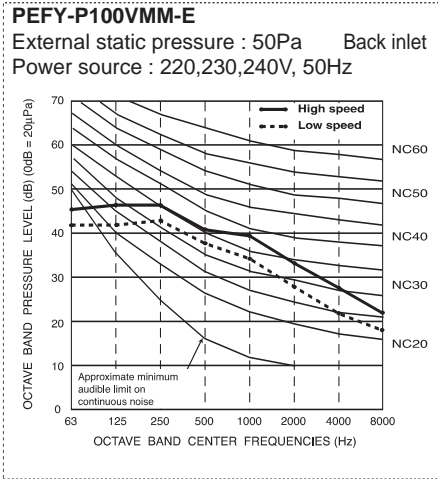
PEFY-P32VMM-E
 External static pressure : 100Pa Back inlet
 Power source : 220,230,240V, 50Hz



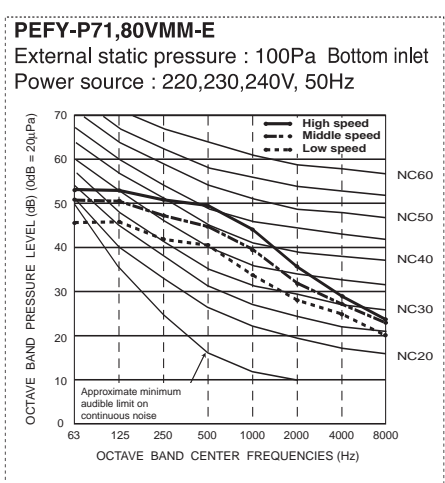
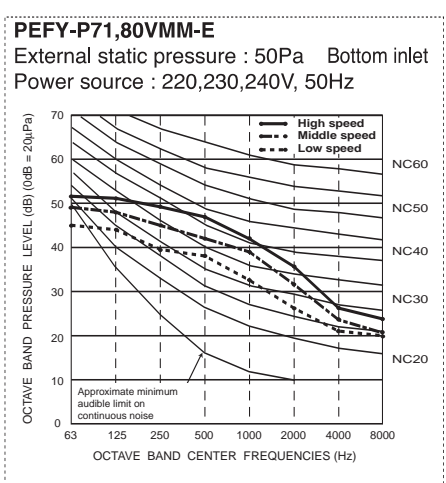
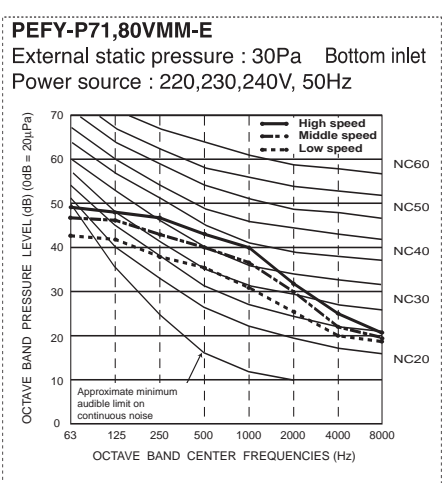
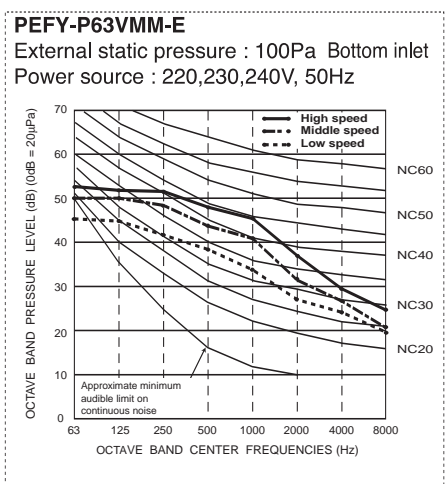
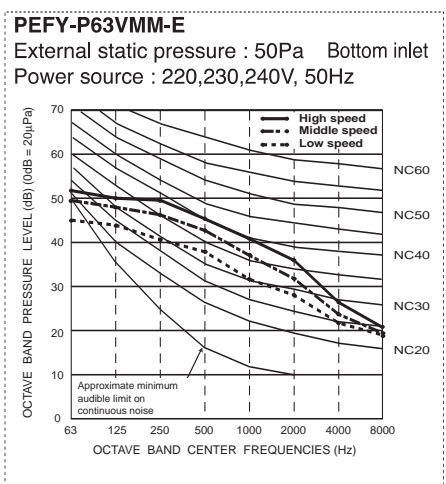
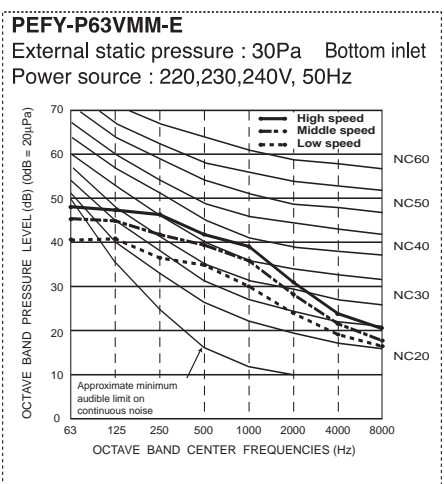
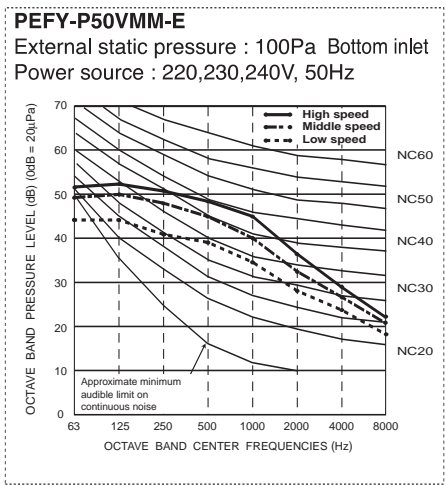
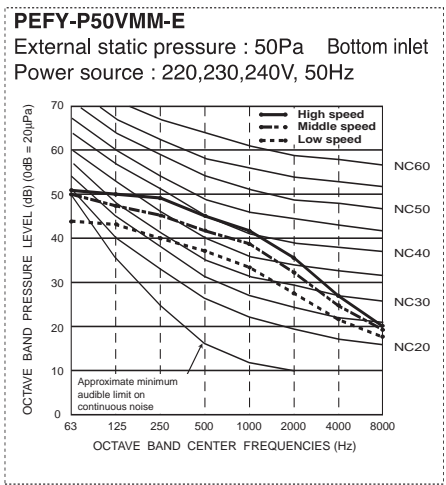
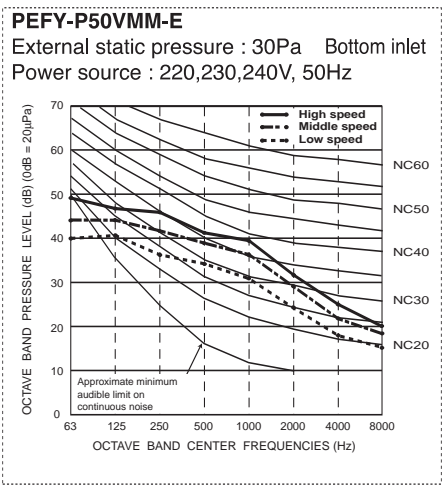
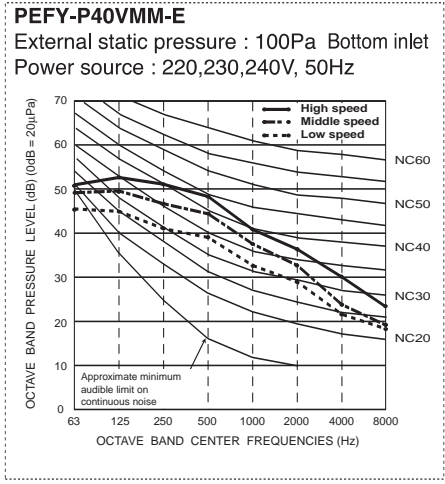
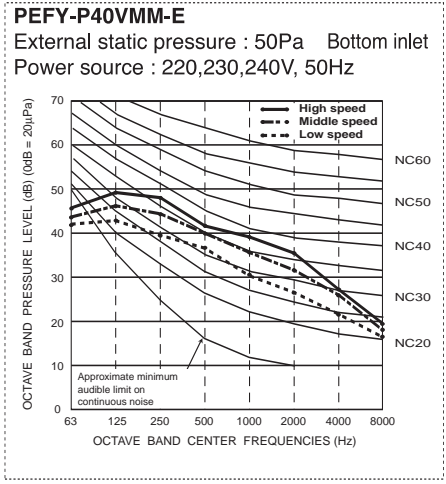
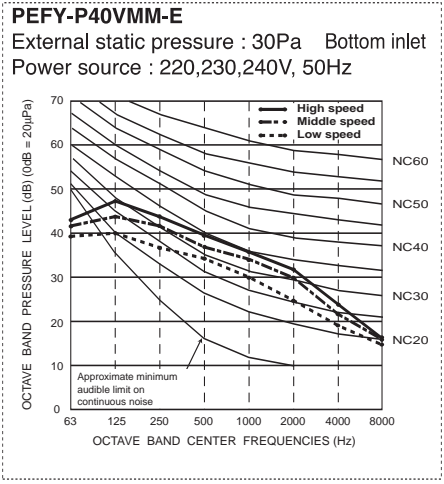
3-2. NC curves



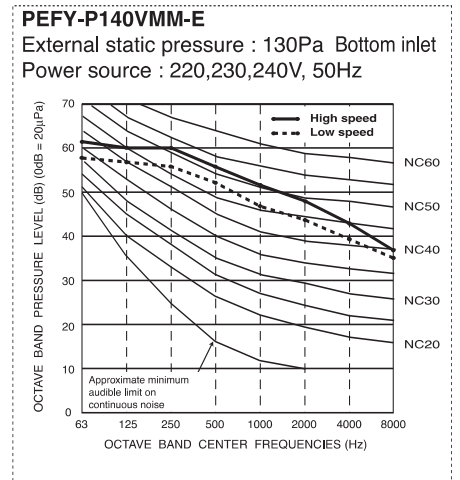
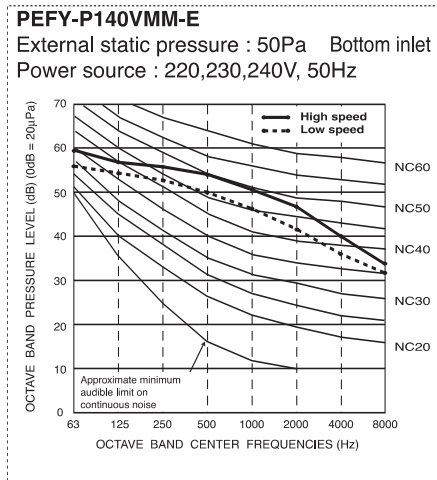
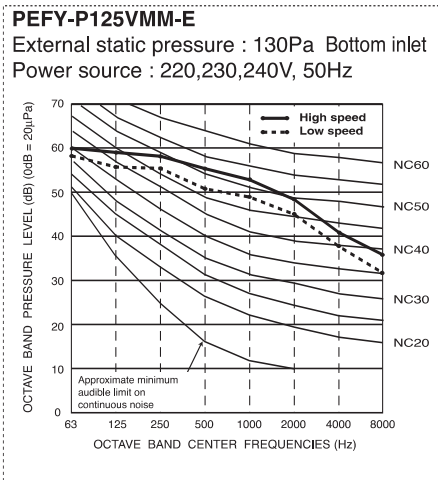
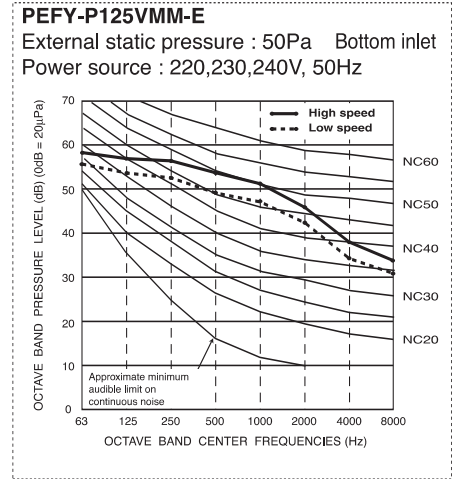
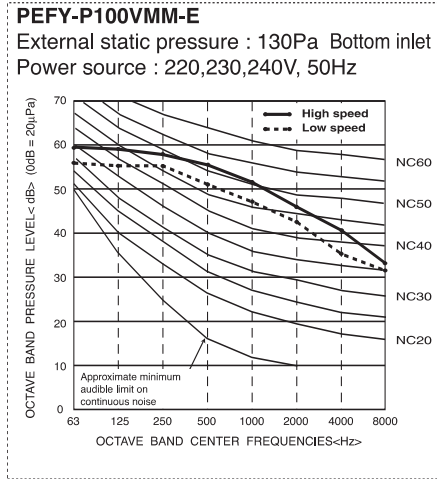
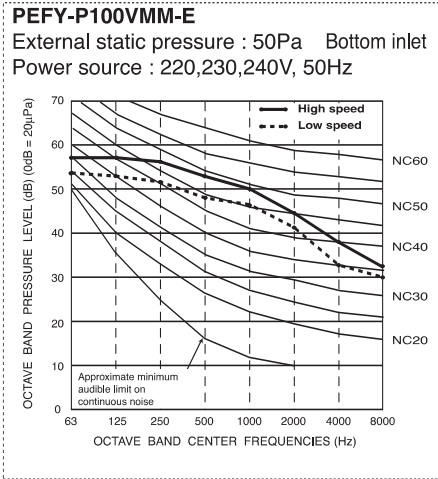
3-2. NC curves



3-2. NC curves

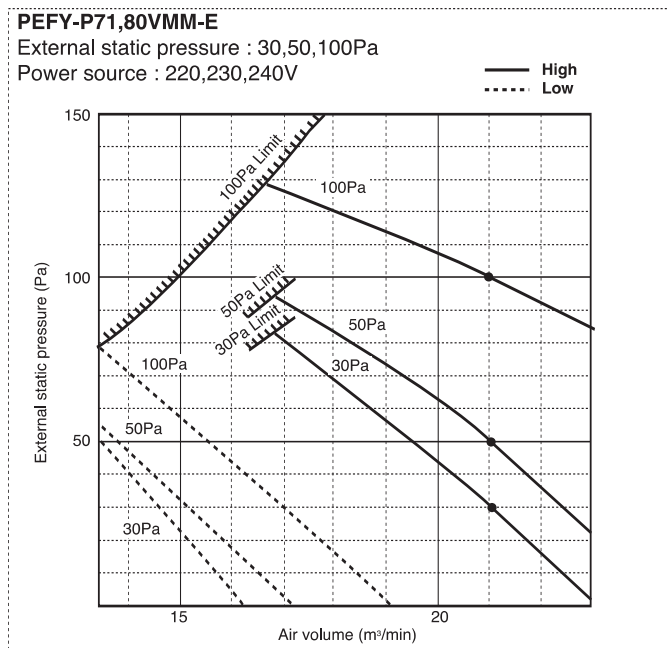
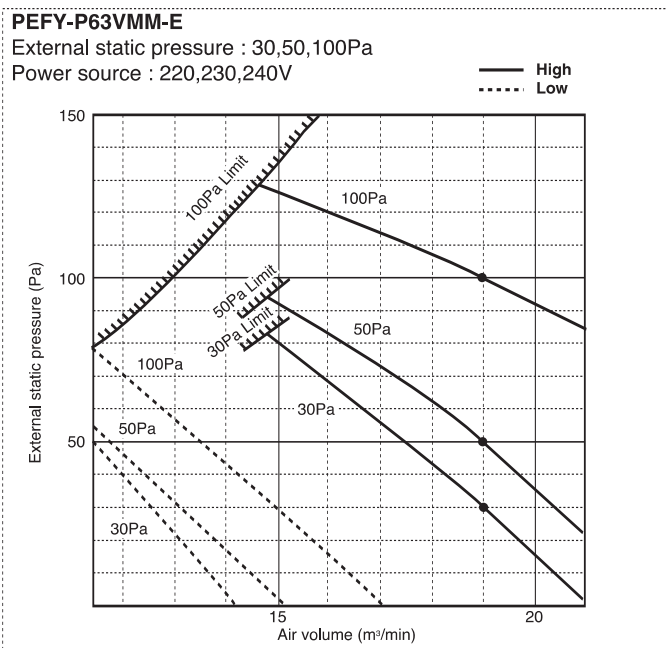
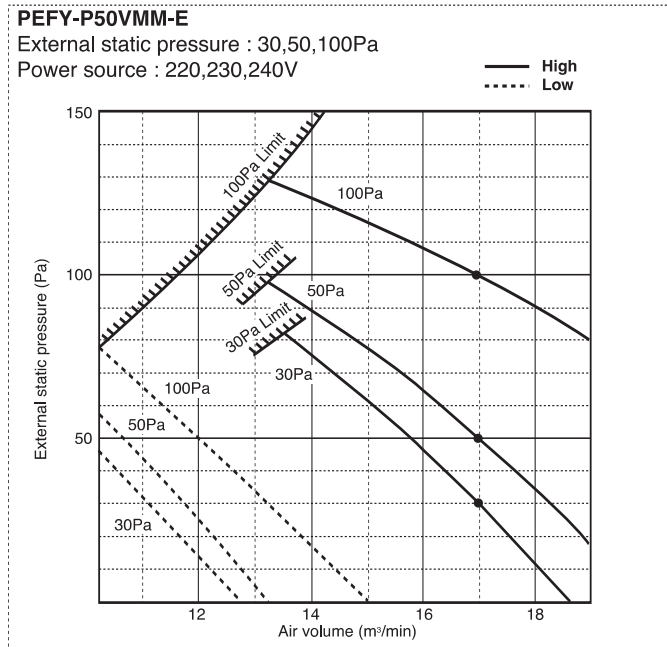
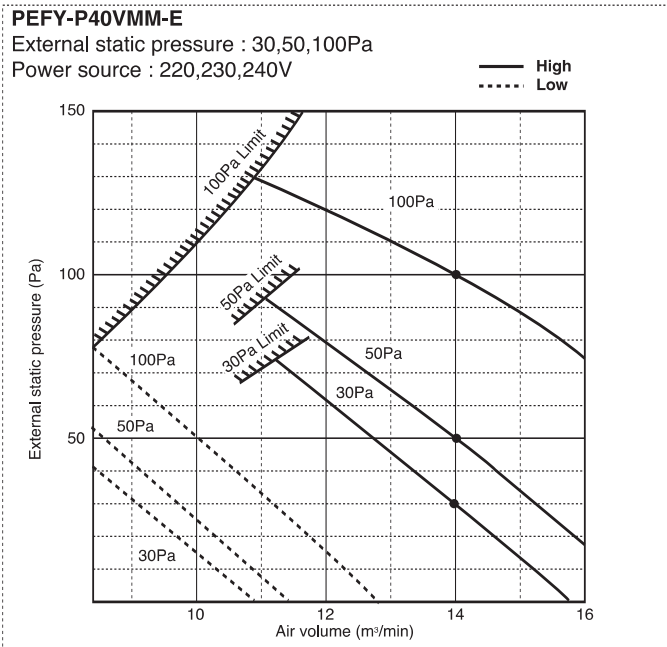
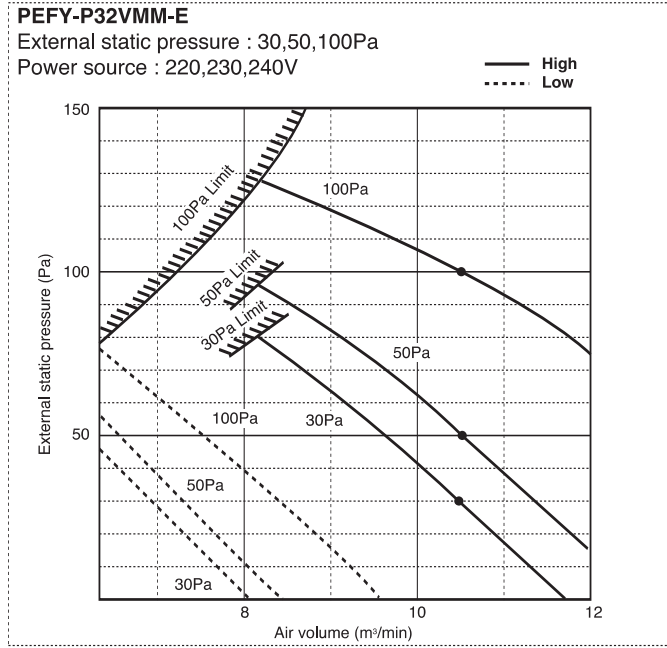
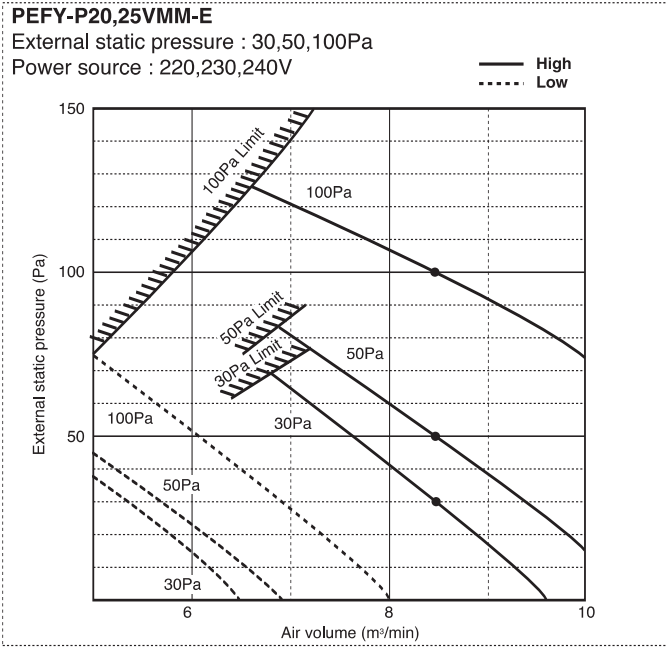


3-2. NC curves



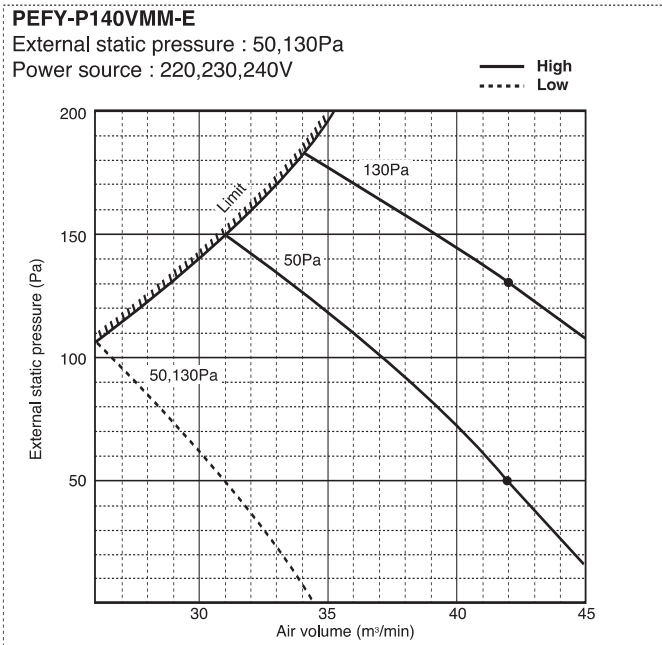
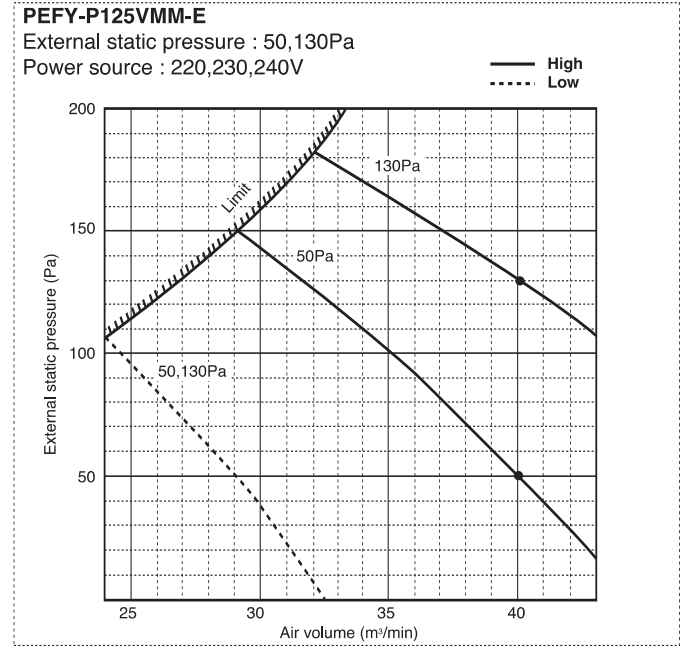
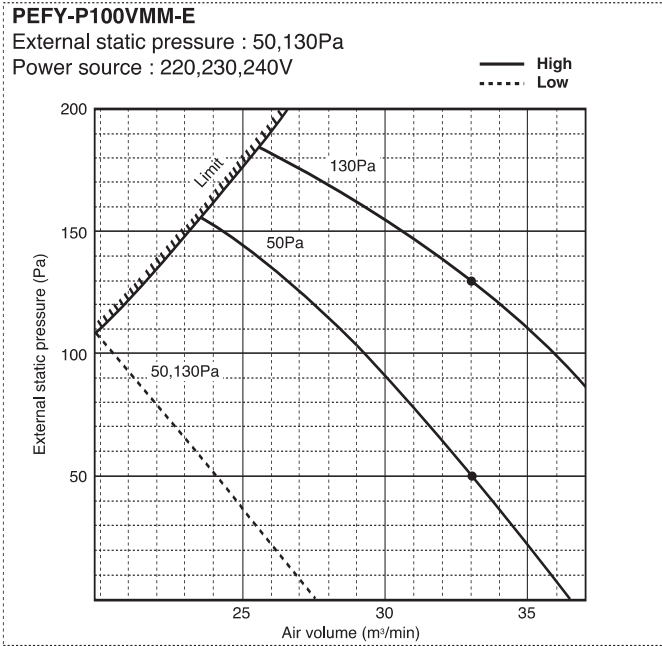
3. SOUND LEVELS

3-3. Fan characteristics curves



3. SOUND LEVELS

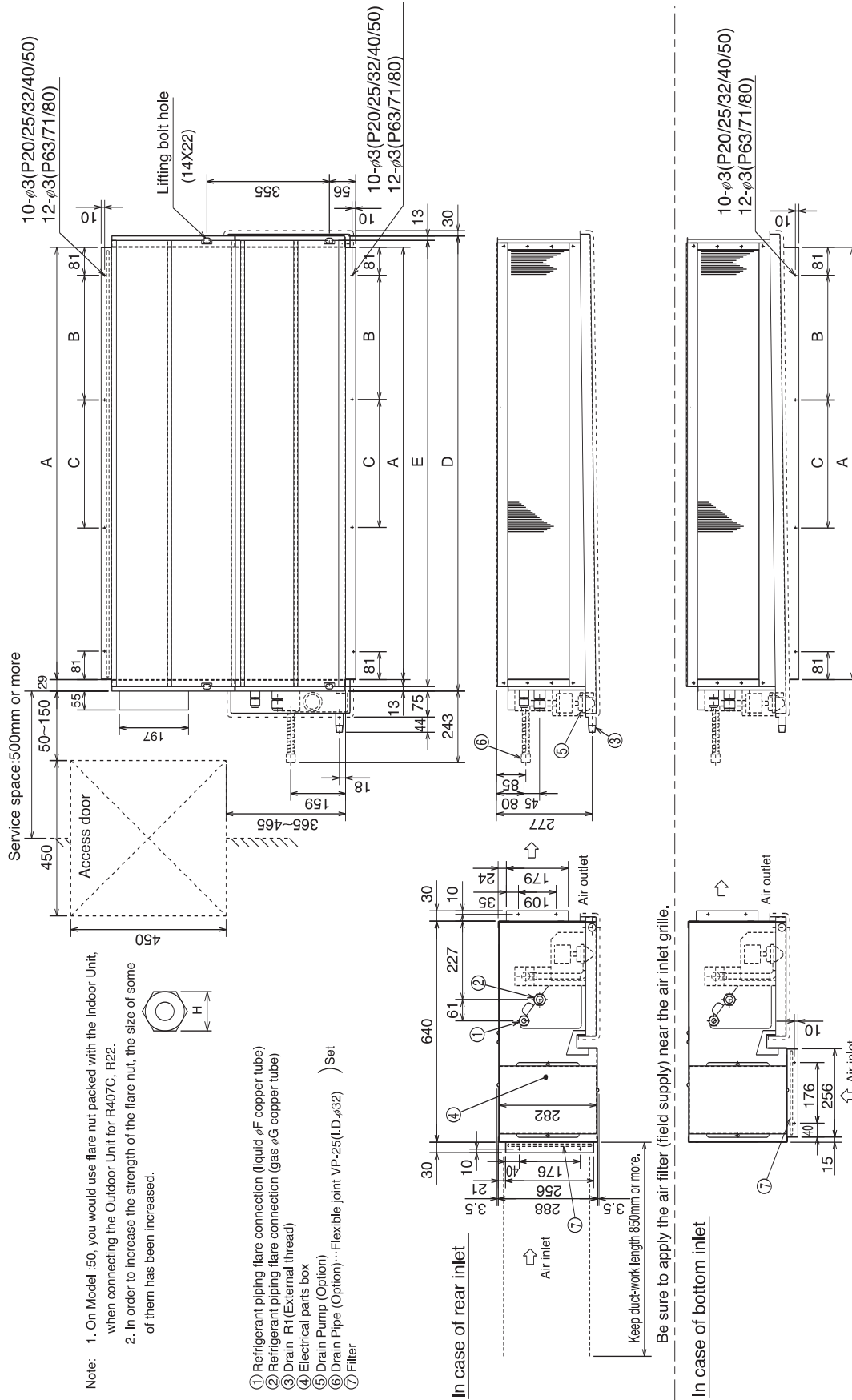
3-3. Fan characteristics curves



- A
- B**
- C
- D
- E
- F
- G
- H
- I
- J
- V_a
- V_e
- BC

PEFY-P20,25,32,40,50,63,71,80VMM-E

Drw. : IU-W65-3948
Unit : mm



Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

- ① Refrigerant piping flare connection (liquid φF copper tube)
- ② Refrigerant piping flare connection (gas φG copper tube)
- ③ Drain R1(External thread)
- ④ Electrical parts box
- ⑤ Drain Pump (Option)
- ⑥ Drain Pipe (Option)···Flexible joint VP-25(L.D.φ32)Set
- ⑦ Filter

In case of rear inlet

In case of bottom inlet

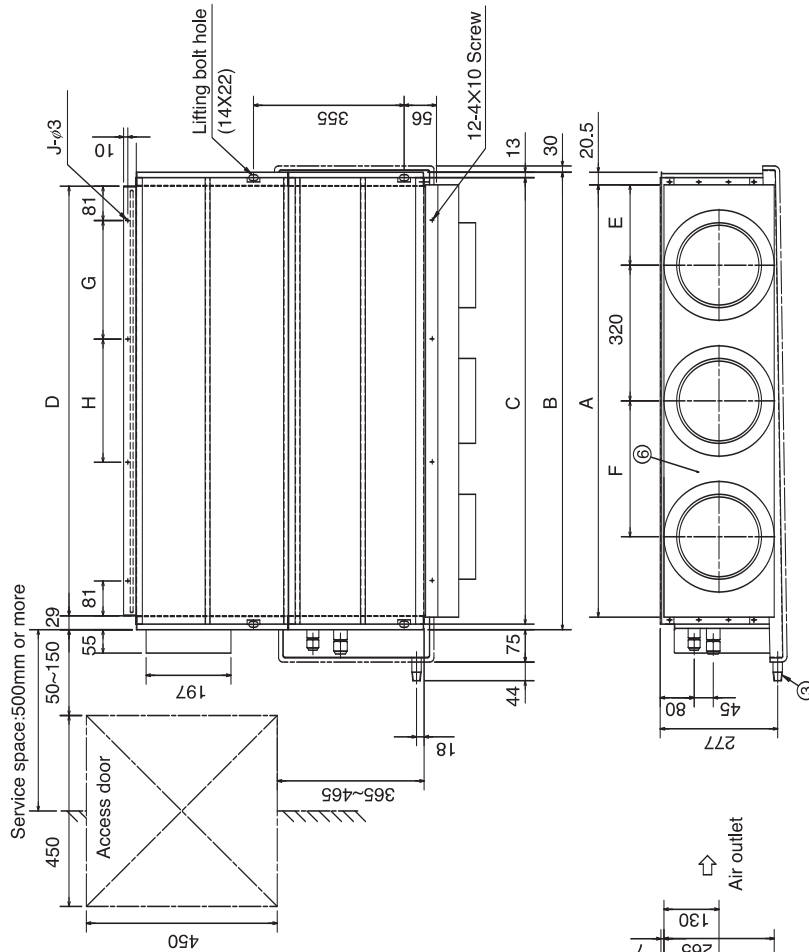
| Model | A | B | C | D | E | F | G | H(Liquid) | H(Gas) |
|-----------|------|-----|-----|------|------|------|-------|-----------|--------|
| P20,25,32 | 652 | 245 | - | 710 | 684 | 6.35 | 12.7 | 17 | 27 |
| P40 | 772 | 305 | - | 830 | 804 | 6.35 | 12.7 | 17 | 27 |
| P50 | 772 | 305 | - | 830 | 804 | *1 | 12.7 | *1 | *1 |
| P63,71,80 | 1012 | 280 | 290 | 1070 | 1044 | *2 | 15.88 | *2 | *2 |
| | | | | | | 9.52 | 15.88 | 22 | 29 |

*1:R410A outdoor unit
*2:R407C,R22 outdoor unit

PEFY-P20,25,32,40,50,63,71,80VMM-E with circular duct flange

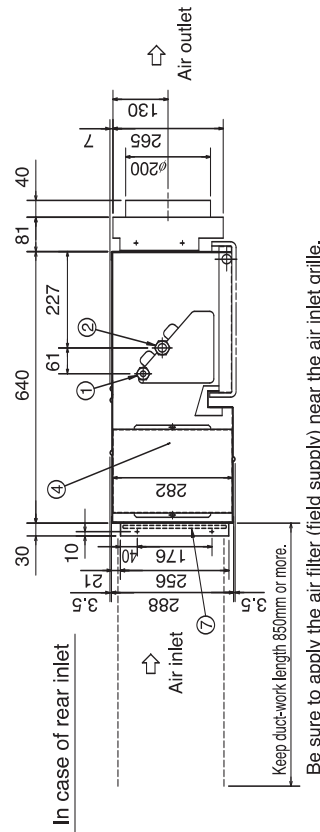
Draw. : IU-W65-3948-1
Unit : mm

| Model | A | B | C | D | E | F | G | H | J |
|-----------|------|------|------|------|-------|-----|-----|-----|----|
| P20,25,32 | 669 | 710 | 684 | 652 | 174.5 | — | 245 | — | 10 |
| P40,50 | 789 | 830 | 804 | 772 | 234.5 | — | 305 | — | 10 |
| P63,71,80 | 1029 | 1070 | 1044 | 1012 | 194.5 | 320 | 280 | 290 | 12 |



- 1 Refrigerant piping flare connection (liquid φ K copper tube)
- 2 Refrigerant piping flare connection (gas φ L copper tube)
- 3 Drain R1 (External thread)
- 4 Electrical parts box
- 5 Filter
- 6 Circular duct flange (Option)

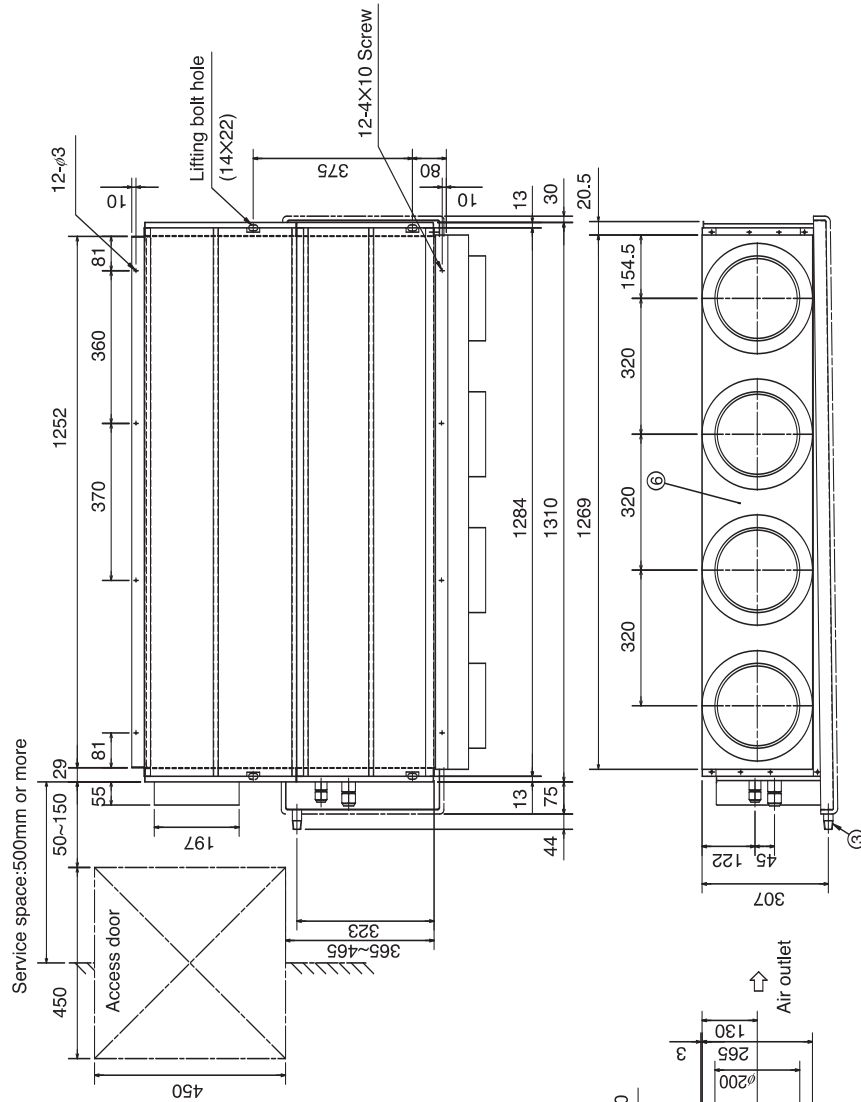
| Model | K | L |
|-----------|------|-------|
| P20,25,32 | 6.35 | 12.7 |
| P40,50 | 6.35 | 12.7 |
| P63,71,80 | 9.52 | 15.88 |



4. EXTERNAL DIMENSIONS

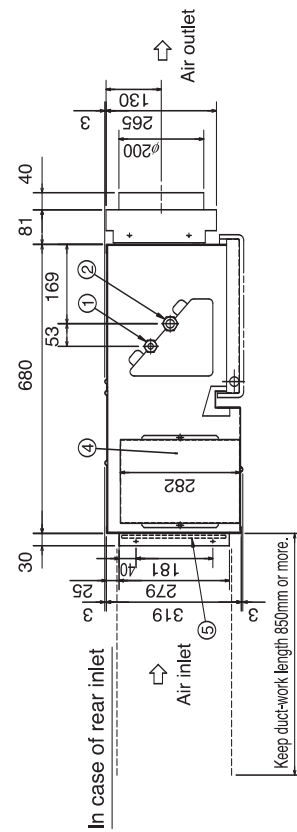
PEFY-P100,125VMM-E with circular duct flange

Drw. : IU-W65-3949-1
Unit : mm



Service space: 500mm or more

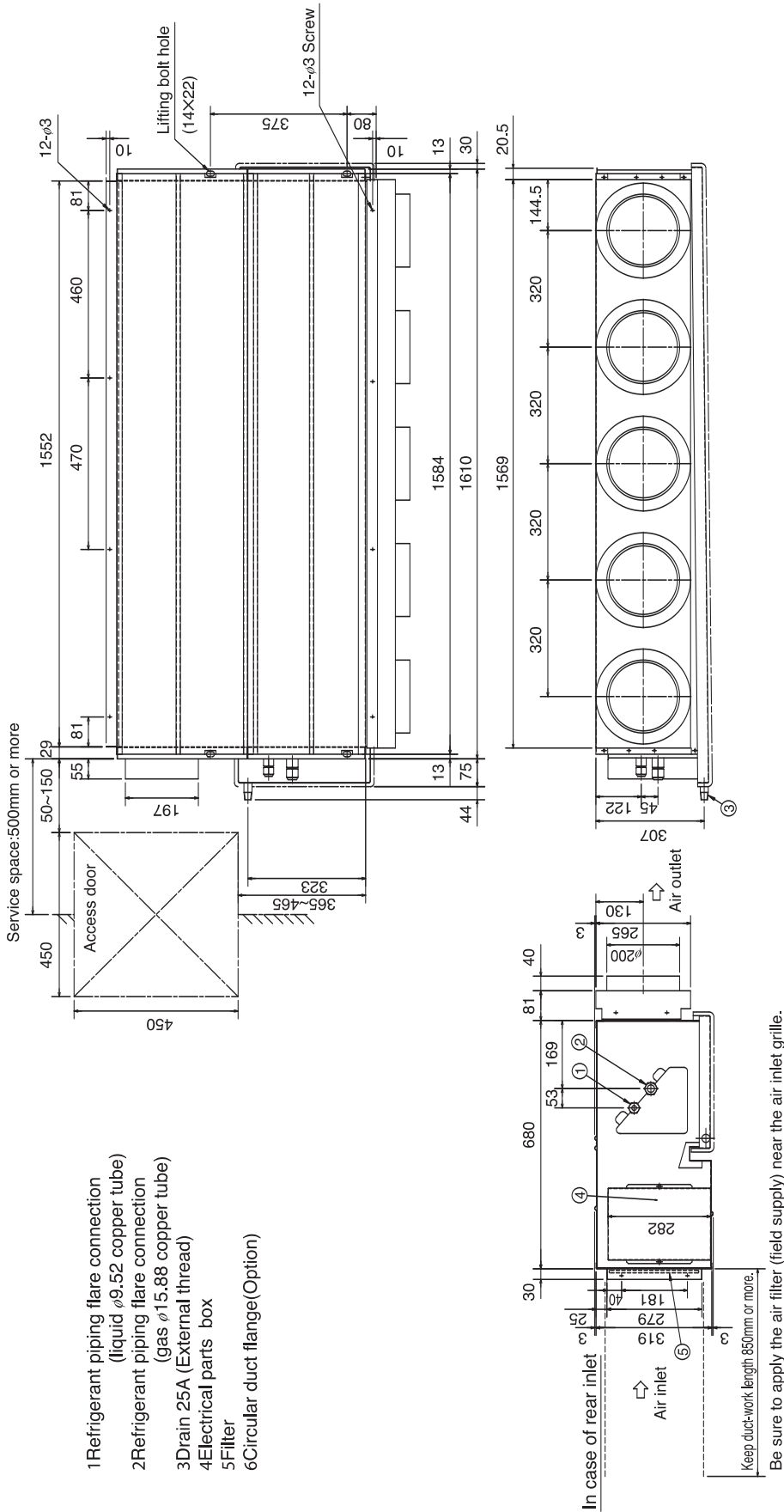
- 1 Refrigerant piping flare connection (liquid ϕ 9.52 copper tube)
- 2 Refrigerant piping flare connection (gas ϕ 15.88 copper tube)
- 3 Drain 25A (External thread)
- 4 Electrical parts box
- 5 Filter
- 6 Circular duct flange (Option)



Be sure to apply the air filter (field supply) near the air inlet grille.

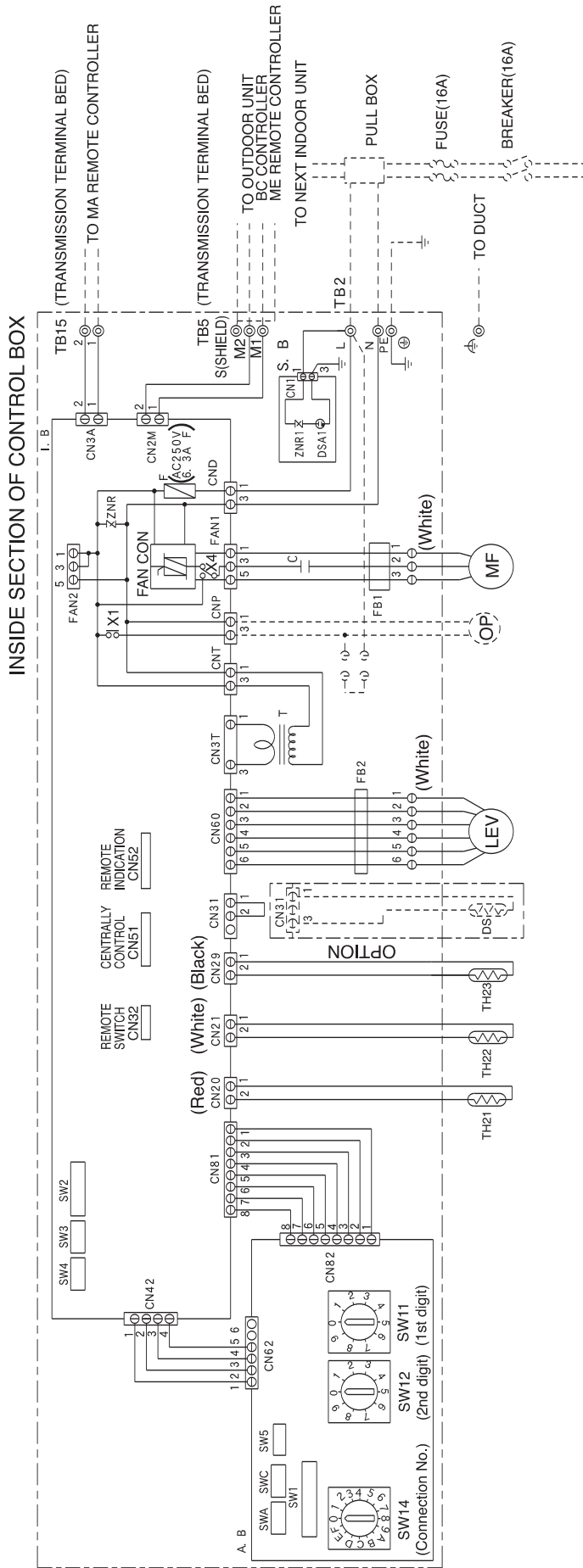
PEFY-P140VMM-E with circular duct flange

Draw. : IU-W65-3949-2
Unit : mm



PEFY-P20,25,32,40,50,63,71,80VMM-E

Draw. : IU-W65-3958



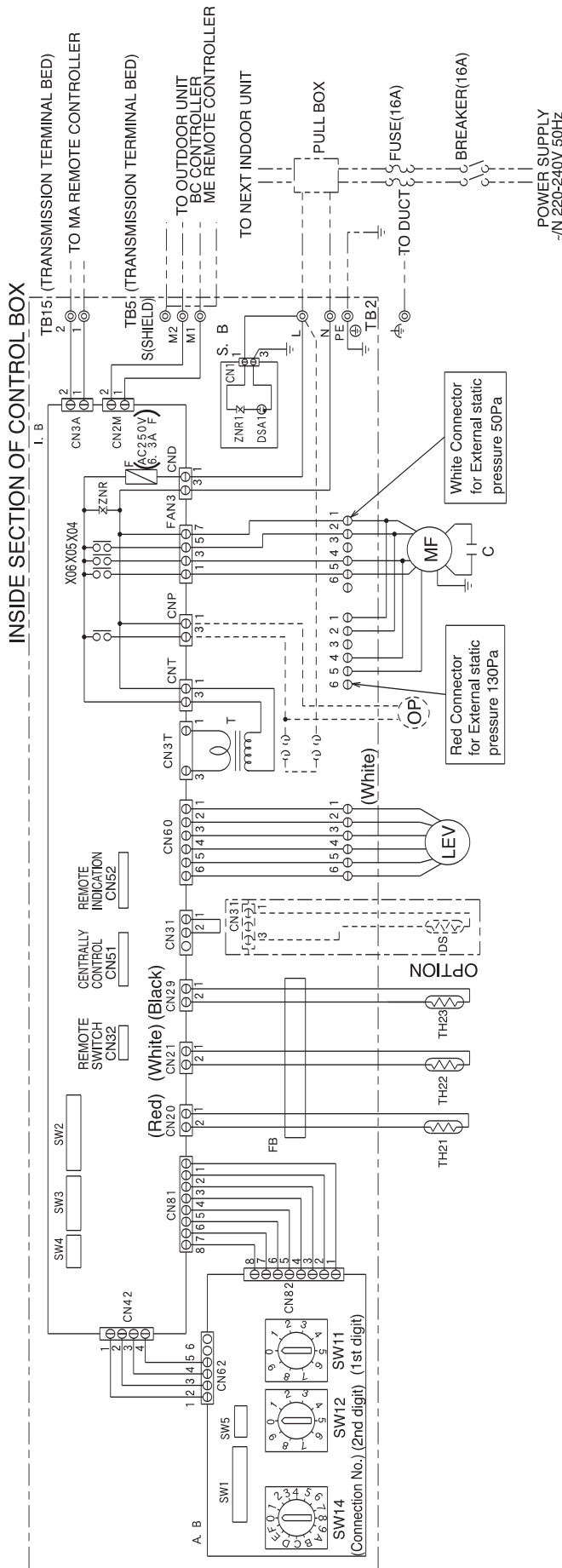
NOTE: 1. TB2, TB5 shown in dotted line are field work.
 2. Mark (⊙) indicates terminal bed, (⊖) board insertion connector or fastening connector of control board.
 *Capacitor
 MODELS 20/25/32 6.4F
 MODELS 40/50 6.4F
 MODELS 63/71/80 6.4F

SYMBOL EXPLANATION

| SYMBOL | NAME | SYMBOL | NAME |
|--------|---|-----------|--------------------------------|
| MF | Fan motor | SWA (AB) | Switch (option parts) |
| C | *Capacitor (for MF) | SWC (AB) | Switch (option parts) |
| IB | Indoor controller board | SW11 (AB) | Switch (1st digit address set) |
| AB | Address board | SW12 (AB) | Switch (2nd digit address set) |
| TB2 | Power source terminal bed | SW14 (AB) | Switch (connection No.set) |
| TB5 | Transmission terminal bed | SW1 (AB) | Switch (for mode selection) |
| TB15 | Transmission terminal bed | SW2 (LB) | Switch (for capacity code) |
| F | Fuse AC250V 6.3AF | SW3 (LB) | Switch (for model selection) |
| T | Transformer | SW4 (LB) | Switch (for model selection) |
| LEV | Electronic linear expansion valve | SW5 (AB) | Switch (for voltage selection) |
| TH21 | Thermistor (inlet temp.detection) | FB1,2 | Ferrite core |
| TH22 | Thermistor (piping temp.detection/liquid) | SB | Surge absorber board |
| TH23 | Thermistor (piping temp.detection/gas) | DP | Drainpump |
| | | DS | Drainsensor |

PEFY-P100,125,140VMM-E

Drw. : IU-W65-3959



SYMBOL EXPLANATION

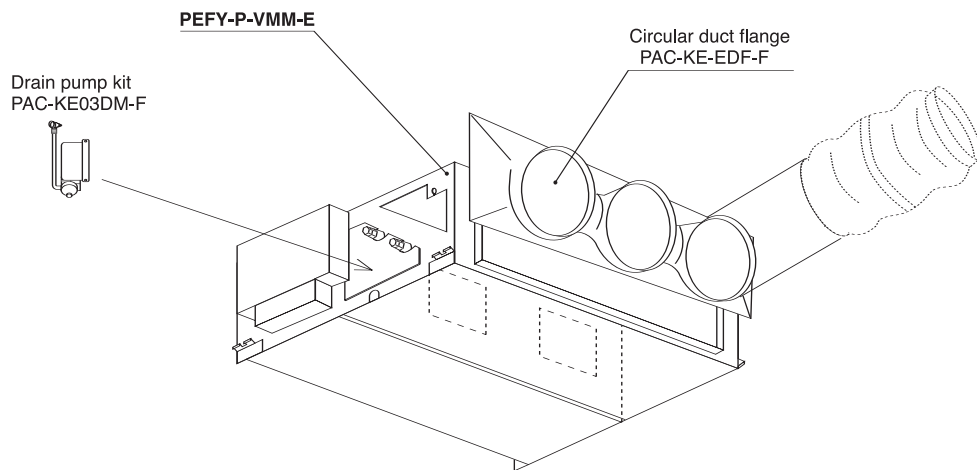
| SYMBOL | NAME | SYMBOL | NAME |
|--------|--------------------------------|------------|------------------------------------|
| MF | Fan motor | TH22 | Thermistor (inlet temp.detection) |
| C | Capacitor (for MF) | TH23 | Thermistor (temp.detection/liquid) |
| I.B | Indoor controller board | SW11 (A.B) | Switch (1st digit address set) |
| AB | Address board | SW12 (A.B) | Switch (2nd digit address set) |
| TB2 | Power source terminal bed | SW14 (A.B) | Switch (connection No.set) |
| TB15 | Transmission terminal bed | SW1 (A.B) | Switch (for mode selection) |
| TB5 | Transmission terminal bed | SW2 (I.B) | Switch (for capacity code) |
| F | Fuse AC250V 6.3A F | SW3 (I.B) | Switch (for model selection) |
| T | Transformer | SW4 (I.B) | Switch (for voltage selection) |
| LEV | Electronic linear expan. valve | SW5 (A.B) | Switch (for model selection) |
| S.B | Surge absorber board | X04~06 | Aux. relay |
| FB | Ferrite core | DP | Drainpump |
| TH21 | Thermistor (temp.detection) | DS | Drainsensor |

NOTE: 1. TB2, TB5 shown in dotted line are field work.

2. Mark (●) indicates terminal bed, (○) connector, (⊕) board insertion connector or fastening connector of control board.

※Capacitor
MODELS 100/125/140 8μF

| Description | Model | Applicable capacity |
|----------------------|----------------|--|
| Circular duct flange | PAC-KE32EDF-F | PEFY-P20,25,32VMM-E |
| | PAC-KE50EDF-F | PEFY-P40,50VMM-E |
| | PAC-KE80EDF-F | PEFY-P63,71,80VMM-E |
| | PAC-KE125EDF-F | PEFY-P100,125VMM-E |
| | PAC-KE140EDF-F | PEFY-P140VMM-E |
| Drain pump kit | PAC-KE03DM-F | PEFY-P20,25,32,40,50,63,71VMM-E PEFY-P80,100,125,140VMM-E |



- A
- B**
- C
- D
- E
- F
- G
- H
- I
- J
- V_a
- V_b
- BC

- A
- B**
- C
- D
- E
- F
- G
- H
- I
- J
- V_a
- V_b
- BC



PMFY-P-VBM-E

PMFY-P-VBM-E

| | |
|--|----------|
| 1. SPECIFICATIONS | IU-E- 2 |
| 2. CAPACITY TABLES | |
| 2-1a. Cooling capacity in combination with PUHY,PUY, PURY-P200, 250YGM | IU-E- 3 |
| 2-1b. Heating capacity in combination with PUHY, PURY-P200, 250YGM | IU-E- 4 |
| 2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM | IU-E- 5 |
| 2-2b. Heating capacity in combination with PUHY, PURY-P300, 350, 400YGM | IU-E- 6 |
| 2-3a. Cooling capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-E- 7 |
| 2-3b. Heating capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-E- 8 |
| 2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-E- 9 |
| 2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-E- 10 |
| 2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM | IU-E- 11 |
| 2-5b. Heating capacity in combination with PUMY-P100,125,140YHM | IU-E- 12 |
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| 3-2. NC curve | IU-E- 13 |
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| 5. ELECTRICAL WIRING DIAGRAMS | IU-E- 15 |
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| 6-2. Airflow distributions | IU-E- 16 |

- A
- B
- C
- D
- E**
- F
- G
- H
- I
- J
- V₄
- V₅
- BC

| Cassette ceiling | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PMFY-P-VBM-E | ● | ● | ● | ● | | | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PMFY-P20VBM-E | PMFY-P25VBM-E | PMFY-P32VBM-E | PMFY-P40VBM-E | | | | |
|--|--|--|---|-----------------------|-----------------------|------------------------|---|--|---|---|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | | | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | | | | |
| | | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 | | | | |
| | | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 | | | | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 | | | | |
| | | Power input | kW | 0.042 | 0.044 | 0.044 | 0.054 | | | |
| Current input | | A | 0.20 | 0.21 | 0.21 | 0.26 | | | | |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | | | | |
| | | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 | | | | |
| | | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 | | | | |
| | Power input | kW | 0.042 | 0.044 | 0.044 | 0.054 | | | | |
| | | Current input | A | 0.20 | 0.21 | 0.21 | 0.26 | | | |
| External finish | | | Galvanized, with grey insulation sheet | | | | | | | |
| External dimension H x W x D | | mm | 230 x 812 x 395 | | | | | | | |
| | | in. | 9-1/16" x 32" x 15-9/16" | | | | | | | |
| Net weight | | kg (lb) | 14 (31) | | | | | | | |
| Decoration panel | Model | | PMP-40BM | PMP-40BM | PMP-40BM | PMP-40BM | | | | |
| | External finish | | MUNSELL (0.98Y 8.99/0.63) | | | | | | | |
| | Dimension | | 30 x 1,000 x 470 | | | | | | | |
| | H x W x D | | 1-3/16" x 39-3/8" x 18-9/16" | | | | | | | |
| | Net Weight | | 3 (7) | | | | | | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | | | |
| FAN | Type x Quantity | | Line flow fan x 1 | | | | | | | |
| | External static press. | Pa | 0 | | | | | | | |
| | | mmH ₂ O | 0 | | | | | | | |
| | Motor type | | 1-phase induction motor | | | | | | | |
| | Motor output | | kW | | | | | | | |
| | Driving mechanism | | Direct-driven by motor | | | | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 6.5 - 7.2 - 8.0 - 8.7 | 7.3 - 8.0 - 8.6 - 9.3 | 7.3 - 8.0 - 8.6 - 9.3 | 7.7 - 8.7 - 9.7 - 10.7 | | | | |
| L / s | | 108 - 120 - 133 - 145 | 122 - 133 - 143 - 155 | 122 - 133 - 143 - 155 | 128 - 145 - 162 - 178 | | | | | |
| cfm | | 230 - 254 - 283 - 307 | 258 - 283 - 304 - 328 | 258 - 283 - 304 - 328 | 272 - 307 - 343 - 378 | | | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 27 - 30 - 33 - 35 | 32 - 34 - 36 - 37 | 32 - 34 - 36 - 37 | 33 - 35 - 37 - 39 | | | | |
| Insulation material | | | Polyester sheet | | | | | | | |
| Air filter | | | PP honeycomb fabric | | | | | | | |
| Protection device | | | Fuse | | | | | | | |
| Refrigerant control device | | | LEV | | | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | | | | |
| | | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | | | | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | | | | |
| | | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | | | | |
| Diameter of drain pipe | | mm (in.) | O.D. ø25 (VP-20) | | | | | | | |
| Drawing | External | | IU-BH01-C184 | | | | | | | |
| | Wiring | | IU-RG79-A671 | | | | | | | |
| | Refrigerant cycle | | | | | | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | | | | |
| Remark | Optional parts | | | | | | | | | |
| | Decoration panel | | PMP-40BM | PMP-40BM | PMP-40BM | PMP-40BM | | | | |
| | | | *PMFY-P-VBM-E should used together with PMP-40BM | | | | | | | |
| Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | | | | | |
| Note : <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; vertical-align: top;"> *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) </td> <td style="width:15%; vertical-align: top;"> Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m³/min x 35.31 lb = kg / 0.4536 </td> </tr> </table> | | | | | | | *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 |
| *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 | | | | | | | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice. | | | | | | | | | | |
| Ref.: Spec_PMFY-P20VBM-E | | | | | | | | | | |

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PMFY-P-VBM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | 2.8 | 1.8 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | 2.8 | 1.8 |
| | 77 | 25.0 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 |
| | 82 | 27.5 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 91 | 32.5 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.7 | 2.6 | 1.7 |
| | 95 | 35.0 | 2.0 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.7 | 2.5 | 1.7 |
| | 100 | 37.5 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.5 | 1.7 |
| | 104 | 40.0 | 1.9 | 1.6 | 1.9 | 1.6 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.7 |
| | 110 | 43.0 | 1.8 | 1.6 | 1.9 | 1.6 | 2.0 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 73 | 22.5 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 77 | 25.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 91 | 32.5 | 2.5 | 2.0 | 2.6 | 2.1 | 2.8 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 95 | 35.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.0 | 3.1 | 2.0 |
| | 110 | 43.0 | 2.4 | 1.9 | 2.4 | 2.0 | 2.6 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.8 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.6 | 2.6 |
| | 73 | 22.5 | 3.4 | 2.4 | 3.5 | 2.5 | 3.8 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.6 | 2.6 |
| | 77 | 25.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.8 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.5 |
| | 82 | 27.5 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.1 | 2.5 | 4.4 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.4 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.5 | 4.3 | 2.5 |
| | 91 | 32.5 | 3.3 | 2.4 | 3.4 | 2.4 | 3.6 | 2.4 | 3.7 | 2.4 | 3.8 | 2.5 | 4.0 | 2.5 | 4.2 | 2.4 |
| | 95 | 35.0 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.4 | 4.1 | 2.4 |
| | 100 | 37.5 | 3.2 | 2.3 | 3.2 | 2.4 | 3.4 | 2.3 | 3.5 | 2.4 | 3.6 | 2.4 | 3.8 | 2.4 | 4.0 | 2.4 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | 3.5 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 4.0 | 2.3 |
| | 110 | 43.0 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.3 | 2.3 | 3.5 | 2.4 | 3.6 | 2.3 | 3.9 | 2.3 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.0 | 4.9 | 3.1 | 5.0 | 3.2 | 5.3 | 3.1 | 5.7 | 3.1 |
| | 73 | 22.5 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.0 | 4.9 | 3.1 | 5.0 | 3.2 | 5.3 | 3.1 | 5.7 | 3.1 |
| | 77 | 25.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.0 | 4.9 | 3.1 | 5.0 | 3.2 | 5.3 | 3.1 | 5.6 | 3.1 |
| | 82 | 27.5 | 4.3 | 3.0 | 4.4 | 3.0 | 4.6 | 3.0 | 4.8 | 3.0 | 4.9 | 3.1 | 5.2 | 3.1 | 5.5 | 3.0 |
| | 86 | 30.0 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.7 | 3.0 | 4.8 | 3.1 | 5.0 | 3.0 | 5.4 | 3.0 |
| | 91 | 32.5 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 2.9 | 4.6 | 2.9 | 4.7 | 3.0 | 5.0 | 3.0 | 5.3 | 2.9 |
| | 95 | 35.0 | 4.0 | 2.8 | 4.1 | 2.9 | 4.4 | 2.9 | 4.5 | 2.9 | 4.6 | 3.0 | 4.9 | 2.9 | 5.2 | 2.9 |
| | 100 | 37.5 | 3.9 | 2.8 | 4.1 | 2.9 | 4.3 | 2.8 | 4.4 | 2.8 | 4.5 | 3.0 | 4.8 | 2.9 | 5.0 | 2.8 |
| | 104 | 40.0 | 3.9 | 2.8 | 4.0 | 2.8 | 4.2 | 2.8 | 4.3 | 2.8 | 4.5 | 2.9 | 4.7 | 2.9 | 5.0 | 2.8 |
| | 110 | 43.0 | 3.8 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.2 | 2.8 | 4.3 | 2.9 | 4.5 | 2.8 | 4.8 | 2.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PURY-P200,250YGM

PMFY-P-VBM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PMFY-P-VBM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.5 | 1.9 | 2.7 | 1.8 | 2.9 | 1.8 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.8 | 2.8 | 1.8 |
| | 77 | 25.0 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | 2.8 | 1.8 |
| | 82 | 27.5 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 91 | 32.5 | 2.0 | 1.6 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.7 |
| | 95 | 35.0 | 2.0 | 1.6 | 2.0 | 1.7 | 2.1 | 1.6 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.7 | 2.5 | 1.7 |
| | 100 | 37.5 | 1.9 | 1.6 | 1.9 | 1.6 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | 2.5 | 1.7 |
| | 104 | 40.0 | 1.9 | 1.6 | 1.9 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.4 | 1.8 | 2.3 | 1.7 | 2.4 | 1.7 |
| 110 | 43.0 | 1.8 | 1.6 | 1.8 | 1.6 | 2.0 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.3 | 3.4 | 2.2 | 3.6 | 2.2 |
| | 73 | 22.5 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.2 | 3.4 | 2.2 | 3.6 | 2.2 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.2 | 2.2 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.6 | 2.0 | 2.6 | 2.1 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 91 | 32.5 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 95 | 35.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.2 | 2.1 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.4 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 3.0 | 2.2 | 2.9 | 2.0 | 3.1 | 2.0 |
| 110 | 43.0 | 2.4 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.5 | 3.6 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.7 | 4.4 | 2.6 | 4.7 | 2.6 |
| | 73 | 22.5 | 3.5 | 2.5 | 3.6 | 2.5 | 3.8 | 2.5 | 4.0 | 2.6 | 4.1 | 2.6 | 4.3 | 2.6 | 4.6 | 2.6 |
| | 77 | 25.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.8 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.5 |
| | 82 | 27.5 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.5 | 4.4 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.4 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.5 | 4.1 | 2.5 | 4.3 | 2.5 |
| | 91 | 32.5 | 3.3 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.7 | 2.4 | 3.8 | 2.5 | 4.0 | 2.5 | 4.2 | 2.4 |
| | 95 | 35.0 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.4 | 4.2 | 2.4 |
| | 100 | 37.5 | 3.2 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | 3.5 | 2.4 | 3.6 | 2.4 | 3.9 | 2.4 | 4.1 | 2.4 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.1 | 2.3 | 3.3 | 2.3 | 3.4 | 2.3 | 3.9 | 2.6 | 3.8 | 2.4 | 4.0 | 2.3 |
| 110 | 43.0 | 3.0 | 2.2 | 3.0 | 2.3 | 3.2 | 2.2 | 3.3 | 2.3 | 3.4 | 2.4 | 3.7 | 2.3 | 3.9 | 2.3 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.9 | 3.1 | 5.0 | 3.1 | 5.2 | 3.3 | 5.5 | 3.2 | 5.9 | 3.2 |
| | 73 | 22.5 | 4.3 | 3.0 | 4.5 | 3.1 | 4.8 | 3.1 | 5.0 | 3.1 | 5.1 | 3.2 | 5.4 | 3.2 | 5.7 | 3.1 |
| | 77 | 25.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.0 | 4.9 | 3.1 | 5.0 | 3.2 | 5.3 | 3.1 | 5.6 | 3.1 |
| | 82 | 27.5 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.8 | 3.0 | 4.9 | 3.1 | 5.2 | 3.1 | 5.5 | 3.0 |
| | 86 | 30.0 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 2.9 | 4.7 | 3.0 | 4.8 | 3.1 | 5.1 | 3.1 | 5.4 | 3.0 |
| | 91 | 32.5 | 4.1 | 2.9 | 4.2 | 2.9 | 4.4 | 2.9 | 4.6 | 2.9 | 4.7 | 3.0 | 5.0 | 3.0 | 5.3 | 2.9 |
| | 95 | 35.0 | 4.0 | 2.8 | 4.1 | 2.9 | 4.3 | 2.8 | 4.5 | 2.9 | 4.6 | 3.0 | 4.9 | 3.0 | 5.2 | 2.9 |
| | 100 | 37.5 | 4.0 | 2.8 | 4.0 | 2.8 | 4.3 | 2.8 | 4.4 | 2.8 | 4.5 | 3.0 | 4.8 | 2.9 | 5.1 | 2.9 |
| | 104 | 40.0 | 3.9 | 2.8 | 3.9 | 2.8 | 4.2 | 2.8 | 4.3 | 2.8 | 4.9 | 3.1 | 4.7 | 2.9 | 5.0 | 2.8 |
| 110 | 43.0 | 3.8 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.8 | 4.3 | 2.9 | 4.6 | 2.8 | 4.8 | 2.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PMFY-P-VBM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 55 | 12.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PMFY-P-VBM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | 2.8 | 1.8 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 |
| | 82 | 27.5 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 86 | 30.0 | 2.0 | 1.6 | 2.0 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.6 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 95 | 35.0 | 2.0 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 100 | 37.5 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.6 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.7 |
| | 104 | 40.0 | 1.9 | 1.6 | 1.9 | 1.6 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.7 | 2.6 | 1.7 |
| 110 | 43.0 | 1.9 | 1.6 | 1.9 | 1.6 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | 2.6 | 1.7 | |
| 25 (2.8) | 68 | 20.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 73 | 22.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 77 | 25.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 2.9 | 2.1 | 3.1 | 2.2 | 3.2 | 2.2 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.2 | 3.2 | 2.2 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 91 | 32.5 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 95 | 35.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.7 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 |
| 110 | 43.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.5 |
| | 73 | 22.5 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.5 |
| | 77 | 25.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.7 | 2.4 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.5 | 4.4 | 2.5 |
| | 82 | 27.5 | 3.3 | 2.4 | 3.4 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.5 | 4.3 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.3 | 2.4 | 3.6 | 2.4 | 3.7 | 2.4 | 3.9 | 2.5 | 4.1 | 2.5 | 4.4 | 2.5 |
| | 91 | 32.5 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.8 | 2.5 | 4.1 | 2.5 | 4.3 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 4.0 | 2.5 | 4.3 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.3 | 3.2 | 2.4 | 3.5 | 2.3 | 3.5 | 2.4 | 3.7 | 2.5 | 4.0 | 2.5 | 4.2 | 2.4 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | 3.5 | 2.3 | 3.7 | 2.5 | 4.0 | 2.5 | 4.2 | 2.4 |
| 110 | 43.0 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | 3.5 | 2.3 | 3.6 | 2.4 | 3.9 | 2.4 | 4.2 | 2.4 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.7 | 3.0 | 4.8 | 3.0 | 5.0 | 3.2 | 5.3 | 3.1 | 5.7 | 3.1 |
| | 73 | 22.5 | 4.2 | 3.0 | 4.3 | 3.0 | 4.6 | 3.0 | 4.8 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.6 | 3.1 |
| | 77 | 25.0 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.7 | 3.0 | 4.9 | 3.1 | 5.2 | 3.1 | 5.6 | 3.0 |
| | 82 | 27.5 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 3.0 | 4.7 | 3.0 | 4.9 | 3.1 | 5.2 | 3.1 | 5.4 | 3.0 |
| | 86 | 30.0 | 4.1 | 2.9 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 3.0 | 4.8 | 3.1 | 5.1 | 3.1 | 5.4 | 3.0 |
| | 91 | 32.5 | 4.1 | 2.9 | 4.1 | 2.9 | 4.4 | 2.9 | 4.5 | 2.9 | 4.8 | 3.1 | 5.1 | 3.0 | 5.4 | 3.0 |
| | 95 | 35.0 | 4.0 | 2.8 | 4.1 | 2.9 | 4.4 | 2.9 | 4.5 | 2.9 | 4.7 | 3.0 | 5.0 | 3.0 | 5.4 | 3.0 |
| | 100 | 37.5 | 4.0 | 2.8 | 4.0 | 2.9 | 4.3 | 2.8 | 4.4 | 2.9 | 4.7 | 3.0 | 5.0 | 3.0 | 5.3 | 3.0 |
| | 104 | 40.0 | 3.9 | 2.8 | 4.0 | 2.8 | 4.3 | 2.8 | 4.4 | 2.8 | 4.6 | 3.0 | 5.0 | 3.0 | 5.3 | 2.9 |
| 110 | 43.0 | 3.9 | 2.8 | 3.9 | 2.8 | 4.2 | 2.8 | 4.3 | 2.8 | 4.5 | 3.0 | 4.9 | 2.9 | 5.2 | 2.9 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PMFY-P-VBM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PMFY-P-VBM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|--------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|
| | | | 71°FDB / 59°FWB 21.5°CDB / 15°CWB | | 73°FDB / 61°FWB 23°CDB / 16°CWB | | 77°FDB / 64°FWB 25°CDB / 18°CWB | | 81°FDB / 66°FWB 27°CDB / 19°CWB | | 82°FDB / 68°FWB 28°CDB / 20°CWB | | 86°FDB / 72°FWB 30°CDB / 22°CWB | | 90°FDB / 75°FWB 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.8 |
| | 68 | 20.0 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 |
| | 86 | 30.0 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.7 | 2.5 | 1.7 |
| | 104 | 40.0 | 1.7 | 1.5 | 1.8 | 1.6 | 1.9 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.6 |
| | 113 | 45.0 | 1.6 | 1.5 | 1.7 | 1.5 | 1.8 | 1.5 | 1.9 | 1.6 | 1.9 | 1.6 | 2.0 | 1.6 | 2.2 | 1.6 |
| 25 (2.8) | 50 | 10.0 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 | 3.3 | 2.3 | 3.5 | 2.2 | 3.7 | 2.2 |
| | 68 | 20.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 86 | 30.0 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.2 | 2.1 |
| | 104 | 40.0 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 |
| | 113 | 45.0 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 | 4.2 | 2.7 | 4.5 | 2.7 | 4.7 | 2.6 |
| | 68 | 20.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.9 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.5 |
| | 86 | 30.0 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.4 | 4.2 | 2.4 |
| | 104 | 40.0 | 2.9 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.2 | 3.4 | 2.3 | 3.6 | 2.3 | 3.8 | 2.3 |
| | 113 | 45.0 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.0 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.1 | 4.6 | 3.2 | 4.9 | 3.1 | 5.1 | 3.2 | 5.2 | 3.3 | 5.6 | 3.2 | 5.9 | 3.2 |
| | 68 | 20.0 | 4.2 | 3.0 | 4.4 | 3.0 | 4.7 | 3.0 | 4.8 | 3.0 | 5.0 | 3.2 | 5.3 | 3.1 | 5.6 | 3.1 |
| | 86 | 30.0 | 3.9 | 2.8 | 4.1 | 2.9 | 4.4 | 2.9 | 4.5 | 2.9 | 4.6 | 3.0 | 4.9 | 3.0 | 5.2 | 2.9 |
| | 104 | 40.0 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.8 | 4.7 | 2.7 |
| | 113 | 45.0 | 3.3 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.6 | 3.9 | 2.7 | 4.2 | 2.7 | 4.4 | 2.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PMFY-P-VBM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °F | °C | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PMFY-P-VBM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----|--|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | | | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | | | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | | |
| | 73 | 22.5 | 2.1 | 1.6 | 2.1 | 1.7 | 2.3 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | | |
| | 77 | 25.0 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | | |
| | 82 | 27.5 | 2.0 | 1.6 | 2.1 | 1.6 | 2.2 | 1.7 | 2.3 | 1.7 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 | | |
| | 86 | 30.0 | 2.0 | 1.6 | 2.0 | 1.6 | 2.2 | 1.6 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.7 | 2.6 | 1.7 | | |
| | 91 | 32.5 | 1.9 | 1.5 | 2.0 | 1.6 | 2.1 | 1.6 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.7 | 2.6 | 1.7 | | |
| | 95 | 35.0 | 1.9 | 1.5 | 2.0 | 1.6 | 2.1 | 1.6 | 2.2 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | 2.5 | 1.7 | | |
| | 100 | 37.5 | 1.9 | 1.5 | 1.9 | 1.5 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | 2.5 | 1.7 | | |
| | 104 | 40.0 | 1.8 | 1.4 | 1.9 | 1.5 | 2.0 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.7 | | |
| | 110 | 43.0 | 1.8 | 1.4 | 1.8 | 1.5 | 2.0 | 1.5 | 2.1 | 1.6 | 2.1 | 1.6 | 2.3 | 1.6 | 2.4 | 1.6 | | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.0 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 | 3.4 | 2.1 | | |
| | 73 | 22.5 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.2 | 3.0 | 2.2 | 3.2 | 2.1 | 3.4 | 2.1 | | |
| | 77 | 25.0 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.1 | | |
| | 82 | 27.5 | 2.6 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 | | |
| | 86 | 30.0 | 2.5 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 | | |
| | 91 | 32.5 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 1.9 | 2.8 | 2.1 | 2.9 | 2.1 | 3.1 | 2.1 | 3.2 | 2.0 | | |
| | 95 | 35.0 | 2.4 | 1.8 | 2.5 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 | | |
| | 100 | 37.5 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 | | |
| | 104 | 40.0 | 2.3 | 1.7 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 | | |
| | 110 | 43.0 | 2.3 | 1.7 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.1 | 1.9 | | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.3 | 3.5 | 2.4 | 3.7 | 2.4 | 3.9 | 2.6 | 4.0 | 2.6 | 4.2 | 2.5 | 4.4 | 2.5 | | |
| | 73 | 22.5 | 3.4 | 2.3 | 3.5 | 2.4 | 3.7 | 2.4 | 3.8 | 2.5 | 3.9 | 2.5 | 4.1 | 2.5 | 4.3 | 2.5 | | |
| | 77 | 25.0 | 3.3 | 2.3 | 3.4 | 2.4 | 3.7 | 2.4 | 3.8 | 2.5 | 3.9 | 2.5 | 4.1 | 2.5 | 4.3 | 2.4 | | |
| | 82 | 27.5 | 3.3 | 2.2 | 3.4 | 2.3 | 3.6 | 2.3 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.4 | 4.3 | 2.4 | | |
| | 86 | 30.0 | 3.2 | 2.2 | 3.3 | 2.3 | 3.6 | 2.3 | 3.7 | 2.4 | 3.8 | 2.4 | 4.0 | 2.4 | 4.2 | 2.4 | | |
| | 91 | 32.5 | 3.2 | 2.2 | 3.3 | 2.2 | 3.5 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 4.0 | 2.4 | 4.2 | 2.4 | | |
| | 95 | 35.0 | 3.1 | 2.1 | 3.2 | 2.2 | 3.5 | 2.2 | 3.6 | 2.4 | 3.7 | 2.4 | 3.9 | 2.4 | 4.1 | 2.3 | | |
| | 100 | 37.5 | 3.0 | 2.1 | 3.2 | 2.2 | 3.4 | 2.2 | 3.5 | 2.3 | 3.6 | 2.3 | 3.9 | 2.3 | 4.1 | 2.3 | | |
| | 104 | 40.0 | 3.0 | 2.0 | 3.1 | 2.1 | 3.3 | 2.1 | 3.5 | 2.3 | 3.6 | 2.3 | 3.8 | 2.3 | 4.1 | 2.3 | | |
| | 110 | 43.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 2.2 | 3.5 | 2.3 | 3.7 | 2.3 | 4.0 | 2.2 | | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 2.8 | 4.4 | 2.9 | 4.7 | 2.9 | 4.8 | 3.1 | 5.0 | 3.1 | 5.2 | 3.0 | 5.5 | 3.0 | | |
| | 73 | 22.5 | 4.2 | 2.8 | 4.4 | 2.9 | 4.6 | 2.9 | 4.8 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 | 5.4 | 3.0 | | |
| | 77 | 25.0 | 4.2 | 2.8 | 4.3 | 2.9 | 4.6 | 2.9 | 4.7 | 3.0 | 4.8 | 3.0 | 5.1 | 3.0 | 5.4 | 2.9 | | |
| | 82 | 27.5 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.8 | 4.6 | 3.0 | 4.8 | 3.0 | 5.1 | 2.9 | 5.3 | 2.9 | | |
| | 86 | 30.0 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.8 | 4.6 | 3.0 | 4.7 | 2.9 | 5.0 | 2.9 | 5.3 | 2.9 | | |
| | 91 | 32.5 | 4.0 | 2.6 | 4.1 | 2.7 | 4.4 | 2.7 | 4.5 | 2.9 | 4.7 | 2.9 | 4.9 | 2.9 | 5.2 | 2.8 | | |
| | 95 | 35.0 | 3.9 | 2.6 | 4.0 | 2.7 | 4.3 | 2.7 | 4.5 | 2.9 | 4.6 | 2.9 | 4.9 | 2.9 | 5.2 | 2.8 | | |
| | 100 | 37.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.6 | 4.4 | 2.8 | 4.5 | 2.8 | 4.8 | 2.8 | 5.1 | 2.8 | | |
| | 104 | 40.0 | 3.7 | 2.5 | 3.9 | 2.6 | 4.2 | 2.6 | 4.3 | 2.8 | 4.5 | 2.8 | 4.8 | 2.8 | 5.1 | 2.8 | | |
| | 110 | 43.0 | 3.6 | 2.4 | 3.8 | 2.5 | 4.1 | 2.5 | 4.2 | 2.7 | 4.4 | 2.7 | 4.7 | 2.7 | 5.0 | 2.7 | | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PMFY-P-VBM-E

SHC : Sensible Heat Capacity(kW)

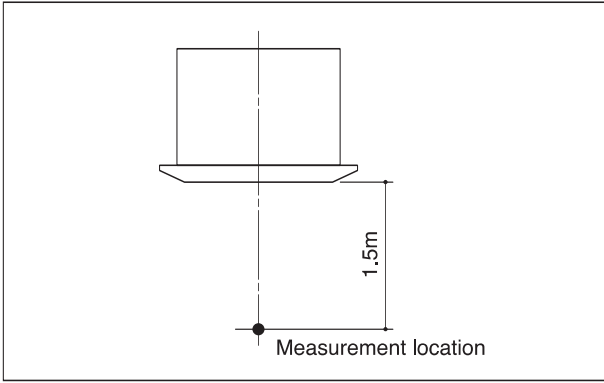
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 | |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 | |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

3. SOUND LEVELS

3-1. Sound levels

PMFY-P-VBM-E

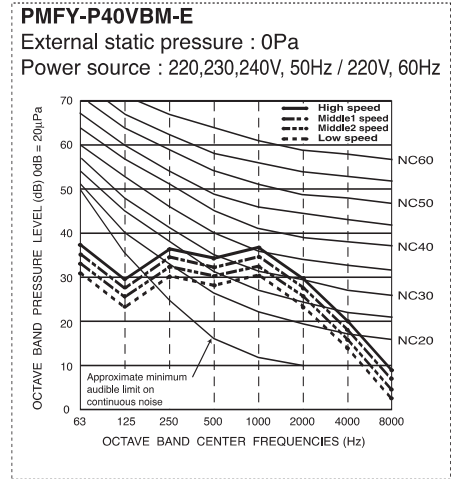
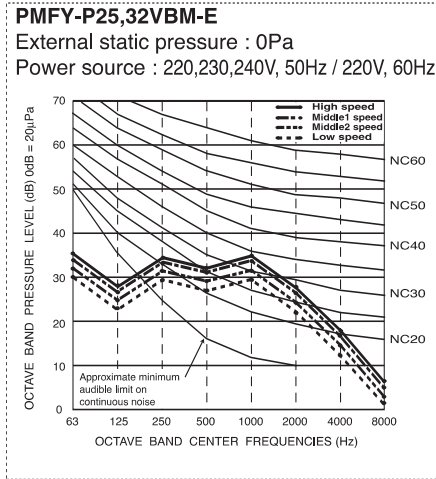
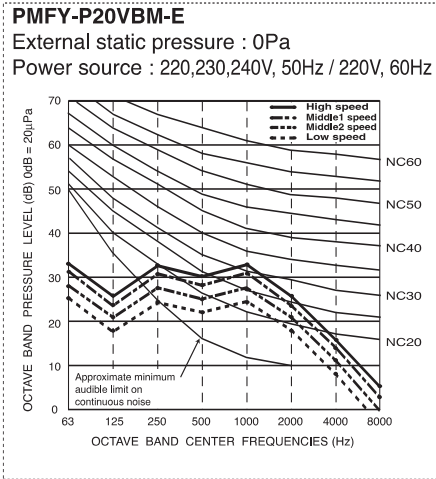


* Measured in anechoic room.

Sound level at anechoic room : Low-Middle2-Middle1-High

| | Sound level dB (A) |
|---------------|--------------------|
| PMFY-P20VBM-E | 27-30-33-35 |
| PMFY-P25VBM-E | 32-34-36-37 |
| PMFY-P32VBM-E | |
| PMFY-P40VBM-E | 33-35-37-39 |

3-2. NC curves



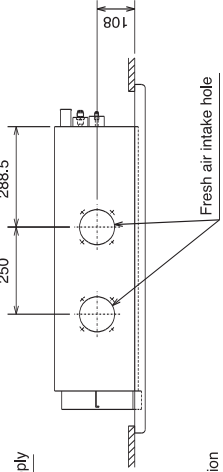
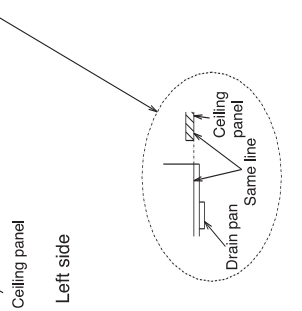
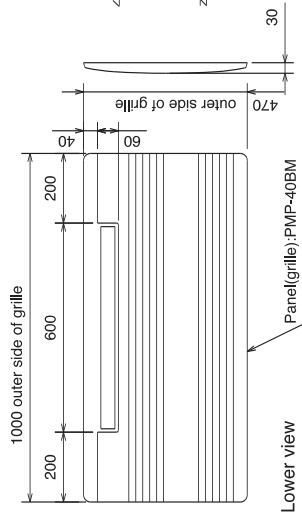
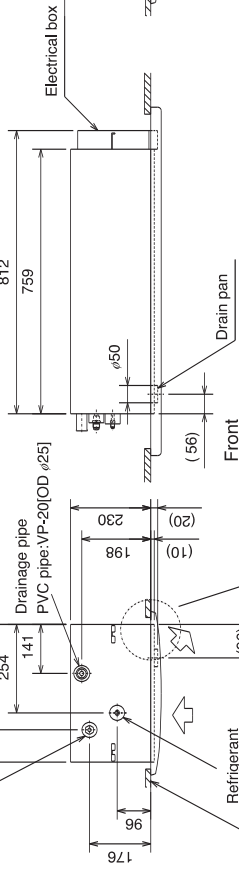
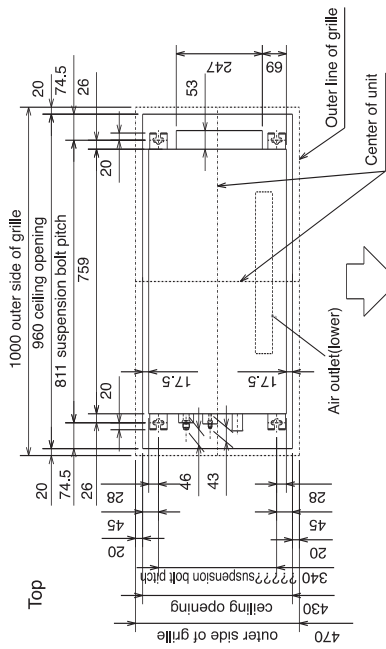
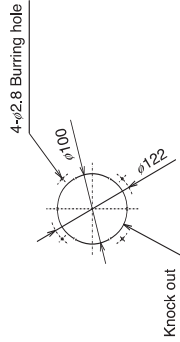
A
B
C
D
E
F
G
H
I
J
V₁
V₂
BC

PMFY-P20,25,32,40VBM-E

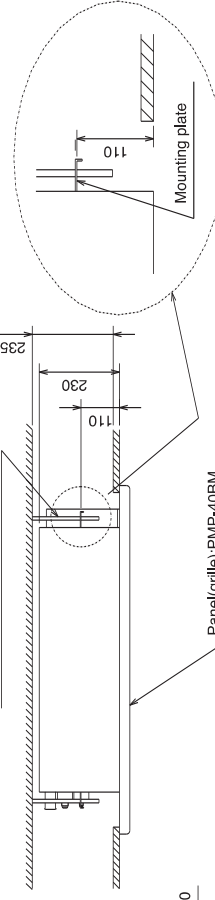
Drw. : IU-BH01-C184
Unit : mm

| | |
|--------------------|-----------------------------------|
| Refrigerant piping | OD ϕ 43 |
| Drainage piping | pipe cover |
| | Liquid pipe |
| | Gas pipe |
| | OD ϕ 6.35 (1/4") |
| | OD ϕ 12.7 (1/2") |
| | PVC pipe: VP-20(OD ϕ 25(1")) |

Detail drawing of fresh air intake hole

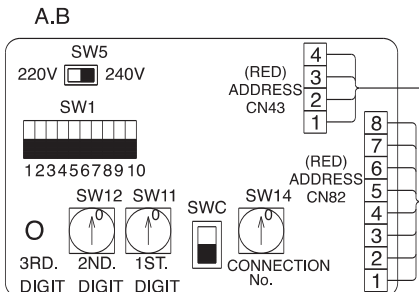
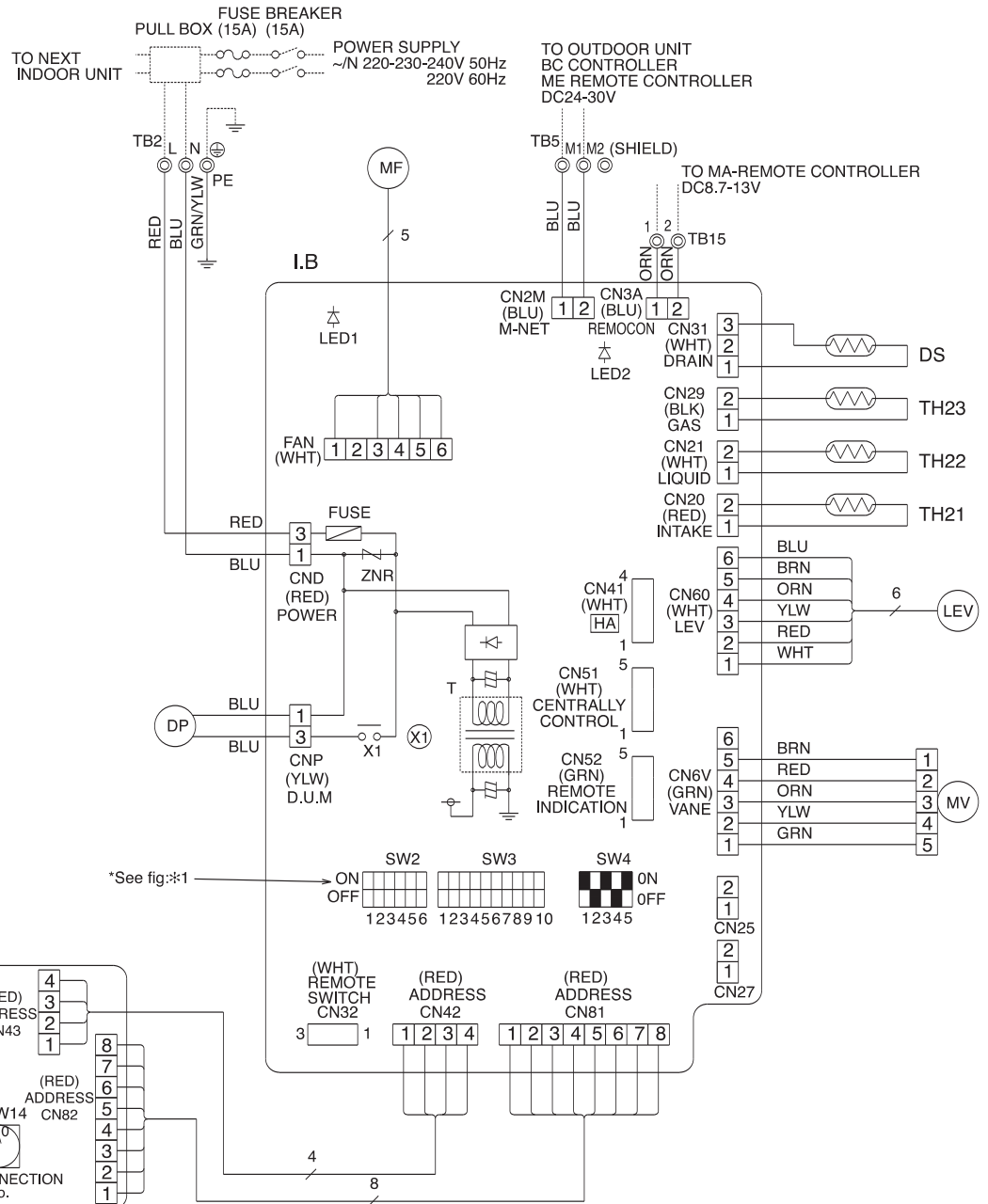


Installation space required around indoor unit



PMFY-P20,25,32,40VBM-E

Drw. : IU-RG79-A671



<SYMBOL EXPLANATION>

| SYMBOL | NAME | SYMBOL | NAME |
|--------|-------------------------|--------|--|
| I.B | INDOOR CONTROLLER BOARD | MF | FAN MOTOR |
| CN25 | HUMIDIFIER | MV | VANE MOTOR |
| CN27 | DAMPER | DP | DRAIN WATER LIFTING-UP MACH. |
| CN32 | CONNECTOR | DS | DRAIN SENSOR |
| CN41 | CONNECTOR | TB2 | POWER SUPPLY |
| CN51 | CONNECTOR | TB5 | TERMINAL BLOCK |
| CN52 | CONNECTOR | TB15 | TERMINAL BLOCK |
| SW2 | SWITCH | TH21 | ROOM TEMPERATURE DETECTION (0°C/15kΩ, 25°C/5.4kΩ) |
| SW3 | SWITCH | TH22 | PIPE TEMPERATURE DETECTION/LIQUID (0°C/15kΩ, 25°C/5.4kΩ) |
| SW4 | SWITCH | TH23 | PIPE TEMPERATURE DETECTION/GAS (0°C/15kΩ, 25°C/5.4kΩ) |
| ZNR | VARIATOR | LEV | LINEAR EXPANSION VALVE |
| FUSE | FUSE(6.3A/250V) | | |
| X1 | AUX.RELAY/DRAIN PUMP | | |
| T | TRANSFORMER | | |
| LED1 | POWER SUPPLY(L.B) | | |
| LED2 | POWER SUPPLY(L.B) | | |
| A.B | CIRCUIT BOARD | | |
| SW1 | SWITCH | | |
| SW5 | SWITCH | | |
| SW11 | SWITCH | | |
| SW12 | SWITCH | | |
| SW14 | SWITCH | | |

<※1>

| MODELS | SW2 | SW3 |
|--------|---------------|--------------------|
| P20 | ON OFF 123456 | ON OFF 12345678910 |
| P25 | ON OFF 123456 | ON OFF 12345678910 |
| P32 | ON OFF 123456 | ON OFF 12345678910 |
| P40 | ON OFF 123456 | ON OFF 12345678910 |

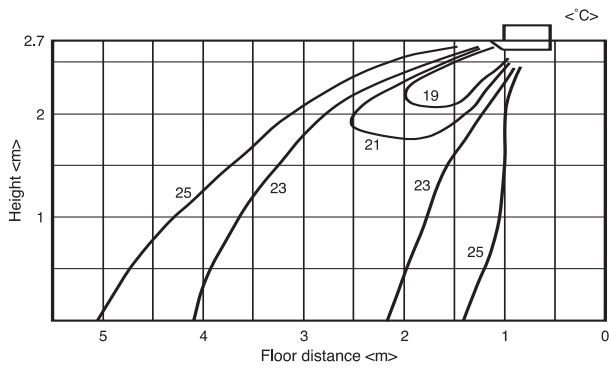
NOTES:

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. Symbol [S] of TB5 is the shield wire connection.
3. Symbols used in wiring diagram above are, ⊙ :terminal block, □ :connector.
4. The setting of the SW2 dip switches differs in the capacity for the detail, see the table <※1>.
5. Please set the switch SW5 according to the power supply voltage. Set SW5 to 240V side when the power supply is 230 and 240 volts. When the power supply is 220 volts, set SW5 to 220V side.

6-1. Temperature distributions

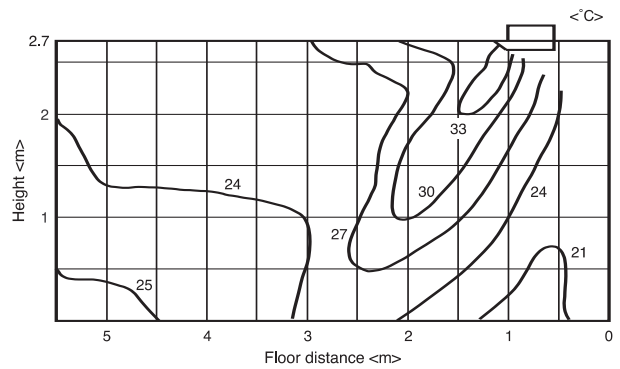
<Cooling mode>

Flow angle 30°



<Heating mode>

Flow angle 70°

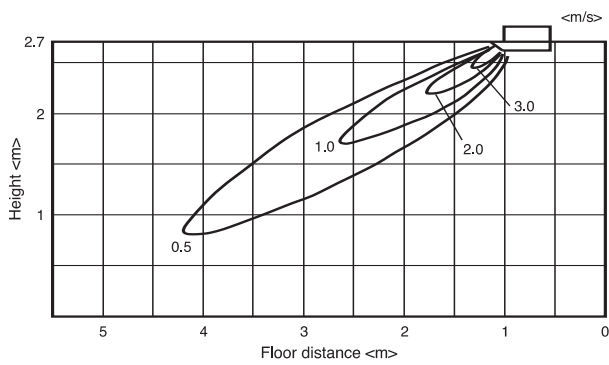


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions

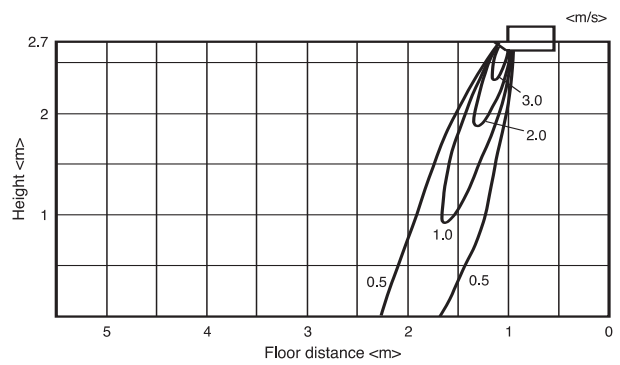
<Fan mode>

Flow angle 30°

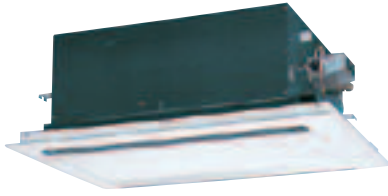


<Fan mode>

Flow angle 70°



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.



PLFY-P-VLMD-E

PLFY-P-VLMD-E

| | |
|--|----------|
| 1. SPECIFICATIONS | IU-F- 2 |
| 2. CAPACITY TABLES | |
| 2-1a. Cooling capacity in combination with PUHY,PUY, PURY-P200, 250YGM | IU-F- 4 |
| 2-1b. Heating capacity in combination with PUHY, PURY-P200, 250YGM | IU-F- 6 |
| 2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM | IU-F- 7 |
| 2-2b. Heating capacity in combination with PUHY, PURY-P300, 350, 400YGM | IU-F- 9 |
| 2-3a. Cooling capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-F- 10 |
| 2-3b. Heating capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-F- 12 |
| 2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-F- 13 |
| 2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-F- 14 |
| 2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM | IU-F- 15 |
| 2-5b. Heating capacity in combination with PUMY-P100,125,140YHM | IU-F- 17 |
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| 3-2. NC curves | IU-F- 18 |
| 3-3. OA Intake-static pressure curves | IU-F- 20 |
| 3-4. Branch duct intake-static pressure curves | IU-F- 20 |
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| 5. ELECTRICAL WIRING DIAGRAMS | IU-F- 24 |
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| 6-1. Temperature distributions | IU-F- 25 |
| 6-2. Airflow distributions | IU-F- 25 |

| Cassette ceiling | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PLFY-P-VLMD-E | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PLFY-P20VLMD-E | PLFY-P25VLMD-E | PLFY-P32VLMD-E | PLFY-P40VLMD-E | | | | |
|---|--|---|--|-------------------------|---------------------------|-------------------------|---|--|---|--|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220-230V 60Hz | | | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | | | | |
| | | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 | | | | |
| | | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 | | | | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 | | | | |
| | | Power input | kW | 0.072 / 0.075 | 0.072 / 0.075 | 0.072 / 0.075 | 0.081 / 0.085 | | | |
| Current input | | A | 0.36 / 0.37 | 0.36 / 0.37 | 0.36 / 0.37 | 0.40 / 0.42 | | | | |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | | | | |
| | | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 | | | | |
| | | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 | | | | |
| | Power input | kW | 0.065 / 0.069 | 0.065 / 0.069 | 0.065 / 0.069 | 0.074 / 0.079 | | | | |
| | | Current input | | A | 0.30 / 0.32 | 0.30 / 0.32 | 0.34 / 0.37 | | | |
| External finish | | | Unit : Galvanized | | | | | | | |
| External dimension H x W x D | | mm | 290 x 776 x 634 | | 290 x 776 x 634 | | | | | |
| | | in. | 11-7/16" x 30-9/16" x 25" | | 11-7/16" x 30-9/16" x 25" | | | | | |
| Net weight | | kg (lb) | 23 (51) | 23 (51) | 24 (53) | 24 (53) | | | | |
| Decoration panel | Model | | CMP-40VLW-B | CMP-40VLW-B | CMP-40VLW-B | CMP-40VLW-B | | | | |
| | External finish | | ABS, MUNSELL (0.7Y 8.59/0.97), include Service Panel : Galvanized, MUNSELL (0.7Y 8.59/0.97) | | | | | | | |
| | Dimension | | 20 x 1,080 x 710 | | | | | | | |
| | H x W x D | | 13/16" x 30-9/16" x 28" | | | | | | | |
| | Net Weight | | 6.5 (15) | | | | | | | |
| Heat exchanger | | | Cross fin | | | | | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 | | | | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | | | | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | | | | |
| | Motor type | | 1-phase induction motor | | | | | | | |
| | Motor output | | kW | 0.015 (at 240V) | 0.015 (at 240V) | 0.015 (at 240V) | 0.015 (at 240V) | | | |
| | Driving mechanism | | Direct-driven by motor | | | | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 6.5 - 8.0 - 9.5 | 6.5 - 8.0 - 9.5 | 6.5 - 8.0 - 9.5 | 7.0 - 8.5 - 10.5 | | | | |
| | | L / s | 108 - 133 - 158 | 108 - 133 - 158 | 108 - 133 - 158 | 117 - 142 - 175 | | | | |
| cfm | | 230 - 283 - 335 | 230 - 283 - 335 | 230 - 283 - 335 | 247 - 300 - 371 | | | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 27 - 30 - 33 (220, 240V) | 27 - 30 - 33 (220,240V) | 27 - 30 - 33 (220,240V) | 29 - 33 - 36 (220,240V) | | | | |
| | | dB <A> | 28 - 31 - 34 (230V) | 28 - 31 - 34 (230V) | 28 - 31 - 34 (230V) | 30 - 34 - 37 (230V) | | | | |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | | | | |
| Air filter | | | PP honeycomb fabric (long life filter) | | | | | | | |
| Protection device | | | Fuse | | | | | | | |
| Refrigerant control device | | | LEV | | | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | | | | |
| | | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | | | |
| Diameter of drain pipe | | mm (in.) | Unit drain pipe I.D.32 (1-1/4in.) | | | | | | | |
| Drawing | External | | IU-W275-920 | | | | | | | |
| | Wiring | | IU-W653-952 | | | | | | | |
| | Refrigerant cycle | | - | | | | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | | | | |
| Remark | Optional parts | | | | | | | | | |
| | Decoration panel | | CMP-40VLW-B | CMP-40VLW-B | CMP-40VLW-B | CMP-40VLW-B | | | | |
| | OA duct flange | | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | | | | |
| Note : <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; vertical-align: top;"> *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) </td> <td style="width:15%; vertical-align: top;"> Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m³/min x 35.31 lb = kg / 0.4536 </td> </tr> </table> | | | | | | | *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 |
| *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 | | | | | | | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice. | | | | | | | | | | |
| *Above specification data is subject to rounding variation. | | | | | | | | | | |
| Ref.: Spec_PLFY-P20VLMD-E_1 | | | | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PLFY-P50VLMD-E | PLFY-P63VLMD-E | PLFY-P80VLMD-E | PLFY-P100VLMD-E | PLFY-P125VLMD-E | |
|---|--------------------------------|--|---|--------------------------|----------------------------|-------------------------------|------------------------------|---------------------|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220-230V 60Hz | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 | |
| | | kcal / h | 4,800 | 6,100 | 7,700 | 9,600 | 12,000 | |
| | | Btu / h | 19,100 | 24,200 | 30,700 | 38,200 | 47,800 | |
| | *2 | kcal / h | 5,000 | 6,300 | 8,000 | 10,000 | 12,500 | |
| | | Power input | kW | 0.082 / 0.086 | 0.101 / 0.105 | 0.147 / 0.156 | 0.157 / 0.186 | 0.28 / 0.28 |
| Current input | | A | 0.41 / 0.43 | 0.49 / 0.51 | 0.72 / 0.74 | 0.75 / 0.88 | 1.35 / 1.35 | |
| Heating capacity (Nominal) | *3 | kW | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 | |
| | | kcal / h | 5,400 | 6,900 | 8,600 | 10,800 | 13,800 | |
| | | Btu / h | 21,500 | 27,300 | 34,100 | 42,700 | 54,600 | |
| | Power input | kW | 0.075 / 0.080 | 0.094 / 0.099 | 0.140 / 0.150 | 0.150 / 0.180 | 0.27 / 0.27 | |
| | | Current input | A | 0.35 / 0.38 | 0.43 / 0.46 | 0.66 / 0.69 | 0.69 / 0.83 | 1.33 / 1.33 |
| External finish | | | Unit : Galvanized | | | | | |
| External dimension H x W x D | | mm | 290 x 946 x 634 | | 290 x 1,446 x 634 | | 290 x 1,708 x 606 | |
| | | in. | 11-7/16" x 37-1/4" x 25" | | 11-7/16" x 56-15/16" x 25" | | 11-7/16" x 67-1/4" x 23-7/8" | |
| Net weight | | kg (lb) | 27 (60) | 28 (62) | 44 (98) | 47 (104) | 56 (124) | |
| Decoration panel | Model | | CMP-63VLW-B | CMP-63VLW-B | CMP-100VLW-B | CMP-100VLW-B | CMP-125VLW-B | |
| | External finish | | ABS, MUNSELL (0.7Y 8.59/0.97), include Service Panel : Galvanized, MUNSELL (0.7Y 8.59/0.97) | | | | | |
| | Dimension | mm | 20 x 1,250 x 710 | | 20 x 1,750 x 710 | | 20 x 2,010 x 710 | |
| | | in. | 13/16" x 49-1/4" x 28" | | 13/16" x 56-15/16" x 28" | | 13/16" x 67-1/4" x 28" | |
| | Net Weight | | kg (lb) | 7.5 (17) | | 12.5 (28) | | 13.0 (29) |
| Heat exchanger | | | Cross fin | | | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 2 | Turbo fan x 2 | Sirocco fan x 4 | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | 0 | |
| | | mmHzO | 0 | 0 | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | | | |
| | Motor output | | kW | 0.020 (at 240V) | 0.020 (at 240V) | 0.020 (at 240V) | 0.030 (at 240V) | 0.078 x 2 (at 240V) |
| | Driving mechanism | | Direct-driven by motor | | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 9.0 - 11.0 - 12.5 | 10.0 - 13.0 - 15.5 | 15.5 - 18.5 - 22.0 | 17.5 - 21.0 - 25.0 | 24.0 - 27.0 - 30.0 - 33.0 | |
| | | L / s | 150 - 183 - 208 | 167 - 217 - 258 | 258 - 308 - 367 | 292 - 350 - 417 | 400 - 450 - 500 - 550 | |
| cfm | | 318 - 388 - 441 | 353 - 459 - 547 | 547 - 653 - 777 | 618 - 742 - 883 | 848 - 953 - 1,059 - 1,165 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | 31 - 34 - 37 (220, 240V) | 32 - 37 - 39 (220, 240V) | 33 - 36 - 39 (220, 240V) | 36 - 39 - 42 (220, 240V) | 40 - 42 - 44 - 46 (220, 240V) | | |
| | dB <A> | 32 - 35 - 38 (230V) | 33 - 38 - 40 (230V) | 34 - 37 - 40 (230V) | 37 - 41 - 43 (230V) | 40 - 42 - 44 - 46 (230V) | | |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | | |
| Air filter | | | PP honeycomb fabric (long life filter) | | | | | |
| Protection device | | | Fuse | | | | | |
| Refrigerant control device | | | LEV | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | | | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| | | | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø19.05 (ø3/4") Flare | ø19.05 (ø3/4") Flare | |
| Diameter of drain pipe | | mm (in.) | Unit drain pipe I.D.32 (1-1/4in.) | | | | | |
| Drawing | External | | IU-W275-920 | IU-W275-920 | IU-W275-920 | IU-W275-920 | IU-W275-921 | |
| | Wiring | | IU-W653-952 | IU-W653-952 | IU-W653-952 | IU-W653-952 | IU-W275-927 | |
| | Refrigerant cycle | | - | - | - | - | - | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | | |
| Remark | Optional parts | | | | | | | |
| | Decoration panel | | CMP-63VLW-B | CMP-63VLW-B | CMP-100VLW-B | CMP-100VLW-B | CMP-125VLW-B | |
| | OA duct flange | | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | |
| Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PLFY-P20VLMD-E_2

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 77 | 25.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 82 | 27.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.8 | 2.7 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.7 | 2.3 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.7 |
| | 104 | 40.0 | 1.9 | 1.6 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.7 | 2.4 | 1.7 |
| | 110 | 43.0 | 1.8 | 1.6 | 1.9 | 1.7 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.7 | 2.4 | 1.7 |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 73 | 22.5 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 77 | 25.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.0 |
| | 91 | 32.5 | 2.5 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.0 | 3.3 | 2.0 |
| | 95 | 35.0 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.0 | 3.2 | 2.0 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | 3.1 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.0 | 3.1 | 1.9 |
| | 110 | 43.0 | 2.4 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 1.9 | 3.0 | 1.9 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.7 | 4.6 | 2.6 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.7 | 4.6 | 2.6 |
| | 77 | 25.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 82 | 27.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.5 | 3.8 | 2.6 | 3.9 | 2.7 | 4.1 | 2.6 | 4.4 | 2.6 |
| | 86 | 30.0 | 3.3 | 2.5 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.6 | 4.3 | 2.5 |
| | 91 | 32.5 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.5 | 4.2 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.4 | 3.3 | 2.5 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.5 | 4.1 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.8 | 2.5 | 4.0 | 2.4 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.4 | 4.0 | 2.4 |
| | 110 | 43.0 | 3.0 | 2.3 | 3.1 | 2.4 | 3.3 | 2.3 | 3.3 | 2.4 | 3.5 | 2.5 | 3.6 | 2.4 | 3.9 | 2.4 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 2.9 | 4.4 | 3.0 | 4.7 | 3.0 | 4.9 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.7 | 3.1 |
| | 73 | 22.5 | 4.3 | 2.9 | 4.4 | 3.0 | 4.7 | 3.0 | 4.9 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.7 | 3.1 |
| | 77 | 25.0 | 4.3 | 2.9 | 4.4 | 3.0 | 4.7 | 3.0 | 4.9 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.6 | 3.0 |
| | 82 | 27.5 | 4.3 | 2.9 | 4.4 | 3.0 | 4.6 | 3.0 | 4.8 | 3.0 | 4.9 | 3.1 | 5.2 | 3.0 | 5.5 | 3.0 |
| | 86 | 30.0 | 4.2 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 | 4.7 | 2.9 | 4.8 | 3.0 | 5.0 | 3.0 | 5.4 | 2.9 |
| | 91 | 32.5 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 2.9 | 4.7 | 3.0 | 5.0 | 2.9 | 5.3 | 2.9 |
| | 95 | 35.0 | 4.0 | 2.8 | 4.1 | 2.9 | 4.4 | 2.8 | 4.5 | 2.8 | 4.6 | 2.9 | 4.9 | 2.9 | 5.2 | 2.8 |
| | 100 | 37.5 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.8 | 4.4 | 2.8 | 4.5 | 2.9 | 4.8 | 2.8 | 5.0 | 2.8 |
| | 104 | 40.0 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.3 | 2.8 | 4.5 | 2.9 | 4.7 | 2.8 | 5.0 | 2.8 |
| | 110 | 43.0 | 3.8 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 | 4.2 | 2.7 | 4.3 | 2.8 | 4.5 | 2.8 | 4.8 | 2.7 |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.7 | 5.5 | 3.8 | 5.9 | 3.8 | 6.0 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 7.1 | 3.9 |
| | 73 | 22.5 | 5.3 | 3.7 | 5.5 | 3.8 | 5.9 | 3.8 | 6.0 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 7.1 | 3.9 |
| | 77 | 25.0 | 5.3 | 3.7 | 5.5 | 3.8 | 5.9 | 3.8 | 6.0 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 6.9 | 3.8 |
| | 82 | 27.5 | 5.3 | 3.7 | 5.5 | 3.8 | 5.8 | 3.7 | 5.9 | 3.8 | 6.1 | 3.9 | 6.4 | 3.8 | 6.8 | 3.8 |
| | 86 | 30.0 | 5.2 | 3.6 | 5.3 | 3.7 | 5.7 | 3.7 | 5.8 | 3.7 | 6.0 | 3.8 | 6.3 | 3.7 | 6.7 | 3.7 |
| | 91 | 32.5 | 5.1 | 3.6 | 5.3 | 3.7 | 5.5 | 3.6 | 5.7 | 3.6 | 5.9 | 3.8 | 6.2 | 3.7 | 6.6 | 3.6 |
| | 95 | 35.0 | 5.0 | 3.5 | 5.2 | 3.6 | 5.5 | 3.6 | 5.6 | 3.6 | 5.7 | 3.7 | 6.0 | 3.6 | 6.4 | 3.6 |
| | 100 | 37.5 | 4.9 | 3.5 | 5.0 | 3.6 | 5.3 | 3.5 | 5.5 | 3.5 | 5.6 | 3.7 | 5.9 | 3.6 | 6.3 | 3.5 |
| | 104 | 40.0 | 4.8 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.4 | 3.5 | 5.5 | 3.6 | 5.8 | 3.5 | 6.2 | 3.5 |
| | 110 | 43.0 | 4.7 | 3.4 | 4.8 | 3.5 | 5.1 | 3.4 | 5.2 | 3.4 | 5.4 | 3.5 | 5.7 | 3.5 | 6.0 | 3.4 |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.8 | 7.0 | 4.9 | 7.5 | 4.9 | 7.7 | 4.9 | 7.9 | 5.1 | 8.4 | 5.0 | 9.0 | 5.0 |
| | 73 | 22.5 | 6.7 | 4.8 | 7.0 | 4.9 | 7.5 | 4.9 | 7.7 | 4.9 | 7.9 | 5.1 | 8.4 | 5.0 | 9.0 | 5.0 |
| | 77 | 25.0 | 6.7 | 4.8 | 7.0 | 4.9 | 7.5 | 4.9 | 7.7 | 4.9 | 7.8 | 5.1 | 8.3 | 5.0 | 8.8 | 4.9 |
| | 82 | 27.5 | 6.7 | 4.8 | 6.9 | 4.9 | 7.3 | 4.8 | 7.5 | 4.9 | 7.7 | 5.0 | 8.1 | 4.9 | 8.7 | 4.9 |
| | 86 | 30.0 | 6.6 | 4.7 | 6.8 | 4.8 | 7.2 | 4.8 | 7.4 | 4.8 | 7.6 | 5.0 | 8.0 | 4.9 | 8.5 | 4.8 |
| | 91 | 32.5 | 6.5 | 4.6 | 6.7 | 4.8 | 7.0 | 4.7 | 7.2 | 4.7 | 7.4 | 4.9 | 7.8 | 4.8 | 8.3 | 4.7 |
| | 95 | 35.0 | 6.4 | 4.6 | 6.5 | 4.7 | 6.9 | 4.6 | 7.1 | 4.7 | 7.3 | 4.8 | 7.7 | 4.7 | 8.1 | 4.7 |
| | 100 | 37.5 | 6.2 | 4.5 | 6.4 | 4.6 | 6.8 | 4.6 | 6.9 | 4.6 | 7.1 | 4.8 | 7.5 | 4.7 | 8.0 | 4.6 |
| | 104 | 40.0 | 6.1 | 4.4 | 6.3 | 4.6 | 6.7 | 4.5 | 6.8 | 4.5 | 7.0 | 4.7 | 7.3 | 4.6 | 7.8 | 4.6 |
| | 110 | 43.0 | 6.0 | 4.4 | 6.1 | 4.5 | 6.5 | 4.4 | 6.6 | 4.5 | 6.8 | 4.6 | 7.2 | 4.5 | 7.6 | 4.5 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.6 | 6.1 | 8.9 | 6.2 | 9.5 | 6.2 | 9.7 | 6.2 | 10.0 | 6.5 | 10.6 | 6.4 | 11.4 | 6.3 | |
| | 73 | 22.5 | 8.6 | 6.1 | 8.9 | 6.2 | 9.5 | 6.2 | 9.7 | 6.2 | 10.0 | 6.5 | 10.6 | 6.4 | 11.4 | 6.3 | |
| | 77 | 25.0 | 8.6 | 6.1 | 8.9 | 6.2 | 9.5 | 6.2 | 9.7 | 6.2 | 9.9 | 6.4 | 10.5 | 6.3 | 11.2 | 6.2 | |
| | 82 | 27.5 | 8.5 | 6.0 | 8.8 | 6.2 | 9.3 | 6.1 | 9.5 | 6.2 | 9.8 | 6.4 | 10.3 | 6.2 | 11.0 | 6.2 | |
| | 86 | 30.0 | 8.4 | 6.0 | 8.6 | 6.1 | 9.1 | 6.0 | 9.4 | 6.1 | 9.6 | 6.3 | 10.1 | 6.2 | 10.8 | 6.1 | |
| | 91 | 32.5 | 8.2 | 5.9 | 8.5 | 6.0 | 8.9 | 5.9 | 9.1 | 6.0 | 9.4 | 6.2 | 9.9 | 6.1 | 10.5 | 6.0 | |
| | 95 | 35.0 | 8.1 | 5.8 | 8.3 | 5.9 | 8.8 | 5.9 | 9.0 | 5.9 | 9.2 | 6.1 | 9.7 | 6.0 | 10.3 | 5.9 | |
| | 100 | 37.5 | 7.9 | 5.7 | 8.1 | 5.8 | 8.6 | 5.8 | 8.8 | 5.8 | 9.0 | 6.0 | 9.5 | 5.9 | 10.1 | 5.8 | |
| | 104 | 40.0 | 7.7 | 5.6 | 8.0 | 5.8 | 8.5 | 5.7 | 8.6 | 5.8 | 8.9 | 6.0 | 9.3 | 5.8 | 9.9 | 5.8 | |
| | 110 | 43.0 | 7.6 | 5.5 | 7.8 | 5.7 | 8.2 | 5.6 | 8.4 | 5.6 | 8.6 | 5.9 | 9.1 | 5.8 | 9.6 | 5.7 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.7 | 11.0 | 7.9 | 11.8 | 7.9 | 12.1 | 7.9 | 12.5 | 8.2 | 13.2 | 8.1 | 14.2 | 8.1 | |
| | 73 | 22.5 | 10.6 | 7.7 | 11.0 | 7.9 | 11.8 | 7.9 | 12.1 | 7.9 | 12.5 | 8.2 | 13.2 | 8.1 | 14.2 | 8.1 | |
| | 77 | 25.0 | 10.6 | 7.7 | 11.0 | 7.9 | 11.8 | 7.9 | 12.1 | 7.9 | 12.4 | 8.2 | 13.1 | 8.1 | 13.9 | 7.9 | |
| | 82 | 27.5 | 10.6 | 7.7 | 10.9 | 7.9 | 11.5 | 7.8 | 11.9 | 7.8 | 12.2 | 8.1 | 12.8 | 8.0 | 13.7 | 7.9 | |
| | 86 | 30.0 | 10.4 | 7.6 | 10.7 | 7.8 | 11.3 | 7.7 | 11.6 | 7.7 | 11.9 | 8.0 | 12.5 | 7.9 | 13.4 | 7.8 | |
| | 91 | 32.5 | 10.2 | 7.5 | 10.5 | 7.7 | 11.1 | 7.6 | 11.4 | 7.6 | 11.7 | 7.9 | 12.3 | 7.8 | 13.1 | 7.7 | |
| | 95 | 35.0 | 10.0 | 7.4 | 10.3 | 7.6 | 10.9 | 7.5 | 11.2 | 7.6 | 11.5 | 7.8 | 12.1 | 7.7 | 12.8 | 7.6 | |
| | 100 | 37.5 | 9.8 | 7.3 | 10.1 | 7.4 | 10.7 | 7.4 | 10.9 | 7.4 | 11.3 | 7.7 | 11.9 | 7.6 | 12.5 | 7.5 | |
| | 104 | 40.0 | 9.6 | 7.2 | 9.9 | 7.4 | 10.5 | 7.3 | 10.8 | 7.4 | 11.1 | 7.6 | 11.6 | 7.5 | 12.3 | 7.4 | |
| | 110 | 43.0 | 9.4 | 7.1 | 9.7 | 7.3 | 10.2 | 7.2 | 10.4 | 7.2 | 10.8 | 7.5 | 11.3 | 7.4 | 12.0 | 7.3 | |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.8 | 13.8 | 10.1 | 14.7 | 10.0 | 15.1 | 10.1 | 15.6 | 10.5 | 16.5 | 10.3 | 17.7 | 10.3 | |
| | 73 | 22.5 | 13.3 | 9.8 | 13.8 | 10.1 | 14.7 | 10.0 | 15.1 | 10.1 | 15.6 | 10.5 | 16.5 | 10.3 | 17.7 | 10.3 | |
| | 77 | 25.0 | 13.3 | 9.8 | 13.8 | 10.1 | 14.7 | 10.0 | 15.1 | 10.1 | 15.5 | 10.4 | 16.4 | 10.3 | 17.4 | 10.1 | |
| | 82 | 27.5 | 13.2 | 9.7 | 13.7 | 10.0 | 14.4 | 9.9 | 14.8 | 10.0 | 15.3 | 10.4 | 16.0 | 10.2 | 17.1 | 10.0 | |
| | 86 | 30.0 | 13.0 | 9.6 | 13.4 | 9.9 | 14.2 | 9.8 | 14.6 | 9.9 | 14.9 | 10.2 | 15.7 | 10.0 | 16.7 | 9.9 | |
| | 91 | 32.5 | 12.7 | 9.5 | 13.2 | 9.8 | 13.9 | 9.6 | 14.2 | 9.7 | 14.6 | 10.1 | 15.4 | 9.9 | 16.4 | 9.8 | |
| | 95 | 35.0 | 12.5 | 9.4 | 12.9 | 9.6 | 13.7 | 9.5 | 14.0 | 9.6 | 14.4 | 10.0 | 15.1 | 9.8 | 16.0 | 9.6 | |
| | 100 | 37.5 | 12.3 | 9.2 | 12.6 | 9.5 | 13.4 | 9.4 | 13.7 | 9.5 | 14.1 | 9.9 | 14.8 | 9.7 | 15.7 | 9.5 | |
| | 104 | 40.0 | 12.0 | 9.1 | 12.4 | 9.4 | 13.2 | 9.3 | 13.4 | 9.4 | 13.9 | 9.8 | 14.5 | 9.6 | 15.4 | 9.4 | |
| | 110 | 43.0 | 11.8 | 9.0 | 12.1 | 9.3 | 12.8 | 9.1 | 13.0 | 9.2 | 13.4 | 9.6 | 14.1 | 9.4 | 15.0 | 9.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PURY-P200,250YGM

PLFY-P-VLMD-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.6 | 4.5 | 4.4 | 4.3 |
| | 23 | -5.0 | 5.3 | 5.2 | 5.0 | 4.4 |
| | 32 | 0.0 | 6.0 | 5.9 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.3 | 6.2 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.6 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.8 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.2 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.6 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 8.1 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 5.0 |
| | 5 | -15.0 | 6.2 | 6.1 | 6.0 | 5.9 |
| | 14 | -10.0 | 7.3 | 7.2 | 7.0 | 6.9 |
| | 23 | -5.0 | 8.4 | 8.3 | 8.0 | 7.0 |
| | 32 | 0.0 | 9.5 | 9.4 | 8.0 | 7.0 |
| | 37 | 2.5 | 10.0 | 9.9 | 8.0 | 7.0 |
| | 43 | 6.0 | 10.4 | 10.0 | 8.0 | 7.0 |
| | 46 | 7.5 | 10.8 | 10.0 | 8.0 | 7.0 |
| | 50 | 10.0 | 11.4 | 10.0 | 8.0 | 7.0 |
| | 55 | 12.5 | 12.1 | 10.0 | 8.0 | 7.0 |
| 60 | 15.5 | 12.8 | 10.0 | 8.0 | 7.0 | |
| 100 (11.2) | -4 | -20.0 | 6.4 | 6.3 | 6.3 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.4 |
| | 14 | -10.0 | 9.1 | 9.0 | 8.8 | 8.6 |
| | 23 | -5.0 | 10.5 | 10.4 | 10.0 | 8.8 |
| | 32 | 0.0 | 11.8 | 11.8 | 10.0 | 8.8 |
| | 37 | 2.5 | 12.5 | 12.4 | 10.0 | 8.8 |
| | 43 | 6.0 | 13.0 | 12.5 | 10.0 | 8.8 |
| | 46 | 7.5 | 13.4 | 12.5 | 10.0 | 8.8 |
| | 50 | 10.0 | 14.3 | 12.5 | 10.0 | 8.8 |
| | 55 | 12.5 | 15.1 | 12.5 | 10.0 | 8.8 |
| 60 | 15.5 | 16.0 | 12.5 | 10.0 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.2 | 8.0 | 8.0 | 8.0 |
| | 5 | -15.0 | 9.9 | 9.8 | 9.6 | 9.4 |
| | 14 | -10.0 | 11.7 | 11.5 | 11.2 | 11.0 |
| | 23 | -5.0 | 13.4 | 13.3 | 12.8 | 11.2 |
| | 32 | 0.0 | 15.1 | 15.0 | 12.8 | 11.2 |
| | 37 | 2.5 | 16.0 | 15.8 | 12.8 | 11.2 |
| | 43 | 6.0 | 16.6 | 16.0 | 12.8 | 11.2 |
| | 46 | 7.5 | 17.2 | 16.0 | 12.8 | 11.2 |
| | 50 | 10.0 | 18.2 | 16.0 | 12.8 | 11.2 |
| | 55 | 12.5 | 19.3 | 16.0 | 12.8 | 11.2 |
| 60 | 15.5 | 20.5 | 16.0 | 12.8 | 11.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.5 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 82 | 27.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.8 | 2.7 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.7 |
| | 104 | 40.0 | 1.9 | 1.6 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.4 | 1.9 | 2.3 | 1.8 | 2.4 | 1.7 |
| 110 | 43.0 | 1.8 | 1.6 | 1.8 | 1.6 | 2.0 | 1.6 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.7 | 2.4 | 1.7 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.2 | 2.2 | 3.4 | 2.2 | 3.6 | 2.1 |
| | 73 | 22.5 | 2.7 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.1 | 3.2 | 2.2 | 3.4 | 2.2 | 3.6 | 2.1 |
| | 77 | 25.0 | 2.7 | 2.0 | 2.7 | 2.1 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 86 | 30.0 | 2.6 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.0 |
| | 91 | 32.5 | 2.5 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.0 |
| | 95 | 35.0 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.0 | 3.2 | 2.0 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | 3.0 | 2.1 | 2.9 | 2.0 | 3.1 | 2.0 |
| 110 | 43.0 | 2.4 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 1.9 | |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.5 | 3.6 | 2.6 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.8 | 4.4 | 2.7 | 4.7 | 2.7 |
| | 73 | 22.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.0 | 2.6 | 4.1 | 2.7 | 4.3 | 2.7 | 4.6 | 2.6 |
| | 77 | 25.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.6 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.7 | 4.5 | 2.6 |
| | 82 | 27.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 3.9 | 2.7 | 4.2 | 2.6 | 4.4 | 2.6 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 |
| | 91 | 32.5 | 3.3 | 2.4 | 3.3 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.6 | 4.2 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.5 | 4.2 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.9 | 2.5 | 4.1 | 2.5 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.1 | 2.4 | 3.3 | 2.4 | 3.4 | 2.4 | 3.9 | 2.6 | 3.8 | 2.5 | 4.0 | 2.4 |
| 110 | 43.0 | 3.0 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.4 | 3.4 | 2.4 | 3.7 | 2.4 | 3.9 | 2.4 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.9 | 3.1 | 5.0 | 3.1 | 5.2 | 3.2 | 5.5 | 3.2 | 5.9 | 3.1 |
| | 73 | 22.5 | 4.3 | 3.0 | 4.5 | 3.1 | 4.8 | 3.0 | 5.0 | 3.1 | 5.1 | 3.2 | 5.4 | 3.1 | 5.7 | 3.1 |
| | 77 | 25.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.7 | 3.0 | 4.9 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.6 | 3.0 |
| | 82 | 27.5 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 2.9 | 4.8 | 3.0 | 4.9 | 3.1 | 5.2 | 3.0 | 5.5 | 3.0 |
| | 86 | 30.0 | 4.1 | 2.9 | 4.2 | 2.9 | 4.5 | 2.9 | 4.7 | 2.9 | 4.8 | 3.0 | 5.1 | 3.0 | 5.4 | 2.9 |
| | 91 | 32.5 | 4.1 | 2.8 | 4.2 | 2.9 | 4.4 | 2.9 | 4.6 | 2.9 | 4.7 | 3.0 | 5.0 | 2.9 | 5.3 | 2.9 |
| | 95 | 35.0 | 4.0 | 2.8 | 4.1 | 2.8 | 4.3 | 2.8 | 4.5 | 2.8 | 4.6 | 2.9 | 4.9 | 2.9 | 5.2 | 2.9 |
| | 100 | 37.5 | 4.0 | 2.8 | 4.0 | 2.8 | 4.3 | 2.8 | 4.4 | 2.8 | 4.5 | 2.9 | 4.8 | 2.9 | 5.1 | 2.8 |
| | 104 | 40.0 | 3.9 | 2.7 | 3.9 | 2.7 | 4.2 | 2.7 | 4.3 | 2.8 | 4.9 | 3.1 | 4.7 | 2.8 | 5.0 | 2.8 |
| 110 | 43.0 | 3.8 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 | 4.8 | 2.7 | |
| 50 (5.6) | 68 | 20.0 | 5.4 | 3.8 | 5.6 | 3.9 | 6.0 | 3.9 | 6.3 | 3.9 | 6.5 | 4.0 | 6.9 | 4.0 | 7.3 | 3.9 |
| | 73 | 22.5 | 5.4 | 3.7 | 5.6 | 3.8 | 6.0 | 3.8 | 6.2 | 3.9 | 6.4 | 4.0 | 6.7 | 3.9 | 7.1 | 3.9 |
| | 77 | 25.0 | 5.3 | 3.7 | 5.5 | 3.8 | 5.9 | 3.8 | 6.0 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 7.0 | 3.8 |
| | 82 | 27.5 | 5.2 | 3.7 | 5.4 | 3.7 | 5.7 | 3.7 | 5.9 | 3.8 | 6.1 | 3.9 | 6.5 | 3.8 | 6.9 | 3.8 |
| | 86 | 30.0 | 5.2 | 3.6 | 5.3 | 3.7 | 5.6 | 3.7 | 5.8 | 3.7 | 6.0 | 3.8 | 6.4 | 3.8 | 6.7 | 3.7 |
| | 91 | 32.5 | 5.1 | 3.6 | 5.2 | 3.6 | 5.5 | 3.6 | 5.7 | 3.6 | 5.9 | 3.8 | 6.2 | 3.7 | 6.6 | 3.7 |
| | 95 | 35.0 | 5.0 | 3.5 | 5.1 | 3.6 | 5.4 | 3.5 | 5.6 | 3.6 | 5.8 | 3.7 | 6.1 | 3.7 | 6.5 | 3.6 |
| | 100 | 37.5 | 4.9 | 3.5 | 5.0 | 3.5 | 5.3 | 3.5 | 5.5 | 3.5 | 5.7 | 3.7 | 6.0 | 3.6 | 6.3 | 3.6 |
| | 104 | 40.0 | 4.8 | 3.4 | 4.8 | 3.5 | 5.2 | 3.4 | 5.3 | 3.5 | 6.1 | 3.9 | 5.9 | 3.6 | 6.2 | 3.5 |
| 110 | 43.0 | 4.7 | 3.4 | 4.7 | 3.4 | 5.0 | 3.4 | 5.2 | 3.4 | 5.3 | 3.5 | 5.7 | 3.5 | 6.0 | 3.4 | |
| 63 (7.1) | 68 | 20.0 | 6.9 | 4.9 | 7.1 | 5.0 | 7.7 | 5.0 | 8.0 | 5.1 | 8.2 | 5.2 | 8.7 | 5.2 | 9.2 | 5.1 |
| | 73 | 22.5 | 6.9 | 4.8 | 7.1 | 5.0 | 7.6 | 4.9 | 7.8 | 5.0 | 8.1 | 5.2 | 8.5 | 5.1 | 9.1 | 5.0 |
| | 77 | 25.0 | 6.8 | 4.8 | 7.0 | 4.9 | 7.4 | 4.9 | 7.7 | 4.9 | 7.9 | 5.1 | 8.4 | 5.0 | 8.9 | 5.0 |
| | 82 | 27.5 | 6.6 | 4.7 | 6.8 | 4.8 | 7.3 | 4.8 | 7.5 | 4.9 | 7.8 | 5.0 | 8.2 | 5.0 | 8.7 | 4.9 |
| | 86 | 30.0 | 6.5 | 4.7 | 6.7 | 4.8 | 7.1 | 4.7 | 7.4 | 4.8 | 7.6 | 5.0 | 8.1 | 4.9 | 8.5 | 4.8 |
| | 91 | 32.5 | 6.4 | 4.6 | 6.6 | 4.7 | 7.0 | 4.7 | 7.2 | 4.7 | 7.5 | 4.9 | 7.9 | 4.8 | 8.4 | 4.8 |
| | 95 | 35.0 | 6.3 | 4.6 | 6.4 | 4.6 | 6.8 | 4.6 | 7.1 | 4.7 | 7.3 | 4.8 | 7.7 | 4.8 | 8.2 | 4.7 |
| | 100 | 37.5 | 6.2 | 4.5 | 6.3 | 4.6 | 6.7 | 4.5 | 6.9 | 4.6 | 7.2 | 4.8 | 7.6 | 4.7 | 8.0 | 4.6 |
| | 104 | 40.0 | 6.1 | 4.5 | 6.1 | 4.5 | 6.6 | 4.5 | 6.8 | 4.5 | 7.7 | 5.0 | 7.4 | 4.6 | 7.8 | 4.6 |
| 110 | 43.0 | 6.0 | 4.4 | 6.0 | 4.4 | 6.4 | 4.4 | 6.6 | 4.5 | 6.8 | 4.6 | 7.2 | 4.6 | 7.6 | 4.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.7 | 6.1 | 9.0 | 6.3 | 9.7 | 6.3 | 10.1 | 6.4 | 10.4 | 6.6 | 11.0 | 6.5 | 11.7 | 6.5 |
| | 73 | 22.5 | 8.7 | 6.1 | 9.0 | 6.3 | 9.6 | 6.3 | 9.9 | 6.3 | 10.2 | 6.6 | 10.8 | 6.5 | 11.5 | 6.4 |
| | 77 | 25.0 | 8.6 | 6.1 | 8.8 | 6.2 | 9.4 | 6.2 | 9.7 | 6.2 | 10.0 | 6.5 | 10.6 | 6.4 | 11.3 | 6.3 |
| | 82 | 27.5 | 8.4 | 6.0 | 8.6 | 6.1 | 9.2 | 6.1 | 9.5 | 6.2 | 9.8 | 6.4 | 10.4 | 6.3 | 11.0 | 6.2 |
| | 86 | 30.0 | 8.3 | 5.9 | 8.5 | 6.0 | 9.0 | 6.0 | 9.4 | 6.1 | 9.6 | 6.3 | 10.3 | 6.2 | 10.8 | 6.1 |
| | 91 | 32.5 | 8.1 | 5.8 | 8.3 | 6.0 | 8.9 | 5.9 | 9.2 | 6.0 | 9.5 | 6.2 | 10.0 | 6.1 | 10.6 | 6.0 |
| | 95 | 35.0 | 8.0 | 5.8 | 8.1 | 5.9 | 8.6 | 5.8 | 9.0 | 5.9 | 9.3 | 6.1 | 9.8 | 6.0 | 10.4 | 5.9 |
| | 100 | 37.5 | 7.9 | 5.7 | 8.0 | 5.8 | 8.5 | 5.7 | 8.8 | 5.8 | 9.1 | 6.1 | 9.6 | 6.0 | 10.2 | 5.9 |
| | 104 | 40.0 | 7.8 | 5.7 | 7.8 | 5.7 | 8.3 | 5.7 | 8.6 | 5.7 | 9.8 | 6.4 | 9.4 | 5.9 | 9.9 | 5.8 |
| 110 | 43.0 | 7.6 | 5.5 | 7.6 | 5.6 | 8.1 | 5.6 | 8.4 | 5.6 | 8.6 | 5.8 | 9.1 | 5.8 | 9.7 | 5.7 | |
| 100 (11.2) | 68 | 20.0 | 10.9 | 7.8 | 11.3 | 8.0 | 12.1 | 8.0 | 12.5 | 8.1 | 12.9 | 8.4 | 13.7 | 8.3 | 14.6 | 8.2 |
| | 73 | 22.5 | 10.8 | 7.8 | 11.2 | 8.0 | 11.9 | 7.9 | 12.3 | 8.0 | 12.7 | 8.3 | 13.5 | 8.2 | 14.3 | 8.1 |
| | 77 | 25.0 | 10.7 | 7.7 | 11.0 | 7.9 | 11.7 | 7.8 | 12.1 | 7.9 | 12.5 | 8.2 | 13.2 | 8.1 | 14.0 | 8.0 |
| | 82 | 27.5 | 10.5 | 7.6 | 10.8 | 7.8 | 11.5 | 7.7 | 11.9 | 7.8 | 12.2 | 8.1 | 13.0 | 8.0 | 13.7 | 7.9 |
| | 86 | 30.0 | 10.3 | 7.5 | 10.5 | 7.7 | 11.3 | 7.6 | 11.6 | 7.7 | 12.0 | 8.0 | 12.8 | 7.9 | 13.4 | 7.8 |
| | 91 | 32.5 | 10.1 | 7.4 | 10.4 | 7.6 | 11.0 | 7.5 | 11.4 | 7.6 | 11.8 | 7.9 | 12.4 | 7.8 | 13.2 | 7.7 |
| | 95 | 35.0 | 10.0 | 7.3 | 10.1 | 7.5 | 10.8 | 7.4 | 11.2 | 7.6 | 11.5 | 7.8 | 12.2 | 7.7 | 12.9 | 7.6 |
| | 100 | 37.5 | 9.9 | 7.3 | 9.9 | 7.4 | 10.6 | 7.3 | 10.9 | 7.4 | 11.3 | 7.7 | 12.0 | 7.6 | 12.7 | 7.5 |
| | 104 | 40.0 | 9.7 | 7.2 | 9.7 | 7.3 | 10.4 | 7.2 | 10.7 | 7.3 | 12.2 | 8.1 | 11.7 | 7.5 | 12.4 | 7.4 |
| 110 | 43.0 | 9.4 | 7.1 | 9.4 | 7.1 | 10.1 | 7.1 | 10.4 | 7.2 | 10.7 | 7.5 | 11.4 | 7.4 | 12.0 | 7.3 | |
| 125 (14.0) | 68 | 20.0 | 13.6 | 9.9 | 14.1 | 10.2 | 15.1 | 10.2 | 15.7 | 10.4 | 16.2 | 10.7 | 17.2 | 10.6 | 18.2 | 10.4 |
| | 73 | 22.5 | 13.5 | 9.9 | 14.0 | 10.2 | 14.9 | 10.1 | 15.4 | 10.2 | 15.9 | 10.6 | 16.8 | 10.5 | 17.9 | 10.3 |
| | 77 | 25.0 | 13.4 | 9.8 | 13.7 | 10.0 | 14.6 | 10.0 | 15.1 | 10.1 | 15.6 | 10.5 | 16.5 | 10.3 | 17.5 | 10.2 |
| | 82 | 27.5 | 13.1 | 9.7 | 13.4 | 9.9 | 14.4 | 9.8 | 14.8 | 10.0 | 15.3 | 10.4 | 16.2 | 10.2 | 17.2 | 10.1 |
| | 86 | 30.0 | 12.9 | 9.5 | 13.2 | 9.8 | 14.1 | 9.7 | 14.6 | 9.9 | 15.0 | 10.2 | 16.0 | 10.1 | 16.8 | 9.9 |
| | 91 | 32.5 | 12.7 | 9.4 | 13.0 | 9.7 | 13.8 | 9.6 | 14.3 | 9.8 | 14.7 | 10.1 | 15.5 | 10.0 | 16.5 | 9.8 |
| | 95 | 35.0 | 12.5 | 9.3 | 12.7 | 9.5 | 13.4 | 9.4 | 14.0 | 9.6 | 14.4 | 10.0 | 15.3 | 9.9 | 16.2 | 9.7 |
| | 100 | 37.5 | 12.3 | 9.3 | 12.4 | 9.4 | 13.2 | 9.3 | 13.7 | 9.5 | 14.1 | 9.9 | 15.0 | 9.7 | 15.8 | 9.6 |
| | 104 | 40.0 | 12.1 | 9.2 | 12.1 | 9.3 | 13.0 | 9.2 | 13.4 | 9.4 | 15.2 | 10.3 | 14.6 | 9.6 | 15.5 | 9.4 |
| 110 | 43.0 | 11.8 | 9.0 | 11.8 | 9.1 | 12.6 | 9.1 | 13.0 | 9.2 | 13.4 | 9.6 | 14.2 | 9.4 | 15.1 | 9.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PLFY-P-VLMD-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 55 | 12.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.0 |
| | 5 | -15.0 | 3.8 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.4 | 4.4 | 4.3 | 4.0 |
| | 23 | -5.0 | 5.0 | 5.0 | 4.7 | 4.0 |
| | 32 | 0.0 | 5.7 | 5.7 | 4.7 | 4.0 |
| | 37 | 2.5 | 6.0 | 6.0 | 4.7 | 4.0 |
| | 43 | 6.0 | 6.5 | 6.3 | 4.7 | 4.0 |
| | 46 | 7.5 | 6.7 | 6.3 | 4.7 | 4.0 |
| | 50 | 10.0 | 7.0 | 6.3 | 4.7 | 4.0 |
| | 55 | 12.5 | 7.2 | 6.3 | 4.7 | 4.0 |
| 60 | 15.5 | 7.2 | 6.3 | 4.7 | 4.0 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 55 | 12.5 | 9.2 | 8.0 | 6.0 | 5.1 |
| 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 4.8 |
| | 5 | -15.0 | 6.0 | 6.0 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.0 | 7.0 | 6.9 | 6.4 |
| | 23 | -5.0 | 8.0 | 8.0 | 7.5 | 6.4 |
| | 32 | 0.0 | 9.0 | 9.0 | 7.5 | 6.4 |
| | 37 | 2.5 | 9.6 | 9.5 | 7.5 | 6.4 |
| | 43 | 6.0 | 10.3 | 10.0 | 7.5 | 6.4 |
| | 46 | 7.5 | 10.6 | 10.0 | 7.5 | 6.4 |
| | 50 | 10.0 | 11.1 | 10.0 | 7.5 | 6.4 |
| | 55 | 12.5 | 11.5 | 10.0 | 7.5 | 6.4 |
| 60 | 15.5 | 11.5 | 10.0 | 7.5 | 6.4 | |
| 100 (11.2) | -4 | -20.0 | 6.5 | 6.3 | 6.3 | 6.0 |
| | 5 | -15.0 | 7.5 | 7.5 | 7.5 | 7.3 |
| | 14 | -10.0 | 8.8 | 8.8 | 8.6 | 8.0 |
| | 23 | -5.0 | 10.0 | 10.0 | 9.4 | 8.0 |
| | 32 | 0.0 | 11.3 | 11.3 | 9.4 | 8.0 |
| | 37 | 2.5 | 11.9 | 11.8 | 9.4 | 8.0 |
| | 43 | 6.0 | 12.8 | 12.5 | 9.4 | 8.0 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.4 | 8.0 |
| | 50 | 10.0 | 13.8 | 12.5 | 9.4 | 8.0 |
| | 55 | 12.5 | 14.4 | 12.5 | 9.4 | 8.0 |
| 60 | 15.5 | 14.4 | 12.5 | 9.4 | 8.0 | |
| 125 (14.0) | -4 | -20.0 | 8.3 | 8.0 | 8.0 | 7.7 |
| | 5 | -15.0 | 9.6 | 9.6 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.2 | 11.2 | 11.0 | 10.2 |
| | 23 | -5.0 | 12.8 | 12.8 | 12.0 | 10.2 |
| | 32 | 0.0 | 14.4 | 14.4 | 12.0 | 10.2 |
| | 37 | 2.5 | 15.3 | 15.1 | 12.0 | 10.2 |
| | 43 | 6.0 | 16.4 | 16.0 | 12.0 | 10.2 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.0 | 10.2 |
| | 50 | 10.0 | 17.7 | 16.0 | 12.0 | 10.2 |
| | 55 | 12.5 | 18.4 | 16.0 | 12.0 | 10.2 |
| 60 | 15.5 | 18.4 | 16.0 | 12.0 | 10.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|
| | | | 71 °FDB / 59°F WB | | 73°FDB / 61°F WB | | 77°FDB / 64°F WB | | 81°FDB / 66°F WB | | 82°FDB / 68°F WB | | 86°FDB / 72°F WB | | 90°FDB / 75°F WB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.8 | 2.7 | 1.8 |
| | 82 | 27.5 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.8 | 2.6 | 1.8 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.6 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 110 | 43.0 | 1.9 | 1.6 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| 25 (2.8) | 68 | 20.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 73 | 22.5 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 77 | 25.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 | 2.9 | 2.0 | 3.1 | 2.1 | 3.2 | 2.1 | 3.5 | 2.1 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.0 |
| | 86 | 30.0 | 2.5 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 |
| | 91 | 32.5 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.0 |
| | 95 | 35.0 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | 3.3 | 2.0 |
| | 100 | 37.5 | 2.5 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.0 | 3.3 | 2.0 |
| | 104 | 40.0 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 | 2.7 | 1.9 | 2.9 | 2.0 | 3.1 | 2.0 | 3.3 | 2.0 |
| | 110 | 43.0 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.5 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.7 | 4.5 | 2.6 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 77 | 25.0 | 3.3 | 2.5 | 3.4 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.7 | 4.2 | 2.6 | 4.4 | 2.6 |
| | 82 | 27.5 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.3 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.4 | 2.6 |
| | 91 | 32.5 | 3.2 | 2.4 | 3.3 | 2.5 | 3.5 | 2.4 | 3.6 | 2.5 | 3.8 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.6 | 4.0 | 2.6 | 4.3 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.4 | 3.5 | 2.4 | 3.5 | 2.4 | 3.7 | 2.6 | 4.0 | 2.5 | 4.2 | 2.5 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.7 | 2.5 | 4.0 | 2.5 | 4.2 | 2.5 |
| | 110 | 43.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.9 | 2.5 | 4.2 | 2.5 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 2.9 | 4.4 | 3.0 | 4.7 | 3.0 | 4.8 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.7 | 3.0 |
| | 73 | 22.5 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.8 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.6 | 3.0 |
| | 77 | 25.0 | 4.2 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 | 4.7 | 3.0 | 4.9 | 3.1 | 5.2 | 3.0 | 5.6 | 3.0 |
| | 82 | 27.5 | 4.1 | 2.9 | 4.2 | 2.9 | 4.5 | 2.9 | 4.7 | 2.9 | 4.9 | 3.1 | 5.2 | 3.0 | 5.4 | 2.9 |
| | 86 | 30.0 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 2.9 | 4.8 | 3.0 | 5.1 | 3.0 | 5.4 | 3.0 |
| | 91 | 32.5 | 4.1 | 2.8 | 4.1 | 2.9 | 4.4 | 2.8 | 4.5 | 2.9 | 4.8 | 3.0 | 5.1 | 3.0 | 5.4 | 2.9 |
| | 95 | 35.0 | 4.0 | 2.8 | 4.1 | 2.8 | 4.4 | 2.8 | 4.5 | 2.8 | 4.7 | 3.0 | 5.0 | 3.0 | 5.4 | 2.9 |
| | 100 | 37.5 | 4.0 | 2.8 | 4.0 | 2.8 | 4.3 | 2.8 | 4.4 | 2.8 | 4.7 | 3.0 | 5.0 | 2.9 | 5.3 | 2.9 |
| | 104 | 40.0 | 3.9 | 2.7 | 4.0 | 2.8 | 4.3 | 2.8 | 4.4 | 2.8 | 4.6 | 2.9 | 5.0 | 2.9 | 5.3 | 2.9 |
| | 110 | 43.0 | 3.9 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.3 | 2.8 | 4.5 | 2.9 | 4.9 | 2.9 | 5.2 | 2.9 |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.7 | 5.5 | 3.8 | 5.8 | 3.8 | 6.0 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 7.1 | 3.8 |
| | 73 | 22.5 | 5.3 | 3.7 | 5.4 | 3.7 | 5.8 | 3.7 | 5.9 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 7.0 | 3.8 |
| | 77 | 25.0 | 5.2 | 3.6 | 5.3 | 3.7 | 5.7 | 3.7 | 5.9 | 3.7 | 6.1 | 3.9 | 6.5 | 3.8 | 6.9 | 3.8 |
| | 82 | 27.5 | 5.2 | 3.6 | 5.3 | 3.7 | 5.7 | 3.7 | 5.8 | 3.7 | 6.0 | 3.8 | 6.4 | 3.8 | 6.7 | 3.7 |
| | 86 | 30.0 | 5.1 | 3.6 | 5.2 | 3.6 | 5.6 | 3.6 | 5.8 | 3.7 | 6.0 | 3.8 | 6.4 | 3.8 | 6.8 | 3.7 |
| | 91 | 32.5 | 5.0 | 3.5 | 5.2 | 3.6 | 5.5 | 3.6 | 5.7 | 3.6 | 5.9 | 3.8 | 6.3 | 3.8 | 6.7 | 3.7 |
| | 95 | 35.0 | 5.0 | 3.5 | 5.1 | 3.6 | 5.5 | 3.6 | 5.6 | 3.6 | 5.8 | 3.7 | 6.3 | 3.7 | 6.7 | 3.7 |
| | 100 | 37.5 | 4.9 | 3.5 | 5.0 | 3.5 | 5.4 | 3.5 | 5.5 | 3.6 | 5.8 | 3.7 | 6.2 | 3.7 | 6.6 | 3.7 |
| | 104 | 40.0 | 4.8 | 3.4 | 5.0 | 3.5 | 5.3 | 3.5 | 5.4 | 3.5 | 5.7 | 3.7 | 6.2 | 3.7 | 6.6 | 3.6 |
| | 110 | 43.0 | 4.8 | 3.4 | 4.9 | 3.5 | 5.3 | 3.5 | 5.4 | 3.5 | 5.7 | 3.7 | 6.0 | 3.6 | 6.5 | 3.6 |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.8 | 6.9 | 4.9 | 7.4 | 4.9 | 7.6 | 4.9 | 7.9 | 5.1 | 8.4 | 5.0 | 8.9 | 5.0 |
| | 73 | 22.5 | 6.7 | 4.7 | 6.9 | 4.8 | 7.3 | 4.8 | 7.5 | 4.9 | 7.8 | 5.1 | 8.3 | 5.0 | 8.8 | 4.9 |
| | 77 | 25.0 | 6.6 | 4.7 | 6.8 | 4.8 | 7.2 | 4.8 | 7.5 | 4.8 | 7.7 | 5.0 | 8.2 | 5.0 | 8.8 | 4.9 |
| | 82 | 27.5 | 6.5 | 4.7 | 6.7 | 4.8 | 7.2 | 4.8 | 7.4 | 4.8 | 7.7 | 5.0 | 8.2 | 4.9 | 8.5 | 4.8 |
| | 86 | 30.0 | 6.5 | 4.6 | 6.6 | 4.7 | 7.1 | 4.7 | 7.3 | 4.8 | 7.6 | 5.0 | 8.1 | 4.9 | 8.6 | 4.8 |
| | 91 | 32.5 | 6.4 | 4.6 | 6.5 | 4.7 | 7.0 | 4.7 | 7.2 | 4.7 | 7.5 | 4.9 | 8.0 | 4.9 | 8.5 | 4.8 |
| | 95 | 35.0 | 6.3 | 4.6 | 6.4 | 4.6 | 6.9 | 4.6 | 7.1 | 4.7 | 7.4 | 4.9 | 8.0 | 4.9 | 8.4 | 4.8 |
| | 100 | 37.5 | 6.2 | 4.5 | 6.4 | 4.6 | 6.8 | 4.6 | 7.0 | 4.6 | 7.3 | 4.9 | 7.8 | 4.8 | 8.4 | 4.8 |
| | 104 | 40.0 | 6.1 | 4.5 | 6.3 | 4.6 | 6.8 | 4.6 | 6.9 | 4.6 | 7.2 | 4.8 | 7.8 | 4.8 | 8.3 | 4.7 |
| | 110 | 43.0 | 6.1 | 4.4 | 6.2 | 4.5 | 6.7 | 4.5 | 6.8 | 4.5 | 7.2 | 4.8 | 7.7 | 4.7 | 8.2 | 4.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|------|-----------------|-----|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 80 (9.0) | 68 | 20.0 | 8.5 | 6.0 | 8.8 | 6.2 | 9.4 | 6.2 | 9.6 | 6.2 | 10.0 | 6.5 | 10.6 | 6.4 | 11.3 | 6.3 |
| | 73 | 22.5 | 8.5 | 6.0 | 8.7 | 6.1 | 9.3 | 6.1 | 9.5 | 6.2 | 9.9 | 6.4 | 10.6 | 6.4 | 11.2 | 6.3 |
| | 77 | 25.0 | 8.4 | 6.0 | 8.6 | 6.1 | 9.2 | 6.1 | 9.5 | 6.1 | 9.8 | 6.4 | 10.4 | 6.3 | 11.1 | 6.2 |
| | 82 | 27.5 | 8.3 | 5.9 | 8.5 | 6.0 | 9.1 | 6.0 | 9.4 | 6.1 | 9.7 | 6.3 | 10.4 | 6.3 | 10.8 | 6.1 |
| | 86 | 30.0 | 8.2 | 5.9 | 8.4 | 6.0 | 9.0 | 6.0 | 9.3 | 6.0 | 9.6 | 6.3 | 10.3 | 6.2 | 10.9 | 6.1 |
| | 91 | 32.5 | 8.1 | 5.8 | 8.3 | 5.9 | 8.8 | 5.9 | 9.1 | 6.0 | 9.5 | 6.3 | 10.2 | 6.2 | 10.8 | 6.1 |
| | 95 | 35.0 | 8.0 | 5.8 | 8.1 | 5.9 | 8.8 | 5.9 | 9.0 | 5.9 | 9.4 | 6.2 | 10.1 | 6.2 | 10.7 | 6.1 |
| | 100 | 37.5 | 7.9 | 5.7 | 8.1 | 5.8 | 8.6 | 5.8 | 8.9 | 5.9 | 9.3 | 6.2 | 9.9 | 6.1 | 10.6 | 6.0 |
| | 104 | 40.0 | 7.8 | 5.7 | 8.0 | 5.8 | 8.6 | 5.8 | 8.7 | 5.8 | 9.2 | 6.1 | 9.9 | 6.1 | 10.5 | 6.0 |
| | 110 | 43.0 | 7.7 | 5.6 | 7.9 | 5.7 | 8.5 | 5.7 | 8.6 | 5.8 | 9.1 | 6.1 | 9.7 | 6.0 | 10.4 | 6.0 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.7 | 10.9 | 7.9 | 11.6 | 7.8 | 12.0 | 7.9 | 12.5 | 8.2 | 13.2 | 8.1 | 14.1 | 8.0 |
| | 73 | 22.5 | 10.5 | 7.6 | 10.8 | 7.8 | 11.5 | 7.8 | 11.9 | 7.8 | 12.3 | 8.2 | 13.2 | 8.1 | 13.9 | 8.0 |
| | 77 | 25.0 | 10.4 | 7.6 | 10.7 | 7.8 | 11.4 | 7.7 | 11.8 | 7.8 | 12.2 | 8.1 | 13.0 | 8.0 | 13.8 | 7.9 |
| | 82 | 27.5 | 10.3 | 7.5 | 10.5 | 7.7 | 11.3 | 7.7 | 11.6 | 7.7 | 12.1 | 8.1 | 12.9 | 8.0 | 13.4 | 7.8 |
| | 86 | 30.0 | 10.2 | 7.5 | 10.4 | 7.6 | 11.2 | 7.6 | 11.5 | 7.7 | 12.0 | 8.0 | 12.8 | 7.9 | 13.6 | 7.8 |
| | 91 | 32.5 | 10.1 | 7.4 | 10.3 | 7.6 | 11.0 | 7.5 | 11.3 | 7.6 | 11.9 | 8.0 | 12.7 | 7.9 | 13.4 | 7.8 |
| | 95 | 35.0 | 10.0 | 7.3 | 10.1 | 7.5 | 10.9 | 7.5 | 11.2 | 7.6 | 11.6 | 7.9 | 12.5 | 7.9 | 13.3 | 7.7 |
| | 100 | 37.5 | 9.9 | 7.3 | 10.0 | 7.4 | 10.8 | 7.4 | 11.0 | 7.5 | 11.6 | 7.9 | 12.4 | 7.8 | 13.2 | 7.7 |
| | 104 | 40.0 | 9.7 | 7.2 | 9.9 | 7.4 | 10.7 | 7.4 | 10.9 | 7.4 | 11.4 | 7.8 | 12.3 | 7.8 | 13.1 | 7.7 |
| | 110 | 43.0 | 9.6 | 7.2 | 9.8 | 7.3 | 10.5 | 7.3 | 10.8 | 7.4 | 11.3 | 7.7 | 12.1 | 7.7 | 13.0 | 7.6 |
| 125 (14.0) | 68 | 20.0 | 13.2 | 9.7 | 13.7 | 10.0 | 14.6 | 9.9 | 15.0 | 10.1 | 15.6 | 10.5 | 16.5 | 10.3 | 17.6 | 10.2 |
| | 73 | 22.5 | 13.2 | 9.7 | 13.5 | 9.9 | 14.4 | 9.9 | 14.8 | 10.0 | 15.4 | 10.4 | 16.5 | 10.3 | 17.4 | 10.2 |
| | 77 | 25.0 | 13.0 | 9.6 | 13.4 | 9.9 | 14.3 | 9.8 | 14.7 | 9.9 | 15.3 | 10.4 | 16.2 | 10.2 | 17.3 | 10.1 |
| | 82 | 27.5 | 12.9 | 9.5 | 13.2 | 9.8 | 14.1 | 9.7 | 14.6 | 9.9 | 15.1 | 10.3 | 16.1 | 10.2 | 16.8 | 9.9 |
| | 86 | 30.0 | 12.7 | 9.5 | 13.0 | 9.7 | 14.0 | 9.7 | 14.4 | 9.8 | 15.0 | 10.2 | 16.0 | 10.1 | 16.9 | 10.0 |
| | 91 | 32.5 | 12.6 | 9.4 | 12.9 | 9.6 | 13.7 | 9.6 | 14.1 | 9.7 | 14.8 | 10.2 | 15.8 | 10.1 | 16.8 | 9.9 |
| | 95 | 35.0 | 12.5 | 9.3 | 12.7 | 9.5 | 13.7 | 9.5 | 14.0 | 9.6 | 14.6 | 10.1 | 15.7 | 10.0 | 16.7 | 9.9 |
| | 100 | 37.5 | 12.3 | 9.3 | 12.6 | 9.5 | 13.4 | 9.4 | 13.8 | 9.5 | 14.5 | 10.0 | 15.5 | 9.9 | 16.5 | 9.8 |
| | 104 | 40.0 | 12.1 | 9.2 | 12.4 | 9.4 | 13.4 | 9.4 | 13.6 | 9.5 | 14.3 | 9.9 | 15.4 | 9.9 | 16.4 | 9.8 |
| | 110 | 43.0 | 12.0 | 9.1 | 12.3 | 9.3 | 13.2 | 9.3 | 13.4 | 9.4 | 14.1 | 9.9 | 15.1 | 9.8 | 16.2 | 9.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VLMD-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.5 | 4.4 | 4.3 | 4.2 |
| | 23 | -5.0 | 5.2 | 5.0 | 4.9 | 4.4 |
| | 32 | 0.0 | 5.8 | 5.7 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.0 | 6.0 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.5 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.7 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.0 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.3 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 7.3 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.3 | 5.1 | 5.1 | 5.0 |
| | 5 | -15.0 | 6.3 | 6.1 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.2 | 7.0 | 6.8 | 6.6 |
| | 23 | -5.0 | 8.2 | 8.0 | 7.7 | 7.1 |
| | 32 | 0.0 | 9.2 | 9.0 | 8.0 | 7.1 |
| | 37 | 2.5 | 9.6 | 9.5 | 8.0 | 7.1 |
| | 43 | 6.0 | 10.3 | 10.0 | 8.0 | 7.1 |
| | 46 | 7.5 | 10.6 | 10.0 | 8.0 | 7.1 |
| | 50 | 10.0 | 11.1 | 10.0 | 8.0 | 7.1 |
| | 55 | 12.5 | 11.6 | 10.0 | 8.0 | 7.1 |
| 60 | 15.5 | 11.6 | 10.0 | 8.0 | 7.1 | |
| 100 (11.2) | -4 | -20.0 | 6.6 | 6.4 | 6.4 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.3 |
| | 14 | -10.0 | 9.0 | 8.8 | 8.5 | 8.3 |
| | 23 | -5.0 | 10.3 | 10.0 | 9.6 | 8.8 |
| | 32 | 0.0 | 11.5 | 11.3 | 9.9 | 8.8 |
| | 37 | 2.5 | 12.0 | 11.9 | 9.9 | 8.8 |
| | 43 | 6.0 | 12.9 | 12.5 | 9.9 | 8.8 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.9 | 8.8 |
| | 50 | 10.0 | 13.9 | 12.5 | 9.9 | 8.8 |
| | 55 | 12.5 | 14.5 | 12.5 | 9.9 | 8.8 |
| 60 | 15.5 | 14.5 | 12.5 | 9.9 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.5 | 8.2 | 8.2 | 8.0 |
| | 5 | -15.0 | 10.0 | 9.7 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.5 | 11.2 | 10.9 | 10.6 |
| | 23 | -5.0 | 13.1 | 12.8 | 12.3 | 11.3 |
| | 32 | 0.0 | 14.7 | 14.4 | 12.7 | 11.3 |
| | 37 | 2.5 | 15.4 | 15.2 | 12.7 | 11.3 |
| | 43 | 6.0 | 16.5 | 16.0 | 12.7 | 11.3 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.7 | 11.3 |
| | 50 | 10.0 | 17.8 | 16.0 | 12.7 | 11.3 |
| | 55 | 12.5 | 18.6 | 16.0 | 12.7 | 11.3 |
| 60 | 15.5 | 18.6 | 16.0 | 12.7 | 11.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|--------------------------------------|------|------------------------------------|------|------------------------------------|------|------------------------------------|------|------------------------------------|------|------------------------------------|------|------------------------------------|------|
| | | | 71°FDB / 59°FWB 21.5°CDB / 15°CWB | | 73°FDB / 61°FWB 23°CDB / 16°CWB | | 77°FDB / 64°FWB 25°CDB / 18°CWB | | 81°FDB / 66°FWB 27°CDB / 19°CWB | | 82°FDB / 68°FWB 28°CDB / 20°CWB | | 86°FDB / 72°FWB 30°CDB / 22°CWB | | 90°FDB / 75°FWB 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 |
| | 68 | 20.0 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 86 | 30.0 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.7 | 1.6 | 1.8 | 1.6 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 |
| | 113 | 45.0 | 1.6 | 1.5 | 1.7 | 1.6 | 1.8 | 1.6 | 1.9 | 1.6 | 1.9 | 1.7 | 2.0 | 1.7 | 2.2 | 1.6 |
| 25 (2.8) | 50 | 10.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.1 | 2.1 | 3.2 | 2.1 | 3.3 | 2.2 | 3.5 | 2.2 | 3.7 | 2.2 |
| | 68 | 20.0 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.1 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 86 | 30.0 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.0 | 2.9 | 2.1 | 3.1 | 2.0 | 3.2 | 2.0 |
| | 104 | 40.0 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.8 | 2.5 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 | 2.9 | 1.9 |
| | 113 | 45.0 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.8 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.6 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.7 | 4.7 | 2.7 |
| | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.5 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 86 | 30.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.6 | 3.9 | 2.5 | 4.2 | 2.5 |
| | 104 | 40.0 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.3 | 3.4 | 2.4 | 3.6 | 2.4 | 3.8 | 2.3 |
| | 113 | 45.0 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.1 | 5.1 | 3.1 | 5.2 | 3.2 | 5.6 | 3.2 | 5.9 | 3.1 |
| | 68 | 20.0 | 4.2 | 2.9 | 4.4 | 3.0 | 4.7 | 3.0 | 4.8 | 3.0 | 5.0 | 3.1 | 5.3 | 3.1 | 5.6 | 3.0 |
| | 86 | 30.0 | 3.9 | 2.8 | 4.1 | 2.8 | 4.4 | 2.8 | 4.5 | 2.8 | 4.6 | 2.9 | 4.9 | 2.9 | 5.2 | 2.9 |
| | 104 | 40.0 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.7 | 4.7 | 2.7 |
| | 113 | 45.0 | 3.3 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.6 | 4.4 | 2.6 |
| 50 (5.6) | 50 | 10.0 | 5.5 | 3.8 | 5.7 | 3.9 | 6.1 | 3.9 | 6.3 | 3.9 | 6.5 | 4.1 | 6.9 | 4.0 | 7.3 | 3.9 |
| | 68 | 20.0 | 5.3 | 3.7 | 5.4 | 3.8 | 5.8 | 3.7 | 6.0 | 3.8 | 6.2 | 3.9 | 6.6 | 3.9 | 6.9 | 3.8 |
| | 86 | 30.0 | 4.9 | 3.5 | 5.1 | 3.6 | 5.4 | 3.6 | 5.6 | 3.6 | 5.8 | 3.7 | 6.1 | 3.7 | 6.5 | 3.6 |
| | 104 | 40.0 | 4.4 | 3.2 | 4.6 | 3.3 | 4.9 | 3.3 | 5.1 | 3.4 | 5.2 | 3.5 | 5.5 | 3.4 | 5.9 | 3.4 |
| | 113 | 45.0 | 4.2 | 3.1 | 4.3 | 3.2 | 4.6 | 3.2 | 4.7 | 3.2 | 4.9 | 3.3 | 5.2 | 3.3 | 5.5 | 3.2 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 4.9 | 7.3 | 5.1 | 7.8 | 5.0 | 8.0 | 5.1 | 8.3 | 5.3 | 8.8 | 5.2 | 9.3 | 5.1 |
| | 68 | 20.0 | 6.7 | 4.7 | 6.9 | 4.9 | 7.4 | 4.8 | 7.6 | 4.9 | 7.8 | 5.1 | 8.3 | 5.0 | 8.8 | 4.9 |
| | 86 | 30.0 | 6.2 | 4.5 | 6.4 | 4.6 | 6.9 | 4.6 | 7.1 | 4.7 | 7.3 | 4.8 | 7.8 | 4.8 | 8.2 | 4.7 |
| | 104 | 40.0 | 5.6 | 4.2 | 5.8 | 4.3 | 6.2 | 4.3 | 6.4 | 4.4 | 6.6 | 4.5 | 7.0 | 4.5 | 7.4 | 4.4 |
| | 113 | 45.0 | 5.3 | 4.0 | 5.4 | 4.2 | 5.8 | 4.1 | 6.0 | 4.2 | 6.2 | 4.4 | 6.6 | 4.3 | 6.9 | 4.2 |
| 80 (9.0) | 50 | 10.0 | 8.9 | 6.2 | 9.2 | 6.4 | 9.9 | 6.4 | 10.2 | 6.5 | 10.5 | 6.7 | 11.1 | 6.6 | 11.8 | 6.5 |
| | 68 | 20.0 | 8.5 | 6.0 | 8.8 | 6.2 | 9.3 | 6.1 | 9.6 | 6.2 | 9.9 | 6.4 | 10.5 | 6.3 | 11.2 | 6.2 |
| | 86 | 30.0 | 7.9 | 5.7 | 8.2 | 5.9 | 8.7 | 5.8 | 9.0 | 5.9 | 9.3 | 6.1 | 9.8 | 6.1 | 10.4 | 6.0 |
| | 104 | 40.0 | 7.1 | 5.3 | 7.4 | 5.5 | 7.9 | 5.5 | 8.1 | 5.6 | 8.4 | 5.8 | 8.9 | 5.7 | 9.4 | 5.6 |
| | 113 | 45.0 | 6.7 | 5.1 | 6.9 | 5.3 | 7.4 | 5.2 | 7.6 | 5.3 | 7.9 | 5.5 | 8.3 | 5.5 | 8.8 | 5.4 |
| 100 (11.2) | 50 | 10.0 | 11.1 | 7.9 | 11.5 | 8.1 | 12.3 | 8.1 | 12.7 | 8.2 | 13.1 | 8.5 | 13.8 | 8.4 | 14.6 | 8.2 |
| | 68 | 20.0 | 10.5 | 7.6 | 10.9 | 7.8 | 11.6 | 7.8 | 12.0 | 7.9 | 12.4 | 8.2 | 13.1 | 8.1 | 13.9 | 7.9 |
| | 86 | 30.0 | 9.8 | 7.3 | 10.2 | 7.5 | 10.9 | 7.4 | 11.2 | 7.6 | 11.5 | 7.8 | 12.2 | 7.7 | 12.9 | 7.6 |
| | 104 | 40.0 | 8.9 | 6.8 | 9.2 | 7.0 | 9.8 | 7.0 | 10.1 | 7.1 | 10.5 | 7.4 | 11.1 | 7.3 | 11.7 | 7.2 |
| | 113 | 45.0 | 8.3 | 6.5 | 8.6 | 6.7 | 9.2 | 6.7 | 9.5 | 6.8 | 9.8 | 7.1 | 10.4 | 7.0 | 11.0 | 6.9 |
| 125 (14.0) | 50 | 10.0 | 13.9 | 10.0 | 14.4 | 10.4 | 15.3 | 10.3 | 15.8 | 10.4 | 16.3 | 10.8 | 17.3 | 10.7 | 18.3 | 10.5 |
| | 68 | 20.0 | 13.1 | 9.7 | 13.6 | 10.0 | 14.5 | 9.9 | 15.0 | 10.1 | 15.5 | 10.4 | 16.4 | 10.3 | 17.3 | 10.1 |
| | 86 | 30.0 | 12.3 | 9.2 | 12.7 | 9.5 | 13.6 | 9.5 | 14.0 | 9.6 | 14.4 | 10.0 | 15.3 | 9.9 | 16.2 | 9.7 |
| | 104 | 40.0 | 11.1 | 8.7 | 11.5 | 9.0 | 12.3 | 8.9 | 12.7 | 9.1 | 13.1 | 9.4 | 13.8 | 9.3 | 14.6 | 9.2 |
| | 113 | 45.0 | 10.4 | 8.3 | 10.7 | 8.6 | 11.5 | 8.6 | 11.8 | 8.7 | 12.2 | 9.1 | 12.9 | 9.0 | 13.7 | 8.8 |

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PLFY-P-VLMD-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °F | °C | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 50 (5.6) | 50 | 10 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 68 | 20 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 86 | 30 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 104 | 40 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 113 | 45 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| 80 (9.0) | 50 | 10 | 7.1 | 7.1 | 7.1 | 6.0 | 5.5 |
| | 68 | 20 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 86 | 30 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 104 | 40 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| | 113 | 45 | 9.0 | 9.0 | 9.0 | 7.6 | 7.0 |
| 100 (11.2) | 50 | 10 | 7.9 | 7.9 | 7.9 | 6.7 | 6.1 |
| | 68 | 20 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 86 | 30 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 104 | 40 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 113 | 45 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| 125 (14.0) | 50 | 10 | 9.9 | 9.9 | 9.9 | 8.4 | 7.7 |
| | 68 | 20 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 86 | 30 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 104 | 40 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 113 | 45 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | |
| | 73 | 22.5 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | |
| | 82 | 27.5 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | |
| | 86 | 30.0 | 2.0 | 1.6 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | |
| | 91 | 32.5 | 1.9 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 | |
| | 95 | 35.0 | 1.9 | 1.5 | 2.0 | 1.6 | 2.1 | 1.6 | 2.2 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | 2.5 | 1.7 | |
| | 100 | 37.5 | 1.9 | 1.5 | 1.9 | 1.6 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.4 | 1.7 | 2.5 | 1.7 | |
| | 104 | 40.0 | 1.8 | 1.5 | 1.9 | 1.5 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.5 | 1.7 | |
| 110 | 43.0 | 1.8 | 1.4 | 1.8 | 1.5 | 2.0 | 1.5 | 2.1 | 1.6 | 2.1 | 1.7 | 2.3 | 1.7 | 2.4 | 1.7 | | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 1.9 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.1 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 | |
| | 73 | 22.5 | 2.6 | 1.9 | 2.7 | 2.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.4 | 2.1 | |
| | 77 | 25.0 | 2.6 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.0 | |
| | 82 | 27.5 | 2.6 | 1.9 | 2.6 | 1.9 | 2.8 | 1.9 | 2.9 | 2.0 | 3.0 | 2.0 | 3.1 | 2.0 | 3.3 | 2.0 | |
| | 86 | 30.0 | 2.5 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 | 2.9 | 2.0 | 2.9 | 2.0 | 3.1 | 2.0 | 3.3 | 2.0 | |
| | 91 | 32.5 | 2.5 | 1.8 | 2.6 | 1.9 | 2.7 | 1.9 | 2.8 | 2.0 | 2.9 | 2.0 | 3.1 | 2.0 | 3.2 | 2.0 | |
| | 95 | 35.0 | 2.4 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | 2.8 | 2.0 | 2.9 | 2.0 | 3.0 | 2.0 | 3.2 | 2.0 | |
| | 100 | 37.5 | 2.4 | 1.7 | 2.5 | 1.8 | 2.6 | 1.8 | 2.7 | 1.9 | 2.8 | 1.9 | 3.0 | 1.9 | 3.2 | 1.9 | |
| | 104 | 40.0 | 2.3 | 1.7 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.9 | 2.8 | 1.9 | 3.0 | 1.9 | 3.2 | 1.9 | |
| 110 | 43.0 | 2.3 | 1.6 | 2.4 | 1.7 | 2.5 | 1.7 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.1 | 1.9 | | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 | 4.4 | 2.6 | |
| | 73 | 22.5 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 | |
| | 77 | 25.0 | 3.3 | 2.4 | 3.4 | 2.4 | 3.7 | 2.4 | 3.8 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 | |
| | 82 | 27.5 | 3.3 | 2.3 | 3.4 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.5 | 4.3 | 2.5 | |
| | 86 | 30.0 | 3.2 | 2.3 | 3.3 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.5 | 4.2 | 2.5 | |
| | 91 | 32.5 | 3.2 | 2.2 | 3.3 | 2.3 | 3.5 | 2.3 | 3.6 | 2.5 | 3.7 | 2.5 | 4.0 | 2.5 | 4.2 | 2.4 | |
| | 95 | 35.0 | 3.1 | 2.2 | 3.2 | 2.3 | 3.5 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.9 | 2.4 | 4.1 | 2.4 | |
| | 100 | 37.5 | 3.0 | 2.1 | 3.2 | 2.2 | 3.4 | 2.3 | 3.5 | 2.4 | 3.6 | 2.4 | 3.9 | 2.4 | 4.1 | 2.4 | |
| | 104 | 40.0 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.4 | 3.6 | 2.4 | 3.8 | 2.4 | 4.1 | 2.4 | |
| 110 | 43.0 | 2.9 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.4 | 2.3 | 3.5 | 2.3 | 3.7 | 2.3 | 4.0 | 2.3 | | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 2.8 | 4.4 | 2.9 | 4.7 | 2.9 | 4.8 | 3.0 | 5.0 | 3.0 | 5.2 | 3.0 | 5.5 | 2.9 | |
| | 73 | 22.5 | 4.2 | 2.8 | 4.4 | 2.8 | 4.6 | 2.8 | 4.8 | 3.0 | 4.9 | 3.0 | 5.2 | 3.0 | 5.4 | 2.9 | |
| | 77 | 25.0 | 4.2 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 | 4.7 | 3.0 | 4.8 | 3.0 | 5.1 | 2.9 | 5.4 | 2.9 | |
| | 82 | 27.5 | 4.1 | 2.7 | 4.2 | 2.8 | 4.5 | 2.8 | 4.6 | 2.9 | 4.8 | 2.9 | 5.1 | 2.9 | 5.3 | 2.8 | |
| | 86 | 30.0 | 4.1 | 2.6 | 4.2 | 2.7 | 4.5 | 2.7 | 4.6 | 2.9 | 4.7 | 2.9 | 5.0 | 2.9 | 5.3 | 2.8 | |
| | 91 | 32.5 | 4.0 | 2.6 | 4.1 | 2.7 | 4.4 | 2.7 | 4.5 | 2.9 | 4.7 | 2.9 | 4.9 | 2.8 | 5.2 | 2.8 | |
| | 95 | 35.0 | 3.9 | 2.5 | 4.0 | 2.6 | 4.3 | 2.6 | 4.5 | 2.8 | 4.6 | 2.8 | 4.9 | 2.8 | 5.2 | 2.8 | |
| | 100 | 37.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.6 | 4.4 | 2.8 | 4.5 | 2.8 | 4.8 | 2.8 | 5.1 | 2.7 | |
| | 104 | 40.0 | 3.7 | 2.4 | 3.9 | 2.5 | 4.2 | 2.6 | 4.3 | 2.7 | 4.5 | 2.7 | 4.8 | 2.7 | 5.1 | 2.7 | |
| 110 | 43.0 | 3.6 | 2.4 | 3.8 | 2.5 | 4.1 | 2.5 | 4.2 | 2.7 | 4.4 | 2.7 | 4.7 | 2.7 | 5.0 | 2.7 | | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.5 | 5.5 | 3.6 | 5.8 | 3.6 | 6.0 | 3.8 | 6.2 | 3.8 | 6.5 | 3.8 | 6.8 | 3.7 | |
| | 73 | 22.5 | 5.3 | 3.5 | 5.4 | 3.6 | 5.8 | 3.6 | 5.9 | 3.8 | 6.1 | 3.8 | 6.4 | 3.7 | 6.8 | 3.7 | |
| | 77 | 25.0 | 5.2 | 3.4 | 5.3 | 3.5 | 5.7 | 3.5 | 5.9 | 3.8 | 6.0 | 3.7 | 6.4 | 3.7 | 6.7 | 3.6 | |
| | 82 | 27.5 | 5.1 | 3.4 | 5.3 | 3.5 | 5.6 | 3.5 | 5.8 | 3.7 | 6.0 | 3.7 | 6.3 | 3.7 | 6.6 | 3.6 | |
| | 86 | 30.0 | 5.0 | 3.3 | 5.2 | 3.4 | 5.5 | 3.4 | 5.7 | 3.7 | 5.9 | 3.7 | 6.2 | 3.6 | 6.6 | 3.6 | |
| | 91 | 32.5 | 4.9 | 3.3 | 5.1 | 3.4 | 5.5 | 3.4 | 5.6 | 3.6 | 5.8 | 3.6 | 6.1 | 3.6 | 6.5 | 3.5 | |
| | 95 | 35.0 | 4.8 | 3.2 | 5.0 | 3.3 | 5.4 | 3.3 | 5.5 | 3.6 | 5.7 | 3.6 | 6.1 | 3.5 | 6.4 | 3.5 | |
| | 100 | 37.5 | 4.7 | 3.1 | 4.9 | 3.3 | 5.3 | 3.3 | 5.5 | 3.5 | 5.6 | 3.5 | 6.0 | 3.5 | 6.4 | 3.5 | |
| | 104 | 40.0 | 4.6 | 3.1 | 4.8 | 3.2 | 5.2 | 3.2 | 5.4 | 3.5 | 5.6 | 3.5 | 5.9 | 3.5 | 6.3 | 3.4 | |
| 110 | 43.0 | 4.5 | 3.0 | 4.7 | 3.1 | 5.1 | 3.2 | 5.3 | 3.4 | 5.5 | 3.4 | 5.8 | 3.4 | 6.2 | 3.4 | | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.6 | 7.0 | 4.7 | 7.4 | 4.7 | 7.6 | 5.0 | 7.8 | 5.0 | 8.2 | 4.9 | 8.7 | 4.8 | |
| | 73 | 22.5 | 6.7 | 4.5 | 6.9 | 4.7 | 7.3 | 4.7 | 7.5 | 4.9 | 7.7 | 4.9 | 8.1 | 4.9 | 8.6 | 4.8 | |
| | 77 | 25.0 | 6.6 | 4.5 | 6.8 | 4.6 | 7.2 | 4.6 | 7.4 | 4.9 | 7.6 | 4.9 | 8.1 | 4.8 | 8.5 | 4.7 | |
| | 82 | 27.5 | 6.5 | 4.4 | 6.7 | 4.5 | 7.1 | 4.5 | 7.3 | 4.8 | 7.5 | 4.8 | 8.0 | 4.8 | 8.4 | 4.7 | |
| | 86 | 30.0 | 6.4 | 4.3 | 6.6 | 4.5 | 7.0 | 4.5 | 7.2 | 4.8 | 7.5 | 4.8 | 7.9 | 4.7 | 8.3 | 4.6 | |
| | 91 | 32.5 | 6.3 | 4.2 | 6.5 | 4.4 | 6.9 | 4.4 | 7.1 | 4.7 | 7.4 | 4.7 | 7.8 | 4.7 | 8.2 | 4.6 | |
| | 95 | 35.0 | 6.1 | 4.2 | 6.4 | 4.3 | 6.8 | 4.3 | 7.0 | 4.6 | 7.3 | 4.6 | 7.7 | 4.6 | 8.2 | 4.5 | |
| | 100 | 37.5 | 6.0 | 4.1 | 6.2 | 4.2 | 6.7 | 4.3 | 6.9 | 4.6 | 7.2 | 4.6 | 7.6 | 4.6 | 8.1 | 4.5 | |
| | 104 | 40.0 | 5.9 | 4.0 | 6.1 | 4.1 | 6.6 | 4.2 | 6.8 | 4.5 | 7.1 | 4.5 | 7.5 | 4.5 | 8.0 | 4.5 | |
| 110 | 43.0 | 5.7 | 3.9 | 6.0 | 4.0 | 6.4 | 4.1 | 6.7 | 4.4 | 6.9 | 4.4 | 7.4 | 4.4 | 7.9 | 4.4 | | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VLMD-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 80 (9.0) | 68 | 20.0 | 8.6 | 5.8 | 8.8 | 6.0 | 9.4 | 6.0 | 9.6 | 6.3 | 9.9 | 6.3 | 10.4 | 6.2 | 11.0 | 6.1 |
| | 73 | 22.5 | 8.4 | 5.7 | 8.7 | 5.9 | 9.2 | 5.9 | 9.5 | 6.3 | 9.8 | 6.2 | 10.3 | 6.2 | 10.9 | 6.1 |
| | 77 | 25.0 | 8.3 | 5.6 | 8.6 | 5.8 | 9.1 | 5.8 | 9.4 | 6.2 | 9.7 | 6.2 | 10.2 | 6.1 | 10.8 | 6.0 |
| | 82 | 27.5 | 8.2 | 5.6 | 8.5 | 5.8 | 9.0 | 5.8 | 9.3 | 6.1 | 9.6 | 6.1 | 10.1 | 6.0 | 10.6 | 5.9 |
| | 86 | 30.0 | 8.1 | 5.5 | 8.4 | 5.7 | 8.9 | 5.7 | 9.2 | 6.0 | 9.5 | 6.0 | 10.0 | 6.0 | 10.5 | 5.9 |
| | 91 | 32.5 | 7.9 | 5.4 | 8.2 | 5.6 | 8.8 | 5.6 | 9.0 | 6.0 | 9.3 | 5.9 | 9.9 | 5.9 | 10.4 | 5.8 |
| | 95 | 35.0 | 7.8 | 5.3 | 8.1 | 5.5 | 8.6 | 5.5 | 8.9 | 5.9 | 9.2 | 5.9 | 9.8 | 5.8 | 10.3 | 5.8 |
| | 100 | 37.5 | 7.6 | 5.2 | 7.9 | 5.4 | 8.5 | 5.4 | 8.8 | 5.8 | 9.1 | 5.8 | 9.7 | 5.8 | 10.2 | 5.7 |
| | 104 | 40.0 | 7.4 | 5.0 | 7.7 | 5.2 | 8.3 | 5.3 | 8.6 | 5.7 | 8.9 | 5.7 | 9.5 | 5.7 | 10.1 | 5.7 |
| 110 | 43.0 | 7.3 | 4.9 | 7.6 | 5.1 | 8.2 | 5.2 | 8.5 | 5.6 | 8.8 | 5.6 | 9.4 | 5.6 | 10.0 | 5.6 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.4 | 11.0 | 7.6 | 11.6 | 7.6 | 12.0 | 8.1 | 12.3 | 8.1 | 13.0 | 8.0 | 13.7 | 7.8 |
| | 73 | 22.5 | 10.5 | 7.3 | 10.8 | 7.5 | 11.5 | 7.5 | 11.8 | 8.0 | 12.2 | 8.0 | 12.9 | 7.9 | 13.5 | 7.8 |
| | 77 | 25.0 | 10.4 | 7.2 | 10.7 | 7.4 | 11.4 | 7.4 | 11.7 | 7.9 | 12.0 | 7.9 | 12.7 | 7.8 | 13.4 | 7.7 |
| | 82 | 27.5 | 10.2 | 7.1 | 10.6 | 7.3 | 11.2 | 7.3 | 11.6 | 7.8 | 11.9 | 7.8 | 12.6 | 7.7 | 13.2 | 7.6 |
| | 86 | 30.0 | 10.1 | 7.0 | 10.4 | 7.2 | 11.1 | 7.3 | 11.4 | 7.7 | 11.8 | 7.7 | 12.4 | 7.6 | 13.1 | 7.5 |
| | 91 | 32.5 | 9.9 | 6.9 | 10.2 | 7.1 | 10.9 | 7.1 | 11.3 | 7.6 | 11.6 | 7.6 | 12.3 | 7.5 | 13.0 | 7.5 |
| | 95 | 35.0 | 9.7 | 6.7 | 10.0 | 7.0 | 10.7 | 7.0 | 11.1 | 7.5 | 11.4 | 7.5 | 12.2 | 7.5 | 12.9 | 7.4 |
| | 100 | 37.5 | 9.5 | 6.6 | 9.8 | 6.8 | 10.6 | 6.9 | 10.9 | 7.4 | 11.3 | 7.4 | 12.0 | 7.4 | 12.7 | 7.3 |
| | 104 | 40.0 | 9.3 | 6.4 | 9.6 | 6.7 | 10.4 | 6.8 | 10.8 | 7.2 | 11.1 | 7.3 | 11.9 | 7.3 | 12.6 | 7.2 |
| 110 | 43.0 | 9.0 | 6.3 | 9.4 | 6.5 | 10.2 | 6.6 | 10.5 | 7.1 | 10.9 | 7.1 | 11.6 | 7.2 | 12.4 | 7.1 | |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.4 | 13.7 | 9.7 | 14.6 | 9.7 | 15.0 | 10.3 | 15.4 | 10.3 | 16.2 | 10.2 | 17.1 | 10.0 |
| | 73 | 22.5 | 13.1 | 9.3 | 13.5 | 9.6 | 14.4 | 9.6 | 14.8 | 10.2 | 15.2 | 10.2 | 16.1 | 10.1 | 16.9 | 9.9 |
| | 77 | 25.0 | 13.0 | 9.2 | 13.4 | 9.5 | 14.2 | 9.5 | 14.6 | 10.1 | 15.1 | 10.1 | 15.9 | 10.0 | 16.7 | 9.8 |
| | 82 | 27.5 | 12.8 | 9.0 | 13.2 | 9.3 | 14.0 | 9.4 | 14.5 | 9.9 | 14.9 | 9.9 | 15.7 | 9.9 | 16.6 | 9.7 |
| | 86 | 30.0 | 12.6 | 8.9 | 13.0 | 9.2 | 13.9 | 9.3 | 14.3 | 9.8 | 14.7 | 9.8 | 15.5 | 9.8 | 16.4 | 9.6 |
| | 91 | 32.5 | 12.3 | 8.7 | 12.8 | 9.0 | 13.6 | 9.1 | 14.1 | 9.7 | 14.5 | 9.7 | 15.4 | 9.6 | 16.2 | 9.5 |
| | 95 | 35.0 | 12.1 | 8.6 | 12.5 | 8.9 | 13.4 | 9.0 | 13.9 | 9.5 | 14.3 | 9.6 | 15.2 | 9.5 | 16.1 | 9.5 |
| | 100 | 37.5 | 11.8 | 8.4 | 12.3 | 8.7 | 13.2 | 8.8 | 13.7 | 9.4 | 14.1 | 9.4 | 15.0 | 9.4 | 15.9 | 9.4 |
| | 104 | 40.0 | 11.6 | 8.2 | 12.0 | 8.5 | 13.0 | 8.7 | 13.4 | 9.2 | 13.9 | 9.3 | 14.8 | 9.3 | 15.8 | 9.3 |
| 110 | 43.0 | 11.3 | 8.0 | 11.8 | 8.3 | 12.7 | 8.5 | 13.2 | 9.1 | 13.6 | 9.1 | 14.6 | 9.1 | 15.5 | 9.1 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VLMD-E

SHC : Sensible Heat Capacity(kW)

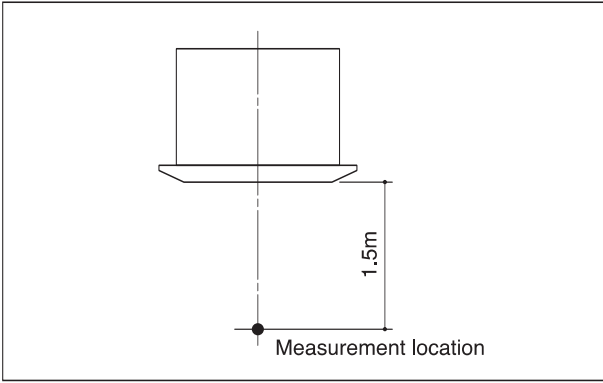
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 | |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 | |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |
| 50 (5.6) | -4 | -20.0 | 4.1 | 4.0 | 3.8 | 3.7 |
| | 5 | -15.0 | 4.4 | 4.2 | 4.1 | 4.0 |
| | 14 | -10.0 | 4.7 | 4.6 | 4.5 | 4.4 |
| | 23 | -5.0 | 5.4 | 5.2 | 5.0 | 4.9 |
| | 32 | 0.0 | 5.9 | 5.8 | 5.5 | 5.5 |
| | 37 | 2.5 | 6.2 | 6.0 | 5.9 | 5.8 |
| | 43 | 6.0 | 6.4 | 6.3 | 6.2 | 6.1 |
| | 46 | 7.5 | 6.8 | 6.7 | 6.2 | 6.1 |
| | 50 | 10.0 | 7.1 | 6.9 | 6.2 | 6.1 |
| | 55 | 12.5 | 7.4 | 7.2 | 6.2 | 6.1 |
| 60 | 15.5 | 7.6 | 7.2 | 6.2 | 6.1 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 6.5 | 6.3 | 6.0 | 5.9 |
| | 5 | -15.0 | 7.0 | 6.7 | 6.5 | 6.4 |
| | 14 | -10.0 | 7.5 | 7.3 | 7.1 | 7.0 |
| | 23 | -5.0 | 8.5 | 8.3 | 7.9 | 7.8 |
| | 32 | 0.0 | 9.4 | 9.2 | 8.8 | 8.7 |
| | 37 | 2.5 | 9.9 | 9.6 | 9.3 | 9.2 |
| | 43 | 6.0 | 10.2 | 10.0 | 9.9 | 9.7 |
| | 46 | 7.5 | 10.8 | 10.6 | 9.9 | 9.7 |
| | 50 | 10.0 | 11.3 | 11.0 | 9.9 | 9.7 |
| | 55 | 12.5 | 11.8 | 11.5 | 9.9 | 9.7 |
| 60 | 15.5 | 12.1 | 11.5 | 9.9 | 9.7 | |
| 100 (11.2) | -4 | -20.0 | 8.1 | 7.9 | 7.5 | 7.4 |
| | 5 | -15.0 | 8.8 | 8.4 | 8.1 | 8.0 |
| | 14 | -10.0 | 9.4 | 9.1 | 8.9 | 8.8 |
| | 23 | -5.0 | 10.6 | 10.4 | 9.9 | 9.8 |
| | 32 | 0.0 | 11.8 | 11.5 | 11.0 | 10.9 |
| | 37 | 2.5 | 12.4 | 12.0 | 11.6 | 11.5 |
| | 43 | 6.0 | 12.8 | 12.5 | 12.4 | 12.1 |
| | 46 | 7.5 | 13.5 | 13.3 | 12.4 | 12.1 |
| | 50 | 10.0 | 14.1 | 13.8 | 12.4 | 12.1 |
| | 55 | 12.5 | 14.8 | 14.4 | 12.4 | 12.1 |
| 60 | 15.5 | 15.1 | 14.4 | 12.4 | 12.1 | |
| 125 (14.0) | -4 | -20.0 | 10.4 | 10.1 | 9.6 | 9.4 |
| | 5 | -15.0 | 11.2 | 10.7 | 10.4 | 10.2 |
| | 14 | -10.0 | 12.0 | 11.7 | 11.4 | 11.2 |
| | 23 | -5.0 | 13.6 | 13.3 | 12.6 | 12.5 |
| | 32 | 0.0 | 15.0 | 14.7 | 14.1 | 13.9 |
| | 37 | 2.5 | 15.8 | 15.4 | 14.9 | 14.7 |
| | 43 | 6.0 | 16.3 | 16.0 | 15.8 | 15.5 |
| | 46 | 7.5 | 17.3 | 17.0 | 15.8 | 15.5 |
| | 50 | 10.0 | 18.1 | 17.6 | 15.8 | 15.5 |
| | 55 | 12.5 | 18.9 | 18.4 | 15.8 | 15.5 |
| 60 | 15.5 | 19.4 | 18.4 | 15.8 | 15.5 | |

3. SOUND LEVELS

3-1. Sound levels

PLFY-P-VLMD-E



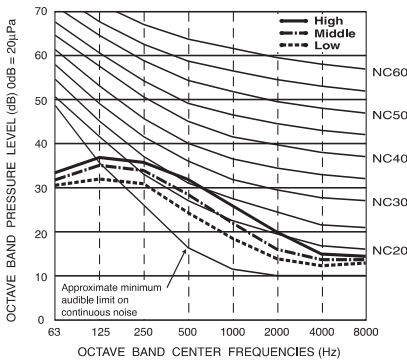
Sound level at anechoic room : Low-Mid-High

| | Sound level dB (A) | |
|-----------------|--------------------|----------|
| | 220,240V | 230V |
| PLFY-P20VLMD-E | 27-30-33 | 28-31-34 |
| PLFY-P25VLMD-E | | |
| PLFY-P32VLMD-E | | |
| PLFY-P40VLMD-E | 29-33-36 | 30-34-37 |
| PLFY-P50VLMD-E | 31-34-37 | 32-35-38 |
| PLFY-P63VLMD-E | 32-37-39 | 33-38-40 |
| PLFY-P80VLMD-E | 33-36-39 | 34-37-40 |
| PLFY-P100VLMD-E | 36-39-42 | 37-41-43 |
| PLFY-P125VLMD-E | 40-42-44-46 | |

3-2. NC curves

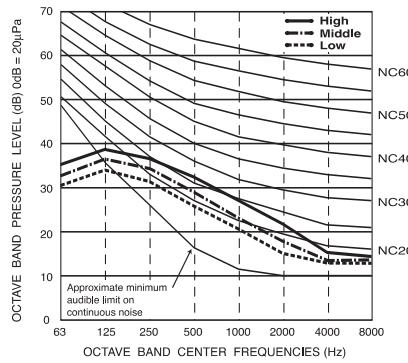
PLFY-P20,25VLMD-E

External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



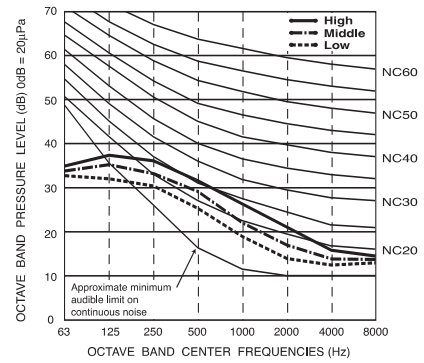
PLFY-P20,25VLMD-E

External static pressure : 0Pa
Power source : 230V, 50/60Hz



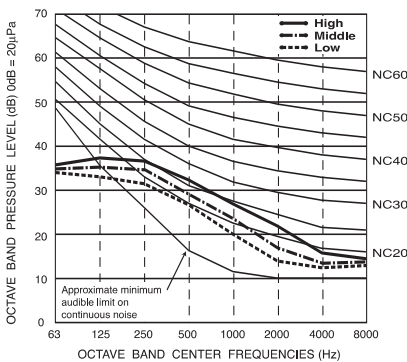
PLFY-P32VLMD-E

External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



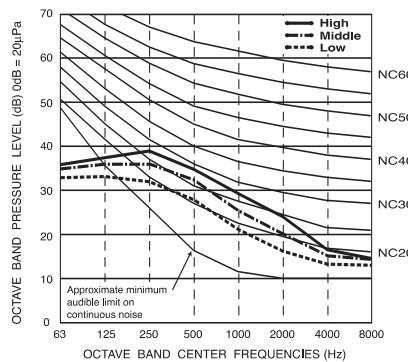
PLFY-P32VLMD-E

External static pressure : 0Pa
Power source : 230V, 50/60Hz



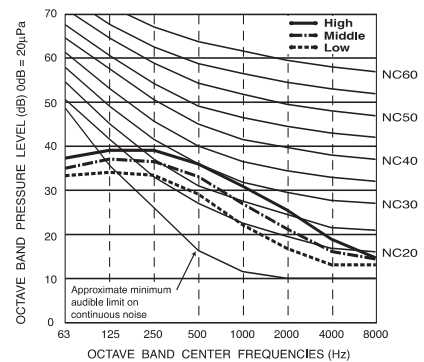
PLFY-P40VLMD-E

External static pressure : 0Pa
Power source : 220,240V, 50/60Hz

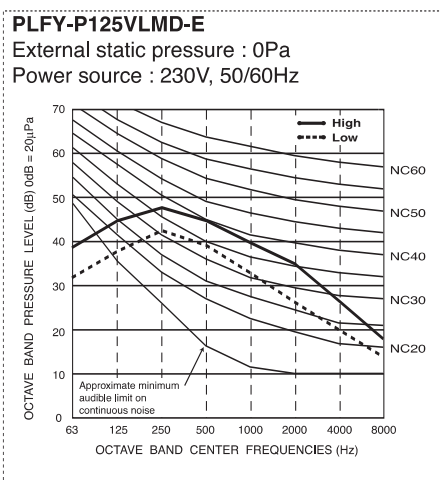
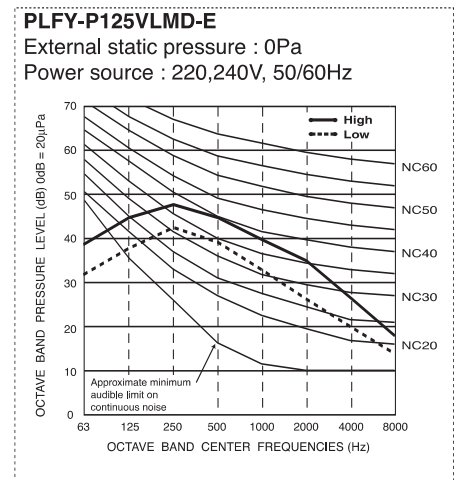
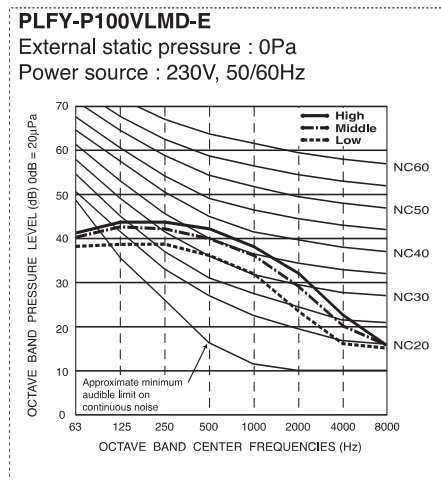
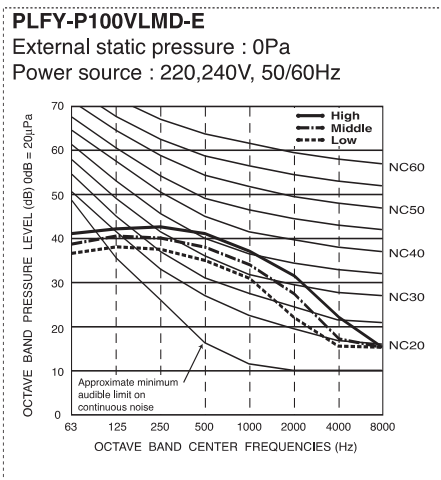
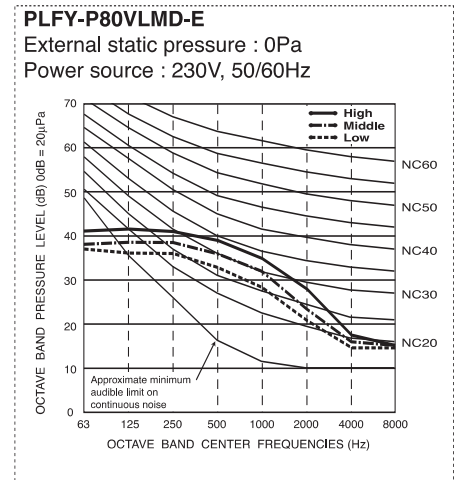
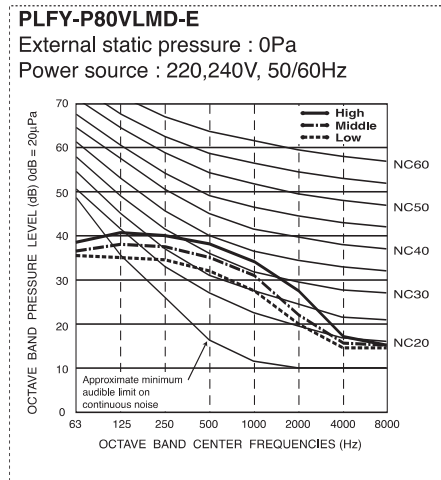
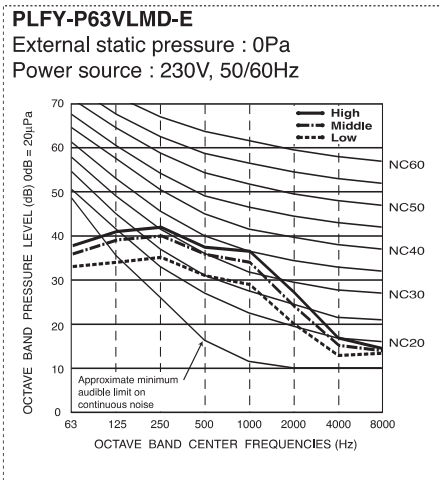
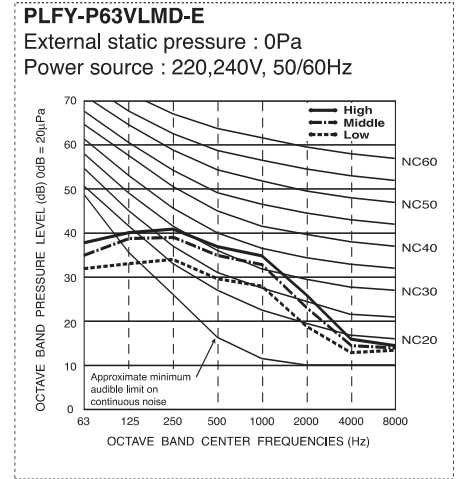
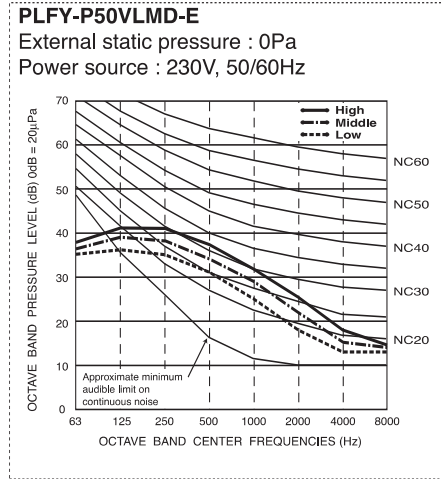
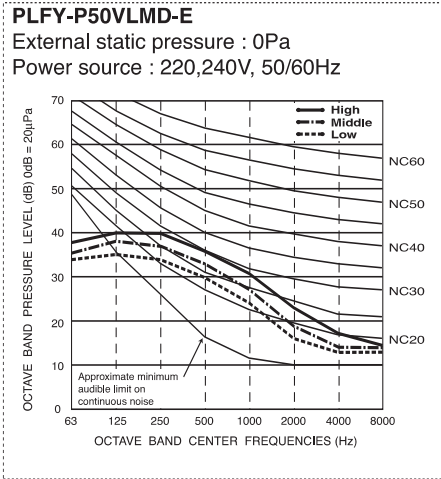


PLFY-P40VLMD-E

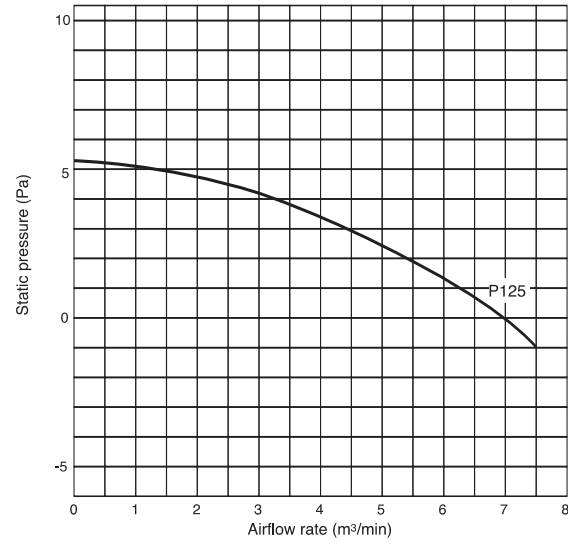
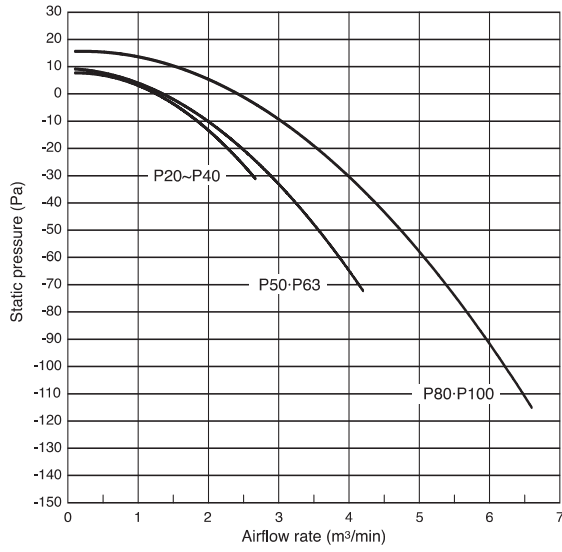
External static pressure : 0Pa
Power source : 230V, 50/60Hz



3-2. NC curves



3-3. OA Intake-static pressure curves



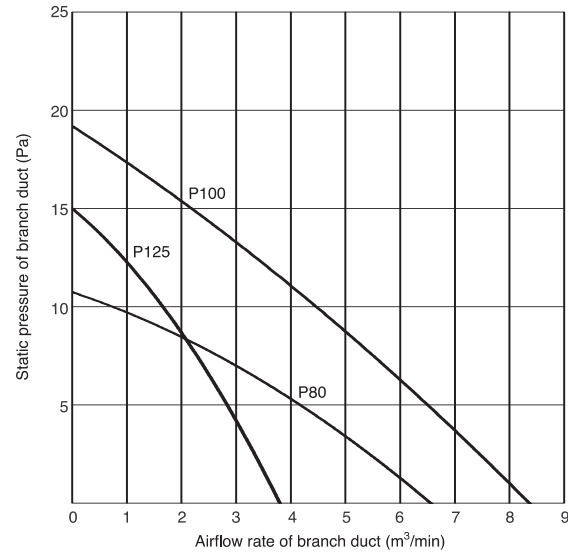
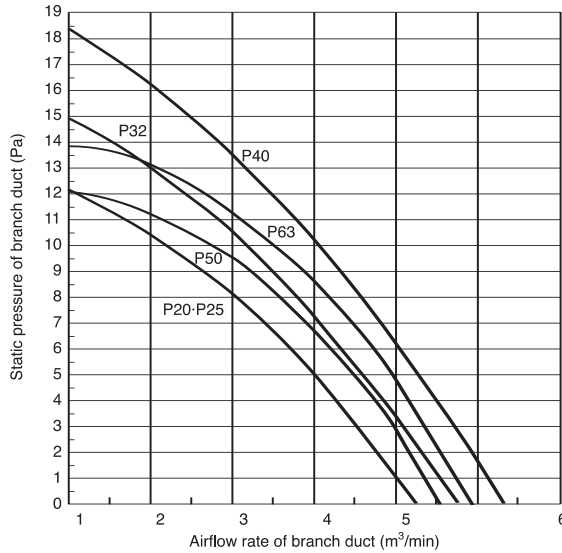
Please confirm that inlet-air temperature (which is mixed with outdoor air) is in the following operating temperature range.

PLFY-P-VLMD-E : Operating temperature range

| Mode | Temperature range of inlet air |
|---------|--------------------------------|
| Cooling | 15°C~24°C(Wet bulb) |
| Dry | |
| Heating | 15°C~27°C(Dry bulb) |

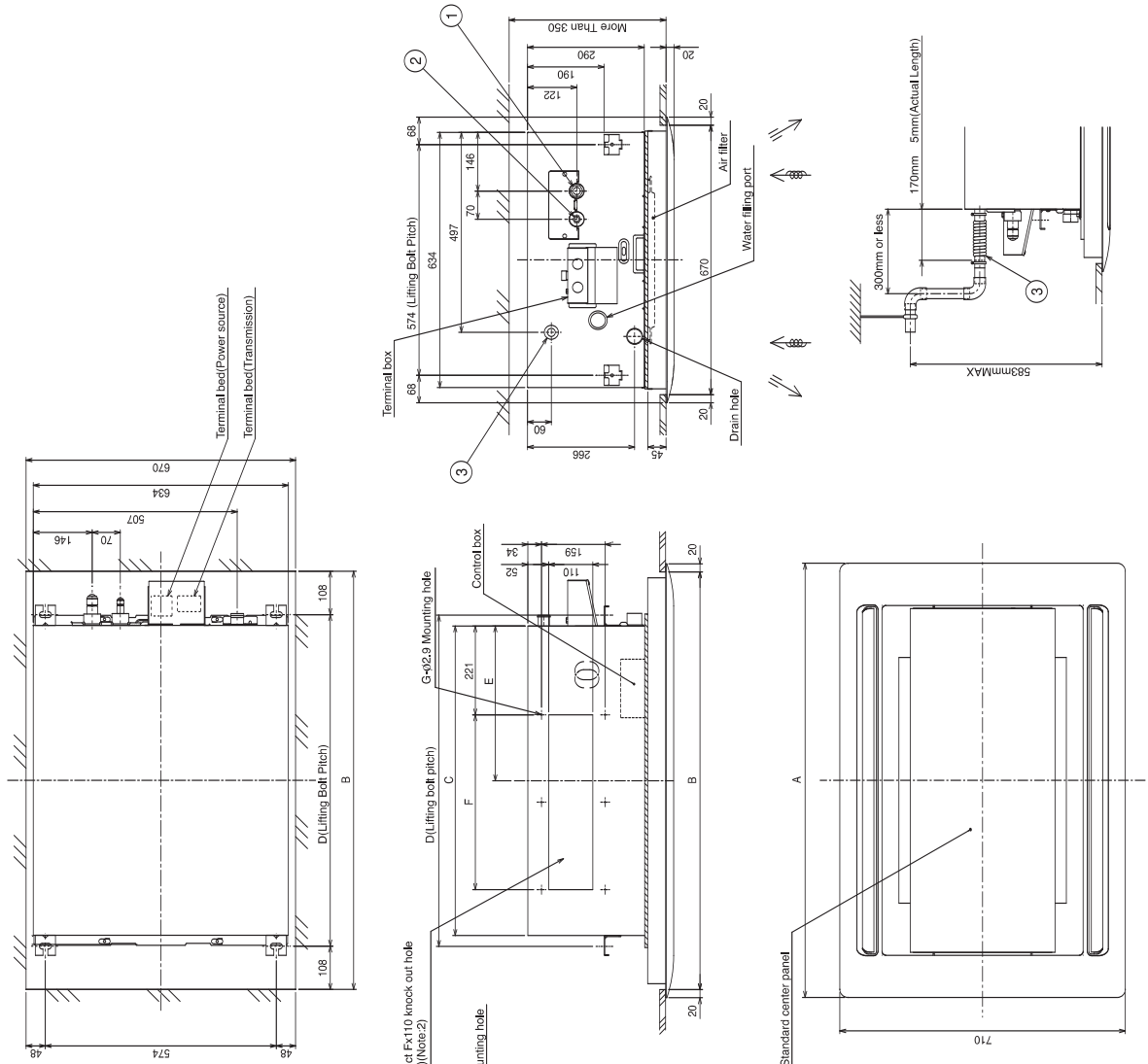
*Relative humidity range is 30~80%.

3-4. Branch duct Intake-static pressure curves



PLFY-P20,25,32,40,50,63,80,100VLMD-E

Drw. : IU-W275-920
Unit : mm



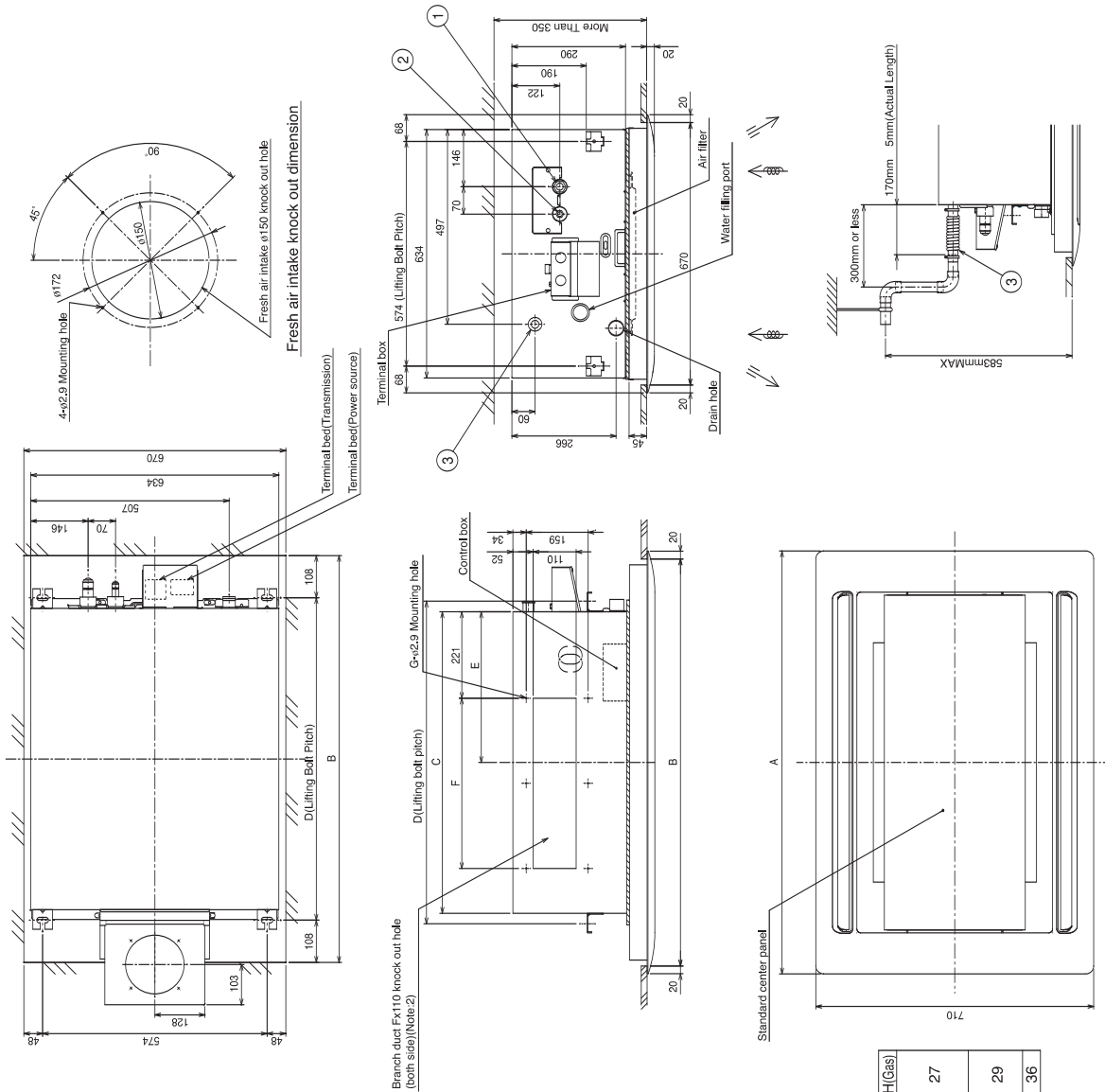
- Note: 1. Use M10 screw for the lifting bolt (field supply).
 2. It is available to connect the branch duct on right and left side both.
 3. On Model .50, 100, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
 4. In order to increase the strength of the flare nut, the size of some of them has been increased.
- | | | |
|-------------|-----------------------------------|---------------------------------|
| <flare> | 1 | 2 |
| Model | Gas pipe | Liquid pipe |
| 20:25:32:40 | φ12.7 | φ6.35 |
| Model | Gas pipe | Liquid pipe |
| 50 | φ12.7<R410A outdoor unit> | φ15.88<R407C, R22 outdoor unit> |
| | φ6.35<R410A outdoor unit> | φ9.52<R407C, R22 outdoor unit> |
| Model | Gas pipe | Liquid pipe |
| 63:80 | φ15.88 | φ9.52 |
| Model | Gas pipe | Liquid pipe |
| 100 | φ15.88<R410A outdoor unit> | φ19.05<R407C, R22 outdoor unit> |
| | φ9.52 | 2 |
| Drain hose | VP-25<flexible joint> (accessory) | 3 |

| Model | A | B | C | D | E | F | G | H(Liquid) | H(Gas) |
|-----------------|------|------|------|------|-----|---------|----|-----------|--------|
| PLFY-P20VLMD-E | 1080 | 1040 | 776 | 824 | 388 | 217.5X2 | 6 | 17 | 27 |
| PLFY-P25VLMD-E | | | | | | =435 | | | |
| PLFY-P32VLMD-E | 1250 | 1210 | 946 | 994 | 473 | | | 22 | 29 |
| PLFY-P40VLMD-E | | | | | | | | | |
| PLFY-P50VLMD-E | 1750 | 1710 | 1446 | 1494 | 723 | 188.5X4 | 10 | 22 | 36 |
| PLFY-P63VLMD-E | | | | | | =754 | | | |
| PLFY-P80VLMD-E | | | | | | | | | |
| PLFY-P100VLMD-E | | | | | | | | | |

PLFY-P20,25,32,40,50,63,80,100VLM-D-E with OA duct flange

Draw. : IU-W275-920-1

Unit : mm



- Note: 1. Use M10 screw for the lifting bolt (field supply).
 2. It is available to connect the branch duct on right and left side both.
 3. On Model 50, 100, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
 4. In order to increase the strength of the flare nut, the size of some of them has been increased.
- | | | | |
|-------------|------------------------------------|----------------------------------|---|
| Model | Gas pipe | ø12.7 | 1 |
| 20-25-32-40 | Liquid pipe | ø6.35 | 2 |
| Model | Gas pipe | ø12.7<-R410A outdoor unit> | 1 |
| 50 | Liquid pipe | ø6.35<-R410A outdoor unit> | 2 |
| | | ø9.52<-R407C, R22 outdoor unit> | |
| Model | Gas pipe | ø15.88 | 1 |
| 63-80 | Liquid pipe | ø9.52 | 2 |
| Model | Gas pipe | ø15.88<-R410A outdoor unit> | 1 |
| 100 | Liquid pipe | ø19.05<-R407C, R22 outdoor unit> | 2 |
| | | ø9.52 | |
| Drain hose | VP-25<-flexible joint> (accessory) | | 3 |

| Model | A | B | C | D | E | F | G | H (Liquid) | H (Gas) |
|------------------|------|------|------|------|-----|---------|----|------------|---------|
| PLFY-P20VLM-D-E | 1080 | 1040 | 776 | 824 | 388 | 217.5x2 | 6 | 17 | 27 |
| PLFY-P25VLM-D-E | | | | | | =435 | | | |
| PLFY-P32VLM-D-E | | | | | | | | | |
| PLFY-P40VLM-D-E | | | | | | | | | |
| PLFY-P50VLM-D-E | 1250 | 1210 | 946 | 994 | 473 | | | 22 | 29 |
| PLFY-P63VLM-D-E | | | | | | | | | |
| PLFY-P80VLM-D-E | 1750 | 1710 | 1446 | 1494 | 723 | 188.5x4 | 10 | 22 | 36 |
| PLFY-P100VLM-D-E | | | | | | =754 | | | |

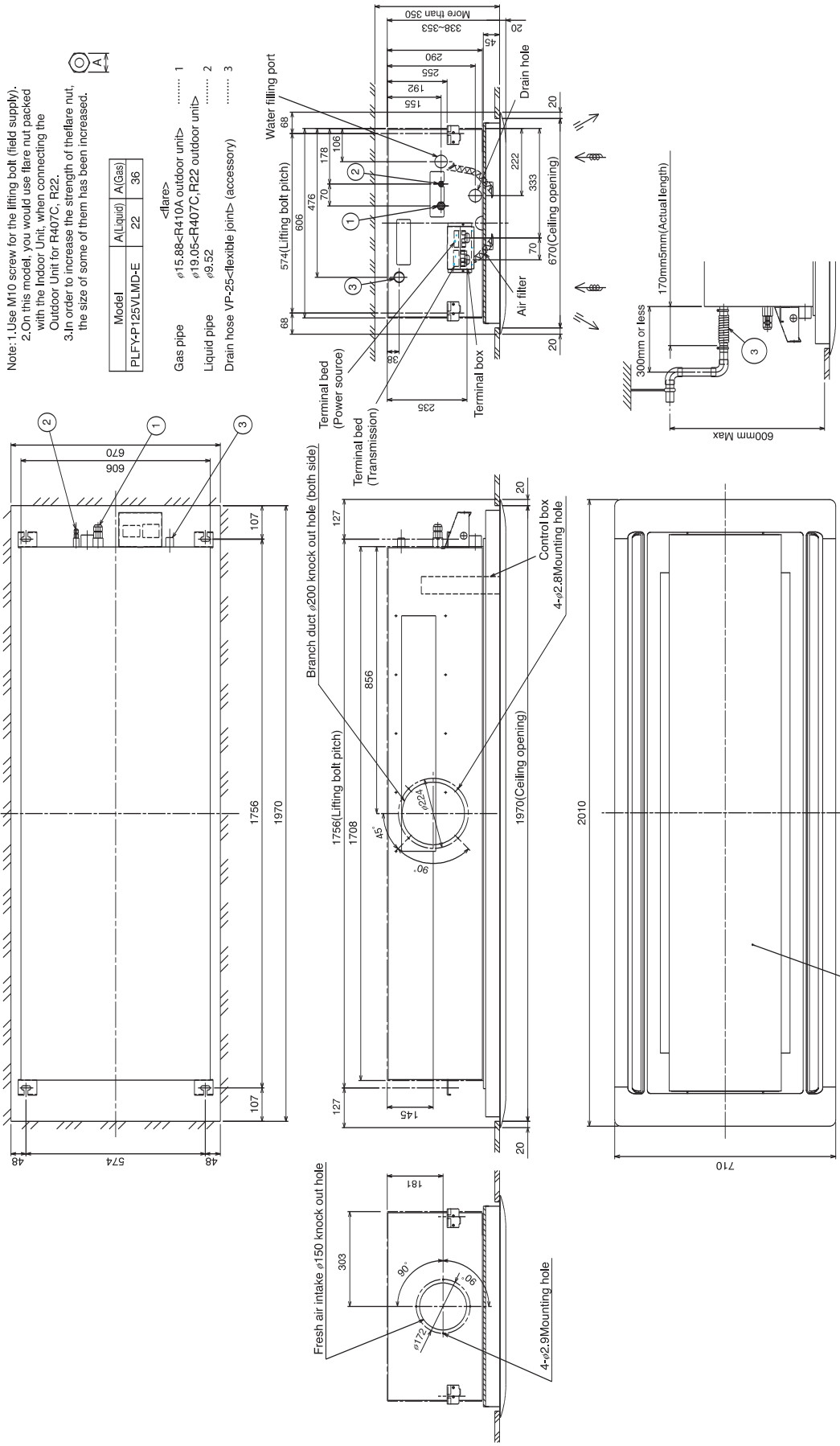
PLFY-P125VLMD-E

Drw. : IU-W275-921
Unit : mm

Note: 1. Use M10 screw for the lifting bolt (field supply).
2. On this model, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
3. In order to increase the strength of the flare nut, the size of some of them has been increased.

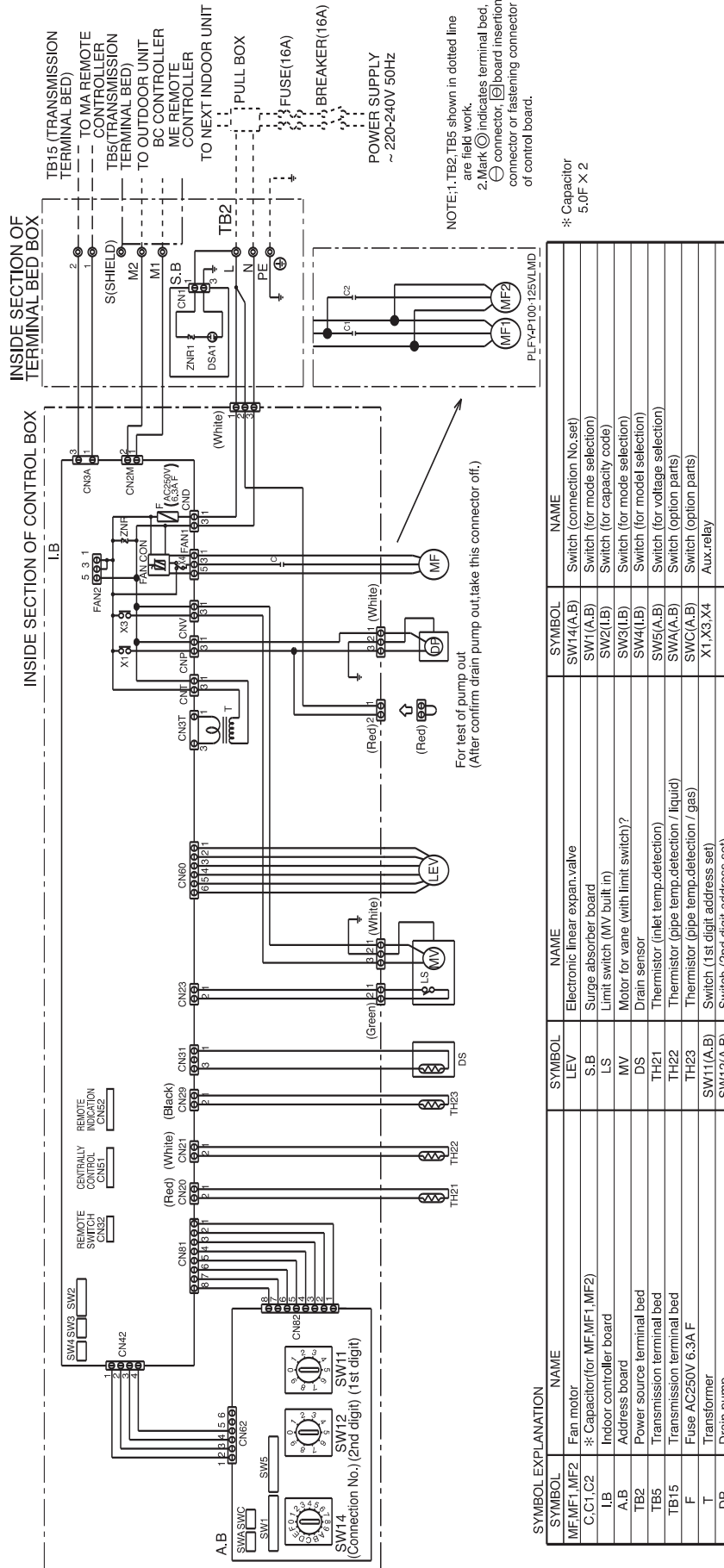
| Model | A(Liquid) | A(Gas) |
|-----------------|-----------|--------|
| PLFY-P125VLMD-E | 22 | 36 |

<flare>
Gas pipe ϕ15.88<R410A outdoor unit> 1
Liquid pipe ϕ9.52<R407C, R22 outdoor unit> 2
Drain hose VP-25<flexible joint> (accessory) 3



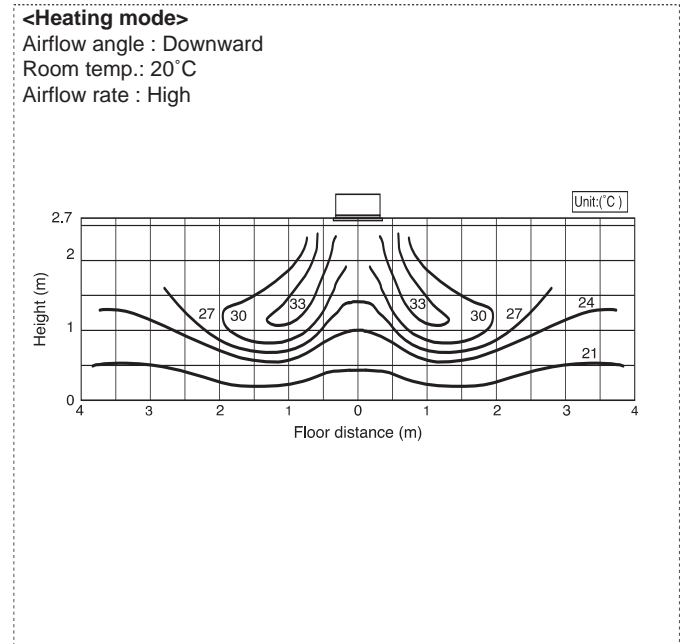
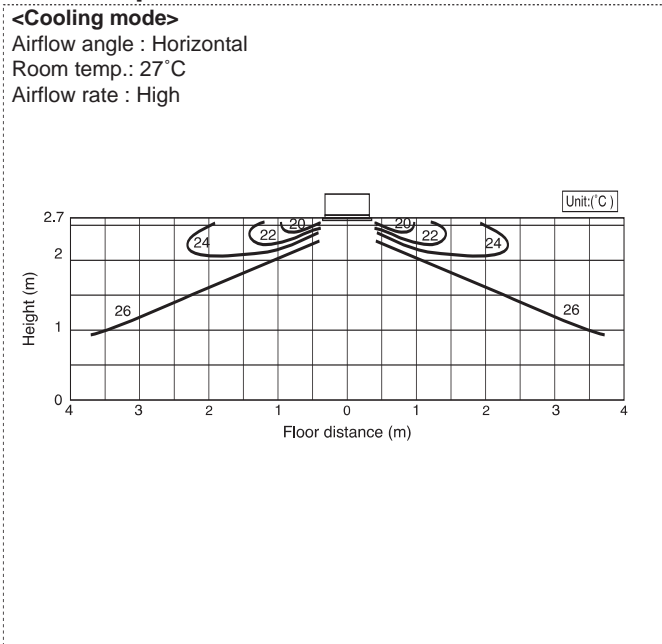
PLFY-125VLM-D-E

Drw. : IU-W275-927



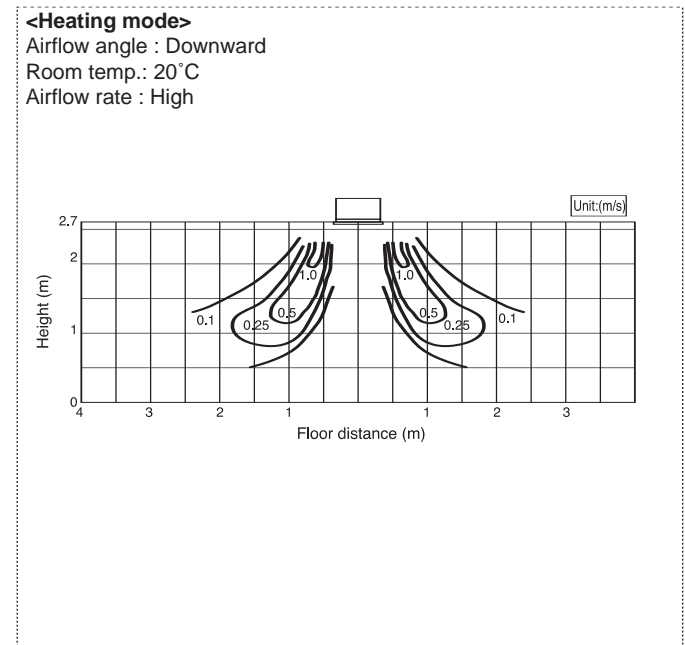
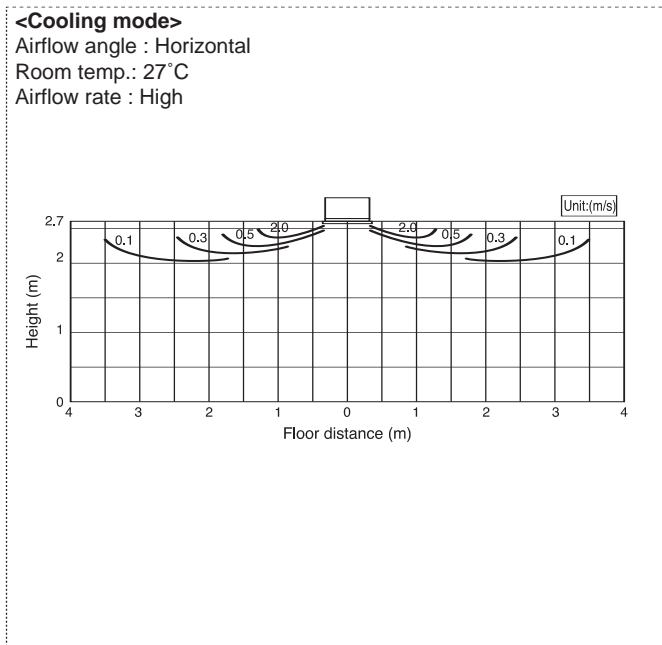
| SYMBOL | EXPLANATION | NAME | SYMBOL | NAME | SYMBOL | NAME |
|--------------|------------------------------|------|-----------|---|------------|--------------------------------|
| MF, MF1, MF2 | Fan motor | | LEV | Electronic linear expan.valve | SW14(A,B) | Switch (connection No.set) |
| C1, C2 | Capacitor (for MF, MF1, MF2) | | S.B | Surge absorber board | SW1(A,B) | Switch (for mode selection) |
| I.B | Indoor controller board | | LS | Limit switch (MV built in) | SW2(LB) | Switch (for capacity code) |
| A.B | Address board | | MV | Motor for valve (with limit switch)? | SW3(LB) | Switch (for mode selection) |
| TB2 | Power source terminal bed | | DS | Drain sensor | SW4(LB) | Switch (for model selection) |
| TB5 | Transmission terminal bed | | TH21 | Thermistor (inlet temp.detection) | SW5(A,B) | Switch (for voltage selection) |
| TB15 | Transmission terminal bed | | TH22 | Thermistor (pipe temp.detection / liquid) | SWC(A,B) | Switch (option parts) |
| F | Fuse AC250V 6.3A F | | TH23 | Thermistor (pipe temp.detection / gas) | X1, X3, X4 | Switch (option parts) |
| T | Transformer | | SW11(A,B) | Switch (1st digit address set) | | |
| DP | Drain pump | | SW12(A,B) | Switch (2nd digit address set) | | |

6-1. Temperature distributions



Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions

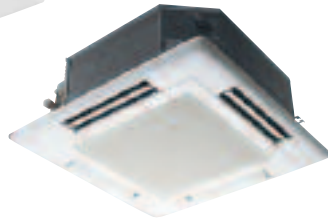


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

- A
- B
- C
- D
- E
- F**
- G
- H
- I
- J
- V_a
- V_b
- BC



PLFY-P-VCM-E



PLFY-P-VAM-E

PLFY-P-VCM-E
PLFY-P-VAM-E

| | |
|--|----------|
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| Cassette ceiling | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PLFY-P-VCM-E | ● | ● | ● | ● | | | | | | | | | |
| PLFY-P-VAM-E | | | ● | ● | ● | ● | | ● | ● | ● | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PLFY-P20VCM-E | PLFY-P25VCM-E | PLFY-P32VCM-E | PLFY-P40VCM-E | | | | |
|--|---|--|--|----------------------------|----------------------------|----------------------------|--|---|--|--|
| Power source | | | 1-phase 220-240V 50Hz | | | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | | | | |
| | *1 | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 | | | | |
| | *1 | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 | | | | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 | | | | |
| | Power input | kW | 0.05 | 0.05 | 0.06 | 0.06 | | | | |
| | Current input | A | 0.23 | 0.23 | 0.28 | 0.28 | | | | |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | | | | |
| | *3 | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 | | | | |
| | *3 | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 | | | | |
| | Power input | kW | 0.05 | 0.05 | 0.06 | 0.06 | | | | |
| | Current input | A | 0.23 | 0.23 | 0.28 | 0.28 | | | | |
| External finish | | | Galvanized steel sheet, with grey heat insulation | | | | | | | |
| External dimension H x W x D | | mm | 208 x 570 x 570 | 208 x 570 x 570 | 208 x 570 x 570 | 208 x 570 x 570 | | | | |
| | | in. | 8-1/4" x 22-1/2" x 22-1/2" | 8-1/4" x 22-1/2" x 22-1/2" | 8-1/4" x 22-1/2" x 22-1/2" | 8-1/4" x 22-1/2" x 22-1/2" | | | | |
| Net weight | | kg (lb) | 15.5 (35) | 15.5 (35) | 17 (38) | 17 (38) | | | | |
| Decoration panel | Model | | SLP-2AA | SLP-2AA | SLP-2AA | SLP-2AA | | | | |
| | External finish | | White Munsell(0.7Y 8.59/0.97) | | | | | | | |
| | Dimension | mm | 20 x 650 x 650 | 20 x 650 x 650 | 20 x 650 x 650 | 20 x 650 x 650 | | | | |
| | H x W x D | in. | 13/16" x 25-5/8" x 25-5/8" | 13/16" x 25-5/8" x 25-5/8" | 13/16" x 25-5/8" x 25-5/8" | 13/16" x 25-5/8" x 25-5/8" | | | | |
| | Net Weight | kg (lb) | 3 (7) | 3 (7) | 3 (7) | 3 (7) | | | | |
| | Cord heater | kW | 0.015 | 0.015 | 0.015 | 0.015 | | | | |
| Heat exchanger | | | Cross fin & copper tube | | | | | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | | | | | | | |
| | External static press. | | 0Pa (0mmH ₂ O) | 0Pa (0mmH ₂ O) | 0Pa (0mmH ₂ O) | 0Pa (0mmH ₂ O) | | | | |
| | Motor type | | Single phase induction motor | | | | | | | |
| | Motor output | kW | 0.011 | 0.015 | 0.02 | 0.02 | | | | |
| | Driving mechanism | | Direct-driven by motor | | | | | | | |
| | Airflow rate | m ³ / min | 8-9-10 | 8-9-10 | 8-9-11 | 8-9-11 | | | | |
| L / s | | 133-150-167 | 133-150-167 | 133-150-183 | 133-150-183 | | | | | |
| cfm | | 283-318-353 | 283-318-353 | 283-318-388 | 283-318-388 | | | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 28-31-35 (230V) | 28-31-37 (230V) | 29-33-38 (230V) | 30-34-39 (230V) | | | | |
| Insulation material | | | Polyethylene foam (softlon FR) | | | | | | | |
| Air filter | | | PP honeycomb fabric (long life type) | | | | | | | |
| Protection device | | | Fuse | | | | | | | |
| Refrigerant control device | | | LEV | | | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | | | |
| Diameter of refrigerant pipe | Liquid | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | | | | |
| | Gas | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | | | | |
| Diameter of drain pipe | | mm (in.) | O.D. 32 (1-1/4") | O.D. 32 (1-1/4") | O.D. 32 (1-1/4") | O.D. 32 (1-1/4") | | | | |
| Drawing | External | | IU-VRG01N654 | | | | | | | |
| | Wiring | | IU-VRG79N625 | | | | | | | |
| | Refrigerant circle | | - | | | | | | | |
| Standard attachment | Document | | Installation manual, Instruction book | | | | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | | | | |
| Remark | Optional parts | | Decoration panel : SLP-2AA *PLFY-P-VCM-E should use together with SLP-2AA. | | | | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to | | | | | | | |
| Note : <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; vertical-align: top;"> *1 Nominal cooling condition Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *2 Nominal cooling condition 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *3 Nominal heating condition 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) </td> <td style="width:15%; vertical-align: top; text-align: center;"> Unit converter kcal = kW x 860 Btu/h = kW x 3,412 cfm = m³/min x 35.31 lb = kg / 0.4536 </td> </tr> </table> | | | | | | | *1 Nominal cooling condition Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling condition 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating condition 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 |
| *1 Nominal cooling condition Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling condition 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating condition 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 | | | | | | | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice. | | | | | | | | | | |

Ref.: Spec_PLFY-P-VCM-E

1. SPECIFICATIONS

| Model | | | PLFY-P32VAM-E | PLFY-P40VAM-E | PLFY-P50VAM-E | PLFY-P63VAM-E | |
|---|------------------------------------|---|--|-------------------------------|-----------------------------------|---|------|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 3.6 | 4.5 | 5.6 | 7.1 | |
| | | kcal / h | 3,100 | 3,900 | 4,800 | 6,100 | |
| | | Btu / h | 12,300 | 15,400 | 19,100 | 24,200 | |
| | *2 | kcal / h | 3,150 | 4,000 | 5,000 | 6,300 | |
| | | Power input kW | 0.12 | 0.14 | 0.14 | 0.16 | |
| Current input A | | 0.59 | 0.68 | 0.68 | 0.78 | | |
| Heating capacity (Nominal) | *3 | kW | 4.0 | 5.0 | 6.3 | 8.0 | |
| | | kcal / h | 3,400 | 4,300 | 5,400 | 6,900 | |
| | | Btu / h | 13,600 | 17,100 | 21,500 | 27,300 | |
| | Power input kW | 0.12 | 0.14 | 0.14 | 0.16 | | |
| | | Current input A | | 0.59 | 0.68 | 0.68 | 0.78 |
| External finish | | | Galvanized steel sheet, with grey insulation sheet. | | | | |
| External dimension H x W x D | | mm | 258 x 840 x 840 | | | | |
| | | in. | 10-3/16" x 33-1/8" x 33-1/8" | | | | |
| Net weight | | kg (lb) | 22 (49) | 22 (49) | 22 (49) | 24 (53) | |
| Decoration panel | Model | | PLP-6AA | PLP-6AA | PLP-6AA | PLP-6AA | |
| | External finish | | MUNSELL (0.70Y 8.59/0.97) | | | | |
| | Dimension | mm | 30 x 950 x 950 | | | | |
| | | in. | 1-3/16" x 37-7/16" x 37-7/16" | | | | |
| | Net weight | | kg (lb) 5 (12) | | | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output kW | | 0.070 | 0.070 | 0.070 | 0.070 | |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 11 - 12 - 13 - 14 | 12 - 13 - 14 - 16 | 12 - 13 - 14 - 16 | 14 - 15 - 16 - 18 | |
| L / s | | 183 - 200 - 217 - 233 | 200 - 217 - 233 - 267 | 200 - 217 - 233 - 267 | 233 - 250 - 267 - 300 | | |
| cfm | | 388 - 424 - 459 - 494 | 424 - 459 - 494 - 565 | 424 - 459 - 494 - 565 | 494 - 530 - 565 - 636 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> 27 - 28 - 29 - 31 | 27 - 28 - 30 - 32 | 27 - 28 - 30 - 32 | 28 - 29 - 31 - 33 | | |
| Insulation material | | | Polyester sheet | | | | |
| Air filter | | | PP honeycomb | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | |
| | | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | |
| Diameter of drain pipe | | mm (in.) | O.D. ø32 (VP-25) | | | | |
| Drawing | External | | IU-RG01-N638 | | | | |
| | Wiring | | IU-RG79-A663 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | | | | | |
| Remark | Optional parts | | | | | | |
| | Decoration panel **1 | | PLP-6AA | PLP-6AA | PLP-6AA | PLP-6AA | |
| | Air outlet shutter plate | | PAC-SG06SP-E | PAC-SG06SP-E | PAC-SG06SP-E | PAC-SG06SP-E | |
| | High efficiency filter element **2 | | PAC-SG01KF | PAC-SG01KF | PAC-SG01KF | PAC-SG01KF | |
| | Multi-function casement | | PAC-SG03TM-E | PAC-SG03TM-E | PAC-SG03TM-E | PAC-SG03TM-E | |
| | Installation | | **1.PLFY-P-VAM-E should use together with PLP-6AA. **2.PAC-SG03TM-E is necessary to use with filter PAC-SG01KF. | | | | |
| Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | | |
| Note : | | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter | | |
| Indoor : | | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 | | |
| Outdoor : | | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 | | |
| Pipe length : | | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 | | |
| Level difference : | | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | | | *Above specification data is subject to rounding variation. | |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | PLFY-P80VAM-E | PLFY-P100VAM-E | PLFY-P125VAM-E | | |
|---|------------------------------------|---|---------------------------------------|-----------------------------|-----------------------|-------|
| Power source | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | | | | |
| Cooling capacity (Nominal) | *:1 | kW | 9.0 | 11.2 | 14.0 | |
| | *:1 | kcal / h | 7,700 | 9,600 | 12,000 | |
| | *:1 | Btu / h | 30,700 | 38,200 | 47,800 | |
| | *:2 | kcal / h | 8,000 | 10,000 | 12,500 | |
| | | Power input | kW | 0.18 | 0.30 | 0.34 |
| | | Current input | A | 0.86 | 1.43 | 1.64 |
| Heating capacity (Nominal) | *:3 | kW | 10.0 | 12.5 | 16.0 | |
| | *:3 | kcal / h | 8,600 | 10,800 | 13,800 | |
| | *:3 | Btu / h | 34,100 | 42,700 | 54,600 | |
| | | Power input | kW | 0.18 | 0.30 | 0.34 |
| | | | Current input | A | 0.86 | 1.43 |
| External finish | | Galvanized steel sheet, with grey insulation sheet. | | | | |
| External dimension H x W x D | | mm | 258 x 840 x 840 | 298 x 840 x 840 | | |
| | | in. | 10-3/16" x 33-1/8" x 33-1/8" | 11-3/4" x 33-1/8" x 33-1/8" | | |
| Net weight | | kg (lb) | 24 (53) | 32 (71) | 32 (71) | |
| Decoration panel | Model | | PLP-6AA | PLP-6AA | PLP-6AA | |
| | External finish | MUNSELL (0.70Y 8.59/0.97) | | | | |
| | Dimension | mm | 30 x 950 x 950 | | | |
| | H x W x D | in. | 1-3/16" x 37-7/16" x 37-7/16" | | | |
| | Net weight | kg (lb) | 5 (12) | | | |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 | |
| | External static press. | Pa | 0 | 0 | 0 | |
| | | mmH ₂ O | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | |
| | Motor output | | kW | 0.070 | 0.120 | 0.120 |
| | Driving mechanism | | Direct-driven by motor | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 16 - 18 - 20 - 22 | 19 - 22 - 25 - 27 | 21 - 24 - 27 - 29 | |
| | | L / s | 267 - 300 - 333 - 367 | 317 - 367 - 417 - 450 | 350 - 400 - 450 - 483 | |
| cfm | | 565 - 636 - 706 - 777 | 671 - 777 - 883 - 953 | 742 - 848 - 953 - 1024 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 30 - 32 - 35 - 37 | 33 - 36 - 39 - 41 | 35 - 38 - 41 - 43 | |
| Insulation material | | Polyester sheet | | | | |
| Air filter | | PP honeycomb | | | | |
| Protection device | | Fuse | | | | |
| Refrigerant control device | | LEV | | | | |
| Connectable outdoor unit | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | | | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| | | | ø19.05 (ø3/4") Flare | ø19.05 (ø3/4") Flare | | |
| Diameter of drain pipe | | mm (in.) | O.D. ø32 (VP-25) | | | |
| Drawing | External | | IU-RG01-N638 | | | |
| | Wiring | | IU-RG79-A663 | | | |
| | Refrigerant cycle | | - | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | |
| | Accessory | | | | | |
| Remark | Optional parts | | | | | |
| | Decoration panel **1 | | PLP-6AA | PLP-6AA | PLP-6AA | |
| | Air outlet shutter plate | | PAC-SG06SP-E | PAC-SG06SP-E | PAC-SG06SP-E | |
| | High efficiency filter element **2 | | PAC-SG01KF | PAC-SG01KF | PAC-SG01KF | |
| | Multi-function casement | | PAC-SG03TM-E | PAC-SG03TM-E | PAC-SG03TM-E | |
| | | **1.PLFY-P-VAM-E should use together with PLP-6AA. **2.PAC-SG03TM-E is necessary to use with filter PAC-SG01KF. | | | | |
| Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|---|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PLFY-P-VAM-E_2

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VCM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 82 | 27.5 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.8 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.8 | 2.4 | 1.8 |
| 110 | 43.0 | 1.8 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 73 | 22.5 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.2 | 2.8 | 2.1 | 2.8 | 2.2 | 2.9 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.1 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.1 | 3.1 | 2.1 |
| 110 | 43.0 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.1 | 3.0 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.6 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.6 | 2.8 |
| | 77 | 25.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.5 | 2.7 |
| | 82 | 27.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.6 | 3.8 | 2.7 | 3.9 | 2.8 | 4.1 | 2.7 | 4.4 | 2.7 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.3 | 2.7 |
| | 91 | 32.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.7 | 4.0 | 2.7 | 4.2 | 2.6 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.4 | 2.5 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.6 | 4.0 | 2.6 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 4.0 | 2.6 |
| 110 | 43.0 | 3.0 | 2.4 | 3.1 | 2.5 | 3.3 | 2.5 | 3.3 | 2.5 | 3.5 | 2.6 | 3.6 | 2.6 | 3.9 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.9 | 3.1 | 5.0 | 3.3 | 5.3 | 3.2 | 5.7 | 3.2 |
| | 73 | 22.5 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.9 | 3.1 | 5.0 | 3.3 | 5.3 | 3.2 | 5.7 | 3.2 |
| | 77 | 25.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.9 | 3.1 | 5.0 | 3.2 | 5.3 | 3.2 | 5.6 | 3.1 |
| | 82 | 27.5 | 4.3 | 3.0 | 4.4 | 3.1 | 4.6 | 3.1 | 4.8 | 3.1 | 4.9 | 3.2 | 5.2 | 3.2 | 5.5 | 3.1 |
| | 86 | 30.0 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.0 | 4.7 | 3.1 | 4.8 | 3.2 | 5.0 | 3.1 | 5.4 | 3.1 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 | 4.6 | 3.0 | 4.7 | 3.1 | 5.0 | 3.1 | 5.3 | 3.0 |
| | 95 | 35.0 | 4.0 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.0 | 5.2 | 3.0 |
| | 100 | 37.5 | 3.9 | 2.9 | 4.1 | 3.0 | 4.3 | 2.9 | 4.4 | 2.9 | 4.5 | 3.1 | 4.8 | 3.0 | 5.0 | 2.9 |
| | 104 | 40.0 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.9 | 4.3 | 2.9 | 4.5 | 3.0 | 4.7 | 3.0 | 5.0 | 2.9 |
| 110 | 43.0 | 3.8 | 2.8 | 3.9 | 2.9 | 4.1 | 2.8 | 4.2 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 | 4.8 | 2.9 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VAM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.8 | 3.5 | 2.9 | 3.8 | 2.9 | 3.9 | 2.9 | 4.0 | 3.1 | 4.2 | 3.0 | 4.6 | 3.0 |
| | 73 | 22.5 | 3.4 | 2.8 | 3.5 | 2.9 | 3.8 | 2.9 | 3.9 | 2.9 | 4.0 | 3.1 | 4.2 | 3.0 | 4.6 | 3.0 |
| | 77 | 25.0 | 3.4 | 2.8 | 3.5 | 2.9 | 3.8 | 2.9 | 3.9 | 2.9 | 4.0 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 |
| | 82 | 27.5 | 3.4 | 2.8 | 3.5 | 2.9 | 3.7 | 2.9 | 3.8 | 2.9 | 3.9 | 3.0 | 4.1 | 3.0 | 4.4 | 2.9 |
| | 86 | 30.0 | 3.3 | 2.8 | 3.4 | 2.9 | 3.6 | 2.8 | 3.7 | 2.9 | 3.8 | 3.0 | 4.0 | 2.9 | 4.3 | 2.9 |
| | 91 | 32.5 | 3.3 | 2.7 | 3.4 | 2.8 | 3.6 | 2.8 | 3.7 | 2.8 | 3.8 | 3.0 | 4.0 | 2.9 | 4.2 | 2.9 |
| | 95 | 35.0 | 3.2 | 2.7 | 3.3 | 2.8 | 3.5 | 2.8 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 2.9 | 4.1 | 2.9 |
| | 100 | 37.5 | 3.2 | 2.7 | 3.2 | 2.8 | 3.4 | 2.7 | 3.5 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.0 | 2.8 |
| | 104 | 40.0 | 3.1 | 2.7 | 3.2 | 2.7 | 3.4 | 2.7 | 3.5 | 2.8 | 3.6 | 2.9 | 3.7 | 2.8 | 4.0 | 2.8 |
| 110 | 43.0 | 3.0 | 2.6 | 3.1 | 2.7 | 3.3 | 2.7 | 3.3 | 2.7 | 3.5 | 2.8 | 3.6 | 2.8 | 3.9 | 2.8 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.5 | 4.4 | 3.6 | 4.7 | 3.6 | 4.9 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.7 | 3.7 |
| | 73 | 22.5 | 4.3 | 3.5 | 4.4 | 3.6 | 4.7 | 3.6 | 4.9 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.7 | 3.7 |
| | 77 | 25.0 | 4.3 | 3.5 | 4.4 | 3.6 | 4.7 | 3.6 | 4.9 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.6 | 3.7 |
| | 82 | 27.5 | 4.3 | 3.5 | 4.4 | 3.6 | 4.6 | 3.5 | 4.8 | 3.6 | 4.9 | 3.7 | 5.2 | 3.7 | 5.5 | 3.6 |
| | 86 | 30.0 | 4.2 | 3.4 | 4.3 | 3.5 | 4.6 | 3.5 | 4.7 | 3.6 | 4.8 | 3.7 | 5.0 | 3.6 | 5.4 | 3.6 |
| | 91 | 32.5 | 4.1 | 3.4 | 4.2 | 3.5 | 4.5 | 3.5 | 4.6 | 3.5 | 4.7 | 3.7 | 5.0 | 3.6 | 5.3 | 3.6 |
| | 95 | 35.0 | 4.0 | 3.4 | 4.1 | 3.5 | 4.4 | 3.4 | 4.5 | 3.5 | 4.6 | 3.6 | 4.9 | 3.6 | 5.2 | 3.5 |
| | 100 | 37.5 | 3.9 | 3.3 | 4.1 | 3.4 | 4.3 | 3.4 | 4.4 | 3.5 | 4.5 | 3.6 | 4.8 | 3.5 | 5.0 | 3.5 |
| | 104 | 40.0 | 3.9 | 3.3 | 4.0 | 3.4 | 4.2 | 3.4 | 4.3 | 3.4 | 4.5 | 3.6 | 4.7 | 3.5 | 5.0 | 3.5 |
| 110 | 43.0 | 3.8 | 3.2 | 3.9 | 3.4 | 4.1 | 3.3 | 4.2 | 3.4 | 4.3 | 3.5 | 4.5 | 3.5 | 4.8 | 3.4 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 73 | 22.5 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 77 | 25.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 6.9 | 4.2 |
| | 82 | 27.5 | 5.3 | 4.0 | 5.5 | 4.1 | 5.8 | 4.1 | 5.9 | 4.1 | 6.1 | 4.3 | 6.4 | 4.2 | 6.8 | 4.1 |
| | 86 | 30.0 | 5.2 | 4.0 | 5.3 | 4.1 | 5.7 | 4.0 | 5.8 | 4.1 | 6.0 | 4.2 | 6.3 | 4.1 | 6.7 | 4.1 |
| | 91 | 32.5 | 5.1 | 3.9 | 5.3 | 4.0 | 5.5 | 4.0 | 5.7 | 4.0 | 5.9 | 4.2 | 6.2 | 4.1 | 6.6 | 4.0 |
| | 95 | 35.0 | 5.0 | 3.9 | 5.2 | 4.0 | 5.5 | 3.9 | 5.6 | 4.0 | 5.7 | 4.1 | 6.0 | 4.1 | 6.4 | 4.0 |
| | 100 | 37.5 | 4.9 | 3.8 | 5.0 | 3.9 | 5.3 | 3.9 | 5.5 | 3.9 | 5.6 | 4.1 | 5.9 | 4.0 | 6.3 | 3.9 |
| | 104 | 40.0 | 4.8 | 3.8 | 5.0 | 3.9 | 5.3 | 3.8 | 5.4 | 3.9 | 5.5 | 4.0 | 5.8 | 4.0 | 6.2 | 3.9 |
| 110 | 43.0 | 4.7 | 3.7 | 4.8 | 3.8 | 5.1 | 3.8 | 5.2 | 3.8 | 5.4 | 4.0 | 5.7 | 3.9 | 6.0 | 3.9 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.2 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 9.0 | 5.3 |
| | 73 | 22.5 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.2 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 9.0 | 5.3 |
| | 77 | 25.0 | 6.7 | 5.0 | 7.0 | 5.2 | 7.5 | 5.2 | 7.7 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 82 | 27.5 | 6.7 | 5.0 | 6.9 | 5.2 | 7.3 | 5.1 | 7.5 | 5.2 | 7.7 | 5.4 | 8.1 | 5.2 | 8.7 | 5.2 |
| | 86 | 30.0 | 6.6 | 5.0 | 6.8 | 5.1 | 7.2 | 5.0 | 7.4 | 5.1 | 7.6 | 5.3 | 8.0 | 5.2 | 8.5 | 5.1 |
| | 91 | 32.5 | 6.5 | 4.9 | 6.7 | 5.0 | 7.0 | 5.0 | 7.2 | 5.0 | 7.4 | 5.2 | 7.8 | 5.1 | 8.3 | 5.1 |
| | 95 | 35.0 | 6.4 | 4.8 | 6.5 | 5.0 | 6.9 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.7 | 5.1 | 8.1 | 5.0 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 6.9 | 4.9 | 7.1 | 5.1 | 7.5 | 5.0 | 8.0 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.3 | 4.9 | 6.7 | 4.8 | 6.8 | 4.9 | 7.0 | 5.1 | 7.3 | 5.0 | 7.8 | 4.9 |
| 110 | 43.0 | 6.0 | 4.6 | 6.1 | 4.8 | 6.5 | 4.7 | 6.6 | 4.8 | 6.8 | 5.0 | 7.2 | 4.9 | 7.6 | 4.8 | |
| 80 (9.0) | 68 | 20.0 | 8.6 | 6.2 | 8.9 | 6.4 | 9.5 | 6.4 | 9.7 | 6.5 | 10.0 | 6.7 | 10.6 | 6.6 | 11.4 | 6.5 |
| | 73 | 22.5 | 8.6 | 6.2 | 8.9 | 6.4 | 9.5 | 6.4 | 9.7 | 6.5 | 10.0 | 6.7 | 10.6 | 6.6 | 11.4 | 6.5 |
| | 77 | 25.0 | 8.6 | 6.2 | 8.9 | 6.4 | 9.5 | 6.4 | 9.7 | 6.5 | 9.9 | 6.7 | 10.5 | 6.6 | 11.2 | 6.5 |
| | 82 | 27.5 | 8.5 | 6.2 | 8.8 | 6.4 | 9.3 | 6.3 | 9.5 | 6.4 | 9.8 | 6.6 | 10.3 | 6.5 | 11.0 | 6.4 |
| | 86 | 30.0 | 8.4 | 6.1 | 8.6 | 6.3 | 9.1 | 6.2 | 9.4 | 6.3 | 9.6 | 6.5 | 10.1 | 6.4 | 10.8 | 6.3 |
| | 91 | 32.5 | 8.2 | 6.0 | 8.5 | 6.2 | 8.9 | 6.1 | 9.1 | 6.2 | 9.4 | 6.4 | 9.9 | 6.3 | 10.5 | 6.2 |
| | 95 | 35.0 | 8.1 | 6.0 | 8.3 | 6.1 | 8.8 | 6.1 | 9.0 | 6.1 | 9.2 | 6.4 | 9.7 | 6.2 | 10.3 | 6.1 |
| | 100 | 37.5 | 7.9 | 5.9 | 8.1 | 6.1 | 8.6 | 6.0 | 8.8 | 6.0 | 9.0 | 6.3 | 9.5 | 6.2 | 10.1 | 6.1 |
| | 104 | 40.0 | 7.7 | 5.8 | 8.0 | 6.0 | 8.5 | 5.9 | 8.6 | 6.0 | 8.9 | 6.2 | 9.3 | 6.1 | 9.9 | 6.0 |
| 110 | 43.0 | 7.6 | 5.7 | 7.8 | 5.9 | 8.2 | 5.8 | 8.4 | 5.9 | 8.6 | 6.1 | 9.1 | 6.0 | 9.6 | 5.9 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.4 | 11.0 | 7.6 | 11.8 | 7.6 | 12.1 | 7.6 | 12.5 | 7.9 | 13.2 | 7.8 | 14.2 | 7.7 |
| | 73 | 22.5 | 10.6 | 7.4 | 11.0 | 7.6 | 11.8 | 7.6 | 12.1 | 7.6 | 12.5 | 7.9 | 13.2 | 7.8 | 14.2 | 7.7 |
| | 77 | 25.0 | 10.6 | 7.4 | 11.0 | 7.6 | 11.8 | 7.6 | 12.1 | 7.6 | 12.4 | 7.8 | 13.1 | 7.7 | 13.9 | 7.6 |
| | 82 | 27.5 | 10.6 | 7.4 | 10.9 | 7.5 | 11.5 | 7.4 | 11.9 | 7.5 | 12.2 | 7.7 | 12.8 | 7.6 | 13.7 | 7.5 |
| | 86 | 30.0 | 10.4 | 7.3 | 10.7 | 7.4 | 11.3 | 7.3 | 11.6 | 7.4 | 11.9 | 7.6 | 12.5 | 7.5 | 13.4 | 7.4 |
| | 91 | 32.5 | 10.2 | 7.2 | 10.5 | 7.3 | 11.1 | 7.2 | 11.4 | 7.3 | 11.7 | 7.5 | 12.3 | 7.4 | 13.1 | 7.3 |
| | 95 | 35.0 | 10.0 | 7.1 | 10.3 | 7.2 | 10.9 | 7.1 | 11.2 | 7.2 | 11.5 | 7.4 | 12.1 | 7.3 | 12.8 | 7.2 |
| | 100 | 37.5 | 9.8 | 7.0 | 10.1 | 7.1 | 10.7 | 7.0 | 10.9 | 7.1 | 11.3 | 7.3 | 11.9 | 7.2 | 12.5 | 7.1 |
| | 104 | 40.0 | 9.6 | 6.9 | 9.9 | 7.0 | 10.5 | 7.0 | 10.8 | 7.0 | 11.1 | 7.2 | 11.6 | 7.1 | 12.3 | 7.0 |
| 110 | 43.0 | 9.4 | 6.7 | 9.7 | 6.9 | 10.2 | 6.8 | 10.4 | 6.8 | 10.8 | 7.1 | 11.3 | 7.0 | 12.0 | 6.9 | |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.2 | 13.8 | 9.4 | 14.7 | 9.4 | 15.1 | 9.4 | 15.6 | 9.8 | 16.5 | 9.6 | 17.7 | 9.5 |
| | 73 | 22.5 | 13.3 | 9.2 | 13.8 | 9.4 | 14.7 | 9.4 | 15.1 | 9.4 | 15.6 | 9.8 | 16.5 | 9.6 | 17.7 | 9.5 |
| | 77 | 25.0 | 13.3 | 9.2 | 13.8 | 9.4 | 14.7 | 9.4 | 15.1 | 9.4 | 15.5 | 9.7 | 16.4 | 9.6 | 17.4 | 9.4 |
| | 82 | 27.5 | 13.2 | 9.1 | 13.7 | 9.4 | 14.4 | 9.2 | 14.8 | 9.3 | 15.3 | 9.6 | 16.0 | 9.4 | 17.1 | 9.3 |
| | 86 | 30.0 | 13.0 | 9.0 | 13.4 | 9.2 | 14.2 | 9.1 | 14.6 | 9.2 | 14.9 | 9.4 | 15.7 | 9.3 | 16.7 | 9.2 |
| | 91 | 32.5 | 12.7 | 8.9 | 13.2 | 9.1 | 13.9 | 9.0 | 14.2 | 9.0 | 14.6 | 9.3 | 15.4 | 9.1 | 16.4 | 9.0 |
| | 95 | 35.0 | 12.5 | 8.8 | 12.9 | 9.0 | 13.7 | 8.9 | 14.0 | 8.9 | 14.4 | 9.2 | 15.1 | 9.0 | 16.0 | 8.9 |
| | 100 | 37.5 | 12.3 | 8.6 | 12.6 | 8.8 | 13.4 | 8.7 | 13.7 | 8.7 | 14.1 | 9.1 | 14.8 | 8.9 | 15.7 | 8.7 |
| | 104 | 40.0 | 12.0 | 8.5 | 12.4 | 8.7 | 13.2 | 8.6 | 13.4 | 8.7 | 13.9 | 9.0 | 14.5 | 8.8 | 15.4 | 8.6 |
| 110 | 43.0 | 11.8 | 8.4 | 12.1 | 8.6 | 12.8 | 8.5 | 13.0 | 8.5 | 13.4 | 8.8 | 14.1 | 8.6 | 15.0 | 8.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VCM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| | 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| | 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| | 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| | 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 |

A
B
C
D
E
F
G
H
I
J
V_a
V_b
BC

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PLFY-P-VAM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.6 | 4.5 | 4.4 | 4.3 |
| | 23 | -5.0 | 5.3 | 5.2 | 5.0 | 4.4 |
| | 32 | 0.0 | 6.0 | 5.9 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.3 | 6.2 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.6 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.8 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.2 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.6 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 8.1 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 5.0 |
| | 5 | -15.0 | 6.2 | 6.1 | 6.0 | 5.9 |
| | 14 | -10.0 | 7.3 | 7.2 | 7.0 | 6.9 |
| | 23 | -5.0 | 8.4 | 8.3 | 8.0 | 7.0 |
| | 32 | 0.0 | 9.5 | 9.4 | 8.0 | 7.0 |
| | 37 | 2.5 | 10.0 | 9.9 | 8.0 | 7.0 |
| | 43 | 6.0 | 10.4 | 10.0 | 8.0 | 7.0 |
| | 46 | 7.5 | 10.8 | 10.0 | 8.0 | 7.0 |
| | 50 | 10.0 | 11.4 | 10.0 | 8.0 | 7.0 |
| | 55 | 12.5 | 12.1 | 10.0 | 8.0 | 7.0 |
| 60 | 15.5 | 12.8 | 10.0 | 8.0 | 7.0 | |
| 100 (11.2) | -4 | -20.0 | 6.4 | 6.3 | 6.3 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.4 |
| | 14 | -10.0 | 9.1 | 9.0 | 8.8 | 8.6 |
| | 23 | -5.0 | 10.5 | 10.4 | 10.0 | 8.8 |
| | 32 | 0.0 | 11.8 | 11.8 | 10.0 | 8.8 |
| | 37 | 2.5 | 12.5 | 12.4 | 10.0 | 8.8 |
| | 43 | 6.0 | 13.0 | 12.5 | 10.0 | 8.8 |
| | 46 | 7.5 | 13.4 | 12.5 | 10.0 | 8.8 |
| | 50 | 10.0 | 14.3 | 12.5 | 10.0 | 8.8 |
| | 55 | 12.5 | 15.1 | 12.5 | 10.0 | 8.8 |
| 60 | 15.5 | 16.0 | 12.5 | 10.0 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.2 | 8.0 | 8.0 | 8.0 |
| | 5 | -15.0 | 9.9 | 9.8 | 9.6 | 9.4 |
| | 14 | -10.0 | 11.7 | 11.5 | 11.2 | 11.0 |
| | 23 | -5.0 | 13.4 | 13.3 | 12.8 | 11.2 |
| | 32 | 0.0 | 15.1 | 15.0 | 12.8 | 11.2 |
| | 37 | 2.5 | 16.0 | 15.8 | 12.8 | 11.2 |
| | 43 | 6.0 | 16.6 | 16.0 | 12.8 | 11.2 |
| | 46 | 7.5 | 17.2 | 16.0 | 12.8 | 11.2 |
| | 50 | 10.0 | 18.2 | 16.0 | 12.8 | 11.2 |
| | 55 | 12.5 | 19.3 | 16.0 | 12.8 | 11.2 |
| 60 | 15.5 | 20.5 | 16.0 | 12.8 | 11.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PLFY-P-VCM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.9 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 77 | 25.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 2.0 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 82 | 27.5 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 91 | 32.5 | 2.0 | 1.7 | 2.0 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.4 | 1.9 | 2.3 | 1.8 | 2.4 | 1.8 |
| 110 | 43.0 | 1.8 | 1.7 | 1.8 | 1.7 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.3 | 3.6 | 2.3 |
| | 73 | 22.5 | 2.7 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.3 | 3.6 | 2.3 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.6 | 2.1 | 2.6 | 2.2 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 3.0 | 2.3 | 2.9 | 2.2 | 3.1 | 2.1 |
| 110 | 43.0 | 2.4 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.1 | 3.0 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.9 | 4.4 | 2.8 | 4.7 | 2.8 |
| | 73 | 22.5 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.1 | 2.9 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 77 | 25.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.5 | 2.7 |
| | 82 | 27.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.6 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 2.7 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.7 | 4.3 | 2.7 |
| | 91 | 32.5 | 3.3 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.7 | 4.0 | 2.7 | 4.2 | 2.6 |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.2 | 2.6 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.1 | 2.5 | 3.3 | 2.5 | 3.4 | 2.5 | 3.9 | 2.8 | 3.8 | 2.6 | 4.0 | 2.6 |
| 110 | 43.0 | 3.0 | 2.4 | 3.0 | 2.5 | 3.2 | 2.4 | 3.3 | 2.5 | 3.4 | 2.6 | 3.7 | 2.6 | 3.9 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.1 | 4.5 | 3.2 | 4.9 | 3.2 | 5.0 | 3.2 | 5.2 | 3.3 | 5.5 | 3.3 | 5.9 | 3.3 |
| | 73 | 22.5 | 4.3 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.0 | 3.2 | 5.1 | 3.3 | 5.4 | 3.3 | 5.7 | 3.2 |
| | 77 | 25.0 | 4.3 | 3.1 | 4.4 | 3.1 | 4.7 | 3.1 | 4.9 | 3.1 | 5.0 | 3.3 | 5.3 | 3.2 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.8 | 3.1 | 4.9 | 3.2 | 5.2 | 3.2 | 5.5 | 3.1 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 | 4.7 | 3.1 | 4.8 | 3.2 | 5.1 | 3.1 | 5.4 | 3.1 |
| | 91 | 32.5 | 4.1 | 2.9 | 4.2 | 3.0 | 4.4 | 3.0 | 4.6 | 3.0 | 4.7 | 3.1 | 5.0 | 3.1 | 5.3 | 3.0 |
| | 95 | 35.0 | 4.0 | 2.9 | 4.1 | 3.0 | 4.3 | 2.9 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 |
| | 100 | 37.5 | 4.0 | 2.9 | 4.0 | 2.9 | 4.3 | 2.9 | 4.4 | 2.9 | 4.5 | 3.1 | 4.8 | 3.0 | 5.1 | 3.0 |
| | 104 | 40.0 | 3.9 | 2.9 | 3.9 | 2.9 | 4.2 | 2.9 | 4.3 | 2.9 | 4.9 | 3.2 | 4.7 | 3.0 | 5.0 | 2.9 |
| 110 | 43.0 | 3.8 | 2.8 | 3.8 | 2.8 | 4.1 | 2.8 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 2.9 | 4.8 | 2.9 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PLFY-P-VAM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|-----|
| | | | 71 °FDB / 59°F WB | | 73°FDB / 61°F WB | | 77°FDB / 64°F WB | | 81°FDB / 66°F WB | | 82°FDB / 68°F WB | | 86°FDB / 72°F WB | | 90°FDB / 75°F WB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.8 | 3.6 | 2.9 | 3.9 | 2.9 | 4.0 | 3.0 | 4.2 | 3.1 | 4.4 | 3.1 | 4.7 | 3.0 |
| | 73 | 22.5 | 3.5 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.0 | 3.0 | 4.1 | 3.1 | 4.3 | 3.1 | 4.6 | 3.0 |
| | 77 | 25.0 | 3.4 | 2.8 | 3.5 | 2.9 | 3.8 | 2.9 | 3.9 | 2.9 | 4.0 | 3.1 | 4.2 | 3.0 | 4.5 | 3.0 |
| | 82 | 27.5 | 3.4 | 2.8 | 3.5 | 2.9 | 3.7 | 2.8 | 3.8 | 2.9 | 3.9 | 3.0 | 4.2 | 3.0 | 4.4 | 2.9 |
| | 86 | 30.0 | 3.3 | 2.8 | 3.4 | 2.8 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 3.0 | 4.1 | 3.0 | 4.3 | 2.9 |
| | 91 | 32.5 | 3.3 | 2.7 | 3.3 | 2.8 | 3.5 | 2.8 | 3.7 | 2.9 | 3.8 | 3.0 | 4.0 | 2.9 | 4.2 | 2.9 |
| | 95 | 35.0 | 3.2 | 2.7 | 3.3 | 2.8 | 3.5 | 2.8 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 2.9 | 4.2 | 2.9 |
| | 100 | 37.5 | 3.2 | 2.7 | 3.2 | 2.7 | 3.4 | 2.7 | 3.5 | 2.8 | 3.6 | 2.9 | 3.9 | 2.9 | 4.1 | 2.8 |
| | 104 | 40.0 | 3.1 | 2.7 | 3.1 | 2.7 | 3.3 | 2.7 | 3.4 | 2.8 | 3.9 | 3.0 | 3.8 | 2.8 | 4.0 | 2.8 |
| 110 | 43.0 | 3.0 | 2.6 | 3.0 | 2.7 | 3.2 | 2.7 | 3.3 | 2.7 | 3.4 | 2.8 | 3.7 | 2.8 | 3.9 | 2.8 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.5 | 4.5 | 3.6 | 4.9 | 3.6 | 5.0 | 3.7 | 5.2 | 3.9 | 5.5 | 3.8 | 5.9 | 3.8 |
| | 73 | 22.5 | 4.3 | 3.5 | 4.5 | 3.6 | 4.8 | 3.6 | 5.0 | 3.7 | 5.1 | 3.8 | 5.4 | 3.8 | 5.7 | 3.7 |
| | 77 | 25.0 | 4.3 | 3.5 | 4.4 | 3.6 | 4.7 | 3.6 | 4.9 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.6 | 3.7 |
| | 82 | 27.5 | 4.2 | 3.4 | 4.3 | 3.5 | 4.6 | 3.5 | 4.8 | 3.6 | 4.9 | 3.8 | 5.2 | 3.7 | 5.5 | 3.6 |
| | 86 | 30.0 | 4.1 | 3.4 | 4.2 | 3.5 | 4.5 | 3.5 | 4.7 | 3.6 | 4.8 | 3.7 | 5.1 | 3.7 | 5.4 | 3.6 |
| | 91 | 32.5 | 4.1 | 3.4 | 4.2 | 3.5 | 4.4 | 3.4 | 4.6 | 3.5 | 4.7 | 3.7 | 5.0 | 3.6 | 5.3 | 3.6 |
| | 95 | 35.0 | 4.0 | 3.3 | 4.1 | 3.4 | 4.3 | 3.4 | 4.5 | 3.5 | 4.6 | 3.6 | 4.9 | 3.6 | 5.2 | 3.5 |
| | 100 | 37.5 | 4.0 | 3.3 | 4.0 | 3.4 | 4.3 | 3.4 | 4.4 | 3.5 | 4.5 | 3.6 | 4.8 | 3.6 | 5.1 | 3.5 |
| | 104 | 40.0 | 3.9 | 3.3 | 3.9 | 3.4 | 4.2 | 3.3 | 4.3 | 3.4 | 4.9 | 3.7 | 4.7 | 3.5 | 5.0 | 3.5 |
| 110 | 43.0 | 3.8 | 3.2 | 3.8 | 3.3 | 4.1 | 3.3 | 4.2 | 3.4 | 4.3 | 3.5 | 4.6 | 3.5 | 4.8 | 3.4 | |
| 50 (5.6) | 68 | 20.0 | 5.4 | 4.1 | 5.6 | 4.2 | 6.0 | 4.2 | 6.3 | 4.3 | 6.5 | 4.4 | 6.9 | 4.4 | 7.3 | 4.3 |
| | 73 | 22.5 | 5.4 | 4.1 | 5.6 | 4.2 | 6.0 | 4.2 | 6.2 | 4.2 | 6.4 | 4.4 | 6.7 | 4.3 | 7.1 | 4.3 |
| | 77 | 25.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.9 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 82 | 27.5 | 5.2 | 4.0 | 5.4 | 4.1 | 5.7 | 4.1 | 5.9 | 4.1 | 6.1 | 4.3 | 6.5 | 4.2 | 6.9 | 4.2 |
| | 86 | 30.0 | 5.2 | 3.9 | 5.3 | 4.0 | 5.6 | 4.0 | 5.8 | 4.1 | 6.0 | 4.2 | 6.4 | 4.2 | 6.7 | 4.1 |
| | 91 | 32.5 | 5.1 | 3.9 | 5.2 | 4.0 | 5.5 | 4.0 | 5.7 | 4.0 | 5.9 | 4.2 | 6.2 | 4.1 | 6.6 | 4.1 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.1 | 3.9 | 5.4 | 3.9 | 5.6 | 4.0 | 5.8 | 4.1 | 6.1 | 4.1 | 6.5 | 4.0 |
| | 100 | 37.5 | 4.9 | 3.8 | 5.0 | 3.9 | 5.3 | 3.9 | 5.5 | 3.9 | 5.7 | 4.1 | 6.0 | 4.0 | 6.3 | 4.0 |
| | 104 | 40.0 | 4.8 | 3.8 | 4.8 | 3.8 | 5.2 | 3.8 | 5.3 | 3.9 | 6.1 | 4.3 | 5.9 | 4.0 | 6.2 | 3.9 |
| 110 | 43.0 | 4.7 | 3.7 | 4.7 | 3.8 | 5.0 | 3.7 | 5.2 | 3.8 | 5.3 | 4.0 | 5.7 | 3.9 | 6.0 | 3.9 | |
| 63 (7.1) | 68 | 20.0 | 6.9 | 5.1 | 7.1 | 5.3 | 7.7 | 5.3 | 8.0 | 5.3 | 8.2 | 5.5 | 8.7 | 5.5 | 9.2 | 5.4 |
| | 73 | 22.5 | 6.9 | 5.1 | 7.1 | 5.2 | 7.6 | 5.2 | 7.8 | 5.3 | 8.1 | 5.5 | 8.5 | 5.4 | 9.1 | 5.3 |
| | 77 | 25.0 | 6.8 | 5.0 | 7.0 | 5.2 | 7.4 | 5.1 | 7.7 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 8.9 | 5.3 |
| | 82 | 27.5 | 6.6 | 5.0 | 6.8 | 5.1 | 7.3 | 5.1 | 7.5 | 5.2 | 7.8 | 5.4 | 8.2 | 5.3 | 8.7 | 5.2 |
| | 86 | 30.0 | 6.5 | 4.9 | 6.7 | 5.0 | 7.1 | 5.0 | 7.4 | 5.1 | 7.6 | 5.3 | 8.1 | 5.2 | 8.5 | 5.1 |
| | 91 | 32.5 | 6.4 | 4.9 | 6.6 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.5 | 5.2 | 7.9 | 5.2 | 8.4 | 5.1 |
| | 95 | 35.0 | 6.3 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.7 | 5.1 | 8.2 | 5.0 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.3 | 4.9 | 6.7 | 4.8 | 6.9 | 4.9 | 7.2 | 5.1 | 7.6 | 5.0 | 8.0 | 5.0 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.1 | 4.8 | 6.6 | 4.8 | 6.8 | 4.8 | 7.7 | 5.3 | 7.4 | 5.0 | 7.8 | 4.9 |
| 110 | 43.0 | 6.0 | 4.6 | 6.0 | 4.7 | 6.4 | 4.7 | 6.6 | 4.8 | 6.8 | 5.0 | 7.2 | 4.9 | 7.6 | 4.8 | |
| 80 (9.0) | 68 | 20.0 | 8.7 | 6.3 | 9.0 | 6.5 | 9.7 | 6.5 | 10.1 | 6.6 | 10.4 | 6.9 | 11.0 | 6.8 | 11.7 | 6.7 |
| | 73 | 22.5 | 8.7 | 6.3 | 9.0 | 6.5 | 9.6 | 6.4 | 9.9 | 6.5 | 10.2 | 6.8 | 10.8 | 6.7 | 11.5 | 6.6 |
| | 77 | 25.0 | 8.6 | 6.3 | 8.8 | 6.4 | 9.4 | 6.4 | 9.7 | 6.5 | 10.0 | 6.7 | 10.6 | 6.6 | 11.3 | 6.5 |
| | 82 | 27.5 | 8.4 | 6.2 | 8.6 | 6.3 | 9.2 | 6.3 | 9.5 | 6.4 | 9.8 | 6.6 | 10.4 | 6.5 | 11.0 | 6.4 |
| | 86 | 30.0 | 8.3 | 6.1 | 8.5 | 6.2 | 9.0 | 6.2 | 9.4 | 6.3 | 9.6 | 6.5 | 10.3 | 6.5 | 10.8 | 6.3 |
| | 91 | 32.5 | 8.1 | 6.0 | 8.3 | 6.2 | 8.9 | 6.1 | 9.2 | 6.2 | 9.5 | 6.4 | 10.0 | 6.3 | 10.6 | 6.3 |
| | 95 | 35.0 | 8.0 | 6.0 | 8.1 | 6.1 | 8.6 | 6.0 | 9.0 | 6.1 | 9.3 | 6.4 | 9.8 | 6.3 | 10.4 | 6.2 |
| | 100 | 37.5 | 7.9 | 5.9 | 8.0 | 6.0 | 8.5 | 6.0 | 8.8 | 6.0 | 9.1 | 6.3 | 9.6 | 6.2 | 10.2 | 6.1 |
| | 104 | 40.0 | 7.8 | 5.8 | 7.8 | 5.9 | 8.3 | 5.9 | 8.6 | 6.0 | 9.8 | 6.6 | 9.4 | 6.1 | 9.9 | 6.0 |
| 110 | 43.0 | 7.6 | 5.7 | 7.6 | 5.8 | 8.1 | 5.8 | 8.4 | 5.9 | 8.6 | 6.1 | 9.1 | 6.0 | 9.7 | 5.9 | |
| 100 (11.2) | 68 | 20.0 | 10.9 | 7.5 | 11.3 | 7.7 | 12.1 | 7.7 | 12.5 | 7.8 | 12.9 | 8.1 | 13.7 | 8.0 | 14.6 | 7.9 |
| | 73 | 22.5 | 10.8 | 7.5 | 11.2 | 7.7 | 11.9 | 7.6 | 12.3 | 7.7 | 12.7 | 8.0 | 13.5 | 7.9 | 14.3 | 7.7 |
| | 77 | 25.0 | 10.7 | 7.4 | 11.0 | 7.6 | 11.7 | 7.5 | 12.1 | 7.6 | 12.5 | 7.9 | 13.2 | 7.8 | 14.0 | 7.6 |
| | 82 | 27.5 | 10.5 | 7.3 | 10.8 | 7.5 | 11.5 | 7.4 | 11.9 | 7.5 | 12.2 | 7.8 | 13.0 | 7.7 | 13.7 | 7.5 |
| | 86 | 30.0 | 10.3 | 7.2 | 10.5 | 7.3 | 11.3 | 7.3 | 11.6 | 7.4 | 12.0 | 7.6 | 12.8 | 7.6 | 13.4 | 7.4 |
| | 91 | 32.5 | 10.1 | 7.1 | 10.4 | 7.3 | 11.0 | 7.2 | 11.4 | 7.3 | 11.8 | 7.5 | 12.4 | 7.4 | 13.2 | 7.3 |
| | 95 | 35.0 | 10.0 | 7.0 | 10.1 | 7.1 | 10.8 | 7.1 | 11.2 | 7.2 | 11.5 | 7.4 | 12.2 | 7.3 | 12.9 | 7.2 |
| | 100 | 37.5 | 9.9 | 7.0 | 9.9 | 7.0 | 10.6 | 7.0 | 10.9 | 7.1 | 11.3 | 7.3 | 12.0 | 7.2 | 12.7 | 7.1 |
| | 104 | 40.0 | 9.7 | 6.9 | 9.7 | 6.9 | 10.4 | 6.9 | 10.7 | 7.0 | 12.2 | 7.7 | 11.7 | 7.1 | 12.4 | 7.0 |
| 110 | 43.0 | 9.4 | 6.7 | 9.4 | 6.8 | 10.1 | 6.7 | 10.4 | 6.8 | 10.7 | 7.1 | 11.4 | 7.0 | 12.0 | 6.9 | |
| 125 (14.0) | 68 | 20.0 | 13.6 | 9.3 | 14.1 | 9.6 | 15.1 | 9.6 | 15.7 | 9.7 | 16.2 | 10.0 | 17.2 | 9.9 | 18.2 | 9.7 |
| | 73 | 22.5 | 13.5 | 9.3 | 14.0 | 9.5 | 14.9 | 9.5 | 15.4 | 9.6 | 15.9 | 9.9 | 16.8 | 9.8 | 17.9 | 9.6 |
| | 77 | 25.0 | 13.4 | 9.2 | 13.7 | 9.4 | 14.6 | 9.3 | 15.1 | 9.4 | 15.6 | 9.8 | 16.5 | 9.6 | 17.5 | 9.5 |
| | 82 | 27.5 | 13.1 | 9.1 | 13.4 | 9.3 | 14.4 | 9.2 | 14.8 | 9.3 | 15.3 | 9.6 | 16.2 | 9.5 | 17.2 | 9.3 |
| | 86 | 30.0 | 12.9 | 9.0 | 13.2 | 9.1 | 14.1 | 9.1 | 14.6 | 9.2 | 15.0 | 9.5 | 16.0 | 9.4 | 16.8 | 9.2 |
| | 91 | 32.5 | 12.7 | 8.8 | 13.0 | 9.0 | 13.8 | 8.9 | 14.3 | 9.0 | 14.7 | 9.3 | 15.5 | 9.2 | 16.5 | 9.1 |
| | 95 | 35.0 | 12.5 | 8.7 | 12.7 | 8.8 | 13.4 | 8.8 | 14.0 | 8.9 | 14.4 | 9.2 | 15.3 | 9.1 | 16.2 | 8.9 |
| | 100 | 37.5 | 12.3 | 8.6 | 12.4 | 8.7 | 13.2 | 8.7 | 13.7 | 8.7 | 14.1 | 9.1 | 15.0 | 9.0 | 15.8 | 8.8 |
| | 104 | 40.0 | 12.1 | 8.5 | 12.1 | 8.6 | 13.0 | 8.5 | 13.4 | 8.6 | 15.2 | 9.6 | 14.6 | 8.8 | 15.5 | 8.7 |
| 110 | 43.0 | 11.8 | 8.4 | 11.8 | 8.4 | 12.6 | 8.4 | 13.0 | 8.5 | 13.4 | 8.7 | 14.2 | 8.6 | 15.1 | 8.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PLFY-P-VCM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 55 | 12.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| | 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| | 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| | 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| | 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 |

A
B
C
D
E
F
G
H
I
J
V_a
V_b
BC

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PLFY-P-VAM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.0 |
| | 5 | -15.0 | 3.8 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.4 | 4.4 | 4.3 | 4.0 |
| | 23 | -5.0 | 5.0 | 5.0 | 4.7 | 4.0 |
| | 32 | 0.0 | 5.7 | 5.7 | 4.7 | 4.0 |
| | 37 | 2.5 | 6.0 | 6.0 | 4.7 | 4.0 |
| | 43 | 6.0 | 6.5 | 6.3 | 4.7 | 4.0 |
| | 46 | 7.5 | 6.7 | 6.3 | 4.7 | 4.0 |
| | 50 | 10.0 | 7.0 | 6.3 | 4.7 | 4.0 |
| | 55 | 12.5 | 7.2 | 6.3 | 4.7 | 4.0 |
| 60 | 15.5 | 7.2 | 6.3 | 4.7 | 4.0 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 55 | 12.5 | 9.2 | 8.0 | 6.0 | 5.1 |
| 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.2 | 5.0 | 5.0 | 4.8 |
| | 5 | -15.0 | 6.0 | 6.0 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.0 | 7.0 | 6.9 | 6.4 |
| | 23 | -5.0 | 8.0 | 8.0 | 7.5 | 6.4 |
| | 32 | 0.0 | 9.0 | 9.0 | 7.5 | 6.4 |
| | 37 | 2.5 | 9.6 | 9.5 | 7.5 | 6.4 |
| | 43 | 6.0 | 10.3 | 10.0 | 7.5 | 6.4 |
| | 46 | 7.5 | 10.6 | 10.0 | 7.5 | 6.4 |
| | 50 | 10.0 | 11.1 | 10.0 | 7.5 | 6.4 |
| | 55 | 12.5 | 11.5 | 10.0 | 7.5 | 6.4 |
| 60 | 15.5 | 11.5 | 10.0 | 7.5 | 6.4 | |
| 100 (11.2) | -4 | -20.0 | 6.5 | 6.3 | 6.3 | 6.0 |
| | 5 | -15.0 | 7.5 | 7.5 | 7.5 | 7.3 |
| | 14 | -10.0 | 8.8 | 8.8 | 8.6 | 8.0 |
| | 23 | -5.0 | 10.0 | 10.0 | 9.4 | 8.0 |
| | 32 | 0.0 | 11.3 | 11.3 | 9.4 | 8.0 |
| | 37 | 2.5 | 11.9 | 11.8 | 9.4 | 8.0 |
| | 43 | 6.0 | 12.8 | 12.5 | 9.4 | 8.0 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.4 | 8.0 |
| | 50 | 10.0 | 13.8 | 12.5 | 9.4 | 8.0 |
| | 55 | 12.5 | 14.4 | 12.5 | 9.4 | 8.0 |
| 60 | 15.5 | 14.4 | 12.5 | 9.4 | 8.0 | |
| 125 (14.0) | -4 | -20.0 | 8.3 | 8.0 | 8.0 | 7.7 |
| | 5 | -15.0 | 9.6 | 9.6 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.2 | 11.2 | 11.0 | 10.2 |
| | 23 | -5.0 | 12.8 | 12.8 | 12.0 | 10.2 |
| | 32 | 0.0 | 14.4 | 14.4 | 12.0 | 10.2 |
| | 37 | 2.5 | 15.3 | 15.1 | 12.0 | 10.2 |
| | 43 | 6.0 | 16.4 | 16.0 | 12.0 | 10.2 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.0 | 10.2 |
| | 50 | 10.0 | 17.7 | 16.0 | 12.0 | 10.2 |
| | 55 | 12.5 | 18.4 | 16.0 | 12.0 | 10.2 |
| 60 | 15.5 | 18.4 | 16.0 | 12.0 | 10.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VCM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 | 2.8 | 1.9 | |
| | 73 | 22.5 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | |
| | 77 | 25.0 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 | |
| | 82 | 27.5 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | |
| | 86 | 30.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 | |
| | 91 | 32.5 | 2.0 | 1.7 | 2.0 | 1.8 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | |
| | 95 | 35.0 | 2.0 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 | |
| | 100 | 37.5 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | |
| | 104 | 40.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.6 | 1.8 | |
| 110 | 43.0 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.9 | 2.4 | 1.9 | 2.6 | 1.8 | | |
| 25 (2.8) | 68 | 20.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 | |
| | 73 | 22.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 | |
| | 77 | 25.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.5 | 2.2 | |
| | 82 | 27.5 | 2.6 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 | |
| | 86 | 30.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 | |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.3 | 3.2 | 2.2 | 3.4 | 2.2 | |
| | 95 | 35.0 | 2.5 | 2.1 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 | |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 | |
| | 104 | 40.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.7 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 | |
| 110 | 43.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.5 | 2.8 | |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.6 | 3.8 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.5 | 2.7 | |
| | 77 | 25.0 | 3.3 | 2.6 | 3.4 | 2.6 | 3.7 | 2.6 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 2.7 | |
| | 82 | 27.5 | 3.3 | 2.6 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.7 | 4.3 | 2.7 | |
| | 86 | 30.0 | 3.3 | 2.5 | 3.3 | 2.6 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.8 | 4.1 | 2.7 | 4.4 | 2.7 | |
| | 91 | 32.5 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.8 | 2.7 | 4.1 | 2.7 | 4.3 | 2.7 | |
| | 95 | 35.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 4.0 | 2.7 | 4.3 | 2.7 | |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.5 | 3.5 | 2.5 | 3.5 | 2.6 | 3.7 | 2.7 | 4.0 | 2.7 | 4.2 | 2.6 | |
| | 104 | 40.0 | 3.1 | 2.5 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.7 | 4.0 | 2.7 | 4.2 | 2.6 | |
| 110 | 43.0 | 3.1 | 2.5 | 3.2 | 2.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.6 | 2.7 | 3.9 | 2.6 | 4.2 | 2.6 | | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.8 | 3.1 | 5.0 | 3.3 | 5.3 | 3.2 | 5.7 | 3.2 | |
| | 73 | 22.5 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.8 | 3.1 | 5.0 | 3.2 | 5.3 | 3.2 | 5.6 | 3.2 | |
| | 77 | 25.0 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.7 | 3.1 | 4.9 | 3.2 | 5.2 | 3.2 | 5.6 | 3.1 | |
| | 82 | 27.5 | 4.1 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 | 4.7 | 3.1 | 4.9 | 3.2 | 5.2 | 3.2 | 5.4 | 3.1 | |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 | 4.6 | 3.0 | 4.8 | 3.2 | 5.1 | 3.1 | 5.4 | 3.1 | |
| | 91 | 32.5 | 4.1 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.8 | 3.2 | 5.1 | 3.1 | 5.4 | 3.1 | |
| | 95 | 35.0 | 4.0 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.7 | 3.1 | 5.0 | 3.1 | 5.4 | 3.1 | |
| | 100 | 37.5 | 4.0 | 2.9 | 4.0 | 2.9 | 4.3 | 2.9 | 4.4 | 3.0 | 4.7 | 3.1 | 5.0 | 3.1 | 5.3 | 3.0 | |
| | 104 | 40.0 | 3.9 | 2.9 | 4.0 | 2.9 | 4.3 | 2.9 | 4.4 | 2.9 | 4.6 | 3.1 | 5.0 | 3.1 | 5.3 | 3.0 | |
| 110 | 43.0 | 3.9 | 2.8 | 3.9 | 2.9 | 4.2 | 2.9 | 4.3 | 2.9 | 4.5 | 3.1 | 4.9 | 3.0 | 5.2 | 3.0 | | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VAM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.8 | 3.5 | 2.9 | 3.7 | 2.9 | 3.9 | 2.9 | 4.0 | 3.1 | 4.2 | 3.0 | 4.5 | 3.0 |
| | 73 | 22.5 | 3.4 | 2.8 | 3.5 | 2.9 | 3.7 | 2.9 | 3.8 | 2.9 | 4.0 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 |
| | 77 | 25.0 | 3.3 | 2.8 | 3.4 | 2.9 | 3.7 | 2.8 | 3.8 | 2.9 | 3.9 | 3.0 | 4.2 | 3.0 | 4.4 | 3.0 |
| | 82 | 27.5 | 3.3 | 2.8 | 3.4 | 2.8 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 3.0 | 4.1 | 3.0 | 4.3 | 2.9 |
| | 86 | 30.0 | 3.3 | 2.7 | 3.3 | 2.8 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 3.0 | 4.1 | 3.0 | 4.4 | 2.9 |
| | 91 | 32.5 | 3.2 | 2.7 | 3.3 | 2.8 | 3.5 | 2.8 | 3.6 | 2.8 | 3.8 | 3.0 | 4.1 | 3.0 | 4.3 | 2.9 |
| | 95 | 35.0 | 3.2 | 2.7 | 3.3 | 2.8 | 3.5 | 2.8 | 3.6 | 2.8 | 3.7 | 3.0 | 4.0 | 2.9 | 4.3 | 2.9 |
| | 100 | 37.5 | 3.2 | 2.7 | 3.2 | 2.8 | 3.5 | 2.8 | 3.5 | 2.8 | 3.7 | 3.0 | 4.0 | 2.9 | 4.2 | 2.9 |
| | 104 | 40.0 | 3.1 | 2.7 | 3.2 | 2.7 | 3.4 | 2.7 | 3.4 | 2.7 | 3.7 | 2.9 | 4.0 | 2.9 | 4.2 | 2.9 |
| 110 | 43.0 | 3.1 | 2.7 | 3.2 | 2.7 | 3.4 | 2.7 | 3.4 | 2.7 | 3.5 | 2.8 | 3.6 | 2.9 | 3.9 | 2.9 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.5 | 4.4 | 3.6 | 4.7 | 3.6 | 4.8 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.7 | 3.7 |
| | 73 | 22.5 | 4.2 | 3.5 | 4.3 | 3.6 | 4.6 | 3.5 | 4.8 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.6 | 3.7 |
| | 77 | 25.0 | 4.2 | 3.4 | 4.3 | 3.5 | 4.6 | 3.5 | 4.7 | 3.6 | 4.9 | 3.7 | 5.2 | 3.7 | 5.6 | 3.7 |
| | 82 | 27.5 | 4.1 | 3.4 | 4.2 | 3.5 | 4.5 | 3.5 | 4.7 | 3.6 | 4.9 | 3.7 | 5.2 | 3.7 | 5.4 | 3.6 |
| | 86 | 30.0 | 4.1 | 3.4 | 4.2 | 3.5 | 4.5 | 3.5 | 4.6 | 3.5 | 4.8 | 3.7 | 5.1 | 3.7 | 5.4 | 3.6 |
| | 91 | 32.5 | 4.1 | 3.4 | 4.1 | 3.5 | 4.4 | 3.4 | 4.5 | 3.5 | 4.8 | 3.7 | 5.1 | 3.7 | 5.4 | 3.6 |
| | 95 | 35.0 | 4.0 | 3.3 | 4.1 | 3.4 | 4.4 | 3.4 | 4.5 | 3.5 | 4.7 | 3.7 | 5.0 | 3.6 | 5.4 | 3.6 |
| | 100 | 37.5 | 4.0 | 3.3 | 4.0 | 3.4 | 4.3 | 3.4 | 4.4 | 3.5 | 4.7 | 3.6 | 5.0 | 3.6 | 5.3 | 3.6 |
| | 104 | 40.0 | 3.9 | 3.3 | 4.0 | 3.4 | 4.3 | 3.4 | 4.4 | 3.4 | 4.6 | 3.6 | 5.0 | 3.6 | 5.3 | 3.6 |
| 110 | 43.0 | 3.9 | 3.3 | 3.9 | 3.4 | 4.2 | 3.4 | 4.3 | 3.4 | 4.5 | 3.6 | 4.9 | 3.6 | 5.2 | 3.5 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 4.0 | 5.5 | 4.1 | 5.8 | 4.1 | 6.0 | 4.1 | 6.2 | 4.3 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 73 | 22.5 | 5.3 | 4.0 | 5.4 | 4.1 | 5.8 | 4.1 | 5.9 | 4.1 | 6.2 | 4.3 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 77 | 25.0 | 5.2 | 4.0 | 5.3 | 4.1 | 5.7 | 4.0 | 5.9 | 4.1 | 6.1 | 4.3 | 6.5 | 4.2 | 6.9 | 4.2 |
| | 82 | 27.5 | 5.2 | 3.9 | 5.3 | 4.0 | 5.7 | 4.0 | 5.8 | 4.1 | 6.0 | 4.3 | 6.4 | 4.2 | 6.7 | 4.1 |
| | 86 | 30.0 | 5.1 | 3.9 | 5.2 | 4.0 | 5.6 | 4.0 | 5.8 | 4.1 | 6.0 | 4.2 | 6.4 | 4.2 | 6.8 | 4.1 |
| | 91 | 32.5 | 5.0 | 3.9 | 5.2 | 4.0 | 5.5 | 3.9 | 5.7 | 4.0 | 5.9 | 4.2 | 6.3 | 4.2 | 6.7 | 4.1 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.1 | 3.9 | 5.5 | 3.9 | 5.6 | 4.0 | 5.8 | 4.2 | 6.3 | 4.1 | 6.7 | 4.1 |
| | 100 | 37.5 | 4.9 | 3.8 | 5.0 | 3.9 | 5.4 | 3.9 | 5.5 | 3.9 | 5.8 | 4.1 | 6.2 | 4.1 | 6.6 | 4.1 |
| | 104 | 40.0 | 4.8 | 3.8 | 5.0 | 3.9 | 5.3 | 3.9 | 5.4 | 3.9 | 5.7 | 4.1 | 6.2 | 4.1 | 6.6 | 4.0 |
| 110 | 43.0 | 4.8 | 3.8 | 4.9 | 3.9 | 5.3 | 3.8 | 5.4 | 3.9 | 5.7 | 4.1 | 6.0 | 4.1 | 6.5 | 4.0 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.0 | 6.9 | 5.2 | 7.4 | 5.1 | 7.6 | 5.2 | 7.9 | 5.4 | 8.4 | 5.3 | 8.9 | 5.3 |
| | 73 | 22.5 | 6.7 | 5.0 | 6.9 | 5.1 | 7.3 | 5.1 | 7.5 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 77 | 25.0 | 6.6 | 5.0 | 6.8 | 5.1 | 7.2 | 5.1 | 7.5 | 5.1 | 7.7 | 5.4 | 8.2 | 5.3 | 8.8 | 5.2 |
| | 82 | 27.5 | 6.5 | 4.9 | 6.7 | 5.0 | 7.2 | 5.0 | 7.4 | 5.1 | 7.7 | 5.3 | 8.2 | 5.3 | 8.5 | 5.1 |
| | 86 | 30.0 | 6.5 | 4.9 | 6.6 | 5.0 | 7.1 | 5.0 | 7.3 | 5.1 | 7.6 | 5.3 | 8.1 | 5.2 | 8.6 | 5.2 |
| | 91 | 32.5 | 6.4 | 4.9 | 6.5 | 5.0 | 7.0 | 4.9 | 7.2 | 5.0 | 7.5 | 5.3 | 8.0 | 5.2 | 8.5 | 5.1 |
| | 95 | 35.0 | 6.3 | 4.8 | 6.4 | 4.9 | 6.9 | 4.9 | 7.1 | 5.0 | 7.4 | 5.2 | 8.0 | 5.2 | 8.4 | 5.1 |
| | 100 | 37.5 | 6.2 | 4.8 | 6.4 | 4.9 | 6.8 | 4.9 | 7.0 | 4.9 | 7.3 | 5.2 | 7.8 | 5.1 | 8.4 | 5.1 |
| | 104 | 40.0 | 6.1 | 4.7 | 6.3 | 4.9 | 6.8 | 4.9 | 6.9 | 4.9 | 7.2 | 5.1 | 7.8 | 5.1 | 8.3 | 5.1 |
| 110 | 43.0 | 6.1 | 4.7 | 6.2 | 4.8 | 6.7 | 4.8 | 6.8 | 4.9 | 7.2 | 5.1 | 7.7 | 5.1 | 8.2 | 5.0 | |
| 80 (9.0) | 68 | 20.0 | 8.5 | 6.2 | 8.8 | 6.4 | 9.4 | 6.3 | 9.6 | 6.4 | 10.0 | 6.7 | 10.6 | 6.6 | 11.3 | 6.5 |
| | 73 | 22.5 | 8.5 | 6.2 | 8.7 | 6.3 | 9.3 | 6.3 | 9.5 | 6.4 | 9.9 | 6.6 | 10.6 | 6.6 | 11.2 | 6.5 |
| | 77 | 25.0 | 8.4 | 6.1 | 8.6 | 6.3 | 9.2 | 6.3 | 9.5 | 6.3 | 9.8 | 6.6 | 10.4 | 6.5 | 11.1 | 6.4 |
| | 82 | 27.5 | 8.3 | 6.1 | 8.5 | 6.2 | 9.1 | 6.2 | 9.4 | 6.3 | 9.7 | 6.6 | 10.4 | 6.5 | 10.8 | 6.3 |
| | 86 | 30.0 | 8.2 | 6.0 | 8.4 | 6.2 | 9.0 | 6.2 | 9.3 | 6.3 | 9.6 | 6.5 | 10.3 | 6.5 | 10.9 | 6.4 |
| | 91 | 32.5 | 8.1 | 6.0 | 8.3 | 6.1 | 8.8 | 6.1 | 9.1 | 6.2 | 9.5 | 6.5 | 10.2 | 6.4 | 10.8 | 6.3 |
| | 95 | 35.0 | 8.0 | 6.0 | 8.1 | 6.1 | 8.8 | 6.1 | 9.0 | 6.1 | 9.4 | 6.4 | 10.1 | 6.4 | 10.7 | 6.3 |
| | 100 | 37.5 | 7.9 | 5.9 | 8.1 | 6.0 | 8.6 | 6.0 | 8.9 | 6.1 | 9.3 | 6.4 | 9.9 | 6.3 | 10.6 | 6.3 |
| | 104 | 40.0 | 7.8 | 5.8 | 8.0 | 6.0 | 8.6 | 6.0 | 8.7 | 6.0 | 9.2 | 6.3 | 9.9 | 6.3 | 10.5 | 6.2 |
| 110 | 43.0 | 7.7 | 5.8 | 7.9 | 5.9 | 8.5 | 5.9 | 8.6 | 6.0 | 9.1 | 6.3 | 9.7 | 6.2 | 10.4 | 6.2 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.4 | 10.9 | 7.5 | 11.6 | 7.5 | 12.0 | 7.6 | 12.5 | 7.9 | 13.2 | 7.8 | 14.1 | 7.7 |
| | 73 | 22.5 | 10.5 | 7.3 | 10.8 | 7.5 | 11.5 | 7.4 | 11.9 | 7.5 | 12.3 | 7.8 | 13.2 | 7.7 | 13.9 | 7.6 |
| | 77 | 25.0 | 10.4 | 7.3 | 10.7 | 7.4 | 11.4 | 7.4 | 11.8 | 7.4 | 12.2 | 7.7 | 13.0 | 7.7 | 13.8 | 7.6 |
| | 82 | 27.5 | 10.3 | 7.2 | 10.5 | 7.3 | 11.3 | 7.3 | 11.6 | 7.4 | 12.1 | 7.7 | 12.9 | 7.6 | 13.4 | 7.4 |
| | 86 | 30.0 | 10.2 | 7.2 | 10.4 | 7.3 | 11.2 | 7.3 | 11.5 | 7.3 | 12.0 | 7.6 | 12.8 | 7.6 | 13.6 | 7.5 |
| | 91 | 32.5 | 10.1 | 7.1 | 10.3 | 7.2 | 11.0 | 7.2 | 11.3 | 7.2 | 11.9 | 7.6 | 12.7 | 7.5 | 13.4 | 7.4 |
| | 95 | 35.0 | 10.0 | 7.0 | 10.1 | 7.1 | 10.9 | 7.1 | 11.2 | 7.2 | 11.6 | 7.5 | 12.5 | 7.5 | 13.3 | 7.4 |
| | 100 | 37.5 | 9.9 | 7.0 | 10.0 | 7.1 | 10.8 | 7.1 | 11.0 | 7.1 | 11.6 | 7.5 | 12.4 | 7.4 | 13.2 | 7.3 |
| | 104 | 40.0 | 9.7 | 6.9 | 9.9 | 7.0 | 10.7 | 7.0 | 10.9 | 7.0 | 11.4 | 7.4 | 12.3 | 7.4 | 13.1 | 7.3 |
| 110 | 43.0 | 9.6 | 6.9 | 9.8 | 7.0 | 10.5 | 7.0 | 10.8 | 7.0 | 11.3 | 7.3 | 12.1 | 7.3 | 13.0 | 7.2 | |
| 125 (14.0) | 68 | 20.0 | 13.2 | 9.1 | 13.7 | 9.4 | 14.6 | 9.3 | 15.0 | 9.4 | 15.6 | 9.8 | 16.5 | 9.6 | 17.6 | 9.5 |
| | 73 | 22.5 | 13.2 | 9.1 | 13.5 | 9.3 | 14.4 | 9.2 | 14.8 | 9.3 | 15.4 | 9.7 | 16.5 | 9.6 | 17.4 | 9.4 |
| | 77 | 25.0 | 13.0 | 9.0 | 13.4 | 9.2 | 14.3 | 9.2 | 14.7 | 9.2 | 15.3 | 9.6 | 16.2 | 9.5 | 17.3 | 9.4 |
| | 82 | 27.5 | 12.9 | 9.0 | 13.2 | 9.1 | 14.1 | 9.1 | 14.6 | 9.2 | 15.1 | 9.5 | 16.1 | 9.4 | 16.8 | 9.2 |
| | 86 | 30.0 | 12.7 | 8.9 | 13.0 | 9.0 | 14.0 | 9.0 | 14.4 | 9.1 | 15.0 | 9.5 | 16.0 | 9.4 | 16.9 | 9.2 |
| | 91 | 32.5 | 12.6 | 8.8 | 12.9 | 9.0 | 13.7 | 8.9 | 14.1 | 9.0 | 14.8 | 9.4 | 15.8 | 9.3 | 16.8 | 9.2 |
| | 95 | 35.0 | 12.5 | 8.7 | 12.7 | 8.8 | 13.7 | 8.9 | 14.0 | 8.9 | 14.6 | 9.3 | 15.7 | 9.3 | 16.7 | 9.1 |
| | 100 | 37.5 | 12.3 | 8.6 | 12.6 | 8.8 | 13.4 | 8.8 | 13.8 | 8.8 | 14.5 | 9.2 | 15.5 | 9.2 | 16.5 | 9.1 |
| | 104 | 40.0 | 12.1 | 8.5 | 12.4 | 8.7 | 13.4 | 8.7 | 13.6 | 8.7 | 14.3 | 9.2 | 15.4 | 9.1 | 16.4 | 9.0 |
| 110 | 43.0 | 12.0 | 8.5 | 12.3 | 8.6 | 13.2 | 8.6 | 13.4 | 8.7 | 14.1 | 9.1 | 15.1 | 9.0 | 16.2 | 9.0 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VCM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PLFY-P-VAM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.5 | 4.4 | 4.3 | 4.2 |
| | 23 | -5.0 | 5.2 | 5.0 | 4.9 | 4.4 |
| | 32 | 0.0 | 5.8 | 5.7 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.0 | 6.0 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.5 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.7 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.0 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.3 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 7.3 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 5.3 | 5.1 | 5.1 | 5.0 |
| | 5 | -15.0 | 6.3 | 6.1 | 6.0 | 5.8 |
| | 14 | -10.0 | 7.2 | 7.0 | 6.8 | 6.6 |
| | 23 | -5.0 | 8.2 | 8.0 | 7.7 | 7.1 |
| | 32 | 0.0 | 9.2 | 9.0 | 8.0 | 7.1 |
| | 37 | 2.5 | 9.6 | 9.5 | 8.0 | 7.1 |
| | 43 | 6.0 | 10.3 | 10.0 | 8.0 | 7.1 |
| | 46 | 7.5 | 10.6 | 10.0 | 8.0 | 7.1 |
| | 50 | 10.0 | 11.1 | 10.0 | 8.0 | 7.1 |
| | 55 | 12.5 | 11.6 | 10.0 | 8.0 | 7.1 |
| 60 | 15.5 | 11.6 | 10.0 | 8.0 | 7.1 | |
| 100 (11.2) | -4 | -20.0 | 6.6 | 6.4 | 6.4 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.3 |
| | 14 | -10.0 | 9.0 | 8.8 | 8.5 | 8.3 |
| | 23 | -5.0 | 10.3 | 10.0 | 9.6 | 8.8 |
| | 32 | 0.0 | 11.5 | 11.3 | 9.9 | 8.8 |
| | 37 | 2.5 | 12.0 | 11.9 | 9.9 | 8.8 |
| | 43 | 6.0 | 12.9 | 12.5 | 9.9 | 8.8 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.9 | 8.8 |
| | 50 | 10.0 | 13.9 | 12.5 | 9.9 | 8.8 |
| | 55 | 12.5 | 14.5 | 12.5 | 9.9 | 8.8 |
| 60 | 15.5 | 14.5 | 12.5 | 9.9 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.5 | 8.2 | 8.2 | 8.0 |
| | 5 | -15.0 | 10.0 | 9.7 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.5 | 11.2 | 10.9 | 10.6 |
| | 23 | -5.0 | 13.1 | 12.8 | 12.3 | 11.3 |
| | 32 | 0.0 | 14.7 | 14.4 | 12.7 | 11.3 |
| | 37 | 2.5 | 15.4 | 15.2 | 12.7 | 11.3 |
| | 43 | 6.0 | 16.5 | 16.0 | 12.7 | 11.3 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.7 | 11.3 |
| | 50 | 10.0 | 17.8 | 16.0 | 12.7 | 11.3 |
| | 55 | 12.5 | 18.6 | 16.0 | 12.7 | 11.3 |
| 60 | 15.5 | 18.6 | 16.0 | 12.7 | 11.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PLFY-P-VCM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|--------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|
| | | | 71°FDB / 59°FWB 21.5°CDB / 15°CWB | | 73°FDB / 61°FWB 23°CDB / 16°CWB | | 77°FDB / 64°FWB 25°CDB / 18°CWB | | 81°FDB / 66°FWB 27°CDB / 19°CWB | | 82°FDB / 68°FWB 28°CDB / 20°CWB | | 86°FDB / 72°FWB 30°CDB / 22°CWB | | 90°FDB / 75°FWB 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 1.9 |
| | 68 | 20.0 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 86 | 30.0 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.7 | 1.6 | 1.8 | 1.7 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 |
| | 113 | 45.0 | 1.6 | 1.6 | 1.7 | 1.6 | 1.8 | 1.6 | 1.9 | 1.7 | 1.9 | 1.8 | 2.0 | 1.7 | 2.2 | 1.7 |
| 25 (2.8) | 50 | 10.0 | 2.8 | 2.2 | 2.9 | 2.3 | 3.1 | 2.3 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.7 | 2.3 |
| | 68 | 20.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 104 | 40.0 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 |
| | 113 | 45.0 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.7 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.7 | 2.8 |
| | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.7 | 4.0 | 2.8 | 4.2 | 2.8 | 4.5 | 2.7 |
| | 86 | 30.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.7 | 3.9 | 2.7 | 4.2 | 2.6 |
| | 104 | 40.0 | 2.9 | 2.3 | 3.0 | 2.4 | 3.2 | 2.4 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.5 | 3.8 | 2.5 |
| | 113 | 45.0 | 2.7 | 2.2 | 2.8 | 2.3 | 3.0 | 2.3 | 3.0 | 2.4 | 3.1 | 2.5 | 3.3 | 2.4 | 3.5 | 2.4 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.1 | 4.6 | 3.2 | 4.9 | 3.2 | 5.1 | 3.3 | 5.2 | 3.4 | 5.6 | 3.3 | 5.9 | 3.3 |
| | 68 | 20.0 | 4.2 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.8 | 3.1 | 5.0 | 3.2 | 5.3 | 3.2 | 5.6 | 3.1 |
| | 86 | 30.0 | 3.9 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 |
| | 104 | 40.0 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.7 | 2.8 |
| | 113 | 45.0 | 3.3 | 2.6 | 3.5 | 2.7 | 3.7 | 2.6 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 2.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PLFY-P-VAM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.9 | 3.7 | 3.0 | 3.9 | 3.0 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.0 |
| | 68 | 20.0 | 3.4 | 2.8 | 3.5 | 2.9 | 3.7 | 2.9 | 3.9 | 2.9 | 4.0 | 3.1 | 4.2 | 3.0 | 4.5 | 3.0 |
| | 86 | 30.0 | 3.2 | 2.7 | 3.3 | 2.8 | 3.5 | 2.8 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 2.9 | 4.2 | 2.9 |
| | 104 | 40.0 | 2.9 | 2.5 | 3.0 | 2.6 | 3.2 | 2.6 | 3.3 | 2.7 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.7 |
| | 113 | 45.0 | 2.7 | 2.5 | 2.8 | 2.6 | 3.0 | 2.5 | 3.0 | 2.6 | 3.1 | 2.7 | 3.3 | 2.7 | 3.5 | 2.7 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.6 | 4.6 | 3.7 | 4.9 | 3.7 | 5.1 | 3.7 | 5.2 | 3.9 | 5.6 | 3.8 | 5.9 | 3.8 |
| | 68 | 20.0 | 4.2 | 3.4 | 4.4 | 3.6 | 4.7 | 3.6 | 4.8 | 3.6 | 5.0 | 3.8 | 5.3 | 3.7 | 5.6 | 3.7 |
| | 86 | 30.0 | 3.9 | 3.3 | 4.1 | 3.4 | 4.4 | 3.4 | 4.5 | 3.5 | 4.6 | 3.6 | 4.9 | 3.6 | 5.2 | 3.5 |
| | 104 | 40.0 | 3.6 | 3.1 | 3.7 | 3.3 | 3.9 | 3.2 | 4.1 | 3.3 | 4.2 | 3.5 | 4.5 | 3.4 | 4.7 | 3.4 |
| | 113 | 45.0 | 3.3 | 3.0 | 3.5 | 3.2 | 3.7 | 3.1 | 3.8 | 3.2 | 3.9 | 3.4 | 4.2 | 3.3 | 4.4 | 3.3 |
| 50 (5.6) | 50 | 10.0 | 5.5 | 4.1 | 5.7 | 4.3 | 6.1 | 4.2 | 6.3 | 4.3 | 6.5 | 4.5 | 6.9 | 4.4 | 7.3 | 4.3 |
| | 68 | 20.0 | 5.3 | 4.0 | 5.4 | 4.1 | 5.8 | 4.1 | 6.0 | 4.2 | 6.2 | 4.3 | 6.6 | 4.3 | 6.9 | 4.2 |
| | 86 | 30.0 | 4.9 | 3.8 | 5.1 | 3.9 | 5.4 | 3.9 | 5.6 | 4.0 | 5.8 | 4.1 | 6.1 | 4.1 | 6.5 | 4.0 |
| | 104 | 40.0 | 4.4 | 3.6 | 4.6 | 3.7 | 4.9 | 3.7 | 5.1 | 3.8 | 5.2 | 3.9 | 5.5 | 3.9 | 5.9 | 3.8 |
| | 113 | 45.0 | 4.2 | 3.5 | 4.3 | 3.6 | 4.6 | 3.6 | 4.7 | 3.6 | 4.9 | 3.8 | 5.2 | 3.7 | 5.5 | 3.7 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 5.2 | 7.3 | 5.3 | 7.8 | 5.3 | 8.0 | 5.4 | 8.3 | 5.6 | 8.8 | 5.5 | 9.3 | 5.4 |
| | 68 | 20.0 | 6.7 | 5.0 | 6.9 | 5.1 | 7.4 | 5.1 | 7.6 | 5.2 | 7.8 | 5.4 | 8.3 | 5.3 | 8.8 | 5.2 |
| | 86 | 30.0 | 6.2 | 4.8 | 6.4 | 4.9 | 6.9 | 4.9 | 7.1 | 5.0 | 7.3 | 5.2 | 7.8 | 5.1 | 8.2 | 5.0 |
| | 104 | 40.0 | 5.6 | 4.5 | 5.8 | 4.6 | 6.2 | 4.6 | 6.4 | 4.7 | 6.6 | 4.9 | 7.0 | 4.8 | 7.4 | 4.8 |
| | 113 | 45.0 | 5.3 | 4.3 | 5.4 | 4.5 | 5.8 | 4.4 | 6.0 | 4.5 | 6.2 | 4.7 | 6.6 | 4.7 | 6.9 | 4.6 |
| 80 (9.0) | 50 | 10.0 | 8.9 | 6.4 | 9.2 | 6.6 | 9.9 | 6.6 | 10.2 | 6.7 | 10.5 | 6.9 | 11.1 | 6.8 | 11.8 | 6.7 |
| | 68 | 20.0 | 8.5 | 6.2 | 8.8 | 6.4 | 9.3 | 6.3 | 9.6 | 6.4 | 9.9 | 6.7 | 10.5 | 6.6 | 11.2 | 6.5 |
| | 86 | 30.0 | 7.9 | 5.9 | 8.2 | 6.1 | 8.7 | 6.0 | 9.0 | 6.1 | 9.3 | 6.4 | 9.8 | 6.3 | 10.4 | 6.2 |
| | 104 | 40.0 | 7.1 | 5.5 | 7.4 | 5.7 | 7.9 | 5.7 | 8.1 | 5.8 | 8.4 | 6.0 | 8.9 | 5.9 | 9.4 | 5.8 |
| | 113 | 45.0 | 6.7 | 5.3 | 6.9 | 5.5 | 7.4 | 5.5 | 7.6 | 5.6 | 7.9 | 5.8 | 8.3 | 5.7 | 8.8 | 5.6 |
| 100 (11.2) | 50 | 10.0 | 11.1 | 7.6 | 11.5 | 7.8 | 12.3 | 7.8 | 12.7 | 7.9 | 13.1 | 8.1 | 13.8 | 8.0 | 14.6 | 7.9 |
| | 68 | 20.0 | 10.5 | 7.3 | 10.9 | 7.5 | 11.6 | 7.5 | 12.0 | 7.6 | 12.4 | 7.8 | 13.1 | 7.7 | 13.9 | 7.6 |
| | 86 | 30.0 | 9.8 | 6.9 | 10.2 | 7.1 | 10.9 | 7.1 | 11.2 | 7.2 | 11.5 | 7.4 | 12.2 | 7.3 | 12.9 | 7.2 |
| | 104 | 40.0 | 8.9 | 6.5 | 9.2 | 6.7 | 9.8 | 6.6 | 10.1 | 6.7 | 10.5 | 7.0 | 11.1 | 6.9 | 11.7 | 6.8 |
| | 113 | 45.0 | 8.3 | 6.2 | 8.6 | 6.4 | 9.2 | 6.3 | 9.5 | 6.4 | 9.8 | 6.7 | 10.4 | 6.6 | 11.0 | 6.5 |
| 125 (14.0) | 50 | 10.0 | 13.9 | 9.5 | 14.4 | 9.7 | 15.3 | 9.7 | 15.8 | 9.8 | 16.3 | 10.1 | 17.3 | 10.0 | 18.3 | 9.8 |
| | 68 | 20.0 | 13.1 | 9.1 | 13.6 | 9.3 | 14.5 | 9.3 | 15.0 | 9.4 | 15.5 | 9.7 | 16.4 | 9.6 | 17.3 | 9.4 |
| | 86 | 30.0 | 12.3 | 8.6 | 12.7 | 8.9 | 13.6 | 8.8 | 14.0 | 8.9 | 14.4 | 9.2 | 15.3 | 9.1 | 16.2 | 8.9 |
| | 104 | 40.0 | 11.1 | 8.0 | 11.5 | 8.2 | 12.3 | 8.2 | 12.7 | 8.3 | 13.1 | 8.6 | 13.8 | 8.5 | 14.6 | 8.3 |
| | 113 | 45.0 | 10.4 | 7.6 | 10.7 | 7.9 | 11.5 | 7.8 | 11.8 | 7.9 | 12.2 | 8.2 | 12.9 | 8.1 | 13.7 | 8.0 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PLFY-P-VCM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °F | °C | SHC | SHC | SHC | SHC | SHC |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |

- A
- B
- C
- D
- E
- F
- G**
- H
- I
- J
- V_a
- V_b
- BC

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PLFY-P-VAM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °F | °C | SHC | SHC | SHC | SHC | SHC |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 50 (5.6) | 50 | 10 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 68 | 20 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 86 | 30 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 104 | 40 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 113 | 45 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| 80 (9.0) | 50 | 10 | 7.9 | 7.9 | 7.9 | 6.7 | 6.1 |
| | 68 | 20 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 86 | 30 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 104 | 40 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| | 113 | 45 | 10.0 | 10.0 | 10.0 | 8.5 | 7.7 |
| 100 (11.2) | 50 | 10 | 9.9 | 9.9 | 9.9 | 8.4 | 7.7 |
| | 68 | 20 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 86 | 30 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 104 | 40 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 113 | 45 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| 125 (14.0) | 50 | 10 | 12.7 | 12.7 | 12.7 | 10.7 | 9.8 |
| | 68 | 20 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 86 | 30 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 104 | 40 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 113 | 45 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VCM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 1.9 |
| | 73 | 22.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.7 | 1.9 |
| | 77 | 25.0 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 82 | 27.5 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 86 | 30.0 | 2.0 | 1.7 | 2.0 | 1.7 | 2.2 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | 2.6 | 1.9 |
| | 91 | 32.5 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.6 | 1.8 |
| | 95 | 35.0 | 1.9 | 1.6 | 2.0 | 1.7 | 2.1 | 1.7 | 2.2 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 100 | 37.5 | 1.9 | 1.6 | 1.9 | 1.6 | 2.1 | 1.7 | 2.1 | 1.8 | 2.2 | 1.8 | 2.4 | 1.8 | 2.5 | 1.8 |
| | 104 | 40.0 | 1.8 | 1.5 | 1.9 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 |
| 110 | 43.0 | 1.8 | 1.5 | 1.8 | 1.6 | 2.0 | 1.6 | 2.1 | 1.7 | 2.1 | 1.7 | 2.3 | 1.7 | 2.4 | 1.8 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 |
| | 73 | 22.5 | 2.6 | 2.1 | 2.7 | 2.1 | 2.9 | 2.1 | 3.0 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 |
| | 77 | 25.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.2 |
| | 82 | 27.5 | 2.6 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 91 | 32.5 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 95 | 35.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| | 100 | 37.5 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| | 104 | 40.0 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 |
| 110 | 43.0 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.9 | 2.8 | 4.0 | 2.8 | 4.2 | 2.8 | 4.4 | 2.7 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.7 | 2.6 | 3.8 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 | 4.3 | 2.7 |
| | 77 | 25.0 | 3.3 | 2.5 | 3.4 | 2.5 | 3.7 | 2.6 | 3.8 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 | 4.3 | 2.7 |
| | 82 | 27.5 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.3 | 2.6 |
| | 86 | 30.0 | 3.2 | 2.4 | 3.3 | 2.5 | 3.6 | 2.5 | 3.7 | 2.6 | 3.8 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 |
| | 91 | 32.5 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 |
| | 95 | 35.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.5 | 2.4 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 100 | 37.5 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.4 | 3.5 | 2.5 | 3.6 | 2.5 | 3.9 | 2.6 | 4.1 | 2.5 |
| | 104 | 40.0 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.5 | 3.6 | 2.5 | 3.8 | 2.5 | 4.1 | 2.5 |
| 110 | 43.0 | 2.9 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 4.0 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 2.9 | 4.4 | 3.0 | 4.7 | 3.0 | 4.8 | 3.2 | 5.0 | 3.2 | 5.2 | 3.2 | 5.5 | 3.1 |
| | 73 | 22.5 | 4.2 | 2.9 | 4.4 | 3.0 | 4.6 | 3.0 | 4.8 | 3.2 | 4.9 | 3.2 | 5.2 | 3.1 | 5.4 | 3.1 |
| | 77 | 25.0 | 4.2 | 2.8 | 4.3 | 2.9 | 4.6 | 2.9 | 4.7 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 | 5.4 | 3.0 |
| | 82 | 27.5 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 | 5.3 | 3.0 |
| | 86 | 30.0 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 3.0 | 4.7 | 3.0 | 5.0 | 3.0 | 5.3 | 3.0 |
| | 91 | 32.5 | 4.0 | 2.7 | 4.1 | 2.8 | 4.4 | 2.8 | 4.5 | 3.0 | 4.7 | 3.0 | 4.9 | 3.0 | 5.2 | 2.9 |
| | 95 | 35.0 | 3.9 | 2.7 | 4.0 | 2.8 | 4.3 | 2.8 | 4.5 | 3.0 | 4.6 | 3.0 | 4.9 | 2.9 | 5.2 | 2.9 |
| | 100 | 37.5 | 3.8 | 2.6 | 3.9 | 2.7 | 4.2 | 2.7 | 4.4 | 2.9 | 4.5 | 2.9 | 4.8 | 2.9 | 5.1 | 2.9 |
| | 104 | 40.0 | 3.7 | 2.5 | 3.9 | 2.6 | 4.2 | 2.7 | 4.3 | 2.9 | 4.5 | 2.9 | 4.8 | 2.9 | 5.1 | 2.9 |
| 110 | 43.0 | 3.6 | 2.5 | 3.8 | 2.6 | 4.1 | 2.6 | 4.2 | 2.8 | 4.4 | 2.8 | 4.7 | 2.8 | 5.0 | 2.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VAM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.8 | 3.5 | 2.8 | 3.7 | 2.9 | 3.9 | 3.0 | 4.0 | 3.0 | 4.2 | 3.0 | 4.4 | 3.0 |
| | 73 | 22.5 | 3.4 | 2.7 | 3.5 | 2.8 | 3.7 | 2.8 | 3.8 | 3.0 | 3.9 | 3.0 | 4.1 | 3.0 | 4.3 | 3.0 |
| | 77 | 25.0 | 3.3 | 2.7 | 3.4 | 2.8 | 3.7 | 2.8 | 3.8 | 3.0 | 3.9 | 3.0 | 4.1 | 3.0 | 4.3 | 2.9 |
| | 82 | 27.5 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.8 | 3.7 | 2.9 | 3.8 | 2.9 | 4.0 | 2.9 | 4.3 | 2.9 |
| | 86 | 30.0 | 3.2 | 2.6 | 3.3 | 2.7 | 3.6 | 2.7 | 3.7 | 2.9 | 3.8 | 2.9 | 4.0 | 2.9 | 4.2 | 2.9 |
| | 91 | 32.5 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.7 | 3.6 | 2.8 | 3.7 | 2.9 | 4.0 | 2.9 | 4.2 | 2.9 |
| | 95 | 35.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.5 | 2.6 | 3.6 | 2.8 | 3.7 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 |
| | 100 | 37.5 | 3.0 | 2.4 | 3.2 | 2.5 | 3.4 | 2.6 | 3.5 | 2.8 | 3.6 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 |
| | 104 | 40.0 | 3.0 | 2.4 | 3.1 | 2.5 | 3.3 | 2.6 | 3.5 | 2.7 | 3.6 | 2.7 | 3.8 | 2.8 | 4.1 | 2.8 |
| 110 | 43.0 | 2.9 | 2.3 | 3.0 | 2.4 | 3.3 | 2.5 | 3.4 | 2.7 | 3.5 | 2.7 | 3.7 | 2.7 | 4.0 | 2.7 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.4 | 4.4 | 3.5 | 4.7 | 3.5 | 4.8 | 3.7 | 5.0 | 3.7 | 5.2 | 3.7 | 5.5 | 3.7 |
| | 73 | 22.5 | 4.2 | 3.4 | 4.4 | 3.5 | 4.6 | 3.5 | 4.8 | 3.7 | 4.9 | 3.7 | 5.2 | 3.7 | 5.4 | 3.7 |
| | 77 | 25.0 | 4.2 | 3.3 | 4.3 | 3.4 | 4.6 | 3.5 | 4.7 | 3.7 | 4.8 | 3.7 | 5.1 | 3.7 | 5.4 | 3.6 |
| | 82 | 27.5 | 4.1 | 3.3 | 4.2 | 3.4 | 4.5 | 3.4 | 4.6 | 3.6 | 4.8 | 3.6 | 5.1 | 3.6 | 5.3 | 3.6 |
| | 86 | 30.0 | 4.1 | 3.2 | 4.2 | 3.3 | 4.5 | 3.4 | 4.6 | 3.6 | 4.7 | 3.6 | 5.0 | 3.6 | 5.3 | 3.6 |
| | 91 | 32.5 | 4.0 | 3.2 | 4.1 | 3.3 | 4.4 | 3.3 | 4.5 | 3.5 | 4.7 | 3.5 | 4.9 | 3.5 | 5.2 | 3.5 |
| | 95 | 35.0 | 3.9 | 3.1 | 4.0 | 3.2 | 4.3 | 3.3 | 4.5 | 3.5 | 4.6 | 3.5 | 4.9 | 3.5 | 5.2 | 3.5 |
| | 100 | 37.5 | 3.8 | 3.0 | 3.9 | 3.1 | 4.2 | 3.2 | 4.4 | 3.4 | 4.5 | 3.4 | 4.8 | 3.5 | 5.1 | 3.5 |
| | 104 | 40.0 | 3.7 | 3.0 | 3.9 | 3.1 | 4.2 | 3.2 | 4.3 | 3.4 | 4.5 | 3.4 | 4.8 | 3.4 | 5.1 | 3.4 |
| 110 | 43.0 | 3.6 | 2.9 | 3.8 | 3.0 | 4.1 | 3.1 | 4.2 | 3.3 | 4.4 | 3.3 | 4.7 | 3.4 | 5.0 | 3.4 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.9 | 5.5 | 4.0 | 5.8 | 4.0 | 6.0 | 4.3 | 6.2 | 4.3 | 6.5 | 4.2 | 6.8 | 4.2 |
| | 73 | 22.5 | 5.3 | 3.8 | 5.4 | 4.0 | 5.8 | 4.0 | 5.9 | 4.2 | 6.1 | 4.2 | 6.4 | 4.2 | 6.8 | 4.1 |
| | 77 | 25.0 | 5.2 | 3.8 | 5.3 | 3.9 | 5.7 | 3.9 | 5.9 | 4.2 | 6.0 | 4.2 | 6.4 | 4.1 | 6.7 | 4.1 |
| | 82 | 27.5 | 5.1 | 3.7 | 5.3 | 3.9 | 5.6 | 3.9 | 5.8 | 4.1 | 6.0 | 4.1 | 6.3 | 4.1 | 6.6 | 4.0 |
| | 86 | 30.0 | 5.0 | 3.7 | 5.2 | 3.8 | 5.5 | 3.8 | 5.7 | 4.1 | 5.9 | 4.1 | 6.2 | 4.0 | 6.6 | 4.0 |
| | 91 | 32.5 | 4.9 | 3.6 | 5.1 | 3.7 | 5.5 | 3.8 | 5.6 | 4.0 | 5.8 | 4.0 | 6.1 | 4.0 | 6.5 | 4.0 |
| | 95 | 35.0 | 4.8 | 3.5 | 5.0 | 3.7 | 5.4 | 3.7 | 5.5 | 3.9 | 5.7 | 4.0 | 6.1 | 4.0 | 6.4 | 3.9 |
| | 100 | 37.5 | 4.7 | 3.5 | 4.9 | 3.6 | 5.3 | 3.6 | 5.5 | 3.9 | 5.6 | 3.9 | 6.0 | 3.9 | 6.4 | 3.9 |
| | 104 | 40.0 | 4.6 | 3.4 | 4.8 | 3.5 | 5.2 | 3.6 | 5.4 | 3.8 | 5.6 | 3.8 | 5.9 | 3.9 | 6.3 | 3.9 |
| 110 | 43.0 | 4.5 | 3.3 | 4.7 | 3.4 | 5.1 | 3.5 | 5.3 | 3.7 | 5.5 | 3.8 | 5.8 | 3.8 | 6.2 | 3.8 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.9 | 7.0 | 5.0 | 7.4 | 5.0 | 7.6 | 5.3 | 7.8 | 5.3 | 8.2 | 5.3 | 8.7 | 5.2 |
| | 73 | 22.5 | 6.7 | 4.8 | 6.9 | 5.0 | 7.3 | 5.0 | 7.5 | 5.3 | 7.7 | 5.3 | 8.1 | 5.2 | 8.6 | 5.2 |
| | 77 | 25.0 | 6.6 | 4.7 | 6.8 | 4.9 | 7.2 | 4.9 | 7.4 | 5.2 | 7.6 | 5.2 | 8.1 | 5.2 | 8.5 | 5.1 |
| | 82 | 27.5 | 6.5 | 4.7 | 6.7 | 4.8 | 7.1 | 4.9 | 7.3 | 5.1 | 7.5 | 5.1 | 8.0 | 5.1 | 8.4 | 5.1 |
| | 86 | 30.0 | 6.4 | 4.6 | 6.6 | 4.8 | 7.0 | 4.8 | 7.2 | 5.1 | 7.5 | 5.1 | 7.9 | 5.1 | 8.3 | 5.0 |
| | 91 | 32.5 | 6.3 | 4.5 | 6.5 | 4.7 | 6.9 | 4.7 | 7.1 | 5.0 | 7.4 | 5.0 | 7.8 | 5.0 | 8.2 | 5.0 |
| | 95 | 35.0 | 6.1 | 4.4 | 6.4 | 4.6 | 6.8 | 4.6 | 7.0 | 4.9 | 7.3 | 4.9 | 7.7 | 4.9 | 8.2 | 4.9 |
| | 100 | 37.5 | 6.0 | 4.3 | 6.2 | 4.5 | 6.7 | 4.6 | 6.9 | 4.9 | 7.2 | 4.9 | 7.6 | 4.9 | 8.1 | 4.9 |
| | 104 | 40.0 | 5.9 | 4.2 | 6.1 | 4.4 | 6.6 | 4.5 | 6.8 | 4.8 | 7.1 | 4.8 | 7.5 | 4.8 | 8.0 | 4.8 |
| 110 | 43.0 | 5.7 | 4.1 | 6.0 | 4.3 | 6.4 | 4.4 | 6.7 | 4.7 | 6.9 | 4.7 | 7.4 | 4.7 | 7.9 | 4.7 | |
| 80 (9.0) | 68 | 20.0 | 8.6 | 6.0 | 8.8 | 6.2 | 9.4 | 6.2 | 9.6 | 6.6 | 9.9 | 6.6 | 10.4 | 6.5 | 11.0 | 6.4 |
| | 73 | 22.5 | 8.4 | 5.9 | 8.7 | 6.1 | 9.2 | 6.1 | 9.5 | 6.5 | 9.8 | 6.5 | 10.3 | 6.4 | 10.9 | 6.3 |
| | 77 | 25.0 | 8.3 | 5.8 | 8.6 | 6.0 | 9.1 | 6.0 | 9.4 | 6.4 | 9.7 | 6.4 | 10.2 | 6.4 | 10.8 | 6.3 |
| | 82 | 27.5 | 8.2 | 5.8 | 8.5 | 6.0 | 9.0 | 6.0 | 9.3 | 6.3 | 9.6 | 6.3 | 10.1 | 6.3 | 10.6 | 6.2 |
| | 86 | 30.0 | 8.1 | 5.7 | 8.4 | 5.9 | 8.9 | 5.9 | 9.2 | 6.3 | 9.5 | 6.3 | 10.0 | 6.2 | 10.5 | 6.1 |
| | 91 | 32.5 | 7.9 | 5.6 | 8.2 | 5.8 | 8.8 | 5.8 | 9.0 | 6.2 | 9.3 | 6.2 | 9.9 | 6.1 | 10.4 | 6.1 |
| | 95 | 35.0 | 7.8 | 5.5 | 8.1 | 5.7 | 8.6 | 5.7 | 8.9 | 6.1 | 9.2 | 6.1 | 9.8 | 6.1 | 10.3 | 6.0 |
| | 100 | 37.5 | 7.6 | 5.3 | 7.9 | 5.5 | 8.5 | 5.6 | 8.8 | 6.0 | 9.1 | 6.0 | 9.7 | 6.0 | 10.2 | 6.0 |
| | 104 | 40.0 | 7.4 | 5.2 | 7.7 | 5.4 | 8.3 | 5.5 | 8.6 | 5.9 | 8.9 | 5.9 | 9.5 | 5.9 | 10.1 | 5.9 |
| 110 | 43.0 | 7.3 | 5.1 | 7.6 | 5.3 | 8.2 | 5.4 | 8.5 | 5.8 | 8.8 | 5.8 | 9.4 | 5.8 | 10.0 | 5.8 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.0 | 11.0 | 7.3 | 11.6 | 7.2 | 12.0 | 7.7 | 12.3 | 7.7 | 13.0 | 7.6 | 13.7 | 7.4 |
| | 73 | 22.5 | 10.5 | 7.0 | 10.8 | 7.2 | 11.5 | 7.2 | 11.8 | 7.6 | 12.2 | 7.6 | 12.9 | 7.5 | 13.5 | 7.3 |
| | 77 | 25.0 | 10.4 | 6.9 | 10.7 | 7.1 | 11.4 | 7.1 | 11.7 | 7.5 | 12.0 | 7.5 | 12.7 | 7.4 | 13.4 | 7.3 |
| | 82 | 27.5 | 10.2 | 6.8 | 10.6 | 7.0 | 11.2 | 7.0 | 11.6 | 7.4 | 11.9 | 7.4 | 12.6 | 7.3 | 13.2 | 7.2 |
| | 86 | 30.0 | 10.1 | 6.7 | 10.4 | 6.9 | 11.1 | 6.9 | 11.4 | 7.3 | 11.8 | 7.3 | 12.4 | 7.2 | 13.1 | 7.1 |
| | 91 | 32.5 | 9.9 | 6.5 | 10.2 | 6.8 | 10.9 | 6.8 | 11.3 | 7.2 | 11.6 | 7.2 | 12.3 | 7.2 | 13.0 | 7.0 |
| | 95 | 35.0 | 9.7 | 6.4 | 10.0 | 6.6 | 10.7 | 6.7 | 11.1 | 7.1 | 11.4 | 7.1 | 12.2 | 7.1 | 12.9 | 7.0 |
| | 100 | 37.5 | 9.5 | 6.3 | 9.8 | 6.5 | 10.6 | 6.6 | 10.9 | 7.0 | 11.3 | 7.0 | 12.0 | 7.0 | 12.7 | 6.9 |
| | 104 | 40.0 | 9.3 | 6.1 | 9.6 | 6.4 | 10.4 | 6.5 | 10.8 | 6.9 | 11.1 | 6.9 | 11.9 | 6.9 | 12.6 | 6.8 |
| 110 | 43.0 | 9.0 | 6.0 | 9.4 | 6.2 | 10.2 | 6.3 | 10.5 | 6.8 | 10.9 | 6.8 | 11.6 | 6.8 | 12.4 | 6.7 | |
| 125 (14.0) | 68 | 20.0 | 13.3 | 8.7 | 13.7 | 9.0 | 14.6 | 9.0 | 15.0 | 9.5 | 15.4 | 9.5 | 16.2 | 9.4 | 17.1 | 9.2 |
| | 73 | 22.5 | 13.1 | 8.6 | 13.5 | 8.9 | 14.4 | 8.9 | 14.8 | 9.4 | 15.2 | 9.4 | 16.1 | 9.3 | 16.9 | 9.1 |
| | 77 | 25.0 | 13.0 | 8.5 | 13.4 | 8.8 | 14.2 | 8.8 | 14.6 | 9.3 | 15.1 | 9.3 | 15.9 | 9.2 | 16.7 | 9.0 |
| | 82 | 27.5 | 12.8 | 8.4 | 13.2 | 8.7 | 14.0 | 8.6 | 14.5 | 9.2 | 14.9 | 9.2 | 15.7 | 9.1 | 16.6 | 8.9 |
| | 86 | 30.0 | 12.6 | 8.3 | 13.0 | 8.5 | 13.9 | 8.5 | 14.3 | 9.1 | 14.7 | 9.1 | 15.5 | 9.0 | 16.4 | 8.8 |
| | 91 | 32.5 | 12.3 | 8.1 | 12.8 | 8.4 | 13.6 | 8.4 | 14.1 | 8.9 | 14.5 | 8.9 | 15.4 | 8.9 | 16.2 | 8.7 |
| | 95 | 35.0 | 12.1 | 7.9 | 12.5 | 8.2 | 13.4 | 8.3 | 13.9 | 8.8 | 14.3 | 8.8 | 15.2 | 8.7 | 16.1 | 8.6 |
| | 100 | 37.5 | 11.8 | 7.8 | 12.3 | 8.1 | 13.2 | 8.1 | 13.7 | 8.7 | 14.1 | 8.7 | 15.0 | 8.6 | 15.9 | 8.5 |
| | 104 | 40.0 | 11.6 | 7.6 | 12.0 | 7.9 | 13.0 | 8.0 | 13.4 | 8.5 | 13.9 | 8.6 | 14.8 | 8.5 | 15.8 | 8.5 |
| 110 | 43.0 | 11.3 | 7.4 | 11.8 | 7.7 | 12.7 | 7.8 | 13.2 | 8.4 | 13.6 | 8.4 | 14.6 | 8.4 | 15.5 | 8.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VCM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| | 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| | 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| | 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| | 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 |

A
B
C
D
E
F
G
H
I
J
V_a
V_b
BC

2. CAPACITY TABLES

R410A Data G2

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PLFY-P-VAM-E

SHC : Sensible Heat Capacity(kW)

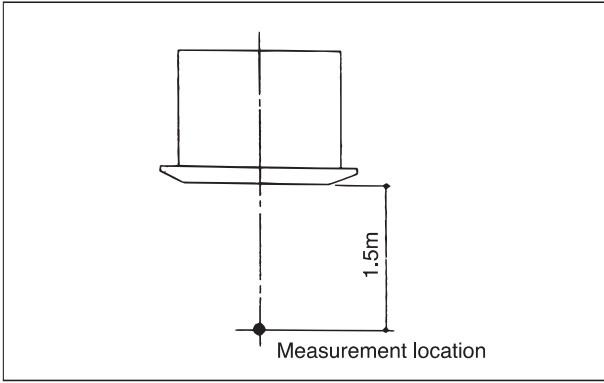
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |
| 50 (5.6) | -4 | -20.0 | 4.1 | 4.0 | 3.8 | 3.7 |
| | 5 | -15.0 | 4.4 | 4.2 | 4.1 | 4.0 |
| | 14 | -10.0 | 4.7 | 4.6 | 4.5 | 4.4 |
| | 23 | -5.0 | 5.4 | 5.2 | 5.0 | 4.9 |
| | 32 | 0.0 | 5.9 | 5.8 | 5.5 | 5.5 |
| | 37 | 2.5 | 6.2 | 6.0 | 5.9 | 5.8 |
| | 43 | 6.0 | 6.4 | 6.3 | 6.2 | 6.1 |
| | 46 | 7.5 | 6.8 | 6.7 | 6.2 | 6.1 |
| | 50 | 10.0 | 7.1 | 6.9 | 6.2 | 6.1 |
| | 55 | 12.5 | 7.4 | 7.2 | 6.2 | 6.1 |
| 60 | 15.5 | 7.6 | 7.2 | 6.2 | 6.1 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 80 (9.0) | -4 | -20.0 | 6.5 | 6.3 | 6.0 | 5.9 |
| | 5 | -15.0 | 7.0 | 6.7 | 6.5 | 6.4 |
| | 14 | -10.0 | 7.5 | 7.3 | 7.1 | 7.0 |
| | 23 | -5.0 | 8.5 | 8.3 | 7.9 | 7.8 |
| | 32 | 0.0 | 9.4 | 9.2 | 8.8 | 8.7 |
| | 37 | 2.5 | 9.9 | 9.6 | 9.3 | 9.2 |
| | 43 | 6.0 | 10.2 | 10.0 | 9.9 | 9.7 |
| | 46 | 7.5 | 10.8 | 10.6 | 9.9 | 9.7 |
| | 50 | 10.0 | 11.3 | 11.0 | 9.9 | 9.7 |
| | 55 | 12.5 | 11.8 | 11.5 | 9.9 | 9.7 |
| 60 | 15.5 | 12.1 | 11.5 | 9.9 | 9.7 | |
| 100 (11.2) | -4 | -20.0 | 8.1 | 7.9 | 7.5 | 7.4 |
| | 5 | -15.0 | 8.8 | 8.4 | 8.1 | 8.0 |
| | 14 | -10.0 | 9.4 | 9.1 | 8.9 | 8.8 |
| | 23 | -5.0 | 10.6 | 10.4 | 9.9 | 9.8 |
| | 32 | 0.0 | 11.8 | 11.5 | 11.0 | 10.9 |
| | 37 | 2.5 | 12.4 | 12.0 | 11.6 | 11.5 |
| | 43 | 6.0 | 12.8 | 12.5 | 12.4 | 12.1 |
| | 46 | 7.5 | 13.5 | 13.3 | 12.4 | 12.1 |
| | 50 | 10.0 | 14.1 | 13.8 | 12.4 | 12.1 |
| | 55 | 12.5 | 14.8 | 14.4 | 12.4 | 12.1 |
| 60 | 15.5 | 15.1 | 14.4 | 12.4 | 12.1 | |
| 125 (14.0) | -4 | -20.0 | 10.4 | 10.1 | 9.6 | 9.4 |
| | 5 | -15.0 | 11.2 | 10.7 | 10.4 | 10.2 |
| | 14 | -10.0 | 12.0 | 11.7 | 11.4 | 11.2 |
| | 23 | -5.0 | 13.6 | 13.3 | 12.6 | 12.5 |
| | 32 | 0.0 | 15.0 | 14.7 | 14.1 | 13.9 |
| | 37 | 2.5 | 15.8 | 15.4 | 14.9 | 14.7 |
| | 43 | 6.0 | 16.3 | 16.0 | 15.8 | 15.5 |
| | 46 | 7.5 | 17.3 | 17.0 | 15.8 | 15.5 |
| | 50 | 10.0 | 18.1 | 17.6 | 15.8 | 15.5 |
| | 55 | 12.5 | 18.9 | 18.4 | 15.8 | 15.5 |
| 60 | 15.5 | 19.4 | 18.4 | 15.8 | 15.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

3-1. Sound levels

PLFY-P-VCM-E,VAM-E



* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

| | Sound level dB (A) |
|---------------|--------------------|
| PLFY-P20VCM-E | 28-31-35 |
| PLFY-P25VCM-E | 28-31-37 |
| PLFY-P32VCM-E | 29-33-38 |
| PLFY-P40VCM-E | 30-34-39 |

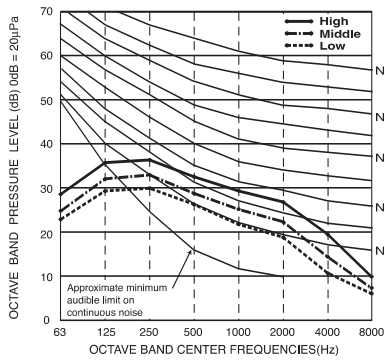
Sound level at anechoic room : Low-Mid-High

| | Sound level dB (A) |
|----------------|--------------------|
| PLFY-P32VAM-E | 27-28-29-31 |
| PLFY-P50VAM-E | 27-28-30-32 |
| PLFY-P40VAM-E | 28-29-31-33 |
| PLFY-P63VAM-E | 30-32-35-37 |
| PLFY-P80VAM-E | 33-36-39-41 |
| PLFY-P125VAM-E | 35-38-41-43 |

3-2. NC curves

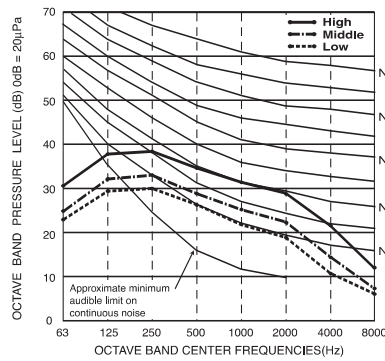
PLFY-P20VCM-E

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz



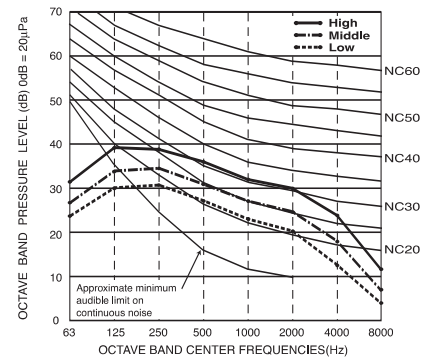
PLFY-P25VCM-E

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz



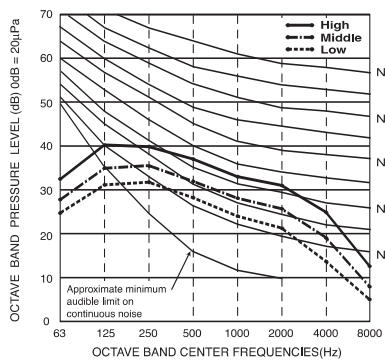
PLFY-P32VCM-E

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz



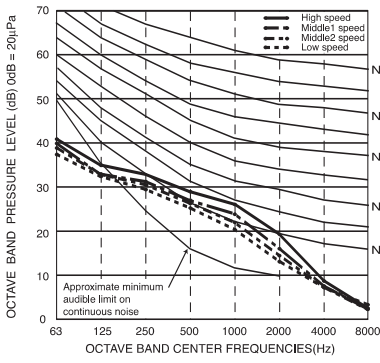
PLFY-P40VCM-E

External static pressure : 0Pa
Power source : 220,230,240V, 50Hz

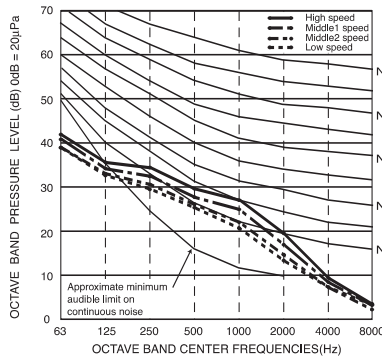


3-2. NC curves

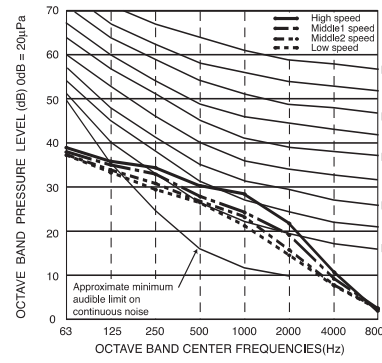
PLFY-P32VAM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



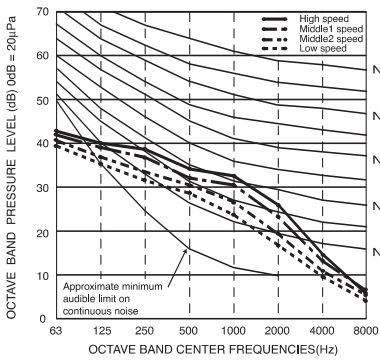
PLFY-P40,50VAM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



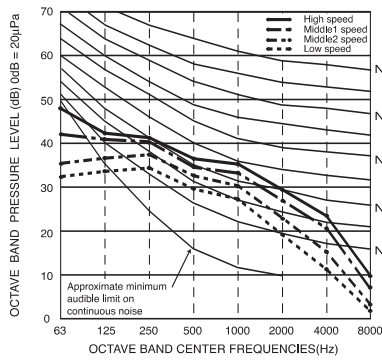
PLFY-P63VAM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



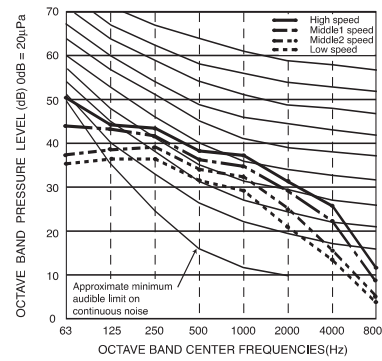
PLFY-P80VAM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



PLFY-P100VAM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz

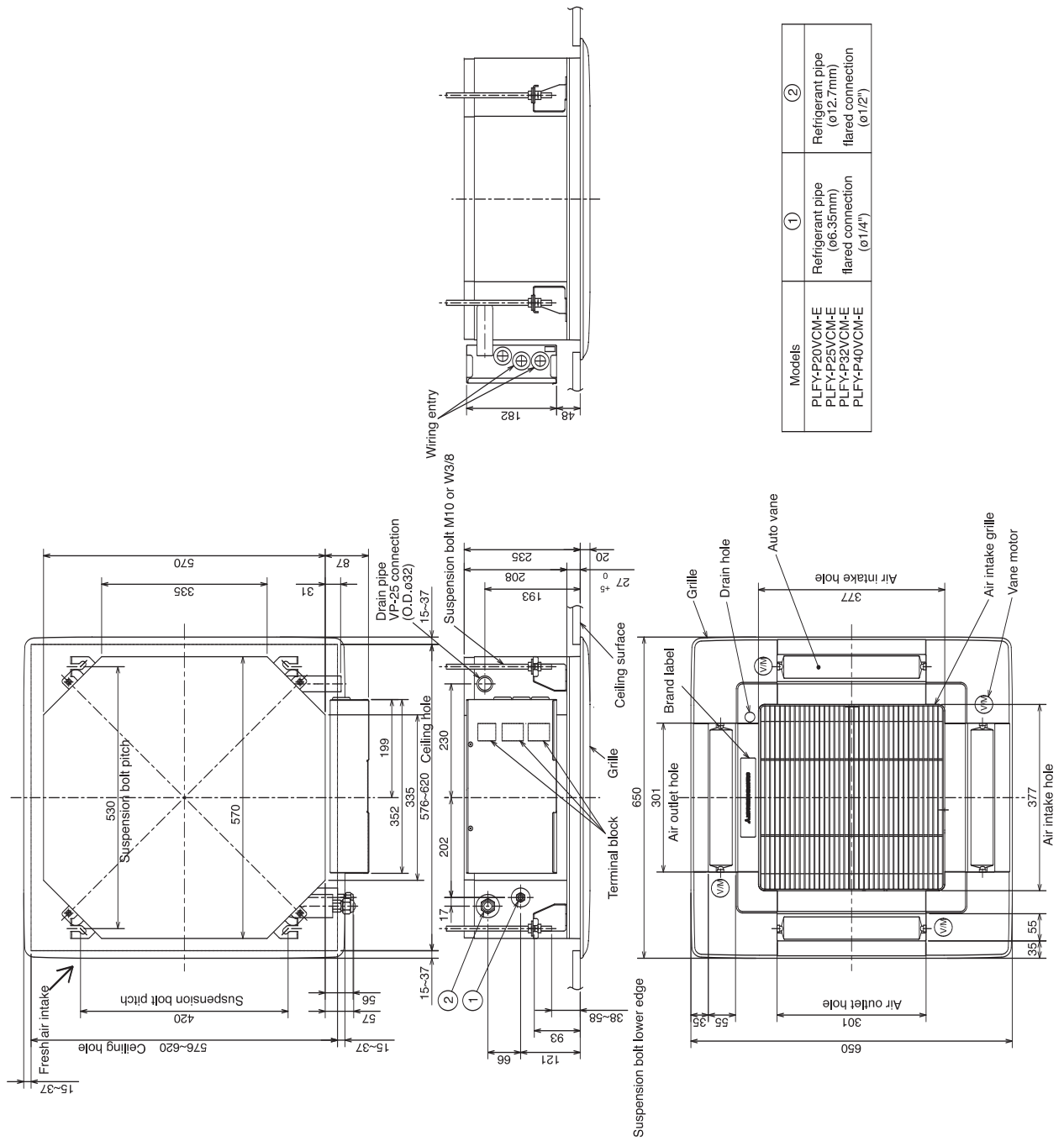


PLFY-P125VAM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz

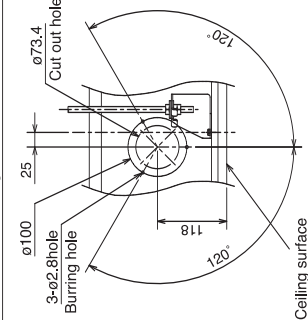


PLFY-P20,25,32,40VCM-E

Drw. : IU-RG01-N654
Unit : mm



Detail drawing of fresh air intake



*The fresh air intake hole flange should be supplied in the field.

A
B
C
D
E
F
G
H
I
J
V_A
V_B
BC

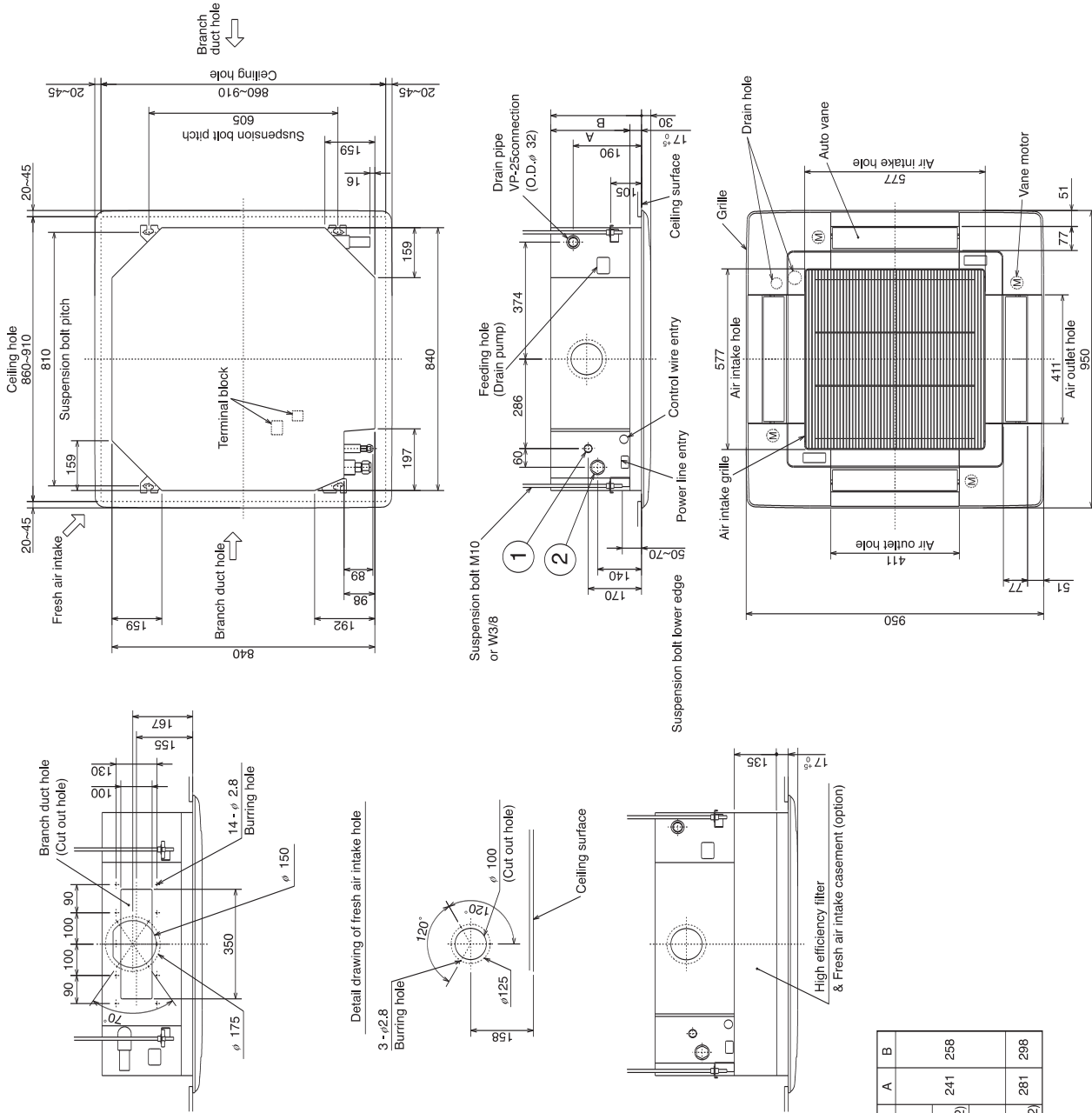
4. EXTERNAL DIMENSIONS

R410A Data G2

PLFY-P32,40,50,63,80,100,125VAM-E

Drw. : IU-RG01-N638

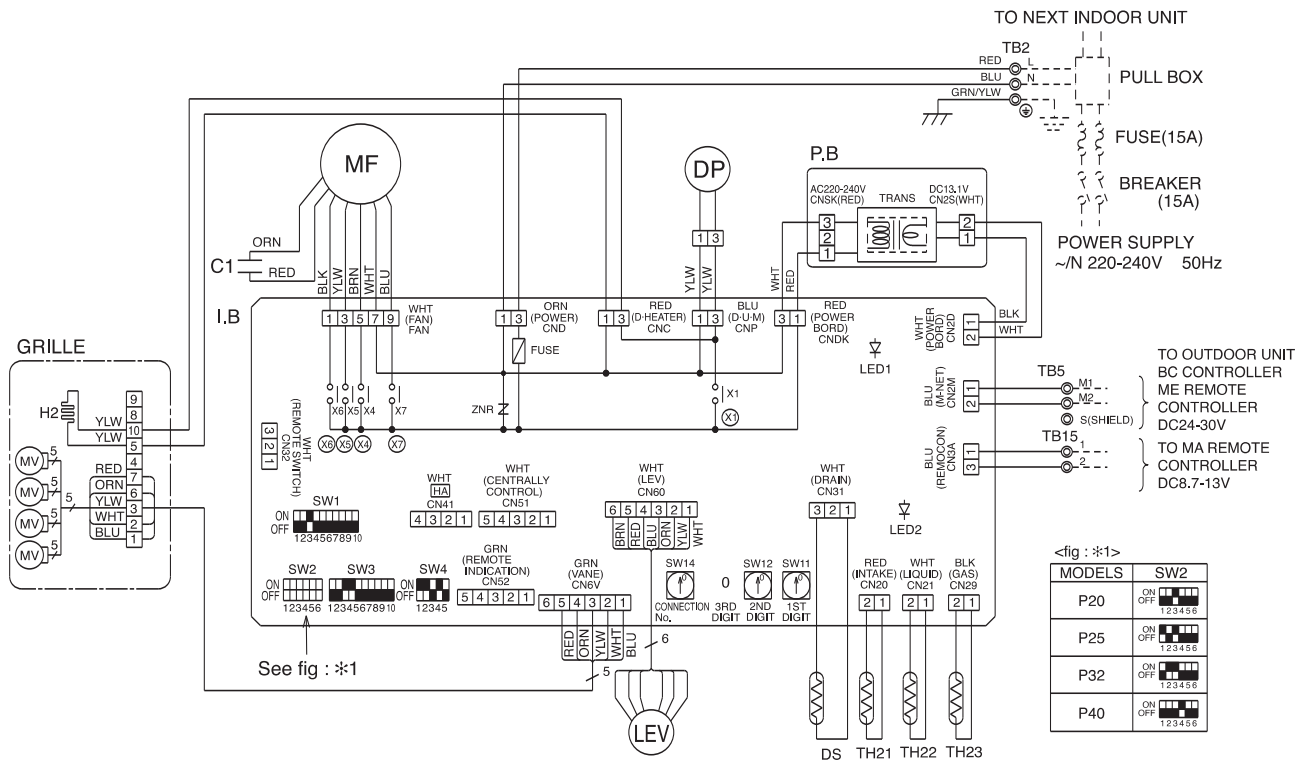
Unit : mm



| Models | ① Liquid Pipe | ② Gas Pipe | A | B |
|----------------|--------------------|---------------------|-----|-----|
| PLFY-P32VAM-E | φ 6.35 | φ 12.7 | 241 | 258 |
| PLFY-P40VAM-E | φ 6.35(R410A) | φ 12.7(R410A) | 241 | 258 |
| PLFY-P50VAM-E | φ 9.52(R407C, R22) | φ 15.88(R407C, R22) | | |
| PLFY-P63VAM-E | φ 9.52 | φ 15.88 | 281 | 298 |
| PLFY-P80VAM-E | φ 9.52 | φ 15.88(R410A) | 281 | 298 |
| PLFY-P100VAM-E | | φ 19.05(R407C, R22) | | |
| PLFY-P125VAM-E | | | | |

PLFY-P20,25,32,40VCM-E

Draw. : IU-RG79-N625



[LEGEND]

| SYMBOL | NAME | SYMBOL | NAME |
|--------|-------------------------|--------|--------------------------------|
| I.B | INDOOR CONTROLLER BOARD | C1 | CAPACITOR (FAN MOTOR) |
| CN32 | CONNECTOR | DP | DRAIN WATER LIFTING-UP MACHINE |
| CN41 | CONNECTOR | DS | DRAIN SENSOR |
| CN51 | CONNECTOR | H2 | DEW PREVENTION HEATER |
| CN52 | CONNECTOR | LEV | LINEAR EXPANSION VALVE |
| FUSE | FUSE (6.3A/250V) | MF | FAN MOTOR (WITH THERMAL FUSE) |
| SW1 | SWITCH | MV | VANE MOTOR |
| SW2 | SWITCH | TB2 | TERMINAL BLOCK |
| SW3 | SWITCH | TB5 | TERMINAL BLOCK |
| SW4 | SWITCH | TB15 | TERMINAL BLOCK |
| SW11 | SWITCH | TH21 | THERMISTOR |
| SW12 | SWITCH | TH22 | THERMISTOR |
| SW14 | SWITCH | TH23 | THERMISTOR |
| X1 | AUX. RELAY | P.B | INDOOR POWER BOARD |
| X4 | AUX. RELAY | | |
| X5 | AUX. RELAY | | |
| X6 | AUX. RELAY | | |
| X7 | AUX. RELAY | | |
| ZNR | VARIATOR | | |

Notes:

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol[S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are, ⊕ :terminal block, □ :connector.
- The setting of the SW2 dip switches differs in the capacity for the detail, refer to the fig : *1.

LED on indoor board for service

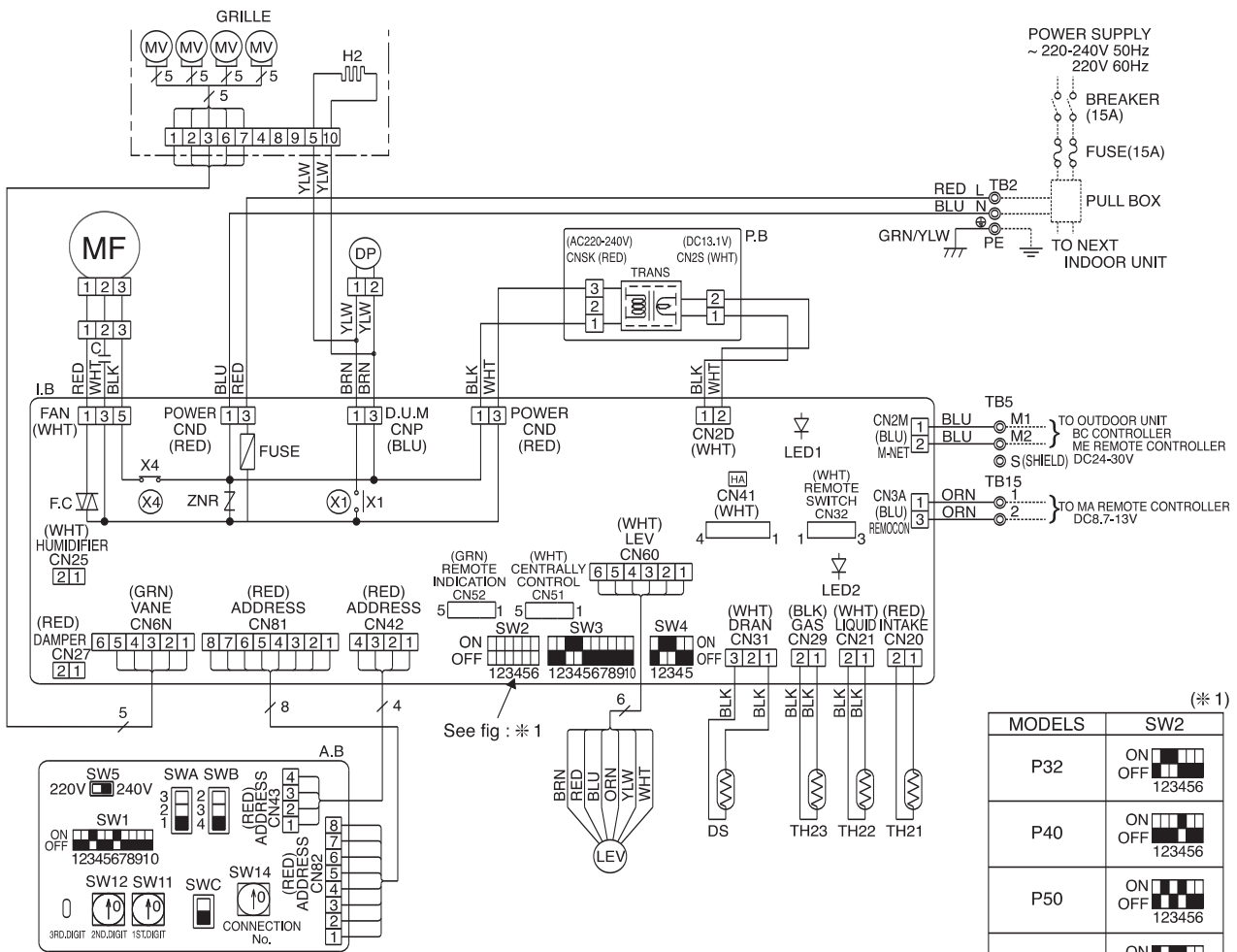
| Mark | Meaning | Function |
|------|---------------------------------------|--|
| LED1 | Main power supply | Main power supply(Indoor unit:220-240V) power on → lamp is lit |
| LED2 | Power supply for MA Remote controller | Power supply for MA Remote controller on → lamp is lit |

PLFY-P32,40,50,63,80,100,125VAM-E

Drw. : IU-RG79-A663

<SYMBOL EXPLANATION>

| SYMBOL | NAME | SYMBOL | NAME | SYMBOL | NAME | |
|--------|-------------------------|-------------------|------------------------------|---|---|-------------------------------------|
| P.B | INDOOR POWER BOARD | C | CAPACITOR(FAN MOTOR) | TH23 | THERMISTOR PIPE TEMPERATURE DETECTION / GAS (0°C/15k, 25°C/5.4k) | |
| I.B | INDOOR CONTROLLER BOARD | MF | FAN MOTOR(WITH INNER THERMO) | A.B | CIRCUIT BOARD | |
| CN25 | CONNECTOR | HUMIDIFIER | MV | VANE MOTOR | SW1 | MODE SELECTION |
| CN32 | | REMOTE SWITCH | DP | DRAIN WATER LIFTING-UP MACH | SW5 | VOLTAGE SELECTION |
| CN41 | | HA TERMINAL-A | DS | DRAIN SENSOR | SW11 | ADDRESS SETTING 1ST DIGIT |
| CN51 | | CENTRALLY CONTROL | H2 | DEW PREVENTION HEATER | SW12 | ADDRESS SETTING 2ND DIGIT |
| CN52 | | REMOTE INDICATION | TB2 | POWER SUPPLY | SW14 | CONNECTION No. |
| SW2 | SWITCH | CAPACITY CODE | TB5 | TERMINAL BLOCK | SWA | CEILING HEIGHT SELECTOR |
| SW3 | | MODE SELECTION | TB15 | TRANSMISSION | SWB | DISCHARGE OUTLET NUMBER SELECTOR |
| SW4 | | MODEL SELECTION | LEV | LINEAR EXPANSION VALVE | SWC | OPTION SELECTOR |
| ZNR | VARISTOR | TH21 | THERMISTOR | | | |
| FUSE | FUSE (6.3A/250V) | TH22 | | ROOM TEMPERATURE DETECTION (0°C/15k, 25°C/5.4k) | | |
| F.C | FAN PHASE CONTROL | | | | | |
| X1 | AUX.RELAY | DRAIN PUMP | | | | |
| X4 | | FAN MOTOR | | | | |
| LED1 | POWER SUPPLY(I.B) | | | | | |
| LED2 | POWER SUPPLY(I.B) | | | | | |

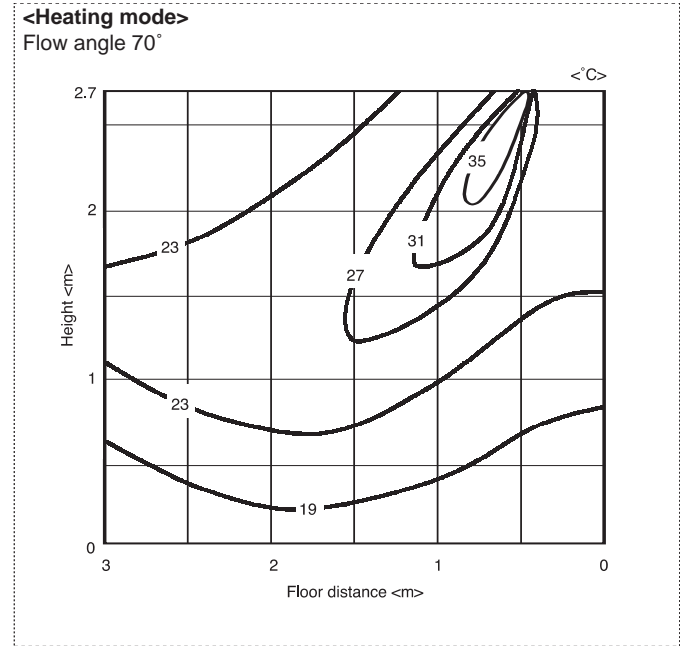
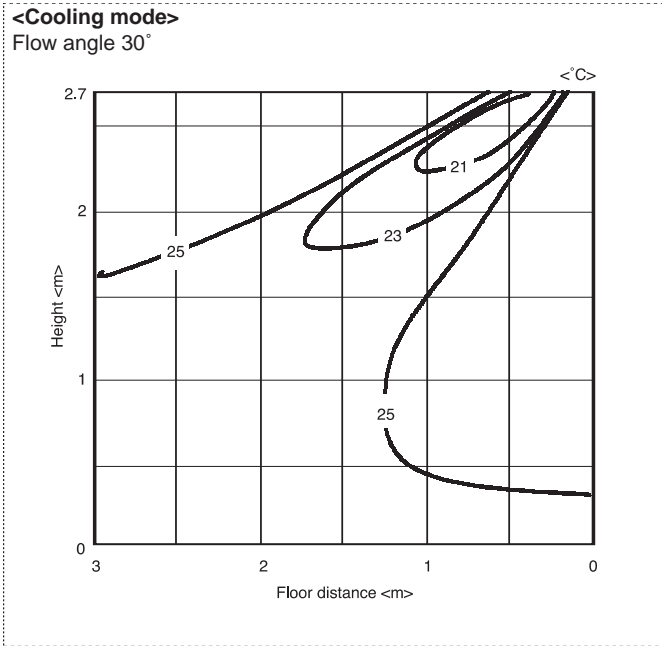


NOTE

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. Symbol(S) of TB5 is the shield wire connection.
3. Symbols used in wiring diagram above are, ⊙: Terminal block, □: Connector.
4. The setting of the SW2 dip switches differs in the capacity for the detail, see the table below.
5. Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts, set SW5 to 220V side.

6-1. Temperature distributions

PLFY-P-VCM-E



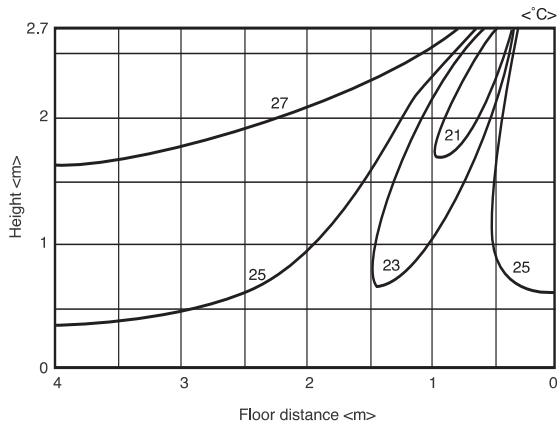
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

- A
- B
- C
- D
- E
- F
- G**
- H
- I
- J
- V_a
- V_b
- BC

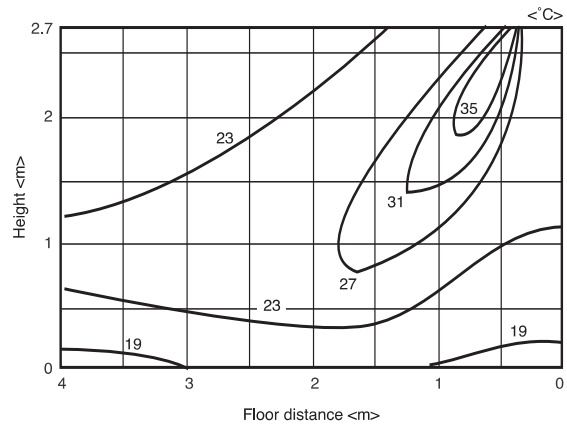
6-1. Temperature distributions

PLFY-P-VAM-E

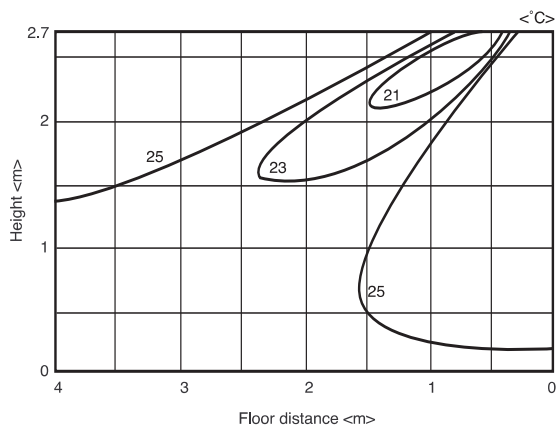
<Cooling mode>
Flow angle 30°



<Heating mode>
Flow angle 70°



<Cooling mode>
Flow angle 70°

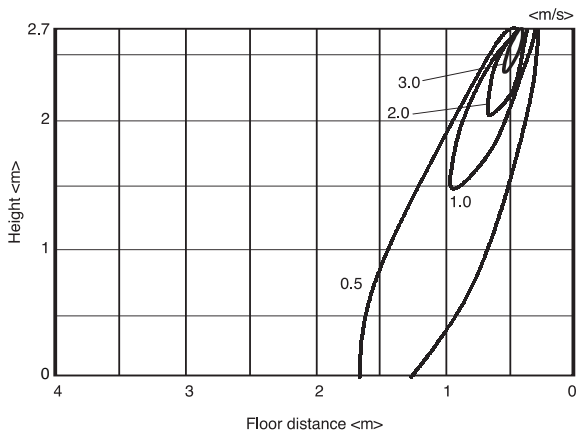


Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

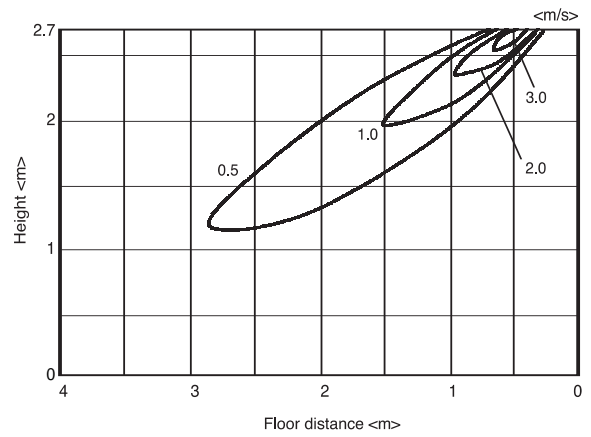
6-2. Airflow distributions

PLFY-P-VCM-E

<Fan mode>
Flow angle 70°

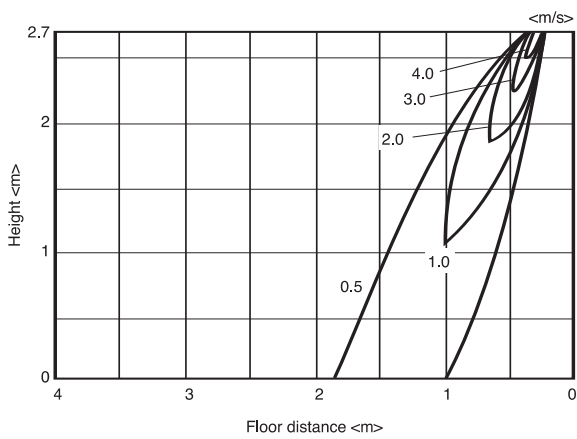


<Fan mode>
Flow angle 30°

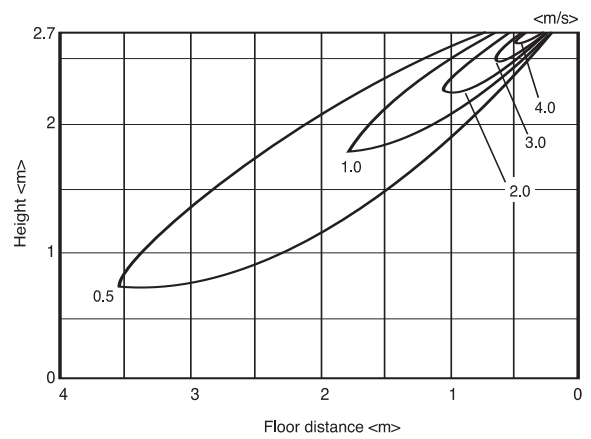


PLFY-P-VAM-E

<Fan mode>
Flow angle 70°



<Fan mode>
Flow angle 30°



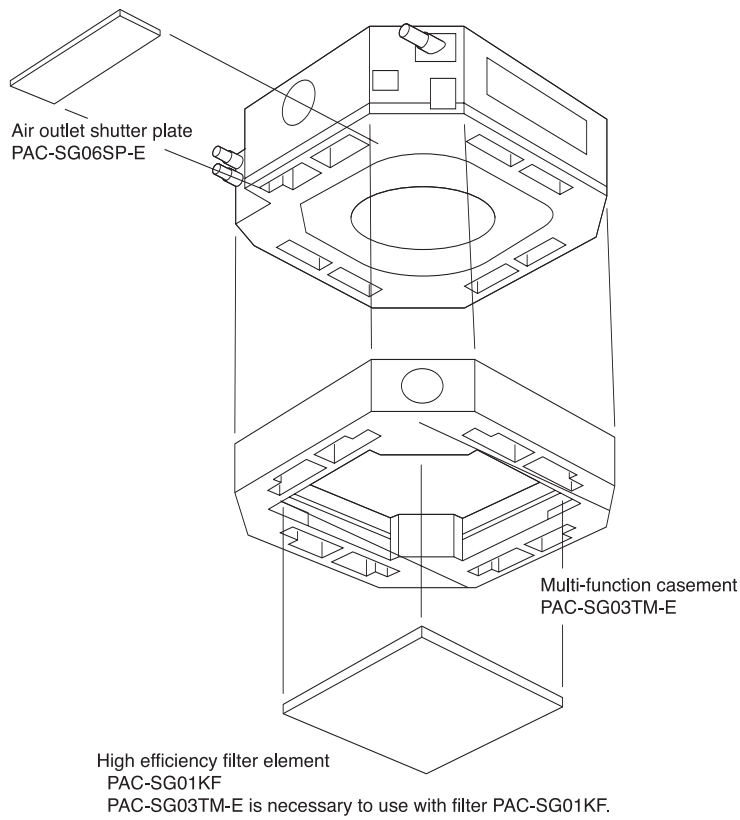
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

A
B
C
D
E
F
G
H
I
J
V_a
V_b
BC

| Description | Model | Applicable capacity |
|--------------------------------|--|---|
| Decoration panel | SLP-2AA | PLFY-P20,25,32,40VCM-E PLFY-P32,40,50,63,80,100,125VAM-E |
| Decoration panel | PLP-6AA | |
| Air outlet shutter plate | PAC-SG06SP-E | |
| High efficiency filter element | PAC-SG01KF (PAC-SG03TM-E is necessary to use with filter PAC-SG01KF.) | |
| Multi-function casement | PAC-SG03TM-E | |

- A
- B
- C
- D
- E
- F
- G**
- H
- I
- J
- V_a
- V_b
- BC

PLFY-P-VAM-E





PCFY-P-VGM-E

PCFY-P-VGM-E

| | |
|--|----------|
| 1. SPECIFICATIONS | IU-H- 2 |
| 2. CAPACITY TABLES | |
| 2-1a. Cooling capacity in combination with PUHY,PUY, PURY-P200, 250YGM | IU-H- 3 |
| 2-1b. Heating capacity in combination with PUHY, PURY-P200, 250YGM | IU-H- 4 |
| 2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM | IU-H- 5 |
| 2-2b. Heating capacity in combination with PUHY, PURY-P300, 350, 400YGM | IU-H- 6 |
| 2-3a. Cooling capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-H- 7 |
| 2-3b. Heating capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-H- 8 |
| 2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-H- 9 |
| 2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-H- 10 |
| 2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM | IU-H- 11 |
| 2-5b. Heating capacity in combination with PUMY-P100,125,140YHM | IU-H- 12 |
| 3. SOUND LEVELS | |
| 3-1. Sound levels | IU-H- 13 |
| 3-2. NC curves | IU-H- 13 |
| 4. EXTERNAL DIMENSIONS | IU-H- 14 |
| 5. ELECTRICAL WIRING DIAGRAMS | IU-H- 15 |
| 6. TEMPERATURE/AIRFLOW DISTRIBUTIONS | |
| 6-1. Temperature distributions | IU-H- 16 |
| 6-2. Airflow distributions | IU-H- 16 |

| Ceiling suspended | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PCFY-P-VGM-E | | | | ● | | ● | | | ● | ● | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PCFY-P40VGM-E | PCFY-P63VGM-E | PCFY-P100VGM-E | PCFY-P125VGM-E | | | | |
|---|--|---|---|-------------------------------|---------------------------------|-----------------------------------|---|--|---|--|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | | | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 4.5 | 7.1 | 11.2 | 14.0 | | | | |
| | | kcal / h | 3,900 | 6,100 | 9,600 | 12,000 | | | | |
| | | Btu / h | 15,400 | 24,200 | 38,200 | 47,800 | | | | |
| | *2 | kcal / h | 4,000 | 6,300 | 10,000 | 12,500 | | | | |
| | | Power input | kW | 0.10 | 0.13 | 0.16 | 0.24 | | | |
| | | Current input | A | 0.46 | 0.60 | 0.73 | 1.10 | | | |
| Heating capacity (Nominal) | *3 | kW | 5.0 | 8.0 | 12.5 | 16.0 | | | | |
| | | kcal / h | 4,300 | 6,900 | 10,800 | 13,800 | | | | |
| | | Btu / h | 17,100 | 27,300 | 42,700 | 54,600 | | | | |
| | Power input | kW | 0.10 | 0.13 | 0.16 | 0.24 | | | | |
| | | Current input | A | 0.46 | 0.60 | 0.73 | 1.10 | | | |
| External finish | | | MUNSELL (0.70Y 8.59 / 0.97) | | | | | | | |
| External dimension H x W x D | | mm | 210x1,000x680 | 210x1,310x680 | 270 x 1,310 x 680 | 270 x 1,620 x 680 | | | | |
| | | in. | 8-5/16" x 39-3/8" x 26-13/16" | 8-5/16" x 51-5/8" x 26-13/16" | 10-11/16" x 51-5/8" x 26-13/16" | 10-11/16" x 63-13/16" x 26-13/16" | | | | |
| Net weight | | kg (lb) | 27 (60) | 34 (75) | 37 (82) | 43 (95) | | | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 4 | | | | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | | | | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | | | | |
| | Motor type | | 1-phase induction motor | | | | | | | |
| | Motor output | | kW | 0.054 | 0.070 | 0.090 | 0.150 | | | |
| | Driving mechanism | | Direct-driven by motor | | | | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 8 - 10 - 11 - 12 | 12 - 14 - 16 - 18 | 18 - 20 - 23 - 25 | 26 - 28 - 32 - 35 | | | | |
| L / s | | 133 - 167 - 183 - 200 | 200 - 233 - 267 - 300 | 300 - 333 - 383 - 417 | 433 - 467 - 533 - 583 | | | | | |
| | cfm | 253 - 353 - 388 - 424 | 424 - 494 - 565 - 636 | 636 - 706 - 812 - 883 | 918 - 989 - 1130 - 1,236 | | | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 29 - 33 - 36 - 38 | 32 - 34 - 37 - 39 | 36 - 38 - 41 - 43 | 37 - 39 - 42 - 44 | | | | |
| Insulation material | | | Polyester sheet | | | | | | | |
| Air filter | | | PP honeycomb (long life) | | | | | | | |
| Protection device | | | Fuse | | | | | | | |
| Refrigerant control device | | | LEV | | | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | | | | |
| | | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | | | |
| | | mm (in.) | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø19.05 (ø3/4") Flare | ø19.05 (ø3/4") Flare | | | | |
| Diameter of drain pipe | | mm (in.) | I.D. ø26(VP-25) | | | | | | | |
| Drawing | External | | IU-RG01-N633 | IU-RG01-N633 | IU-RG01-N633 | IU-RG01-N633 | | | | |
| | Wiring | | IU-RG79-Y016 | IU-RG79-Y016 | IU-RG79-Y016 | IU-RG79-Y016 | | | | |
| | Refrigerant cycle | | - | - | - | - | | | | |
| Standard attachment | | Document | Installation Manual, Instruction Book | | | | | | | |
| | | Accessory | | | | | | | | |
| Remark | | Optional parts | | | | | | | | |
| | | Installation | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | | | | |
| Note : <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; vertical-align: top;"> *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) </td> <td style="width:33%; vertical-align: top;"> *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) </td> <td style="width:15%; vertical-align: top;"> Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m³/min x 35.31 lb = kg / 0.4536 </td> </tr> </table> | | | | | | | *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 |
| *1 Nominal cooling conditions Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5 m (24-9/16 ft) Level difference : 0 m (0 ft) | *2 Nominal cooling conditions 27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft) | *3 Nominal heating conditions 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft) | Unit converter kcal/h = kW x 860 Btu/h = kW x 3,412 cfm = m ³ /min x 35.31 lb = kg / 0.4536 | | | | | | | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. * Due to continuing improvement, above specification may be subject to change without notice. | | | | | | | | | | |
| Ref.: Spec_PCFY-P-VGM-E | | | | | | | | | | |

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PCFY-P-VGM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.1 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.7 | 3.2 |
| | 73 | 22.5 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.1 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.7 | 3.2 |
| | 77 | 25.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.1 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.2 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.3 | 3.1 | 4.4 | 3.1 | 4.6 | 3.1 | 4.8 | 3.1 | 4.9 | 3.3 | 5.2 | 3.2 | 5.5 | 3.1 |
| | 86 | 30.0 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.7 | 3.1 | 4.8 | 3.2 | 5.0 | 3.1 | 5.4 | 3.1 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.0 | 4.6 | 3.1 | 4.7 | 3.2 | 5.0 | 3.1 | 5.3 | 3.1 |
| | 95 | 35.0 | 4.0 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 |
| | 100 | 37.5 | 3.9 | 2.9 | 4.1 | 3.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.8 | 3.0 | 5.0 | 3.0 |
| | 104 | 40.0 | 3.9 | 2.9 | 4.0 | 2.9 | 4.2 | 2.9 | 4.3 | 2.9 | 4.5 | 3.1 | 4.7 | 3.0 | 5.0 | 2.9 |
| 110 | 43.0 | 3.8 | 2.8 | 3.9 | 2.9 | 4.1 | 2.9 | 4.2 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 | 4.8 | 2.9 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.9 | 7.0 | 5.0 | 7.5 | 5.0 | 7.7 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 9.0 | 5.1 |
| | 73 | 22.5 | 6.7 | 4.9 | 7.0 | 5.0 | 7.5 | 5.0 | 7.7 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 9.0 | 5.1 |
| | 77 | 25.0 | 6.7 | 4.9 | 7.0 | 5.0 | 7.5 | 5.0 | 7.7 | 5.0 | 7.8 | 5.2 | 8.3 | 5.1 | 8.8 | 5.0 |
| | 82 | 27.5 | 6.7 | 4.8 | 6.9 | 5.0 | 7.3 | 4.9 | 7.5 | 5.0 | 7.7 | 5.1 | 8.1 | 5.0 | 8.7 | 5.0 |
| | 86 | 30.0 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.8 | 7.4 | 4.9 | 7.6 | 5.1 | 8.0 | 5.0 | 8.5 | 4.9 |
| | 91 | 32.5 | 6.5 | 4.7 | 6.7 | 4.8 | 7.0 | 4.8 | 7.2 | 4.8 | 7.4 | 5.0 | 7.8 | 4.9 | 8.3 | 4.8 |
| | 95 | 35.0 | 6.4 | 4.7 | 6.5 | 4.8 | 6.9 | 4.7 | 7.1 | 4.8 | 7.3 | 4.9 | 7.7 | 4.8 | 8.1 | 4.8 |
| | 100 | 37.5 | 6.2 | 4.6 | 6.4 | 4.7 | 6.8 | 4.7 | 6.9 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.0 | 4.7 |
| | 104 | 40.0 | 6.1 | 4.5 | 6.3 | 4.7 | 6.7 | 4.6 | 6.8 | 4.7 | 7.0 | 4.8 | 7.3 | 4.7 | 7.8 | 4.7 |
| 110 | 43.0 | 6.0 | 4.5 | 6.1 | 4.6 | 6.5 | 4.5 | 6.6 | 4.6 | 6.8 | 4.7 | 7.2 | 4.7 | 7.6 | 4.6 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.5 | 11.0 | 7.7 | 11.8 | 7.7 | 12.1 | 7.7 | 12.5 | 8.0 | 13.2 | 7.9 | 14.2 | 7.8 |
| | 73 | 22.5 | 10.6 | 7.5 | 11.0 | 7.7 | 11.8 | 7.7 | 12.1 | 7.7 | 12.5 | 8.0 | 13.2 | 7.9 | 14.2 | 7.8 |
| | 77 | 25.0 | 10.6 | 7.5 | 11.0 | 7.7 | 11.8 | 7.7 | 12.1 | 7.7 | 12.4 | 8.0 | 13.1 | 7.9 | 13.9 | 7.7 |
| | 82 | 27.5 | 10.6 | 7.5 | 10.9 | 7.7 | 11.5 | 7.6 | 11.9 | 7.6 | 12.2 | 7.9 | 12.8 | 7.7 | 13.7 | 7.6 |
| | 86 | 30.0 | 10.4 | 7.4 | 10.7 | 7.6 | 11.3 | 7.5 | 11.6 | 7.5 | 11.9 | 7.8 | 12.5 | 7.6 | 13.4 | 7.5 |
| | 91 | 32.5 | 10.2 | 7.3 | 10.5 | 7.5 | 11.1 | 7.4 | 11.4 | 7.4 | 11.7 | 7.7 | 12.3 | 7.5 | 13.1 | 7.4 |
| | 95 | 35.0 | 10.0 | 7.2 | 10.3 | 7.4 | 10.9 | 7.3 | 11.2 | 7.3 | 11.5 | 7.6 | 12.1 | 7.4 | 12.8 | 7.3 |
| | 100 | 37.5 | 9.8 | 7.1 | 10.1 | 7.2 | 10.7 | 7.2 | 10.9 | 7.2 | 11.3 | 7.5 | 11.9 | 7.4 | 12.5 | 7.2 |
| | 104 | 40.0 | 9.6 | 7.0 | 9.9 | 7.2 | 10.5 | 7.1 | 10.8 | 7.1 | 11.1 | 7.4 | 11.6 | 7.2 | 12.3 | 7.1 |
| 110 | 43.0 | 9.4 | 6.9 | 9.7 | 7.1 | 10.2 | 7.0 | 10.4 | 7.0 | 10.8 | 7.3 | 11.3 | 7.1 | 12.0 | 7.0 | |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.4 | 13.8 | 9.6 | 14.7 | 9.6 | 15.1 | 9.7 | 15.6 | 10.0 | 16.5 | 9.9 | 17.7 | 9.8 |
| | 73 | 22.5 | 13.3 | 9.4 | 13.8 | 9.6 | 14.7 | 9.6 | 15.1 | 9.7 | 15.6 | 10.0 | 16.5 | 9.9 | 17.7 | 9.8 |
| | 77 | 25.0 | 13.3 | 9.4 | 13.8 | 9.6 | 14.7 | 9.6 | 15.1 | 9.7 | 15.5 | 10.0 | 16.4 | 9.8 | 17.4 | 9.7 |
| | 82 | 27.5 | 13.2 | 9.3 | 13.7 | 9.6 | 14.4 | 9.5 | 14.8 | 9.5 | 15.3 | 9.9 | 16.0 | 9.7 | 17.1 | 9.5 |
| | 86 | 30.0 | 13.0 | 9.2 | 13.4 | 9.4 | 14.2 | 9.3 | 14.6 | 9.4 | 14.9 | 9.7 | 15.7 | 9.5 | 16.7 | 9.4 |
| | 91 | 32.5 | 12.7 | 9.1 | 13.2 | 9.3 | 13.9 | 9.2 | 14.2 | 9.2 | 14.6 | 9.6 | 15.4 | 9.4 | 16.4 | 9.3 |
| | 95 | 35.0 | 12.5 | 9.0 | 12.9 | 9.2 | 13.7 | 9.1 | 14.0 | 9.2 | 14.4 | 9.5 | 15.1 | 9.3 | 16.0 | 9.1 |
| | 100 | 37.5 | 12.3 | 8.8 | 12.6 | 9.0 | 13.4 | 9.0 | 13.7 | 9.0 | 14.1 | 9.3 | 14.8 | 9.2 | 15.7 | 9.0 |
| | 104 | 40.0 | 12.0 | 8.7 | 12.4 | 8.9 | 13.2 | 8.9 | 13.4 | 8.9 | 13.9 | 9.2 | 14.5 | 9.0 | 15.4 | 8.9 |
| 110 | 43.0 | 11.8 | 8.6 | 12.1 | 8.8 | 12.8 | 8.7 | 13.0 | 8.7 | 13.4 | 9.1 | 14.1 | 8.9 | 15.0 | 8.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PURY-P200,250YGM

PCFY-P-VGM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 100 (11.2) | -4 | -20.0 | 6.4 | 6.3 | 6.3 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.4 |
| | 14 | -10.0 | 9.1 | 9.0 | 8.8 | 8.6 |
| | 23 | -5.0 | 10.5 | 10.4 | 10.0 | 8.8 |
| | 32 | 0.0 | 11.8 | 11.8 | 10.0 | 8.8 |
| | 37 | 2.5 | 12.5 | 12.4 | 10.0 | 8.8 |
| | 43 | 6.0 | 13.0 | 12.5 | 10.0 | 8.8 |
| | 46 | 7.5 | 13.4 | 12.5 | 10.0 | 8.8 |
| | 50 | 10.0 | 14.3 | 12.5 | 10.0 | 8.8 |
| | 55 | 12.5 | 15.1 | 12.5 | 10.0 | 8.8 |
| 60 | 15.5 | 16.0 | 12.5 | 10.0 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.2 | 8.0 | 8.0 | 8.0 |
| | 5 | -15.0 | 9.9 | 9.8 | 9.6 | 9.4 |
| | 14 | -10.0 | 11.7 | 11.5 | 11.2 | 11.0 |
| | 23 | -5.0 | 13.4 | 13.3 | 12.8 | 11.2 |
| | 32 | 0.0 | 15.1 | 15.0 | 12.8 | 11.2 |
| | 37 | 2.5 | 16.0 | 15.8 | 12.8 | 11.2 |
| | 43 | 6.0 | 16.6 | 16.0 | 12.8 | 11.2 |
| | 46 | 7.5 | 17.2 | 16.0 | 12.8 | 11.2 |
| | 50 | 10.0 | 18.2 | 16.0 | 12.8 | 11.2 |
| | 55 | 12.5 | 19.3 | 16.0 | 12.8 | 11.2 |
| 60 | 15.5 | 20.5 | 16.0 | 12.8 | 11.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PCFY-P-VGM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.1 | 4.5 | 3.2 | 4.9 | 3.2 | 5.0 | 3.3 | 5.2 | 3.4 | 5.5 | 3.3 | 5.9 | 3.3 |
| | 73 | 22.5 | 4.3 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.0 | 3.2 | 5.1 | 3.3 | 5.4 | 3.3 | 5.7 | 3.2 |
| | 77 | 25.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.1 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.8 | 3.1 | 4.9 | 3.3 | 5.2 | 3.2 | 5.5 | 3.2 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.1 | 4.8 | 3.2 | 5.1 | 3.2 | 5.4 | 3.1 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.2 | 3.0 | 4.4 | 3.0 | 4.6 | 3.1 | 4.7 | 3.2 | 5.0 | 3.1 | 5.3 | 3.1 |
| | 95 | 35.0 | 4.0 | 2.9 | 4.1 | 3.0 | 4.3 | 3.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 |
| | 100 | 37.5 | 4.0 | 2.9 | 4.0 | 2.9 | 4.3 | 2.9 | 4.4 | 3.0 | 4.5 | 3.1 | 4.8 | 3.1 | 5.1 | 3.0 |
| | 104 | 40.0 | 3.9 | 2.9 | 3.9 | 2.9 | 4.2 | 2.9 | 4.3 | 2.9 | 4.9 | 3.2 | 4.7 | 3.0 | 5.0 | 3.0 |
| 110 | 43.0 | 3.8 | 2.8 | 3.8 | 2.9 | 4.1 | 2.8 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.8 | 2.9 | |
| 63 (7.1) | 68 | 20.0 | 6.9 | 4.9 | 7.1 | 5.1 | 7.7 | 5.1 | 8.0 | 5.1 | 8.2 | 5.3 | 8.7 | 5.3 | 9.2 | 5.2 |
| | 73 | 22.5 | 6.9 | 4.9 | 7.1 | 5.1 | 7.6 | 5.0 | 7.8 | 5.1 | 8.1 | 5.3 | 8.5 | 5.2 | 9.1 | 5.1 |
| | 77 | 25.0 | 6.8 | 4.9 | 7.0 | 5.0 | 7.4 | 5.0 | 7.7 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 8.9 | 5.1 |
| | 82 | 27.5 | 6.6 | 4.8 | 6.8 | 4.9 | 7.3 | 4.9 | 7.5 | 5.0 | 7.8 | 5.1 | 8.2 | 5.1 | 8.7 | 5.0 |
| | 86 | 30.0 | 6.5 | 4.7 | 6.7 | 4.8 | 7.1 | 4.8 | 7.4 | 4.9 | 7.6 | 5.1 | 8.1 | 5.0 | 8.5 | 4.9 |
| | 91 | 32.5 | 6.4 | 4.7 | 6.6 | 4.8 | 7.0 | 4.8 | 7.2 | 4.8 | 7.5 | 5.0 | 7.9 | 4.9 | 8.4 | 4.9 |
| | 95 | 35.0 | 6.3 | 4.6 | 6.4 | 4.7 | 6.8 | 4.7 | 7.1 | 4.8 | 7.3 | 4.9 | 7.7 | 4.9 | 8.2 | 4.8 |
| | 100 | 37.5 | 6.2 | 4.6 | 6.3 | 4.7 | 6.7 | 4.6 | 6.9 | 4.7 | 7.2 | 4.9 | 7.6 | 4.8 | 8.0 | 4.7 |
| | 104 | 40.0 | 6.1 | 4.6 | 6.1 | 4.6 | 6.6 | 4.6 | 6.8 | 4.6 | 7.7 | 5.1 | 7.4 | 4.8 | 7.8 | 4.7 |
| 110 | 43.0 | 6.0 | 4.5 | 6.0 | 4.5 | 6.4 | 4.5 | 6.6 | 4.6 | 6.8 | 4.7 | 7.2 | 4.7 | 7.6 | 4.6 | |
| 100 (11.2) | 68 | 20.0 | 10.9 | 7.6 | 11.3 | 7.8 | 12.1 | 7.8 | 12.5 | 7.9 | 12.9 | 8.2 | 13.7 | 8.1 | 14.6 | 8.0 |
| | 73 | 22.5 | 10.8 | 7.6 | 11.2 | 7.8 | 11.9 | 7.8 | 12.3 | 7.8 | 12.7 | 8.1 | 13.5 | 8.0 | 14.3 | 7.9 |
| | 77 | 25.0 | 10.7 | 7.5 | 11.0 | 7.7 | 11.7 | 7.7 | 12.1 | 7.7 | 12.5 | 8.0 | 13.2 | 7.9 | 14.0 | 7.8 |
| | 82 | 27.5 | 10.5 | 7.4 | 10.8 | 7.6 | 11.5 | 7.5 | 11.9 | 7.6 | 12.2 | 7.9 | 13.0 | 7.8 | 13.7 | 7.7 |
| | 86 | 30.0 | 10.3 | 7.3 | 10.5 | 7.5 | 11.3 | 7.4 | 11.6 | 7.5 | 12.0 | 7.8 | 12.8 | 7.7 | 13.4 | 7.6 |
| | 91 | 32.5 | 10.1 | 7.2 | 10.4 | 7.4 | 11.0 | 7.3 | 11.4 | 7.4 | 11.8 | 7.7 | 12.4 | 7.6 | 13.2 | 7.5 |
| | 95 | 35.0 | 10.0 | 7.2 | 10.1 | 7.3 | 10.8 | 7.2 | 11.2 | 7.3 | 11.5 | 7.6 | 12.2 | 7.5 | 12.9 | 7.4 |
| | 100 | 37.5 | 9.9 | 7.1 | 9.9 | 7.2 | 10.6 | 7.1 | 10.9 | 7.2 | 11.3 | 7.5 | 12.0 | 7.4 | 12.7 | 7.3 |
| | 104 | 40.0 | 9.7 | 7.0 | 9.7 | 7.1 | 10.4 | 7.0 | 10.7 | 7.1 | 12.2 | 7.9 | 11.7 | 7.3 | 12.4 | 7.2 |
| 110 | 43.0 | 9.4 | 6.9 | 9.4 | 6.9 | 10.1 | 6.9 | 10.4 | 7.0 | 10.7 | 7.2 | 11.4 | 7.2 | 12.0 | 7.0 | |
| 125 (14.0) | 68 | 20.0 | 13.6 | 9.5 | 14.1 | 9.8 | 15.1 | 9.8 | 15.7 | 9.9 | 16.2 | 10.3 | 17.2 | 10.1 | 18.2 | 10.0 |
| | 73 | 22.5 | 13.5 | 9.5 | 14.0 | 9.8 | 14.9 | 9.7 | 15.4 | 9.8 | 15.9 | 10.1 | 16.8 | 10.0 | 17.9 | 9.8 |
| | 77 | 25.0 | 13.4 | 9.4 | 13.7 | 9.6 | 14.6 | 9.6 | 15.1 | 9.7 | 15.6 | 10.0 | 16.5 | 9.9 | 17.5 | 9.7 |
| | 82 | 27.5 | 13.1 | 9.3 | 13.4 | 9.5 | 14.4 | 9.4 | 14.8 | 9.5 | 15.3 | 9.9 | 16.2 | 9.7 | 17.2 | 9.6 |
| | 86 | 30.0 | 12.9 | 9.2 | 13.2 | 9.3 | 14.1 | 9.3 | 14.6 | 9.4 | 15.0 | 9.7 | 16.0 | 9.6 | 16.8 | 9.4 |
| | 91 | 32.5 | 12.7 | 9.0 | 13.0 | 9.2 | 13.8 | 9.2 | 14.3 | 9.3 | 14.7 | 9.6 | 15.5 | 9.5 | 16.5 | 9.3 |
| | 95 | 35.0 | 12.5 | 8.9 | 12.7 | 9.1 | 13.4 | 9.0 | 14.0 | 9.2 | 14.4 | 9.5 | 15.3 | 9.3 | 16.2 | 9.2 |
| | 100 | 37.5 | 12.3 | 8.9 | 12.4 | 8.9 | 13.2 | 8.9 | 13.7 | 9.0 | 14.1 | 9.4 | 15.0 | 9.2 | 15.8 | 9.1 |
| | 104 | 40.0 | 12.1 | 8.8 | 12.1 | 8.8 | 13.0 | 8.8 | 13.4 | 8.9 | 15.2 | 9.8 | 14.6 | 9.1 | 15.5 | 8.9 |
| 110 | 43.0 | 11.8 | 8.6 | 11.8 | 8.6 | 12.6 | 8.6 | 13.0 | 8.7 | 13.4 | 9.0 | 14.2 | 8.9 | 15.1 | 8.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PCFY-P-VGM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 55 | 12.5 | 9.2 | 8.0 | 6.0 | 5.1 |
| 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 100 (11.2) | -4 | -20.0 | 6.5 | 6.3 | 6.3 | 6.0 |
| | 5 | -15.0 | 7.5 | 7.5 | 7.5 | 7.3 |
| | 14 | -10.0 | 8.8 | 8.8 | 8.6 | 8.0 |
| | 23 | -5.0 | 10.0 | 10.0 | 9.4 | 8.0 |
| | 32 | 0.0 | 11.3 | 11.3 | 9.4 | 8.0 |
| | 37 | 2.5 | 11.9 | 11.8 | 9.4 | 8.0 |
| | 43 | 6.0 | 12.8 | 12.5 | 9.4 | 8.0 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.4 | 8.0 |
| | 50 | 10.0 | 13.8 | 12.5 | 9.4 | 8.0 |
| | 55 | 12.5 | 14.4 | 12.5 | 9.4 | 8.0 |
| 125 (14.0) | -4 | -20.0 | 8.3 | 8.0 | 8.0 | 7.7 |
| | 5 | -15.0 | 9.6 | 9.6 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.2 | 11.2 | 11.0 | 10.2 |
| | 23 | -5.0 | 12.8 | 12.8 | 12.0 | 10.2 |
| | 32 | 0.0 | 14.4 | 14.4 | 12.0 | 10.2 |
| | 37 | 2.5 | 15.3 | 15.1 | 12.0 | 10.2 |
| | 43 | 6.0 | 16.4 | 16.0 | 12.0 | 10.2 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.0 | 10.2 |
| | 50 | 10.0 | 17.7 | 16.0 | 12.0 | 10.2 |
| | 55 | 12.5 | 18.4 | 16.0 | 12.0 | 10.2 |
| 60 | 15.5 | 18.4 | 16.0 | 12.0 | 10.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PCFY-P-VGM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.1 | 4.4 | 3.1 | 4.7 | 3.1 | 4.8 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.7 | 3.2 |
| | 73 | 22.5 | 4.2 | 3.1 | 4.3 | 3.1 | 4.6 | 3.1 | 4.8 | 3.1 | 5.0 | 3.3 | 5.3 | 3.2 | 5.6 | 3.2 |
| | 77 | 25.0 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.7 | 3.1 | 4.9 | 3.3 | 5.2 | 3.2 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.1 | 4.9 | 3.2 | 5.2 | 3.2 | 5.4 | 3.1 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.8 | 3.2 | 5.1 | 3.2 | 5.4 | 3.1 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.8 | 3.2 | 5.1 | 3.2 | 5.4 | 3.1 |
| | 95 | 35.0 | 4.0 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.7 | 3.2 | 5.0 | 3.1 | 5.4 | 3.1 |
| | 100 | 37.5 | 4.0 | 2.9 | 4.0 | 3.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.7 | 3.1 | 5.0 | 3.1 | 5.3 | 3.1 |
| | 104 | 40.0 | 3.9 | 2.9 | 4.0 | 2.9 | 4.3 | 3.0 | 4.4 | 3.0 | 4.6 | 3.1 | 5.0 | 3.1 | 5.3 | 3.1 |
| 110 | 43.0 | 3.9 | 2.9 | 3.9 | 2.9 | 4.2 | 2.9 | 4.3 | 2.9 | 4.5 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.8 | 6.9 | 5.0 | 7.4 | 4.9 | 7.6 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 8.9 | 5.1 |
| | 73 | 22.5 | 6.7 | 4.8 | 6.9 | 4.9 | 7.3 | 4.9 | 7.5 | 5.0 | 7.8 | 5.2 | 8.3 | 5.1 | 8.8 | 5.0 |
| | 77 | 25.0 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.9 | 7.5 | 4.9 | 7.7 | 5.1 | 8.2 | 5.1 | 8.8 | 5.0 |
| | 82 | 27.5 | 6.5 | 4.7 | 6.7 | 4.8 | 7.2 | 4.8 | 7.4 | 4.9 | 7.7 | 5.1 | 8.2 | 5.0 | 8.5 | 4.9 |
| | 86 | 30.0 | 6.5 | 4.7 | 6.6 | 4.8 | 7.1 | 4.8 | 7.3 | 4.9 | 7.6 | 5.1 | 8.1 | 5.0 | 8.6 | 4.9 |
| | 91 | 32.5 | 6.4 | 4.7 | 6.5 | 4.8 | 7.0 | 4.7 | 7.2 | 4.8 | 7.5 | 5.0 | 8.0 | 5.0 | 8.5 | 4.9 |
| | 95 | 35.0 | 6.3 | 4.6 | 6.4 | 4.7 | 6.9 | 4.7 | 7.1 | 4.8 | 7.4 | 5.0 | 8.0 | 5.0 | 8.4 | 4.9 |
| | 100 | 37.5 | 6.2 | 4.6 | 6.4 | 4.7 | 6.8 | 4.7 | 7.0 | 4.7 | 7.3 | 5.0 | 7.8 | 4.9 | 8.4 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.6 | 6.3 | 4.7 | 6.8 | 4.7 | 6.9 | 4.7 | 7.2 | 4.9 | 7.8 | 4.9 | 8.3 | 4.8 |
| 110 | 43.0 | 6.1 | 4.5 | 6.2 | 4.6 | 6.7 | 4.6 | 6.8 | 4.7 | 7.2 | 4.9 | 7.7 | 4.8 | 8.2 | 4.8 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.5 | 10.9 | 7.7 | 11.6 | 7.6 | 12.0 | 7.7 | 12.5 | 8.0 | 13.2 | 7.9 | 14.1 | 7.8 |
| | 73 | 22.5 | 10.5 | 7.4 | 10.8 | 7.6 | 11.5 | 7.6 | 11.9 | 7.6 | 12.3 | 8.0 | 13.2 | 7.9 | 13.9 | 7.8 |
| | 77 | 25.0 | 10.4 | 7.4 | 10.7 | 7.6 | 11.4 | 7.5 | 11.8 | 7.6 | 12.2 | 7.9 | 13.0 | 7.8 | 13.8 | 7.7 |
| | 82 | 27.5 | 10.3 | 7.3 | 10.5 | 7.5 | 11.3 | 7.5 | 11.6 | 7.5 | 12.1 | 7.9 | 12.9 | 7.8 | 13.4 | 7.6 |
| | 86 | 30.0 | 10.2 | 7.3 | 10.4 | 7.4 | 11.2 | 7.4 | 11.5 | 7.5 | 12.0 | 7.8 | 12.8 | 7.7 | 13.6 | 7.6 |
| | 91 | 32.5 | 10.1 | 7.2 | 10.3 | 7.4 | 11.0 | 7.3 | 11.3 | 7.4 | 11.9 | 7.8 | 12.7 | 7.7 | 13.4 | 7.6 |
| | 95 | 35.0 | 10.0 | 7.2 | 10.1 | 7.3 | 10.9 | 7.3 | 11.2 | 7.3 | 11.6 | 7.7 | 12.5 | 7.6 | 13.3 | 7.5 |
| | 100 | 37.5 | 9.9 | 7.1 | 10.0 | 7.2 | 10.8 | 7.2 | 11.0 | 7.3 | 11.6 | 7.6 | 12.4 | 7.6 | 13.2 | 7.5 |
| | 104 | 40.0 | 9.7 | 7.0 | 9.9 | 7.2 | 10.7 | 7.2 | 10.9 | 7.2 | 11.4 | 7.6 | 12.3 | 7.5 | 13.1 | 7.4 |
| 110 | 43.0 | 9.6 | 7.0 | 9.8 | 7.1 | 10.5 | 7.1 | 10.8 | 7.1 | 11.3 | 7.5 | 12.1 | 7.4 | 13.0 | 7.4 | |
| 125 (14.0) | 68 | 20.0 | 13.2 | 9.3 | 13.7 | 9.6 | 14.6 | 9.5 | 15.0 | 9.6 | 15.6 | 10.0 | 16.5 | 9.9 | 17.6 | 9.8 |
| | 73 | 22.5 | 13.2 | 9.3 | 13.5 | 9.5 | 14.4 | 9.5 | 14.8 | 9.5 | 15.4 | 9.9 | 16.5 | 9.8 | 17.4 | 9.7 |
| | 77 | 25.0 | 13.0 | 9.2 | 13.4 | 9.4 | 14.3 | 9.4 | 14.7 | 9.5 | 15.3 | 9.9 | 16.2 | 9.7 | 17.3 | 9.6 |
| | 82 | 27.5 | 12.9 | 9.2 | 13.2 | 9.3 | 14.1 | 9.3 | 14.6 | 9.4 | 15.1 | 9.8 | 16.1 | 9.7 | 16.8 | 9.4 |
| | 86 | 30.0 | 12.7 | 9.1 | 13.0 | 9.3 | 14.0 | 9.3 | 14.4 | 9.3 | 15.0 | 9.7 | 16.0 | 9.6 | 16.9 | 9.5 |
| | 91 | 32.5 | 12.6 | 9.0 | 12.9 | 9.2 | 13.7 | 9.1 | 14.1 | 9.2 | 14.8 | 9.7 | 15.8 | 9.6 | 16.8 | 9.4 |
| | 95 | 35.0 | 12.5 | 8.9 | 12.7 | 9.1 | 13.7 | 9.1 | 14.0 | 9.2 | 14.6 | 9.5 | 15.7 | 9.5 | 16.7 | 9.4 |
| | 100 | 37.5 | 12.3 | 8.9 | 12.6 | 9.0 | 13.4 | 9.0 | 13.8 | 9.1 | 14.5 | 9.5 | 15.5 | 9.4 | 16.5 | 9.3 |
| | 104 | 40.0 | 12.1 | 8.8 | 12.4 | 8.9 | 13.4 | 9.0 | 13.6 | 9.0 | 14.3 | 9.4 | 15.4 | 9.4 | 16.4 | 9.3 |
| 110 | 43.0 | 12.0 | 8.7 | 12.3 | 8.9 | 13.2 | 8.9 | 13.4 | 8.9 | 14.1 | 9.4 | 15.1 | 9.3 | 16.2 | 9.2 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PCFY-P-VGM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 100 (11.2) | -4 | -20.0 | 6.6 | 6.4 | 6.4 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.3 |
| | 14 | -10.0 | 9.0 | 8.8 | 8.5 | 8.3 |
| | 23 | -5.0 | 10.3 | 10.0 | 9.6 | 8.8 |
| | 32 | 0.0 | 11.5 | 11.3 | 9.9 | 8.8 |
| | 37 | 2.5 | 12.0 | 11.9 | 9.9 | 8.8 |
| | 43 | 6.0 | 12.9 | 12.5 | 9.9 | 8.8 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.9 | 8.8 |
| | 50 | 10.0 | 13.9 | 12.5 | 9.9 | 8.8 |
| | 55 | 12.5 | 14.5 | 12.5 | 9.9 | 8.8 |
| 60 | 15.5 | 14.5 | 12.5 | 9.9 | 8.8 | |
| 125 (14.0) | -4 | -20.0 | 8.5 | 8.2 | 8.2 | 8.0 |
| | 5 | -15.0 | 10.0 | 9.7 | 9.6 | 9.3 |
| | 14 | -10.0 | 11.5 | 11.2 | 10.9 | 10.6 |
| | 23 | -5.0 | 13.1 | 12.8 | 12.3 | 11.3 |
| | 32 | 0.0 | 14.7 | 14.4 | 12.7 | 11.3 |
| | 37 | 2.5 | 15.4 | 15.2 | 12.7 | 11.3 |
| | 43 | 6.0 | 16.5 | 16.0 | 12.7 | 11.3 |
| | 46 | 7.5 | 17.0 | 16.0 | 12.7 | 11.3 |
| | 50 | 10.0 | 17.8 | 16.0 | 12.7 | 11.3 |
| | 55 | 12.5 | 18.6 | 16.0 | 12.7 | 11.3 |
| 60 | 15.5 | 18.6 | 16.0 | 12.7 | 11.3 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PCFY-P-VGM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|--------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|------|------------------------------------|------|------------------------------------|------|------------------------------------|------|
| | | | 71°FDB / 59°FWB 21.5°CDB / 15°CWB | | 73°FDB / 61°FWB 23°CDB / 16°CWB | | 77°FDB / 64°FWB 25°CDB / 18°CWB | | 81°FDB / 66°FWB 27°CDB / 19°CWB | | 82°FDB / 68°FWB 28°CDB / 20°CWB | | 86°FDB / 72°FWB 30°CDB / 22°CWB | | 90°FDB / 75°FWB 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.2 | 4.6 | 3.3 | 4.9 | 3.2 | 5.1 | 3.3 | 5.2 | 3.4 | 5.6 | 3.4 | 5.9 | 3.3 |
| | 68 | 20.0 | 4.2 | 3.1 | 4.4 | 3.1 | 4.7 | 3.1 | 4.8 | 3.2 | 5.0 | 3.3 | 5.3 | 3.2 | 5.6 | 3.2 |
| | 86 | 30.0 | 3.9 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.0 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 |
| | 104 | 40.0 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.7 | 2.9 |
| | 113 | 45.0 | 3.3 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 2.8 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 5.0 | 7.3 | 5.2 | 7.8 | 5.1 | 8.0 | 5.2 | 8.3 | 5.4 | 8.8 | 5.3 | 9.3 | 5.2 |
| | 68 | 20.0 | 6.7 | 4.8 | 6.9 | 5.0 | 7.4 | 4.9 | 7.6 | 5.0 | 7.8 | 5.2 | 8.3 | 5.1 | 8.8 | 5.0 |
| | 86 | 30.0 | 6.2 | 4.6 | 6.4 | 4.7 | 6.9 | 4.7 | 7.1 | 4.8 | 7.3 | 5.0 | 7.8 | 4.9 | 8.2 | 4.8 |
| | 104 | 40.0 | 5.6 | 4.3 | 5.8 | 4.4 | 6.2 | 4.4 | 6.4 | 4.5 | 6.6 | 4.7 | 7.0 | 4.6 | 7.4 | 4.5 |
| | 113 | 45.0 | 5.3 | 4.1 | 5.4 | 4.3 | 5.8 | 4.2 | 6.0 | 4.3 | 6.2 | 4.5 | 6.6 | 4.4 | 6.9 | 4.4 |
| 100 (11.2) | 50 | 10.0 | 11.1 | 7.8 | 11.5 | 8.0 | 12.3 | 7.9 | 12.7 | 8.0 | 13.1 | 8.3 | 13.8 | 8.2 | 14.6 | 8.0 |
| | 68 | 20.0 | 10.5 | 7.4 | 10.9 | 7.7 | 11.6 | 7.6 | 12.0 | 7.7 | 12.4 | 8.0 | 13.1 | 7.9 | 13.9 | 7.7 |
| | 86 | 30.0 | 9.8 | 7.1 | 10.2 | 7.3 | 10.9 | 7.2 | 11.2 | 7.3 | 11.5 | 7.6 | 12.2 | 7.5 | 12.9 | 7.4 |
| | 104 | 40.0 | 8.9 | 6.6 | 9.2 | 6.8 | 9.8 | 6.8 | 10.1 | 6.9 | 10.5 | 7.1 | 11.1 | 7.0 | 11.7 | 6.9 |
| | 113 | 45.0 | 8.3 | 6.3 | 8.6 | 6.5 | 9.2 | 6.5 | 9.5 | 6.6 | 9.8 | 6.8 | 10.4 | 6.8 | 11.0 | 6.6 |
| 125 (14.0) | 50 | 10.0 | 13.9 | 9.7 | 14.4 | 9.9 | 15.3 | 9.9 | 15.8 | 10.0 | 16.3 | 10.3 | 17.3 | 10.2 | 18.3 | 10.0 |
| | 68 | 20.0 | 13.1 | 9.3 | 13.6 | 9.6 | 14.5 | 9.5 | 15.0 | 9.6 | 15.5 | 10.0 | 16.4 | 9.8 | 17.3 | 9.6 |
| | 86 | 30.0 | 12.3 | 8.8 | 12.7 | 9.1 | 13.6 | 9.0 | 14.0 | 9.2 | 14.4 | 9.5 | 15.3 | 9.4 | 16.2 | 9.2 |
| | 104 | 40.0 | 11.1 | 8.2 | 11.5 | 8.5 | 12.3 | 8.5 | 12.7 | 8.6 | 13.1 | 8.9 | 13.8 | 8.8 | 14.6 | 8.6 |
| | 113 | 45.0 | 10.4 | 7.9 | 10.7 | 8.1 | 11.5 | 8.1 | 11.8 | 8.2 | 12.2 | 8.5 | 12.9 | 8.4 | 13.7 | 8.3 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PCFY-P-VGM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °F | °C | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| 100 (11.2) | 50 | 10 | 9.9 | 9.9 | 9.9 | 8.4 | 7.7 |
| | 68 | 20 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 86 | 30 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 104 | 40 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 113 | 45 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| 125 (14.0) | 50 | 10 | 12.7 | 12.7 | 12.7 | 10.7 | 9.8 |
| | 68 | 20 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 86 | 30 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 104 | 40 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |
| | 113 | 45 | 16.0 | 16.0 | 16.0 | 13.6 | 12.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PCFY-P-VGM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.8 | 3.2 | 5.0 | 3.2 | 5.2 | 3.2 | 5.5 | 3.1 |
| | 73 | 22.5 | 4.2 | 2.9 | 4.4 | 3.0 | 4.6 | 3.0 | 4.8 | 3.2 | 4.9 | 3.2 | 5.2 | 3.2 | 5.4 | 3.1 |
| | 77 | 25.0 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.7 | 3.2 | 4.8 | 3.2 | 5.1 | 3.1 | 5.4 | 3.1 |
| | 82 | 27.5 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 | 5.3 | 3.0 |
| | 86 | 30.0 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 3.1 | 4.7 | 3.1 | 5.0 | 3.1 | 5.3 | 3.0 |
| | 91 | 32.5 | 4.0 | 2.7 | 4.1 | 2.8 | 4.4 | 2.9 | 4.5 | 3.0 | 4.7 | 3.0 | 4.9 | 3.0 | 5.2 | 3.0 |
| | 95 | 35.0 | 3.9 | 2.7 | 4.0 | 2.8 | 4.3 | 2.8 | 4.5 | 3.0 | 4.6 | 3.0 | 4.9 | 3.0 | 5.2 | 3.0 |
| | 100 | 37.5 | 3.8 | 2.6 | 3.9 | 2.7 | 4.2 | 2.8 | 4.4 | 2.9 | 4.5 | 3.0 | 4.8 | 3.0 | 5.1 | 2.9 |
| | 104 | 40.0 | 3.7 | 2.6 | 3.9 | 2.7 | 4.2 | 2.7 | 4.3 | 2.9 | 4.5 | 2.9 | 4.8 | 2.9 | 5.1 | 2.9 |
| 110 | 43.0 | 3.6 | 2.5 | 3.8 | 2.6 | 4.1 | 2.7 | 4.2 | 2.8 | 4.4 | 2.9 | 4.7 | 2.9 | 5.0 | 2.8 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.7 | 7.0 | 4.8 | 7.4 | 4.8 | 7.6 | 5.1 | 7.8 | 5.1 | 8.2 | 5.0 | 8.7 | 5.0 |
| | 73 | 22.5 | 6.7 | 4.6 | 6.9 | 4.8 | 7.3 | 4.8 | 7.5 | 5.0 | 7.7 | 5.0 | 8.1 | 5.0 | 8.6 | 4.9 |
| | 77 | 25.0 | 6.6 | 4.5 | 6.8 | 4.7 | 7.2 | 4.7 | 7.4 | 5.0 | 7.6 | 5.0 | 8.1 | 4.9 | 8.5 | 4.9 |
| | 82 | 27.5 | 6.5 | 4.5 | 6.7 | 4.6 | 7.1 | 4.6 | 7.3 | 4.9 | 7.5 | 4.9 | 8.0 | 4.9 | 8.4 | 4.8 |
| | 86 | 30.0 | 6.4 | 4.4 | 6.6 | 4.6 | 7.0 | 4.6 | 7.2 | 4.9 | 7.5 | 4.9 | 7.9 | 4.8 | 8.3 | 4.8 |
| | 91 | 32.5 | 6.3 | 4.3 | 6.5 | 4.5 | 6.9 | 4.5 | 7.1 | 4.8 | 7.4 | 4.8 | 7.8 | 4.8 | 8.2 | 4.7 |
| | 95 | 35.0 | 6.1 | 4.2 | 6.4 | 4.4 | 6.8 | 4.4 | 7.0 | 4.7 | 7.3 | 4.7 | 7.7 | 4.7 | 8.2 | 4.7 |
| | 100 | 37.5 | 6.0 | 4.2 | 6.2 | 4.3 | 6.7 | 4.4 | 6.9 | 4.7 | 7.2 | 4.7 | 7.6 | 4.7 | 8.1 | 4.6 |
| | 104 | 40.0 | 5.9 | 4.1 | 6.1 | 4.2 | 6.6 | 4.3 | 6.8 | 4.6 | 7.1 | 4.6 | 7.5 | 4.6 | 8.0 | 4.6 |
| 110 | 43.0 | 5.7 | 4.0 | 6.0 | 4.1 | 6.4 | 4.2 | 6.7 | 4.5 | 6.9 | 4.5 | 7.4 | 4.5 | 7.9 | 4.5 | |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.2 | 11.0 | 7.4 | 11.6 | 7.4 | 12.0 | 7.8 | 12.3 | 7.8 | 13.0 | 7.7 | 13.7 | 7.6 |
| | 73 | 22.5 | 10.5 | 7.1 | 10.8 | 7.3 | 11.5 | 7.3 | 11.8 | 7.8 | 12.2 | 7.7 | 12.9 | 7.6 | 13.5 | 7.5 |
| | 77 | 25.0 | 10.4 | 7.0 | 10.7 | 7.2 | 11.4 | 7.2 | 11.7 | 7.7 | 12.0 | 7.6 | 12.7 | 7.6 | 13.4 | 7.4 |
| | 82 | 27.5 | 10.2 | 6.9 | 10.6 | 7.1 | 11.2 | 7.1 | 11.6 | 7.6 | 11.9 | 7.6 | 12.6 | 7.5 | 13.2 | 7.4 |
| | 86 | 30.0 | 10.1 | 6.8 | 10.4 | 7.0 | 11.1 | 7.0 | 11.4 | 7.5 | 11.8 | 7.5 | 12.4 | 7.4 | 13.1 | 7.3 |
| | 91 | 32.5 | 9.9 | 6.7 | 10.2 | 6.9 | 10.9 | 6.9 | 11.3 | 7.4 | 11.6 | 7.4 | 12.3 | 7.3 | 13.0 | 7.2 |
| | 95 | 35.0 | 9.7 | 6.5 | 10.0 | 6.8 | 10.7 | 6.8 | 11.1 | 7.3 | 11.4 | 7.3 | 12.2 | 7.2 | 12.9 | 7.1 |
| | 100 | 37.5 | 9.5 | 6.4 | 9.8 | 6.6 | 10.6 | 6.7 | 10.9 | 7.2 | 11.3 | 7.2 | 12.0 | 7.1 | 12.7 | 7.1 |
| | 104 | 40.0 | 9.3 | 6.2 | 9.6 | 6.5 | 10.4 | 6.6 | 10.8 | 7.0 | 11.1 | 7.1 | 11.9 | 7.1 | 12.6 | 7.0 |
| 110 | 43.0 | 9.0 | 6.1 | 9.4 | 6.4 | 10.2 | 6.4 | 10.5 | 6.9 | 10.9 | 6.9 | 11.6 | 6.9 | 12.4 | 6.9 | |
| 125 (14.0) | 68 | 20.0 | 13.3 | 9.0 | 13.7 | 9.2 | 14.6 | 9.2 | 15.0 | 9.8 | 15.4 | 9.8 | 16.2 | 9.6 | 17.1 | 9.5 |
| | 73 | 22.5 | 13.1 | 8.8 | 13.5 | 9.1 | 14.4 | 9.1 | 14.8 | 9.7 | 15.2 | 9.7 | 16.1 | 9.5 | 16.9 | 9.4 |
| | 77 | 25.0 | 13.0 | 8.7 | 13.4 | 9.0 | 14.2 | 9.0 | 14.6 | 9.6 | 15.1 | 9.5 | 15.9 | 9.4 | 16.7 | 9.3 |
| | 82 | 27.5 | 12.8 | 8.6 | 13.2 | 8.9 | 14.0 | 8.9 | 14.5 | 9.5 | 14.9 | 9.4 | 15.7 | 9.3 | 16.6 | 9.2 |
| | 86 | 30.0 | 12.6 | 8.5 | 13.0 | 8.8 | 13.9 | 8.8 | 14.3 | 9.3 | 14.7 | 9.3 | 15.5 | 9.2 | 16.4 | 9.1 |
| | 91 | 32.5 | 12.3 | 8.3 | 12.8 | 8.6 | 13.6 | 8.6 | 14.1 | 9.2 | 14.5 | 9.2 | 15.4 | 9.1 | 16.2 | 9.0 |
| | 95 | 35.0 | 12.1 | 8.1 | 12.5 | 8.4 | 13.4 | 8.5 | 13.9 | 9.1 | 14.3 | 9.1 | 15.2 | 9.0 | 16.1 | 8.9 |
| | 100 | 37.5 | 11.8 | 8.0 | 12.3 | 8.3 | 13.2 | 8.4 | 13.7 | 8.9 | 14.1 | 8.9 | 15.0 | 8.9 | 15.9 | 8.8 |
| | 104 | 40.0 | 11.6 | 7.8 | 12.0 | 8.1 | 13.0 | 8.2 | 13.4 | 8.8 | 13.9 | 8.8 | 14.8 | 8.8 | 15.8 | 8.7 |
| 110 | 43.0 | 11.3 | 7.6 | 11.8 | 7.9 | 12.7 | 8.0 | 13.2 | 8.6 | 13.6 | 8.6 | 14.6 | 8.6 | 15.5 | 8.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PCFY-P-VGM-E

SHC : Sensible Heat Capacity(kW)

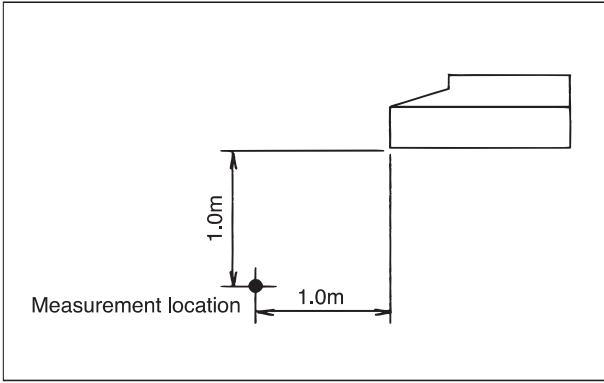
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 100 (11.2) | -4 | -20.0 | 8.1 | 7.9 | 7.5 | 7.4 |
| | 5 | -15.0 | 8.8 | 8.4 | 8.1 | 8.0 |
| | 14 | -10.0 | 9.4 | 9.1 | 8.9 | 8.8 |
| | 23 | -5.0 | 10.6 | 10.4 | 9.9 | 9.8 |
| | 32 | 0.0 | 11.8 | 11.5 | 11.0 | 10.9 |
| | 37 | 2.5 | 12.4 | 12.0 | 11.6 | 11.5 |
| | 43 | 6.0 | 12.8 | 12.5 | 12.4 | 12.1 |
| | 46 | 7.5 | 13.5 | 13.3 | 12.4 | 12.1 |
| | 50 | 10.0 | 14.1 | 13.8 | 12.4 | 12.1 |
| | 55 | 12.5 | 14.8 | 14.4 | 12.4 | 12.1 |
| 60 | 15.5 | 15.1 | 14.4 | 12.4 | 12.1 | |
| 125 (14.0) | -4 | -20.0 | 10.4 | 10.1 | 9.6 | 9.4 |
| | 5 | -15.0 | 11.2 | 10.7 | 10.4 | 10.2 |
| | 14 | -10.0 | 12.0 | 11.7 | 11.4 | 11.2 |
| | 23 | -5.0 | 13.6 | 13.3 | 12.6 | 12.5 |
| | 32 | 0.0 | 15.0 | 14.7 | 14.1 | 13.9 |
| | 37 | 2.5 | 15.8 | 15.4 | 14.9 | 14.7 |
| | 43 | 6.0 | 16.3 | 16.0 | 15.8 | 15.5 |
| | 46 | 7.5 | 17.3 | 17.0 | 15.8 | 15.5 |
| | 50 | 10.0 | 18.1 | 17.6 | 15.8 | 15.5 |
| | 55 | 12.5 | 18.9 | 18.4 | 15.8 | 15.5 |
| 60 | 15.5 | 19.4 | 18.4 | 15.8 | 15.5 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

3-1. Sound levels

PCFY-P-VGM-E



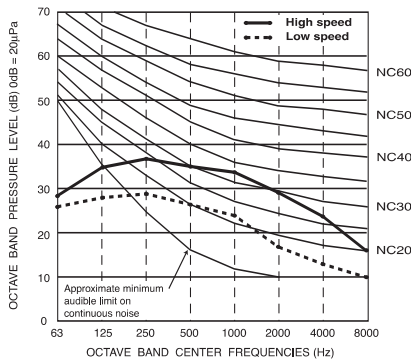
* Measured in anechoic room.

Sound level at anechoic room : Low-Middle2-Middle1-High

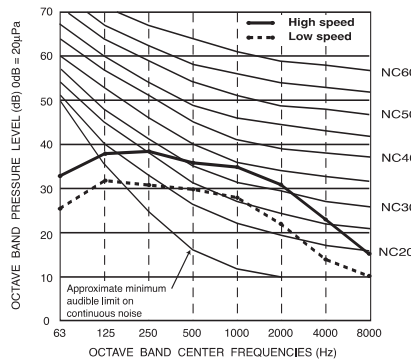
| | Sound level dB (A) |
|----------------|--------------------|
| PCFY-P40VGM-E | 29-33-36-38 |
| PCFY-P63VGM-E | 32-34-37-39 |
| PCFY-P100VGM-E | 36-38-41-43 |
| PCFY-P125VGM-E | 37-39-42-44 |

3-2. NC curves

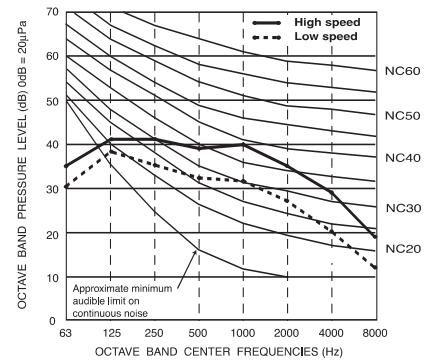
PCFY-P40VGM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



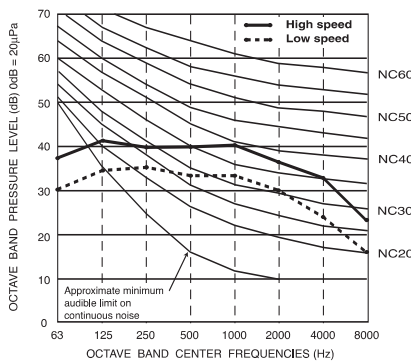
PCFY-P63VGM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



PCFY-P100VGM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



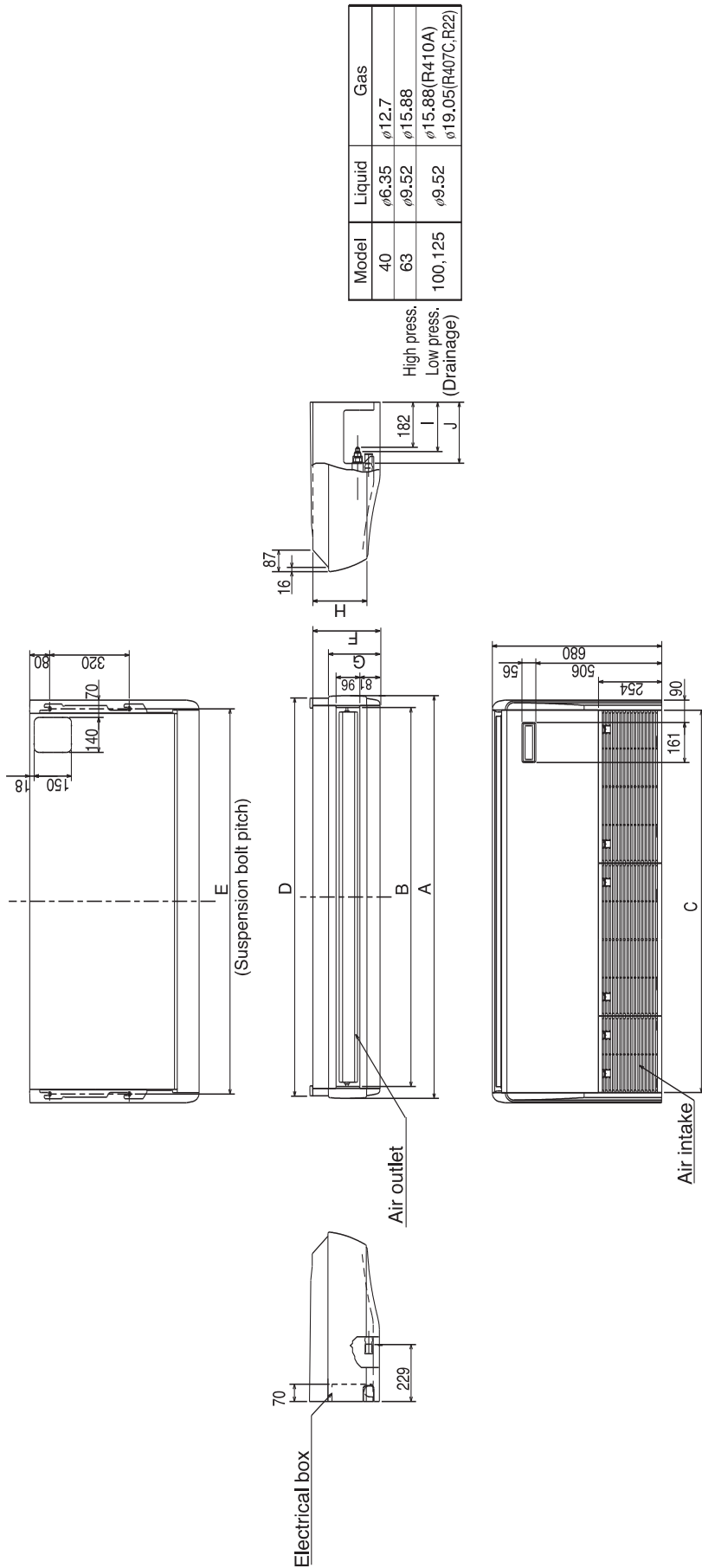
PCFY-P125VGM-E
 External static pressure : 0Pa
 Power source : 220,230,240V, 50Hz / 220V, 60Hz



4. EXTERNAL DIMENSIONS

PCFY-P40,63,100,125VGM-E

Drw. : IU-RG01-N633
Unit : mm



| Model | Liquid | Gas |
|---------|--------|------------------------------------|
| 40 | φ6.35 | φ12.7 |
| 63 | φ9.52 | φ15.88 |
| 100,125 | φ9.52 | φ15.88(R410A) φ19.05(R407C,R22) |

High press.
Low press.
(Drainage)

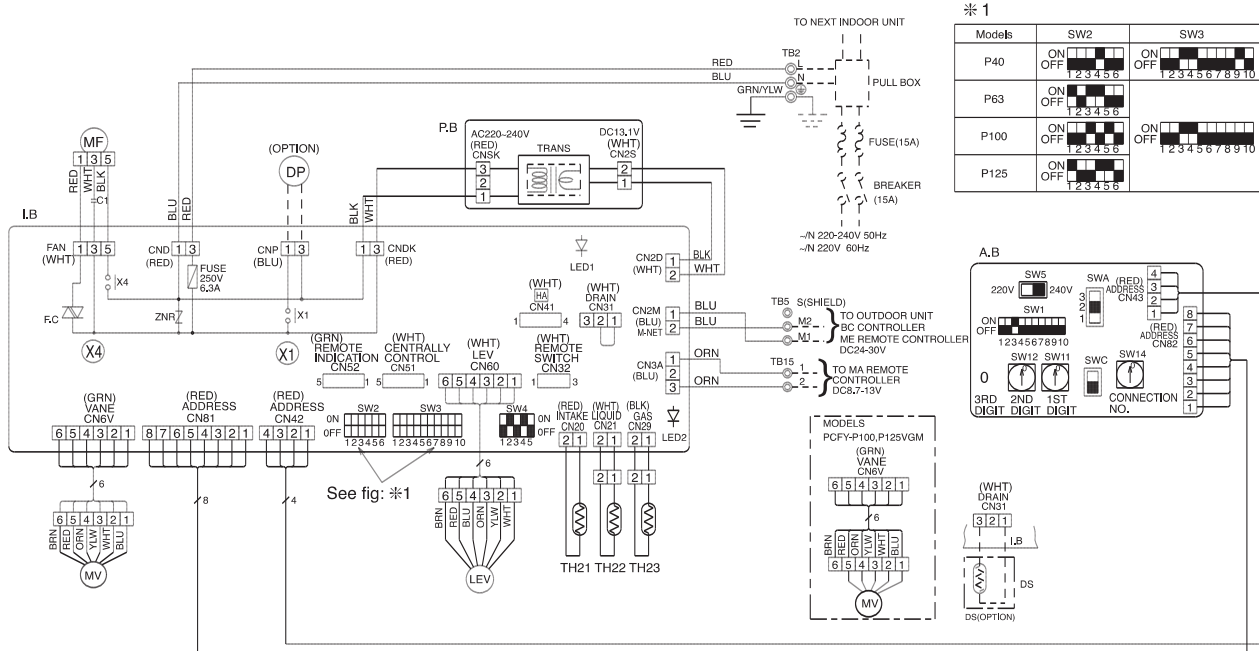
| Model | A | B | C | D | E | F | G | H | I | J |
|-----------------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| PCFY -P40VGM-E | 1,000 | 904 | 918 | 983 | 933 | 210 | 180 | 157 | 201 | 241 |
| PCFY -P63VGM-E | 1,310 | 1,214 | 1,228 | 1,290 | 1,240 | 210 | 180 | 157 | 201 | 241 |
| PCFY -P100VGM-E | 1,310 | 1,214 | 1,228 | 1,290 | 1,240 | 270 | 207 | 217 | 198 | 245 |
| PCFY -P125VGM-E | 1,620 | 1,524 | 1,535 | 1,600 | 1,547 | 270 | 207 | 217 | 198 | 245 |

PCFY-P40,63,100,125VGM-E

Draw. : IU-RG79-Y016

<SYMBOL EXPLANATION>

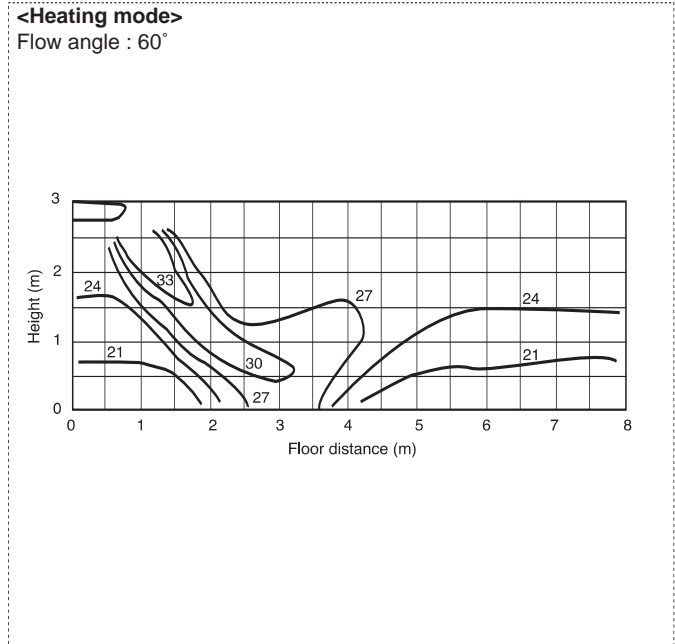
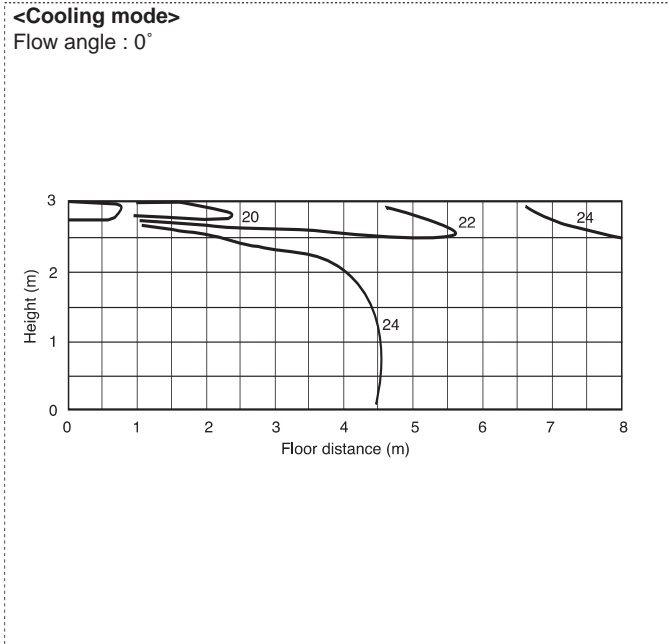
| Symbol | Name | Symbol | Name | Symbol | Name | |
|--------|-------------------------|-----------------------|------------------------------|--|--|---|
| I.B | Indoor controller board | C1 | Capacitor(fan motor) | A.B | Circuit board | |
| CN32 | Connector | LEV | Linear expansion valve | SW1 | Mode selection | |
| CN51 | | MF | Fan motor(with inner thermo) | SW5 | Voltage selection | |
| CN52 | | MV | Vane motor | SW11 | Address setting 1st digit | |
| CNP | | TH21 | Thermistor | SW12 | Address setting 2nd digit | |
| F.C | Fan phase control | TH22 | | Pipe temp. detection / Liquid (0°C/15k,25°C/5.4k) | SW14 | Connection No. |
| FUSE | Fuse (6.3A) | TH23 | | | Pipe temp. detection / Gas (0°C/15k,25°C/5.4k) | SWA |
| SW2 | Switch | TH23 | Terminal block | SWC | Option selector | |
| SW3 | | Capacity code | | TB2 | Power supply | |
| SW4 | | Mode selection | | TB5 | Transmission | |
| X1 | Aux.Relay | TB15 | MA remote controller | Led on indoor board for service | | |
| X4 | Varistor | DP | Drain-up machine (OPTION) | Mark | Meaning | |
| ZNR | | Drain sensor (OPTION) | DS | Drain sensor (OPTION) | LED1 | Main power supply Main power supply (indoor unit:220-240V) power on → lamp is lit |
| P.B | Indoor power board | | | LED2 | Power supply for MA Remote controller Power supply for MA Remote controller → lamp is lit | |



Note

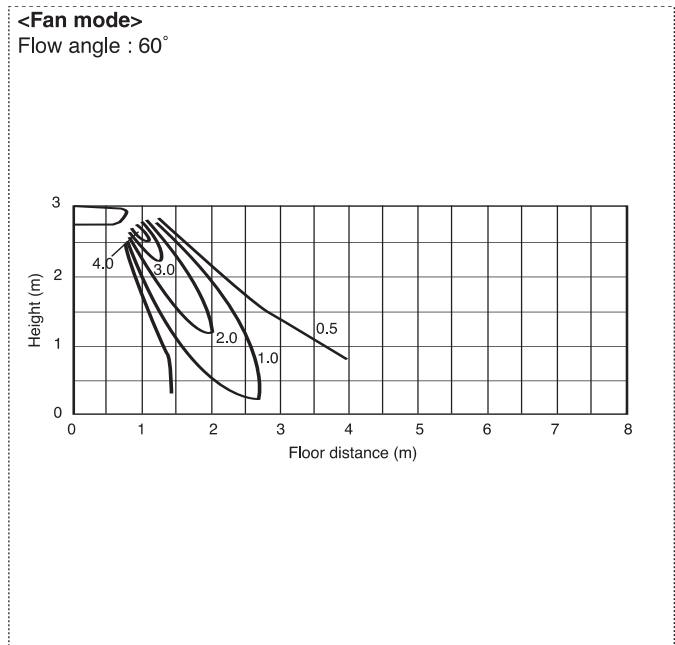
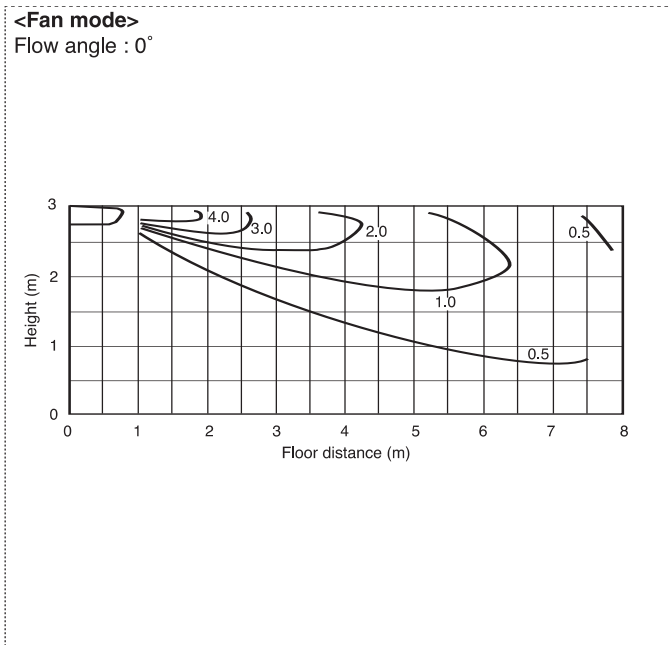
- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol[S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are,
 ◎: Terminal block, □: Connector.
- The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig: ※1.
- Please set the switch SW5 according to the power supply voltage.
 Set SW5 to 240V side when the power supply is 230 and 240 volts.
 When the power supply is 220 volts, set SW5 to 220V side.
- Fasten terminal of the terminal board "TB5" equips lock system.
 To remove the fasten terminal, pull it while pressing the protruding portion (locking lever) of the terminal.
 Connection of the fasten terminal, protruding portion should face upward.

6-1. Temperature distributions



Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.



PKFY-P-VAM-E



PKFY-P-VGM-E



PKFY-P-VFM-E

PKFY-P-VAM -E
PKFY-P-VGM -E
PKFY-P-VFM -E

| | |
|--|----------|
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| 2. CAPACITY TABLES | |
| 2-1a. Cooling capacity in combination with PUHY,PUY, PURY-P200, 250YGM | IU-I- 4 |
| 2-1b. Heating capacity in combination with PUHY, PURY-P200, 250YGM | IU-I- 5 |
| 2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM | IU-I- 6 |
| 2-2b. Heating capacity in combination with PUHY, PURY-P300, 350, 400YGM | IU-I- 7 |
| 2-3a. Cooling capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-I- 8 |
| 2-3b. Heating capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-I- 9 |
| 2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-I- 10 |
| 2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-I- 11 |
| 2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM | IU-I- 12 |
| 2-5b. Heating capacity in combination with PUMY-P100,125,140YHM | IU-I- 13 |
| 3. SOUND LEVELS | |
| 3-1. Sound levels | IU-I- 14 |
| 3-2. NC curves | IU-I- 14 |
| 4. EXTERNAL DIMENSIONS | IU-I- 15 |
| 5. ELECTRICAL WIRING DIAGRAMS | IU-I- 18 |
| 6. TEMPERATURE/AIRFLOW DISTRIBUTIONS | |
| 6-1. Temperature distributions | IU-I- 21 |
| 6-2. Airflow distributions | IU-I- 22 |

| Wall mounted | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PKFY-P-VAM-E | ● | ● | | | | | | | | | | | |
| PKFY-P-VGM-E | | | ● | ● | ● | | | | | | | | |
| PKFY-P-VFM-E | | | | | | ● | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PKFY-P20VAM-E | PKFY-P25VAM-E | PKFY-P32VGM-E | PKFY-P40VGM-E | PKFY-P50VGM-E | |
|---|--------------------------------|----------------------|---|----------------------------|--|--------------------------|--------------------------|-------|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | |
| | | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 | 4,800 | |
| | | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | |
| | | Power input | kW | 0.04 | 0.04 | 0.07 | 0.07 | 0.07 |
| | Current input | A | 0.20 | 0.20 | 0.32 | 0.32 | 0.32 | |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | |
| | | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 | 5,400 | |
| | | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | |
| | *3 | Power input | kW | 0.04 | 0.04 | 0.07 | 0.07 | 0.07 |
| | | Current input | A | 0.20 | 0.20 | 0.32 | 0.32 | 0.32 |
| External finish | | | Plastic, MUNSELL (2.60Y 8.66/0.69) | | Plastic <PS, ABS>, White MUNSELL (0.70Y 8.59/0.97) | | | |
| External dimension H x W x D | | mm | 295 x 815 x 158 | 295 x 815 x 158 | 340 x 990 x 235 | 340 x 990 x 235 | 340 x 990 x 235 | |
| | | in. | 11-5/8" x 32-1/8" x 6-1/4" | 11-5/8" x 32-1/8" x 6-1/4" | 13-7/16" x 39" x 9-5/16" | 13-7/16" x 39" x 9-5/16" | 13-7/16" x 39" x 9-5/16" | |
| Net weight | | kg (lb) | 8.5 (19) | 8.5 (19) | 16 (36) | 16 (36) | 16 (36) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | |
| FAN | Type x Quantity | | Line flow fan x 1 | Line flow fan x 1 | Line flow fan x 1 | Line flow fan x 1 | Line flow fan x 1 | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | 0 | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | | | |
| | Motor output | | kW | 0.017 | 0.017 | 0.030 | 0.030 | 0.030 |
| | Driving mechanism | | Direct-driven by motor | | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 4.9 - 5.2 - 5.6 - 5.9 | 4.9 - 5.2 - 5.6 - 5.9 | 8 - 9.5 - 10.5 - 11.5 | 8 - 9.5 - 10.5 - 11.5 | 9 - 10 - 11 - 12 | |
| L / s | | 82 - 87 - 93 - 98 | 82 - 87 - 93 - 98 | 133 - 158 - 175 - 192 | 133 - 158 - 175 - 192 | 150 - 167 - 183 - 200 | | |
| | | cfm | 173 - 184 - 198 - 208 | 173 - 184 - 198 - 208 | 283 - 335 - 371 - 406 | 283 - 335 - 371 - 406 | 318 - 353 - 388 - 424 | |
| Noise level (Low-High) (measured in anechoic room) | | dB <A> | 32 - 33 - 35 - 36 | 32 - 33 - 35 - 36 | 33 - 36 - 38 - 41 | 33 - 36 - 38 - 41 | 34 - 37 - 40 - 43 | |
| Insulation material | | | Polyester sheet | | | | | |
| Air filter | | | PP honeycomb (long life) | | | | | |
| Protection device | | | Fuse | | | | | |
| Refrigerant control device | | | LEV | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | |
| | | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | |
| | | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | |
| Unit drain pipe | | mm (in.) | O.D. ø16 (VP-16) | O.D. ø16 (VP-16) | O.D. ø20 (VP-20) | O.D. ø20 (VP-20) | O.D. ø20 (VP-20) | |
| Drawing | External | | IU-RG01-N631 | | | IU-RG01-N630 | | |
| | Wiring | | IU-RG71-J319 | | | IU-RG79-N550 | | |
| | Refrigerant cycle | | - | | | - | | |
| Standard attachment | | Document | Installation Manual, Instruction Book | | | | | |
| | | Accessory | | | | | | |
| Remark | | Optional parts | | | | | | |
| | | Installation | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|--|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | * Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PKFY-P-VGM-E

1. SPECIFICATIONS

| | | | | | | |
|---|-----------------------------|--|---|--|--|--|
| Model | | PKFY-P63VFM-E | | | | |
| Power source | | 1-phase 220-240V 50Hz, 220V 60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 7.1 | | | |
| | | kcal / h | 6,100 | | | |
| | | Btu / h | 24,200 | | | |
| | *2 | kcal / h | 6,300 | | | |
| | | Power input | kW | 0.12 | | |
| | Current input | A | 0.55 | | | |
| Heating capacity (Nominal) | *3 | kW | 8.0 | | | |
| | | kcal / h | 6,900 | | | |
| | | Btu / h | 27,300 | | | |
| | | Power input | kW | 0.12 | | |
| | | Current input | A | 0.55 | | |
| External finish | | Plastic, White MUNSELL (3.4Y 7.7/0.8) | | | | |
| External dimension H x W x D | mm | 340x1,400x235 | | | | |
| | in. | 13-7/16" x 55-1/8" x 9-5/16" | | | | |
| Net weight | kg (lb) | 24 (53 lb) | | | | |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Line flow fan x 2 | | | |
| | External static press. | Pa | 0 | | | |
| | | mmH ₂ O | 0 | | | |
| | Motor type | | 1-phase induction motor | | | |
| | Motor output | kW | 0.040 | | | |
| | Driving mechanism | | Direct-driven by motor | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 15-20 | | | |
| L / s | | 250-333 | | | | |
| cfm | | 530-706 | | | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | | dB <A> | 39-45 | | | |
| Insulation material | | Polyethylene sheet | | | | |
| Air filter | | PP honeycomb fabric | | | | |
| Protection device | | Fuse | | | | |
| Refrigerant control device | | LEV | | | | |
| Connectable outdoor unit | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø9.52 (ø3/8") Flare | | | |
| | | Gas (R410A) (R22, R407C) | mm (in.) | ø15.88 (ø5/8") Flare ø15.88 (ø5/8") Flare | | |
| Unit drain pipe | | mm (in.) | O.D. ø20 (VP-20) | | | |
| Drawing | External | | IU-RG01V219 | | | |
| | Wiring | | IU-RG79V059 | | | |
| | Refrigerant cycle | | - | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | |
| | Accessory | | | | | |
| Remark | Optional parts | | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PKFY-P-VAM-E,VGM-E,VFM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.6 | 2.6 | 1.6 | 2.8 | 1.6 |
| | 73 | 22.5 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.6 | 2.6 | 1.6 | 2.8 | 1.6 |
| | 77 | 25.0 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.4 | 1.6 | 2.6 | 1.6 | 2.7 | 1.5 |
| | 82 | 27.5 | 2.1 | 1.5 | 2.1 | 1.5 | 2.3 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.5 | 2.7 | 1.5 |
| | 86 | 30.0 | 2.0 | 1.5 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.3 | 1.5 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 91 | 32.5 | 2.0 | 1.4 | 2.1 | 1.5 | 2.2 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.6 | 1.5 |
| | 95 | 35.0 | 2.0 | 1.4 | 2.0 | 1.5 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.5 |
| | 100 | 37.5 | 1.9 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.5 | 1.4 |
| | 104 | 40.0 | 1.9 | 1.4 | 1.9 | 1.4 | 2.1 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.4 | 2.4 | 1.4 |
| | 110 | 43.0 | 1.8 | 1.4 | 1.9 | 1.4 | 2.0 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.4 | 2.4 | 1.4 |
| 25 (2.8) | 68 | 20.0 | 2.7 | 1.9 | 2.8 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 2.0 |
| | 73 | 22.5 | 2.7 | 1.9 | 2.8 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 2.0 |
| | 77 | 25.0 | 2.7 | 1.9 | 2.8 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 1.9 |
| | 82 | 27.5 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 86 | 30.0 | 2.6 | 1.8 | 2.7 | 1.9 | 2.8 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 1.9 | 3.3 | 1.9 |
| | 91 | 32.5 | 2.5 | 1.8 | 2.6 | 1.9 | 2.8 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.1 | 1.9 | 3.3 | 1.9 |
| | 95 | 35.0 | 2.5 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.0 | 1.9 | 3.2 | 1.8 |
| | 100 | 37.5 | 2.5 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | 2.7 | 1.8 | 2.8 | 1.9 | 3.0 | 1.8 | 3.1 | 1.8 |
| | 104 | 40.0 | 2.4 | 1.7 | 2.5 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.8 | 3.1 | 1.8 |
| | 110 | 43.0 | 2.4 | 1.7 | 2.4 | 1.8 | 2.6 | 1.7 | 2.6 | 1.7 | 2.7 | 1.8 | 2.8 | 1.8 | 3.0 | 1.7 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.7 | 3.5 | 2.8 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.6 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.7 | 3.5 | 2.8 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.6 | 2.8 |
| | 77 | 25.0 | 3.4 | 2.7 | 3.5 | 2.8 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 82 | 27.5 | 3.4 | 2.7 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.9 | 4.1 | 2.8 | 4.4 | 2.8 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.7 | 3.7 | 2.7 | 3.8 | 2.8 | 4.0 | 2.8 | 4.3 | 2.7 |
| | 91 | 32.5 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.6 | 3.7 | 2.7 | 3.8 | 2.8 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 95 | 35.0 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.7 | 4.1 | 2.7 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.6 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.7 | 2.7 | 4.0 | 2.6 |
| | 110 | 43.0 | 3.0 | 2.5 | 3.1 | 2.6 | 3.3 | 2.5 | 3.3 | 2.6 | 3.5 | 2.7 | 3.6 | 2.6 | 3.9 | 2.6 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.9 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 73 | 22.5 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.9 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 77 | 25.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.9 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 82 | 27.5 | 4.3 | 3.2 | 4.4 | 3.3 | 4.6 | 3.2 | 4.8 | 3.3 | 4.9 | 3.4 | 5.2 | 3.3 | 5.5 | 3.3 |
| | 86 | 30.0 | 4.2 | 3.2 | 4.3 | 3.2 | 4.6 | 3.2 | 4.7 | 3.2 | 4.8 | 3.4 | 5.0 | 3.3 | 5.4 | 3.3 |
| | 91 | 32.5 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.6 | 3.2 | 4.7 | 3.3 | 5.0 | 3.3 | 5.3 | 3.2 |
| | 95 | 35.0 | 4.0 | 3.1 | 4.1 | 3.2 | 4.4 | 3.1 | 4.5 | 3.2 | 4.6 | 3.3 | 4.9 | 3.2 | 5.2 | 3.2 |
| | 100 | 37.5 | 3.9 | 3.0 | 4.1 | 3.1 | 4.3 | 3.1 | 4.4 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.0 | 3.1 |
| | 104 | 40.0 | 3.9 | 3.0 | 4.0 | 3.1 | 4.2 | 3.1 | 4.3 | 3.1 | 4.5 | 3.2 | 4.7 | 3.1 | 5.0 | 3.1 |
| | 110 | 43.0 | 3.8 | 3.0 | 3.9 | 3.0 | 4.1 | 3.0 | 4.2 | 3.0 | 4.3 | 3.2 | 4.5 | 3.1 | 4.8 | 3.1 |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 73 | 22.5 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 77 | 25.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.0 | 6.6 | 4.0 | 6.9 | 3.9 |
| | 82 | 27.5 | 5.3 | 3.8 | 5.5 | 3.9 | 5.8 | 3.8 | 5.9 | 3.9 | 6.1 | 4.0 | 6.4 | 3.9 | 6.8 | 3.9 |
| | 86 | 30.0 | 5.2 | 3.7 | 5.3 | 3.8 | 5.7 | 3.8 | 5.8 | 3.8 | 6.0 | 3.9 | 6.3 | 3.9 | 6.7 | 3.8 |
| | 91 | 32.5 | 5.1 | 3.7 | 5.3 | 3.8 | 5.5 | 3.7 | 5.7 | 3.7 | 5.9 | 3.9 | 6.2 | 3.8 | 6.6 | 3.8 |
| | 95 | 35.0 | 5.0 | 3.6 | 5.2 | 3.7 | 5.5 | 3.7 | 5.6 | 3.7 | 5.7 | 3.8 | 6.0 | 3.8 | 6.4 | 3.7 |
| | 100 | 37.5 | 4.9 | 3.6 | 5.0 | 3.7 | 5.3 | 3.6 | 5.5 | 3.6 | 5.6 | 3.8 | 5.9 | 3.7 | 6.3 | 3.7 |
| | 104 | 40.0 | 4.8 | 3.5 | 5.0 | 3.6 | 5.3 | 3.6 | 5.4 | 3.6 | 5.5 | 3.7 | 5.8 | 3.7 | 6.2 | 3.6 |
| | 110 | 43.0 | 4.7 | 3.5 | 4.8 | 3.6 | 5.1 | 3.5 | 5.2 | 3.5 | 5.4 | 3.7 | 5.7 | 3.6 | 6.0 | 3.6 |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.2 | 7.0 | 5.4 | 7.5 | 5.3 | 7.7 | 5.4 | 7.9 | 5.6 | 8.4 | 5.6 | 9.0 | 5.5 |
| | 73 | 22.5 | 6.7 | 5.2 | 7.0 | 5.4 | 7.5 | 5.3 | 7.7 | 5.4 | 7.9 | 5.6 | 8.4 | 5.6 | 9.0 | 5.5 |
| | 77 | 25.0 | 6.7 | 5.2 | 7.0 | 5.4 | 7.5 | 5.3 | 7.7 | 5.4 | 7.8 | 5.6 | 8.3 | 5.5 | 8.8 | 5.4 |
| | 82 | 27.5 | 6.7 | 5.2 | 6.9 | 5.3 | 7.3 | 5.3 | 7.5 | 5.4 | 7.7 | 5.6 | 8.1 | 5.5 | 8.7 | 5.4 |
| | 86 | 30.0 | 6.6 | 5.1 | 6.8 | 5.3 | 7.2 | 5.2 | 7.4 | 5.3 | 7.6 | 5.5 | 8.0 | 5.4 | 8.5 | 5.3 |
| | 91 | 32.5 | 6.5 | 5.1 | 6.7 | 5.2 | 7.0 | 5.1 | 7.2 | 5.2 | 7.4 | 5.4 | 7.8 | 5.3 | 8.3 | 5.3 |
| | 95 | 35.0 | 6.4 | 5.0 | 6.5 | 5.2 | 6.9 | 5.1 | 7.1 | 5.2 | 7.3 | 5.4 | 7.7 | 5.3 | 8.1 | 5.2 |
| | 100 | 37.5 | 6.2 | 4.9 | 6.4 | 5.1 | 6.8 | 5.0 | 6.9 | 5.1 | 7.1 | 5.3 | 7.5 | 5.2 | 8.0 | 5.1 |
| | 104 | 40.0 | 6.1 | 4.9 | 6.3 | 5.0 | 6.7 | 5.0 | 6.8 | 5.1 | 7.0 | 5.3 | 7.3 | 5.2 | 7.8 | 5.1 |
| | 110 | 43.0 | 6.0 | 4.8 | 6.1 | 5.0 | 6.5 | 4.9 | 6.6 | 5.0 | 6.8 | 5.2 | 7.2 | 5.1 | 7.6 | 5.0 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.8 | 11.0 | 8.0 | 11.8 | 8.0 | 12.1 | 8.1 | 12.5 | 8.4 | 13.2 | 8.2 | 14.2 | 8.2 |
| | 73 | 22.5 | 10.6 | 7.8 | 11.0 | 8.0 | 11.8 | 8.0 | 12.1 | 8.1 | 12.5 | 8.4 | 13.2 | 8.2 | 14.2 | 8.2 |
| | 77 | 25.0 | 10.6 | 7.8 | 11.0 | 8.0 | 11.8 | 8.0 | 12.1 | 8.1 | 12.4 | 8.3 | 13.1 | 8.2 | 13.9 | 8.1 |
| | 82 | 27.5 | 10.6 | 7.7 | 10.9 | 8.0 | 11.5 | 7.9 | 11.9 | 8.0 | 12.2 | 8.2 | 12.8 | 8.1 | 13.7 | 8.0 |
| | 86 | 30.0 | 10.4 | 7.7 | 10.7 | 7.9 | 11.3 | 7.8 | 11.6 | 7.9 | 11.9 | 8.1 | 12.5 | 8.0 | 13.4 | 7.9 |
| | 91 | 32.5 | 10.2 | 7.5 | 10.5 | 7.8 | 11.1 | 7.7 | 11.4 | 7.7 | 11.7 | 8.0 | 12.3 | 7.9 | 13.1 | 7.8 |
| | 95 | 35.0 | 10.0 | 7.5 | 10.3 | 7.7 | 10.9 | 7.6 | 11.2 | 7.7 | 11.5 | 7.9 | 12.1 | 7.8 | 12.8 | 7.7 |
| | 100 | 37.5 | 9.8 | 7.4 | 10.1 | 7.6 | 10.7 | 7.5 | 10.9 | 7.6 | 11.3 | 7.8 | 11.9 | 7.7 | 12.5 | 7.6 |
| | 104 | 40.0 | 9.6 | 7.3 | 9.9 | 7.5 | 10.5 | 7.4 | 10.8 | 7.5 | 11.1 | 7.8 | 11.6 | 7.6 | 12.3 | 7.5 |
| | 110 | 43.0 | 9.4 | 7.2 | 9.7 | 7.4 | 10.2 | 7.3 | 10.4 | 7.3 | 10.8 | 7.6 | 11.3 | 7.5 | 12.0 | 7.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PUY,PURY-P200,250YGM

PKFY-P-VAM-E,VGM-E,VFM-E SHC : Sensible Heat Capacity(kW)

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 50 (5.6) | -4 | -20.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.6 | 4.5 | 4.4 | 4.3 |
| | 23 | -5.0 | 5.3 | 5.2 | 5.0 | 4.4 |
| | 32 | 0.0 | 6.0 | 5.9 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.3 | 6.2 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.6 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.8 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.2 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.6 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 8.1 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |
| 100 (11.2) | -4 | -20.0 | 6.4 | 6.3 | 6.3 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.4 |
| | 14 | -10.0 | 9.1 | 9.0 | 8.8 | 8.6 |
| | 23 | -5.0 | 10.5 | 10.4 | 10.0 | 8.8 |
| | 32 | 0.0 | 11.8 | 11.8 | 10.0 | 8.8 |
| | 37 | 2.5 | 12.5 | 12.4 | 10.0 | 8.8 |
| | 43 | 6.0 | 13.0 | 12.5 | 10.0 | 8.8 |
| | 46 | 7.5 | 13.4 | 12.5 | 10.0 | 8.8 |
| | 50 | 10.0 | 14.3 | 12.5 | 10.0 | 8.8 |
| | 55 | 12.5 | 15.1 | 12.5 | 10.0 | 8.8 |
| 60 | 15.5 | 16.0 | 12.5 | 10.0 | 8.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PKFY-P-VAM-E,VGM-E,VFM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|------------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|
| | | | 71°FDB/59°FWB | | 73°FDB/61°FWB | | 77°FDB/64°FWB | | 81°FDB/66°FWB | | 82°FDB/68°FWB | | 86°FDB/72°FWB | | 90°FDB/75°FWB | |
| | | | 21.5°CDB/15°CWB | | 23°CDB/16°CWB | | 25°CDB/18°CWB | | 27°CDB/19°CWB | | 28°CDB/20°CWB | | 30°CDB/22°CWB | | 32°CDB/24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.5 | 2.2 | 1.6 | 2.4 | 1.6 | 2.5 | 1.6 | 2.5 | 1.6 | 2.7 | 1.6 | 2.9 | 1.6 |
| | 73 | 22.5 | 2.1 | 1.5 | 2.2 | 1.6 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.6 | 2.6 | 1.6 | 2.8 | 1.6 |
| | 77 | 25.0 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.4 | 1.6 | 2.6 | 1.6 | 2.8 | 1.5 |
| | 82 | 27.5 | 2.1 | 1.5 | 2.1 | 1.5 | 2.3 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.6 | 2.7 | 1.5 |
| | 86 | 30.0 | 2.0 | 1.5 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 91 | 32.5 | 2.0 | 1.4 | 2.0 | 1.5 | 2.2 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.6 | 1.5 |
| | 95 | 35.0 | 2.0 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.5 |
| | 100 | 37.5 | 1.9 | 1.4 | 1.9 | 1.4 | 2.1 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.4 | 1.5 | 2.5 | 1.4 |
| | 104 | 40.0 | 1.9 | 1.4 | 1.9 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.4 | 1.6 | 2.3 | 1.5 | 2.4 | 1.4 |
| | 110 | 43.0 | 1.8 | 1.4 | 1.8 | 1.4 | 2.0 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.4 | 2.4 | 1.4 |
| 25 (2.8) | 68 | 20.0 | 2.7 | 1.9 | 2.8 | 2.0 | 3.0 | 2.0 | 3.1 | 2.0 | 3.2 | 2.1 | 3.4 | 2.0 | 3.6 | 2.0 |
| | 73 | 22.5 | 2.7 | 1.9 | 2.8 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.2 | 2.0 | 3.4 | 2.0 | 3.6 | 2.0 |
| | 77 | 25.0 | 2.7 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 1.9 |
| | 82 | 27.5 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 86 | 30.0 | 2.6 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 91 | 32.5 | 2.5 | 1.8 | 2.6 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 2.9 | 1.9 | 3.1 | 1.9 | 3.3 | 1.9 |
| | 95 | 35.0 | 2.5 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.1 | 1.9 | 3.2 | 1.8 |
| | 100 | 37.5 | 2.5 | 1.8 | 2.5 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | 2.8 | 1.9 | 3.0 | 1.8 | 3.2 | 1.8 |
| | 104 | 40.0 | 2.4 | 1.7 | 2.4 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | 3.0 | 2.0 | 2.9 | 1.8 | 3.1 | 1.8 |
| | 110 | 43.0 | 2.4 | 1.7 | 2.4 | 1.7 | 2.5 | 1.7 | 2.6 | 1.7 | 2.7 | 1.8 | 2.8 | 1.8 | 3.0 | 1.8 |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.7 | 3.6 | 2.8 | 3.9 | 2.8 | 4.0 | 2.8 | 4.2 | 2.9 | 4.4 | 2.9 | 4.7 | 2.9 |
| | 73 | 22.5 | 3.5 | 2.7 | 3.6 | 2.8 | 3.8 | 2.8 | 4.0 | 2.8 | 4.1 | 2.9 | 4.3 | 2.9 | 4.6 | 2.8 |
| | 77 | 25.0 | 3.4 | 2.7 | 3.5 | 2.7 | 3.8 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 82 | 27.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.9 | 4.2 | 2.8 | 4.4 | 2.8 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 91 | 32.5 | 3.3 | 2.6 | 3.3 | 2.7 | 3.5 | 2.6 | 3.7 | 2.7 | 3.8 | 2.8 | 4.0 | 2.8 | 4.2 | 2.7 |
| | 95 | 35.0 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.7 | 4.2 | 2.7 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.7 | 4.1 | 2.7 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.1 | 2.6 | 3.3 | 2.5 | 3.4 | 2.6 | 3.9 | 2.8 | 3.8 | 2.7 | 4.0 | 2.6 |
| | 110 | 43.0 | 3.0 | 2.5 | 3.0 | 2.5 | 3.2 | 2.5 | 3.3 | 2.6 | 3.4 | 2.7 | 3.7 | 2.6 | 3.9 | 2.6 |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.2 | 4.5 | 3.3 | 4.9 | 3.3 | 5.0 | 3.4 | 5.2 | 3.5 | 5.5 | 3.5 | 5.9 | 3.4 |
| | 73 | 22.5 | 4.3 | 3.2 | 4.5 | 3.3 | 4.8 | 3.3 | 5.0 | 3.4 | 5.1 | 3.5 | 5.4 | 3.4 | 5.7 | 3.4 |
| | 77 | 25.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.9 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 82 | 27.5 | 4.2 | 3.2 | 4.3 | 3.2 | 4.6 | 3.2 | 4.8 | 3.3 | 4.9 | 3.4 | 5.2 | 3.4 | 5.5 | 3.3 |
| | 86 | 30.0 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.7 | 3.2 | 4.8 | 3.4 | 5.1 | 3.3 | 5.4 | 3.3 |
| | 91 | 32.5 | 4.1 | 3.1 | 4.2 | 3.2 | 4.4 | 3.1 | 4.6 | 3.2 | 4.7 | 3.3 | 5.0 | 3.3 | 5.3 | 3.2 |
| | 95 | 35.0 | 4.0 | 3.1 | 4.1 | 3.1 | 4.3 | 3.1 | 4.5 | 3.2 | 4.6 | 3.3 | 4.9 | 3.2 | 5.2 | 3.2 |
| | 100 | 37.5 | 4.0 | 3.0 | 4.0 | 3.1 | 4.3 | 3.1 | 4.4 | 3.1 | 4.5 | 3.3 | 4.8 | 3.2 | 5.1 | 3.2 |
| | 104 | 40.0 | 3.9 | 3.0 | 3.9 | 3.0 | 4.2 | 3.0 | 4.3 | 3.1 | 4.9 | 3.4 | 4.7 | 3.2 | 5.0 | 3.1 |
| | 110 | 43.0 | 3.8 | 3.0 | 3.8 | 3.0 | 4.1 | 3.0 | 4.2 | 3.0 | 4.3 | 3.2 | 4.6 | 3.1 | 4.8 | 3.1 |
| 50 (5.6) | 68 | 20.0 | 5.4 | 3.8 | 5.6 | 4.0 | 6.0 | 4.0 | 6.3 | 4.0 | 6.5 | 4.2 | 6.9 | 4.1 | 7.3 | 4.0 |
| | 73 | 22.5 | 5.4 | 3.8 | 5.6 | 3.9 | 6.0 | 3.9 | 6.2 | 4.0 | 6.4 | 4.1 | 6.7 | 4.0 | 7.1 | 4.0 |
| | 77 | 25.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.9 | 3.9 | 6.0 | 3.9 | 6.2 | 4.0 | 6.6 | 4.0 | 7.0 | 3.9 |
| | 82 | 27.5 | 5.2 | 3.7 | 5.4 | 3.8 | 5.7 | 3.8 | 5.9 | 3.9 | 6.1 | 4.0 | 6.5 | 3.9 | 6.9 | 3.9 |
| | 86 | 30.0 | 5.2 | 3.7 | 5.3 | 3.8 | 5.6 | 3.8 | 5.8 | 3.8 | 6.0 | 3.9 | 6.4 | 3.9 | 6.7 | 3.8 |
| | 91 | 32.5 | 5.1 | 3.7 | 5.2 | 3.7 | 5.5 | 3.7 | 5.7 | 3.8 | 5.9 | 3.9 | 6.2 | 3.8 | 6.6 | 3.8 |
| | 95 | 35.0 | 5.0 | 3.6 | 5.1 | 3.7 | 5.4 | 3.6 | 5.6 | 3.7 | 5.8 | 3.8 | 6.1 | 3.8 | 6.5 | 3.7 |
| | 100 | 37.5 | 4.9 | 3.6 | 5.0 | 3.6 | 5.3 | 3.6 | 5.5 | 3.6 | 5.7 | 3.8 | 6.0 | 3.7 | 6.3 | 3.7 |
| | 104 | 40.0 | 4.8 | 3.5 | 4.8 | 3.6 | 5.2 | 3.5 | 5.3 | 3.6 | 6.1 | 4.0 | 5.9 | 3.7 | 6.2 | 3.6 |
| | 110 | 43.0 | 4.7 | 3.5 | 4.7 | 3.5 | 5.0 | 3.5 | 5.2 | 3.5 | 5.3 | 3.7 | 5.7 | 3.6 | 6.0 | 3.6 |
| 63 (7.1) | 68 | 20.0 | 6.9 | 5.3 | 7.1 | 5.4 | 7.7 | 5.4 | 8.0 | 5.5 | 8.2 | 5.8 | 8.7 | 5.7 | 9.2 | 5.6 |
| | 73 | 22.5 | 6.9 | 5.2 | 7.1 | 5.4 | 7.6 | 5.4 | 7.8 | 5.5 | 8.1 | 5.7 | 8.5 | 5.6 | 9.1 | 5.5 |
| | 77 | 25.0 | 6.8 | 5.2 | 7.0 | 5.4 | 7.4 | 5.3 | 7.7 | 5.4 | 7.9 | 5.6 | 8.4 | 5.6 | 8.9 | 5.5 |
| | 82 | 27.5 | 6.6 | 5.1 | 6.8 | 5.3 | 7.3 | 5.3 | 7.5 | 5.4 | 7.8 | 5.6 | 8.2 | 5.5 | 8.7 | 5.4 |
| | 86 | 30.0 | 6.5 | 5.1 | 6.7 | 5.2 | 7.1 | 5.2 | 7.4 | 5.3 | 7.6 | 5.5 | 8.1 | 5.4 | 8.5 | 5.3 |
| | 91 | 32.5 | 6.4 | 5.0 | 6.6 | 5.2 | 7.0 | 5.1 | 7.2 | 5.2 | 7.5 | 5.4 | 7.9 | 5.4 | 8.4 | 5.3 |
| | 95 | 35.0 | 6.3 | 5.0 | 6.4 | 5.1 | 6.8 | 5.1 | 7.1 | 5.2 | 7.3 | 5.4 | 7.7 | 5.3 | 8.2 | 5.2 |
| | 100 | 37.5 | 6.2 | 5.0 | 6.3 | 5.0 | 6.7 | 5.0 | 6.9 | 5.1 | 7.2 | 5.3 | 7.6 | 5.3 | 8.0 | 5.2 |
| | 104 | 40.0 | 6.1 | 4.9 | 6.1 | 5.0 | 6.6 | 5.0 | 6.8 | 5.1 | 7.7 | 5.5 | 7.4 | 5.2 | 7.8 | 5.1 |
| | 110 | 43.0 | 6.0 | 4.8 | 6.0 | 4.9 | 6.4 | 4.9 | 6.6 | 5.0 | 6.8 | 5.2 | 7.2 | 5.1 | 7.6 | 5.0 |
| 100 (11.2) | 68 | 20.0 | 10.9 | 7.9 | 11.3 | 8.1 | 12.1 | 8.1 | 12.5 | 8.2 | 12.9 | 8.6 | 13.7 | 8.4 | 14.6 | 8.3 |
| | 73 | 22.5 | 10.8 | 7.9 | 11.2 | 8.1 | 11.9 | 8.0 | 12.3 | 8.2 | 12.7 | 8.5 | 13.5 | 8.3 | 14.3 | 8.2 |
| | 77 | 25.0 | 10.7 | 7.8 | 11.0 | 8.0 | 11.7 | 7.9 | 12.1 | 8.1 | 12.5 | 8.4 | 13.2 | 8.2 | 14.0 | 8.1 |
| | 82 | 27.5 | 10.5 | 7.7 | 10.8 | 7.9 | 11.5 | 7.8 | 11.9 | 8.0 | 12.2 | 8.3 | 13.0 | 8.1 | 13.7 | 8.0 |
| | 86 | 30.0 | 10.3 | 7.6 | 10.5 | 7.8 | 11.3 | 7.7 | 11.6 | 7.9 | 12.0 | 8.1 | 12.8 | 8.1 | 13.4 | 7.9 |
| | 91 | 32.5 | 10.1 | 7.5 | 10.4 | 7.7 | 11.0 | 7.6 | 11.4 | 7.8 | 11.8 | 8.1 | 12.4 | 7.9 | 13.2 | 7.8 |
| | 95 | 35.0 | 10.0 | 7.4 | 10.1 | 7.6 | 10.8 | 7.5 | 11.2 | 7.7 | 11.5 | 8.0 | 12.2 | 7.8 | 12.9 | 7.7 |
| | 100 | 37.5 | 9.9 | 7.4 | 9.9 | 7.5 | 10.6 | 7.4 | 10.9 | 7.6 | 11.3 | 7.9 | 12.0 | 7.8 | 12.7 | 7.6 |
| | 104 | 40.0 | 9.7 | 7.3 | 9.7 | 7.4 | 10.4 | 7.3 | 10.7 | 7.5 | 12.2 | 8.2 | 11.7 | 7.6 | 12.4 | 7.5 |
| | 110 | 43.0 | 9.4 | 7.2 | 9.4 | 7.2 | 10.1 | 7.2 | 10.4 | 7.3 | 10.7 | 7.6 | 11.4 | 7.5 | 12.0 | 7.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PKFY-P-VAM-E,VGM-E,VFM-E SHC : Sensible Heat Capacity(kW)

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 55 | 12.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 55 | 12.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.0 |
| | 5 | -15.0 | 3.8 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.4 | 4.4 | 4.3 | 4.0 |
| | 23 | -5.0 | 5.0 | 5.0 | 4.7 | 4.0 |
| | 32 | 0.0 | 5.7 | 5.7 | 4.7 | 4.0 |
| | 37 | 2.5 | 6.0 | 6.0 | 4.7 | 4.0 |
| | 43 | 6.0 | 6.5 | 6.3 | 4.7 | 4.0 |
| | 46 | 7.5 | 6.7 | 6.3 | 4.7 | 4.0 |
| | 50 | 10.0 | 7.0 | 6.3 | 4.7 | 4.0 |
| | 55 | 12.5 | 7.2 | 6.3 | 4.7 | 4.0 |
| 60 | 15.5 | 7.2 | 6.3 | 4.7 | 4.0 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 55 | 12.5 | 9.2 | 8.0 | 6.0 | 5.1 |
| 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 | |
| 100 (11.2) | -4 | -20.0 | 6.5 | 6.3 | 6.3 | 6.0 |
| | 5 | -15.0 | 7.5 | 7.5 | 7.5 | 7.3 |
| | 14 | -10.0 | 8.8 | 8.8 | 8.6 | 8.0 |
| | 23 | -5.0 | 10.0 | 10.0 | 9.4 | 8.0 |
| | 32 | 0.0 | 11.3 | 11.3 | 9.4 | 8.0 |
| | 37 | 2.5 | 11.9 | 11.8 | 9.4 | 8.0 |
| | 43 | 6.0 | 12.8 | 12.5 | 9.4 | 8.0 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.4 | 8.0 |
| | 50 | 10.0 | 13.8 | 12.5 | 9.4 | 8.0 |
| | 55 | 12.5 | 14.4 | 12.5 | 9.4 | 8.0 |
| 60 | 15.5 | 14.4 | 12.5 | 9.4 | 8.0 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PKFY-P-VAM-E,VGM-E,VFM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.5 | 2.1 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.6 | 2.6 | 1.6 | 2.8 | 1.6 |
| | 73 | 22.5 | 2.1 | 1.5 | 2.1 | 1.5 | 2.3 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.6 | 1.6 | 2.7 | 1.5 |
| | 77 | 25.0 | 2.0 | 1.5 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.6 | 1.6 | 2.7 | 1.5 |
| | 82 | 27.5 | 2.0 | 1.5 | 2.1 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 86 | 30.0 | 2.0 | 1.4 | 2.0 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.5 | 2.7 | 1.5 |
| | 91 | 32.5 | 2.0 | 1.4 | 2.0 | 1.5 | 2.2 | 1.5 | 2.2 | 1.5 | 2.3 | 1.5 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 95 | 35.0 | 2.0 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 100 | 37.5 | 1.9 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.4 | 2.3 | 1.5 | 2.4 | 1.5 | 2.6 | 1.5 |
| | 104 | 40.0 | 1.9 | 1.4 | 1.9 | 1.4 | 2.1 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.4 | 1.5 | 2.6 | 1.5 |
| | 110 | 43.0 | 1.9 | 1.4 | 1.9 | 1.4 | 2.1 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.4 | 1.5 | 2.6 | 1.5 |
| 25 (2.8) | 68 | 20.0 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 1.9 |
| | 73 | 22.5 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 1.9 |
| | 77 | 25.0 | 2.6 | 1.8 | 2.7 | 1.9 | 2.9 | 1.9 | 2.9 | 1.9 | 3.1 | 2.0 | 3.2 | 1.9 | 3.5 | 1.9 |
| | 82 | 27.5 | 2.6 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 | 2.9 | 1.9 | 3.0 | 2.0 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 86 | 30.0 | 2.5 | 1.8 | 2.6 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.0 | 1.9 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 91 | 32.5 | 2.5 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 3.0 | 1.9 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 95 | 35.0 | 2.5 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.1 | 1.9 | 3.3 | 1.9 |
| | 100 | 37.5 | 2.5 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.1 | 1.9 | 3.3 | 1.9 |
| | 104 | 40.0 | 2.4 | 1.7 | 2.5 | 1.8 | 2.7 | 1.8 | 2.7 | 1.8 | 2.9 | 1.9 | 3.1 | 1.9 | 3.3 | 1.9 |
| | 110 | 43.0 | 2.4 | 1.7 | 2.5 | 1.8 | 2.6 | 1.8 | 2.7 | 1.8 | 2.8 | 1.9 | 3.0 | 1.9 | 3.2 | 1.8 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.7 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 77 | 25.0 | 3.3 | 2.6 | 3.4 | 2.7 | 3.7 | 2.7 | 3.8 | 2.7 | 3.9 | 2.9 | 4.2 | 2.8 | 4.4 | 2.8 |
| | 82 | 27.5 | 3.3 | 2.6 | 3.4 | 2.7 | 3.6 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 86 | 30.0 | 3.3 | 2.6 | 3.3 | 2.7 | 3.6 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.1 | 2.8 | 4.4 | 2.8 |
| | 91 | 32.5 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.8 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 95 | 35.0 | 3.2 | 2.6 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.7 | 2.8 | 4.0 | 2.8 | 4.3 | 2.7 |
| | 100 | 37.5 | 3.2 | 2.5 | 3.2 | 2.6 | 3.5 | 2.6 | 3.5 | 2.6 | 3.7 | 2.8 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 104 | 40.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.7 | 2.8 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 110 | 43.0 | 3.1 | 2.5 | 3.2 | 2.6 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.7 | 4.2 | 2.7 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.8 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 73 | 22.5 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.2 | 4.8 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 77 | 25.0 | 4.2 | 3.2 | 4.3 | 3.2 | 4.6 | 3.2 | 4.7 | 3.3 | 4.9 | 3.4 | 5.2 | 3.4 | 5.6 | 3.3 |
| | 82 | 27.5 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.7 | 3.2 | 4.9 | 3.4 | 5.2 | 3.3 | 5.4 | 3.3 |
| | 86 | 30.0 | 4.1 | 3.1 | 4.2 | 3.2 | 4.5 | 3.2 | 4.6 | 3.2 | 4.8 | 3.4 | 5.1 | 3.3 | 5.4 | 3.3 |
| | 91 | 32.5 | 4.1 | 3.1 | 4.1 | 3.2 | 4.4 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.1 | 3.3 | 5.4 | 3.3 |
| | 95 | 35.0 | 4.0 | 3.1 | 4.1 | 3.1 | 4.4 | 3.1 | 4.5 | 3.2 | 4.7 | 3.3 | 5.0 | 3.3 | 5.4 | 3.2 |
| | 100 | 37.5 | 4.0 | 3.0 | 4.0 | 3.1 | 4.3 | 3.1 | 4.4 | 3.1 | 4.7 | 3.3 | 5.0 | 3.3 | 5.3 | 3.2 |
| | 104 | 40.0 | 3.9 | 3.0 | 4.0 | 3.1 | 4.3 | 3.1 | 4.4 | 3.1 | 4.6 | 3.3 | 5.0 | 3.3 | 5.3 | 3.2 |
| | 110 | 43.0 | 3.9 | 3.0 | 3.9 | 3.1 | 4.2 | 3.1 | 4.3 | 3.1 | 4.5 | 3.3 | 4.9 | 3.2 | 5.2 | 3.2 |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.8 | 3.8 | 6.0 | 3.9 | 6.2 | 4.1 | 6.6 | 4.0 | 7.1 | 3.9 |
| | 73 | 22.5 | 5.3 | 3.8 | 5.4 | 3.8 | 5.8 | 3.8 | 5.9 | 3.9 | 6.2 | 4.0 | 6.6 | 4.0 | 7.0 | 3.9 |
| | 77 | 25.0 | 5.2 | 3.7 | 5.3 | 3.8 | 5.7 | 3.8 | 5.9 | 3.8 | 6.1 | 4.0 | 6.5 | 3.9 | 6.9 | 3.9 |
| | 82 | 27.5 | 5.2 | 3.7 | 5.3 | 3.8 | 5.7 | 3.8 | 5.8 | 3.8 | 6.0 | 4.0 | 6.4 | 3.9 | 6.7 | 3.8 |
| | 86 | 30.0 | 5.1 | 3.7 | 5.2 | 3.7 | 5.6 | 3.7 | 5.8 | 3.8 | 6.0 | 3.9 | 6.4 | 3.9 | 6.8 | 3.8 |
| | 91 | 32.5 | 5.0 | 3.6 | 5.2 | 3.7 | 5.5 | 3.7 | 5.7 | 3.7 | 5.9 | 3.9 | 6.3 | 3.9 | 6.7 | 3.8 |
| | 95 | 35.0 | 5.0 | 3.6 | 5.1 | 3.7 | 5.5 | 3.7 | 5.6 | 3.7 | 5.8 | 3.9 | 6.3 | 3.9 | 6.7 | 3.8 |
| | 100 | 37.5 | 4.9 | 3.6 | 5.0 | 3.7 | 5.4 | 3.6 | 5.5 | 3.7 | 5.8 | 3.9 | 6.2 | 3.8 | 6.6 | 3.8 |
| | 104 | 40.0 | 4.8 | 3.5 | 5.0 | 3.6 | 5.3 | 3.6 | 5.4 | 3.6 | 5.7 | 3.8 | 6.2 | 3.8 | 6.6 | 3.8 |
| | 110 | 43.0 | 4.8 | 3.5 | 4.9 | 3.6 | 5.3 | 3.6 | 5.4 | 3.6 | 5.7 | 3.8 | 6.0 | 3.8 | 6.5 | 3.7 |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.2 | 6.9 | 5.3 | 7.4 | 5.3 | 7.6 | 5.4 | 7.9 | 5.6 | 8.4 | 5.6 | 8.9 | 5.5 |
| | 73 | 22.5 | 6.7 | 5.2 | 6.9 | 5.3 | 7.3 | 5.3 | 7.5 | 5.4 | 7.8 | 5.6 | 8.3 | 5.5 | 8.8 | 5.5 |
| | 77 | 25.0 | 6.6 | 5.1 | 6.8 | 5.3 | 7.2 | 5.2 | 7.5 | 5.3 | 7.7 | 5.6 | 8.2 | 5.5 | 8.8 | 5.4 |
| | 82 | 27.5 | 6.5 | 5.1 | 6.7 | 5.2 | 7.2 | 5.2 | 7.4 | 5.3 | 7.7 | 5.5 | 8.2 | 5.5 | 8.5 | 5.3 |
| | 86 | 30.0 | 6.5 | 5.1 | 6.6 | 5.2 | 7.1 | 5.2 | 7.3 | 5.3 | 7.6 | 5.5 | 8.1 | 5.4 | 8.6 | 5.4 |
| | 91 | 32.5 | 6.4 | 5.0 | 6.5 | 5.2 | 7.0 | 5.1 | 7.2 | 5.2 | 7.5 | 5.5 | 8.0 | 5.4 | 8.5 | 5.3 |
| | 95 | 35.0 | 6.3 | 5.0 | 6.4 | 5.1 | 6.9 | 5.1 | 7.1 | 5.2 | 7.4 | 5.4 | 8.0 | 5.4 | 8.4 | 5.3 |
| | 100 | 37.5 | 6.2 | 5.0 | 6.4 | 5.1 | 6.8 | 5.1 | 7.0 | 5.1 | 7.3 | 5.4 | 7.8 | 5.4 | 8.4 | 5.3 |
| | 104 | 40.0 | 6.1 | 4.9 | 6.3 | 5.0 | 6.8 | 5.0 | 6.9 | 5.1 | 7.2 | 5.4 | 7.8 | 5.3 | 8.3 | 5.3 |
| | 110 | 43.0 | 6.1 | 4.9 | 6.2 | 5.0 | 6.7 | 5.0 | 6.8 | 5.1 | 7.2 | 5.3 | 7.7 | 5.3 | 8.2 | 5.2 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.7 | 10.9 | 8.0 | 11.6 | 7.9 | 12.0 | 8.0 | 12.5 | 8.4 | 13.2 | 8.2 | 14.1 | 8.1 |
| | 73 | 22.5 | 10.5 | 7.7 | 10.8 | 7.9 | 11.5 | 7.9 | 11.9 | 8.0 | 12.3 | 8.3 | 13.2 | 8.2 | 13.9 | 8.1 |
| | 77 | 25.0 | 10.4 | 7.7 | 10.7 | 7.9 | 11.4 | 7.8 | 11.8 | 7.9 | 12.2 | 8.2 | 13.0 | 8.1 | 13.8 | 8.0 |
| | 82 | 27.5 | 10.3 | 7.6 | 10.5 | 7.8 | 11.3 | 7.8 | 11.6 | 7.9 | 12.1 | 8.2 | 12.9 | 8.1 | 13.4 | 7.9 |
| | 86 | 30.0 | 10.2 | 7.5 | 10.4 | 7.7 | 11.2 | 7.7 | 11.5 | 7.8 | 12.0 | 8.1 | 12.8 | 8.1 | 13.6 | 7.9 |
| | 91 | 32.5 | 10.1 | 7.5 | 10.3 | 7.7 | 11.0 | 7.6 | 11.3 | 7.7 | 11.9 | 8.1 | 12.7 | 8.0 | 13.4 | 7.9 |
| | 95 | 35.0 | 10.0 | 7.4 | 10.1 | 7.6 | 10.9 | 7.6 | 11.2 | 7.7 | 11.6 | 8.0 | 12.5 | 8.0 | 13.3 | 7.9 |
| | 100 | 37.5 | 9.9 | 7.4 | 10.0 | 7.5 | 10.8 | 7.5 | 11.0 | 7.6 | 11.6 | 8.0 | 12.4 | 7.9 | 13.2 | 7.8 |
| | 104 | 40.0 | 9.7 | 7.3 | 9.9 | 7.5 | 10.7 | 7.5 | 10.9 | 7.5 | 11.4 | 7.9 | 12.3 | 7.9 | 13.1 | 7.8 |
| | 110 | 43.0 | 9.6 | 7.3 | 9.8 | 7.4 | 10.5 | 7.4 | 10.8 | 7.5 | 11.3 | 7.9 | 12.1 | 7.8 | 13.0 | 7.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PKFY-P-VAM-E,VGM-E,VFM-E SHC : Sensible Heat Capacity(kW)

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.5 | 4.4 | 4.3 | 4.2 |
| | 23 | -5.0 | 5.2 | 5.0 | 4.9 | 4.4 |
| | 32 | 0.0 | 5.8 | 5.7 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.0 | 6.0 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.5 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.7 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.0 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.3 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 7.3 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |
| 100 (11.2) | -4 | -20.0 | 6.6 | 6.4 | 6.4 | 6.3 |
| | 5 | -15.0 | 7.8 | 7.6 | 7.5 | 7.3 |
| | 14 | -10.0 | 9.0 | 8.8 | 8.5 | 8.3 |
| | 23 | -5.0 | 10.3 | 10.0 | 9.6 | 8.8 |
| | 32 | 0.0 | 11.5 | 11.3 | 9.9 | 8.8 |
| | 37 | 2.5 | 12.0 | 11.9 | 9.9 | 8.8 |
| | 43 | 6.0 | 12.9 | 12.5 | 9.9 | 8.8 |
| | 46 | 7.5 | 13.3 | 12.5 | 9.9 | 8.8 |
| | 50 | 10.0 | 13.9 | 12.5 | 9.9 | 8.8 |
| | 55 | 12.5 | 14.5 | 12.5 | 9.9 | 8.8 |
| 60 | 15.5 | 14.5 | 12.5 | 9.9 | 8.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PKFY-P-VAM-A,VGM-E,VFM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.5 | 2.3 | 1.6 | 2.4 | 1.6 | 2.5 | 1.6 | 2.6 | 1.6 | 2.7 | 1.6 | 2.9 | 1.6 |
| | 68 | 20.0 | 2.1 | 1.5 | 2.1 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.4 | 1.6 | 2.6 | 1.6 | 2.7 | 1.5 |
| | 86 | 30.0 | 1.9 | 1.4 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.5 |
| | 104 | 40.0 | 1.7 | 1.3 | 1.8 | 1.4 | 1.9 | 1.3 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.4 | 2.3 | 1.4 |
| | 113 | 45.0 | 1.6 | 1.3 | 1.7 | 1.3 | 1.8 | 1.3 | 1.9 | 1.3 | 1.9 | 1.4 | 2.0 | 1.3 | 2.2 | 1.3 |
| 25 (2.8) | 50 | 10.0 | 2.8 | 1.9 | 2.9 | 2.0 | 3.1 | 2.0 | 3.2 | 2.0 | 3.3 | 2.1 | 3.5 | 2.0 | 3.7 | 2.0 |
| | 68 | 20.0 | 2.6 | 1.9 | 2.7 | 1.9 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 2.0 | 3.3 | 2.0 | 3.5 | 1.9 |
| | 86 | 30.0 | 2.5 | 1.8 | 2.5 | 1.8 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.1 | 1.9 | 3.2 | 1.8 |
| | 104 | 40.0 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.7 | 2.5 | 1.7 | 2.6 | 1.8 | 2.8 | 1.8 | 2.9 | 1.7 |
| | 113 | 45.0 | 2.1 | 1.6 | 2.1 | 1.6 | 2.3 | 1.6 | 2.4 | 1.6 | 2.4 | 1.7 | 2.6 | 1.7 | 2.7 | 1.7 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.8 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 2.9 | 4.7 | 2.9 |
| | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.0 | 2.9 | 4.2 | 2.8 | 4.5 | 2.8 |
| | 86 | 30.0 | 3.2 | 2.5 | 3.3 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.7 | 2.8 | 3.9 | 2.7 | 4.2 | 2.7 |
| | 104 | 40.0 | 2.9 | 2.4 | 3.0 | 2.5 | 3.2 | 2.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.8 | 2.6 |
| | 113 | 45.0 | 2.7 | 2.3 | 2.8 | 2.4 | 3.0 | 2.4 | 3.0 | 2.4 | 3.1 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.3 | 4.6 | 3.4 | 4.9 | 3.4 | 5.1 | 3.4 | 5.2 | 3.5 | 5.6 | 3.5 | 5.9 | 3.4 |
| | 68 | 20.0 | 4.2 | 3.2 | 4.4 | 3.3 | 4.7 | 3.3 | 4.8 | 3.3 | 5.0 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 86 | 30.0 | 3.9 | 3.0 | 4.1 | 3.1 | 4.4 | 3.1 | 4.5 | 3.2 | 4.6 | 3.3 | 4.9 | 3.2 | 5.2 | 3.2 |
| | 104 | 40.0 | 3.6 | 2.9 | 3.7 | 3.0 | 3.9 | 2.9 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.0 |
| | 113 | 45.0 | 3.3 | 2.7 | 3.5 | 2.8 | 3.7 | 2.8 | 3.8 | 2.9 | 3.9 | 3.0 | 4.2 | 3.0 | 4.4 | 2.9 |
| 50 (5.6) | 50 | 10.0 | 5.5 | 3.9 | 5.7 | 4.0 | 6.1 | 4.0 | 6.3 | 4.0 | 6.5 | 4.2 | 6.9 | 4.1 | 7.3 | 4.1 |
| | 68 | 20.0 | 5.3 | 3.8 | 5.4 | 3.9 | 5.8 | 3.8 | 6.0 | 3.9 | 6.2 | 4.0 | 6.6 | 4.0 | 6.9 | 3.9 |
| | 86 | 30.0 | 4.9 | 3.6 | 5.1 | 3.7 | 5.4 | 3.7 | 5.6 | 3.7 | 5.8 | 3.8 | 6.1 | 3.8 | 6.5 | 3.7 |
| | 104 | 40.0 | 4.4 | 3.3 | 4.6 | 3.4 | 4.9 | 3.4 | 5.1 | 3.5 | 5.2 | 3.6 | 5.5 | 3.6 | 5.9 | 3.5 |
| | 113 | 45.0 | 4.2 | 3.2 | 4.3 | 3.3 | 4.6 | 3.3 | 4.7 | 3.3 | 4.9 | 3.5 | 5.2 | 3.4 | 5.5 | 3.4 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 5.3 | 7.3 | 5.5 | 7.8 | 5.5 | 8.0 | 5.6 | 8.3 | 5.8 | 8.8 | 5.7 | 9.3 | 5.6 |
| | 68 | 20.0 | 6.7 | 5.2 | 6.9 | 5.3 | 7.4 | 5.3 | 7.6 | 5.4 | 7.8 | 5.6 | 8.3 | 5.5 | 8.8 | 5.4 |
| | 86 | 30.0 | 6.2 | 4.9 | 6.4 | 5.1 | 6.9 | 5.1 | 7.1 | 5.2 | 7.3 | 5.4 | 7.8 | 5.3 | 8.2 | 5.2 |
| | 104 | 40.0 | 5.6 | 4.7 | 5.8 | 4.8 | 6.2 | 4.8 | 6.4 | 4.9 | 6.6 | 5.1 | 7.0 | 5.0 | 7.4 | 5.0 |
| | 113 | 45.0 | 5.3 | 4.5 | 5.4 | 4.7 | 5.8 | 4.6 | 6.0 | 4.7 | 6.2 | 4.9 | 6.6 | 4.9 | 6.9 | 4.8 |
| 100 (11.2) | 50 | 10.0 | 11.1 | 8.0 | 11.5 | 8.2 | 12.3 | 8.2 | 12.7 | 8.3 | 13.1 | 8.6 | 13.8 | 8.5 | 14.6 | 8.3 |
| | 68 | 20.0 | 10.5 | 7.7 | 10.9 | 8.0 | 11.6 | 7.9 | 12.0 | 8.0 | 12.4 | 8.3 | 13.1 | 8.2 | 13.9 | 8.1 |
| | 86 | 30.0 | 9.8 | 7.4 | 10.2 | 7.6 | 10.9 | 7.6 | 11.2 | 7.7 | 11.5 | 8.0 | 12.2 | 7.9 | 12.9 | 7.7 |
| | 104 | 40.0 | 8.9 | 6.9 | 9.2 | 7.1 | 9.8 | 7.1 | 10.1 | 7.2 | 10.5 | 7.5 | 11.1 | 7.4 | 11.7 | 7.3 |
| | 113 | 45.0 | 8.3 | 6.6 | 8.6 | 6.9 | 9.2 | 6.8 | 9.5 | 7.0 | 9.8 | 7.2 | 10.4 | 7.1 | 11.0 | 7.0 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PKFY-P-VAM-A,VGM-E,VFM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|----------|----------|----------|----------|
| | | | 59 °FDB | 66 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 19.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °F | °C | SHC | SHC | SHC | SHC | SHC |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 50 (5.6) | 50 | 10 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 68 | 20 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 86 | 30 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 104 | 40 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 113 | 45 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| 100 (11.2) | 50 | 10 | 9.9 | 9.9 | 9.9 | 8.4 | 7.7 |
| | 68 | 20 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 86 | 30 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 104 | 40 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |
| | 113 | 45 | 12.5 | 12.5 | 12.5 | 10.6 | 9.7 |

A
B
C
D
E
F
G
H
I
J
V_a
V_b
BC

2. CAPACITY TABLES

R410A Data G2

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PKFY-P-VAM-E,VGM-E,VFM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71 °FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | | | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | °FDB | °CDB | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.6 | 2.4 | 1.6 | 2.6 | 1.5 | 2.7 | 1.5 |
| | 73 | 22.5 | 2.1 | 1.4 | 2.1 | 1.5 | 2.3 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.5 | 2.7 | 1.5 |
| | 77 | 25.0 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.4 | 2.3 | 1.5 | 2.4 | 1.5 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 82 | 27.5 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.4 | 2.3 | 1.5 | 2.3 | 1.5 | 2.5 | 1.5 | 2.6 | 1.5 |
| | 86 | 30.0 | 2.0 | 1.4 | 2.0 | 1.4 | 2.2 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.6 | 1.4 |
| | 91 | 32.5 | 1.9 | 1.3 | 2.0 | 1.4 | 2.1 | 1.4 | 2.2 | 1.5 | 2.3 | 1.5 | 2.4 | 1.5 | 2.6 | 1.4 |
| | 95 | 35.0 | 1.9 | 1.3 | 2.0 | 1.3 | 2.1 | 1.4 | 2.2 | 1.4 | 2.2 | 1.4 | 2.4 | 1.4 | 2.5 | 1.4 |
| | 100 | 37.5 | 1.9 | 1.3 | 1.9 | 1.3 | 2.1 | 1.3 | 2.1 | 1.4 | 2.2 | 1.4 | 2.4 | 1.4 | 2.5 | 1.4 |
| | 104 | 40.0 | 1.8 | 1.2 | 1.9 | 1.3 | 2.0 | 1.3 | 2.1 | 1.4 | 2.2 | 1.4 | 2.3 | 1.4 | 2.5 | 1.4 |
| | 110 | 43.0 | 1.8 | 1.2 | 1.8 | 1.3 | 2.0 | 1.3 | 2.1 | 1.4 | 2.1 | 1.4 | 2.3 | 1.4 | 2.4 | 1.4 |
| 25 (2.8) | 68 | 20.0 | 2.7 | 1.8 | 2.7 | 1.8 | 2.9 | 1.8 | 3.0 | 2.0 | 3.1 | 1.9 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 73 | 22.5 | 2.6 | 1.8 | 2.7 | 1.8 | 2.9 | 1.8 | 3.0 | 1.9 | 3.0 | 1.9 | 3.2 | 1.9 | 3.4 | 1.9 |
| | 77 | 25.0 | 2.6 | 1.7 | 2.7 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.0 | 1.9 | 3.2 | 1.9 | 3.3 | 1.9 |
| | 82 | 27.5 | 2.6 | 1.7 | 2.6 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 3.0 | 1.9 | 3.1 | 1.9 | 3.3 | 1.8 |
| | 86 | 30.0 | 2.5 | 1.7 | 2.6 | 1.8 | 2.8 | 1.8 | 2.9 | 1.9 | 2.9 | 1.9 | 3.1 | 1.8 | 3.3 | 1.8 |
| | 91 | 32.5 | 2.5 | 1.7 | 2.6 | 1.7 | 2.7 | 1.7 | 2.8 | 1.8 | 2.9 | 1.8 | 3.1 | 1.8 | 3.2 | 1.8 |
| | 95 | 35.0 | 2.4 | 1.6 | 2.5 | 1.7 | 2.7 | 1.7 | 2.8 | 1.8 | 2.9 | 1.8 | 3.0 | 1.8 | 3.2 | 1.8 |
| | 100 | 37.5 | 2.4 | 1.6 | 2.5 | 1.7 | 2.6 | 1.7 | 2.7 | 1.8 | 2.8 | 1.8 | 3.0 | 1.8 | 3.2 | 1.8 |
| | 104 | 40.0 | 2.3 | 1.6 | 2.4 | 1.6 | 2.6 | 1.6 | 2.7 | 1.8 | 2.8 | 1.8 | 3.0 | 1.8 | 3.2 | 1.7 |
| | 110 | 43.0 | 2.3 | 1.5 | 2.4 | 1.6 | 2.5 | 1.6 | 2.6 | 1.7 | 2.7 | 1.7 | 2.9 | 1.7 | 3.1 | 1.7 |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.6 | 3.5 | 2.7 | 3.7 | 2.7 | 3.9 | 2.8 | 4.0 | 2.8 | 4.2 | 2.8 | 4.4 | 2.8 |
| | 73 | 22.5 | 3.4 | 2.6 | 3.5 | 2.6 | 3.7 | 2.7 | 3.8 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.8 |
| | 77 | 25.0 | 3.3 | 2.5 | 3.4 | 2.6 | 3.7 | 2.6 | 3.8 | 2.8 | 3.9 | 2.8 | 4.1 | 2.8 | 4.3 | 2.7 |
| | 82 | 27.5 | 3.3 | 2.5 | 3.4 | 2.6 | 3.6 | 2.6 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.3 | 2.7 |
| | 86 | 30.0 | 3.2 | 2.5 | 3.3 | 2.5 | 3.6 | 2.6 | 3.7 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 91 | 32.5 | 3.2 | 2.4 | 3.3 | 2.5 | 3.5 | 2.5 | 3.6 | 2.7 | 3.7 | 2.7 | 4.0 | 2.7 | 4.2 | 2.7 |
| | 95 | 35.0 | 3.1 | 2.4 | 3.2 | 2.4 | 3.5 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 100 | 37.5 | 3.0 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.6 | 3.6 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 |
| | 104 | 40.0 | 3.0 | 2.3 | 3.1 | 2.3 | 3.3 | 2.4 | 3.5 | 2.6 | 3.6 | 2.6 | 3.8 | 2.6 | 4.1 | 2.6 |
| | 110 | 43.0 | 2.9 | 2.2 | 3.0 | 2.3 | 3.3 | 2.3 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 4.0 | 2.5 |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.8 | 3.4 | 5.0 | 3.4 | 5.2 | 3.4 | 5.5 | 3.3 |
| | 73 | 22.5 | 4.2 | 3.1 | 4.4 | 3.2 | 4.6 | 3.2 | 4.8 | 3.4 | 4.9 | 3.3 | 5.2 | 3.3 | 5.4 | 3.3 |
| | 77 | 25.0 | 4.2 | 3.0 | 4.3 | 3.1 | 4.6 | 3.1 | 4.7 | 3.3 | 4.8 | 3.3 | 5.1 | 3.3 | 5.4 | 3.2 |
| | 82 | 27.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.6 | 3.3 | 4.8 | 3.3 | 5.1 | 3.3 | 5.3 | 3.2 |
| | 86 | 30.0 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 3.0 | 4.6 | 3.2 | 4.7 | 3.2 | 5.0 | 3.2 | 5.3 | 3.2 |
| | 91 | 32.5 | 4.0 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.2 | 4.7 | 3.2 | 4.9 | 3.2 | 5.2 | 3.2 |
| | 95 | 35.0 | 3.9 | 2.8 | 4.0 | 2.9 | 4.3 | 2.9 | 4.5 | 3.1 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.1 |
| | 100 | 37.5 | 3.8 | 2.8 | 3.9 | 2.9 | 4.2 | 2.9 | 4.4 | 3.1 | 4.5 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 |
| | 104 | 40.0 | 3.7 | 2.7 | 3.9 | 2.8 | 4.2 | 2.9 | 4.3 | 3.0 | 4.5 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 |
| | 110 | 43.0 | 3.6 | 2.6 | 3.8 | 2.7 | 4.1 | 2.8 | 4.2 | 3.0 | 4.4 | 3.0 | 4.7 | 3.0 | 5.0 | 3.0 |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.6 | 5.5 | 3.7 | 5.8 | 3.7 | 6.0 | 4.0 | 6.2 | 4.0 | 6.5 | 3.9 | 6.8 | 3.8 |
| | 73 | 22.5 | 5.3 | 3.6 | 5.4 | 3.7 | 5.8 | 3.7 | 5.9 | 3.9 | 6.1 | 3.9 | 6.4 | 3.9 | 6.8 | 3.8 |
| | 77 | 25.0 | 5.2 | 3.5 | 5.3 | 3.6 | 5.7 | 3.6 | 5.9 | 3.9 | 6.0 | 3.9 | 6.4 | 3.8 | 6.7 | 3.8 |
| | 82 | 27.5 | 5.1 | 3.5 | 5.3 | 3.6 | 5.6 | 3.6 | 5.8 | 3.8 | 6.0 | 3.8 | 6.3 | 3.8 | 6.6 | 3.7 |
| | 86 | 30.0 | 5.0 | 3.4 | 5.2 | 3.6 | 5.5 | 3.6 | 5.7 | 3.8 | 5.9 | 3.8 | 6.2 | 3.7 | 6.6 | 3.7 |
| | 91 | 32.5 | 4.9 | 3.4 | 5.1 | 3.5 | 5.5 | 3.5 | 5.6 | 3.7 | 5.8 | 3.7 | 6.1 | 3.7 | 6.5 | 3.6 |
| | 95 | 35.0 | 4.8 | 3.3 | 5.0 | 3.4 | 5.4 | 3.4 | 5.5 | 3.7 | 5.7 | 3.7 | 6.1 | 3.7 | 6.4 | 3.6 |
| | 100 | 37.5 | 4.7 | 3.2 | 4.9 | 3.4 | 5.3 | 3.4 | 5.5 | 3.6 | 5.6 | 3.6 | 6.0 | 3.6 | 6.4 | 3.6 |
| | 104 | 40.0 | 4.6 | 3.2 | 4.8 | 3.3 | 5.2 | 3.3 | 5.4 | 3.6 | 5.6 | 3.6 | 5.9 | 3.6 | 6.3 | 3.5 |
| | 110 | 43.0 | 4.5 | 3.1 | 4.7 | 3.2 | 5.1 | 3.3 | 5.3 | 3.5 | 5.5 | 3.5 | 5.8 | 3.5 | 6.2 | 3.5 |
| 63 (7.1) | 68 | 20.0 | 6.7 | 5.2 | 7.0 | 5.3 | 7.4 | 5.4 | 7.6 | 5.7 | 7.8 | 5.7 | 8.2 | 5.7 | 8.7 | 5.6 |
| | 73 | 22.5 | 6.7 | 5.1 | 6.9 | 5.3 | 7.3 | 5.3 | 7.5 | 5.6 | 7.7 | 5.6 | 8.1 | 5.6 | 8.6 | 5.5 |
| | 77 | 25.0 | 6.6 | 5.0 | 6.8 | 5.2 | 7.2 | 5.2 | 7.4 | 5.5 | 7.6 | 5.5 | 8.1 | 5.5 | 8.5 | 5.5 |
| | 82 | 27.5 | 6.5 | 5.0 | 6.7 | 5.1 | 7.1 | 5.2 | 7.3 | 5.5 | 7.5 | 5.5 | 8.0 | 5.5 | 8.4 | 5.4 |
| | 86 | 30.0 | 6.4 | 4.9 | 6.6 | 5.1 | 7.0 | 5.1 | 7.2 | 5.4 | 7.5 | 5.4 | 7.9 | 5.4 | 8.3 | 5.4 |
| | 91 | 32.5 | 6.3 | 4.8 | 6.5 | 5.0 | 6.9 | 5.0 | 7.1 | 5.3 | 7.4 | 5.3 | 7.8 | 5.4 | 8.2 | 5.3 |
| | 95 | 35.0 | 6.1 | 4.7 | 6.4 | 4.9 | 6.8 | 4.9 | 7.0 | 5.3 | 7.3 | 5.3 | 7.7 | 5.3 | 8.2 | 5.3 |
| | 100 | 37.5 | 6.0 | 4.6 | 6.2 | 4.8 | 6.7 | 4.9 | 6.9 | 5.2 | 7.2 | 5.2 | 7.6 | 5.2 | 8.1 | 5.2 |
| | 104 | 40.0 | 5.9 | 4.5 | 6.1 | 4.7 | 6.6 | 4.8 | 6.8 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.0 | 5.2 |
| | 110 | 43.0 | 5.7 | 4.4 | 6.0 | 4.6 | 6.4 | 4.7 | 6.7 | 5.0 | 6.9 | 5.0 | 7.4 | 5.1 | 7.9 | 5.1 |
| 100 (11.2) | 68 | 20.0 | 10.6 | 7.7 | 11.0 | 8.0 | 11.6 | 8.0 | 12.0 | 8.5 | 12.3 | 8.5 | 13.0 | 8.4 | 13.7 | 8.3 |
| | 73 | 22.5 | 10.5 | 7.6 | 10.8 | 7.9 | 11.5 | 7.9 | 11.8 | 8.4 | 12.2 | 8.4 | 12.9 | 8.3 | 13.5 | 8.2 |
| | 77 | 25.0 | 10.4 | 7.5 | 10.7 | 7.8 | 11.4 | 7.8 | 11.7 | 8.3 | 12.0 | 8.3 | 12.7 | 8.2 | 13.4 | 8.1 |
| | 82 | 27.5 | 10.2 | 7.4 | 10.6 | 7.7 | 11.2 | 7.7 | 11.6 | 8.2 | 11.9 | 8.2 | 12.6 | 8.1 | 13.2 | 8.1 |
| | 86 | 30.0 | 10.1 | 7.3 | 10.4 | 7.6 | 11.1 | 7.6 | 11.4 | 8.1 | 11.8 | 8.1 | 12.4 | 8.1 | 13.1 | 8.0 |
| | 91 | 32.5 | 9.9 | 7.2 | 10.2 | 7.4 | 10.9 | 7.5 | 11.3 | 8.0 | 11.6 | 8.0 | 12.3 | 8.0 | 13.0 | 7.9 |
| | 95 | 35.0 | 9.7 | 7.0 | 10.0 | 7.3 | 10.7 | 7.4 | 11.1 | 7.9 | 11.4 | 7.9 | 12.2 | 7.9 | 12.9 | 7.8 |
| | 100 | 37.5 | 9.5 | 6.9 | 9.8 | 7.2 | 10.6 | 7.3 | 10.9 | 7.7 | 11.3 | 7.8 | 12.0 | 7.8 | 12.7 | 7.7 |
| | 104 | 40.0 | 9.3 | 6.7 | 9.6 | 7.0 | 10.4 | 7.1 | 10.8 | 7.6 | 11.1 | 7.7 | 11.9 | 7.7 | 12.6 | 7.7 |
| | 110 | 43.0 | 9.0 | 6.6 | 9.4 | 6.8 | 10.2 | 7.0 | 10.5 | 7.5 | 10.9 | 7.5 | 11.6 | 7.5 | 12.4 | 7.5 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PKFY-P-VAM-E,VGM-E,VFM-E SHC : Sensible Heat Capacity(kW)

SHC : Sensible Heat Capacity(kW)

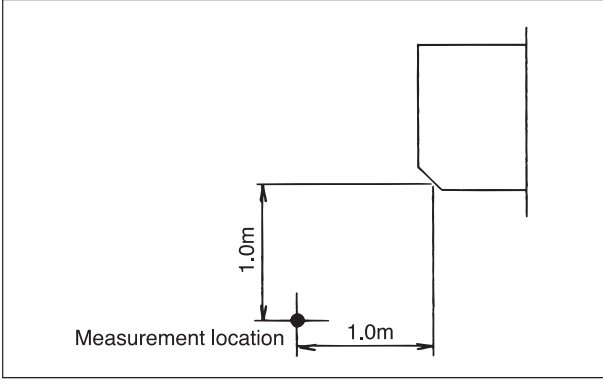
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 | |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 | |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | | | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 50 (5.6) | -4 | -20.0 | 4.1 | 4.0 | 3.8 | 3.7 |
| | 5 | -15.0 | 4.4 | 4.2 | 4.1 | 4.0 |
| | 14 | -10.0 | 4.7 | 4.6 | 4.5 | 4.4 |
| | 23 | -5.0 | 5.4 | 5.2 | 5.0 | 4.9 |
| | 32 | 0.0 | 5.9 | 5.8 | 5.5 | 5.5 |
| | 37 | 2.5 | 6.2 | 6.0 | 5.9 | 5.8 |
| | 43 | 6.0 | 6.4 | 6.3 | 6.2 | 6.1 |
| | 46 | 7.5 | 6.8 | 6.7 | 6.2 | 6.1 |
| | 50 | 10.0 | 7.1 | 6.9 | 6.2 | 6.1 |
| | 55 | 12.5 | 7.4 | 7.2 | 6.2 | 6.1 |
| 60 | 15.5 | 7.6 | 7.2 | 6.2 | 6.1 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |
| 100 (11.2) | -4 | -20.0 | 8.1 | 7.9 | 7.5 | 7.4 |
| | 5 | -15.0 | 8.8 | 8.4 | 8.1 | 8.0 |
| | 14 | -10.0 | 9.4 | 9.1 | 8.9 | 8.8 |
| | 23 | -5.0 | 10.6 | 10.4 | 9.9 | 9.8 |
| | 32 | 0.0 | 11.8 | 11.5 | 11.0 | 10.9 |
| | 37 | 2.5 | 12.4 | 12.0 | 11.6 | 11.5 |
| | 43 | 6.0 | 12.8 | 12.5 | 12.4 | 12.1 |
| | 46 | 7.5 | 13.5 | 13.3 | 12.4 | 12.1 |
| | 50 | 10.0 | 14.1 | 13.8 | 12.4 | 12.1 |
| | 55 | 12.5 | 14.8 | 14.4 | 12.4 | 12.1 |
| 60 | 15.5 | 15.1 | 14.4 | 12.4 | 12.1 | |

3. SOUND LEVELS

3-1. Sound levels

PKFY-P-VAM,VGM-E,VFM-E



* Measured in anechoic room.

Sound level at anechoic room : Low-(Middle2-Middle1)-High

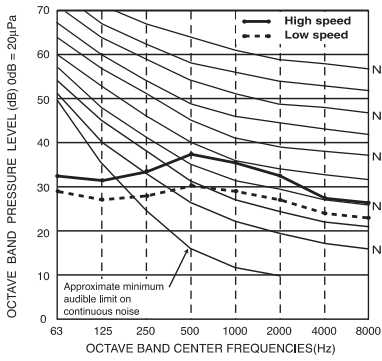
| | Sound level dB (A) |
|----------------|--------------------|
| PKFY-P20VAM-E | 32-33-35-36 |
| PKFY-P25VAM-E | |
| PKFY-P32VGM-E | 33-36-38-41 |
| PKFY-P40VGM-E | |
| PKFY-P50VGM-E | 34-37-40-43 |
| PKFY-P63VFM-E | 39-45 |
| PKFY-P100VFM-E | 41-46 |

3-2. NC curves

PKFY-P20VAM-E

External static pressure : 0Pa

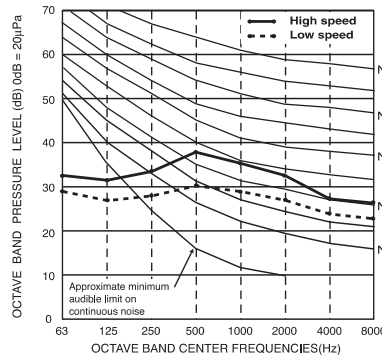
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PKFY-P25VAM-E

External static pressure : 0Pa

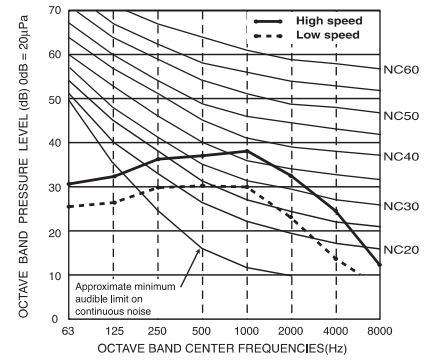
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PKFY-P32VGM-E

External static pressure : 0Pa

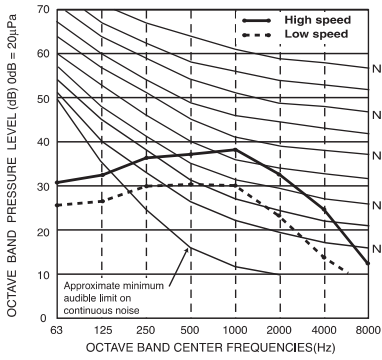
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PKFY-P40VGM-E

External static pressure : 0Pa

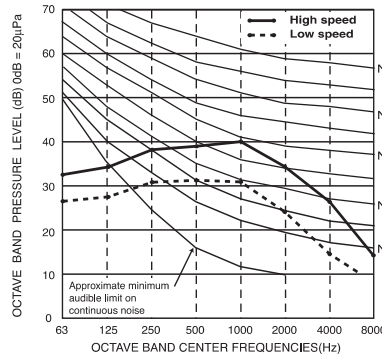
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PKFY-P50VGM-E

External static pressure : 0Pa

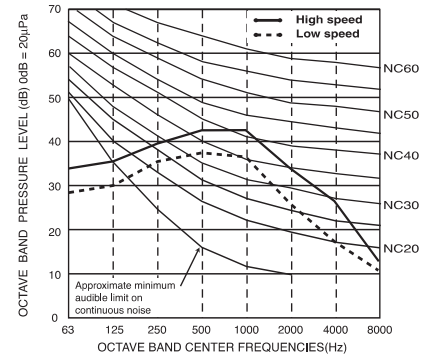
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PKFY-P63VFM-E

External static pressure : 0Pa

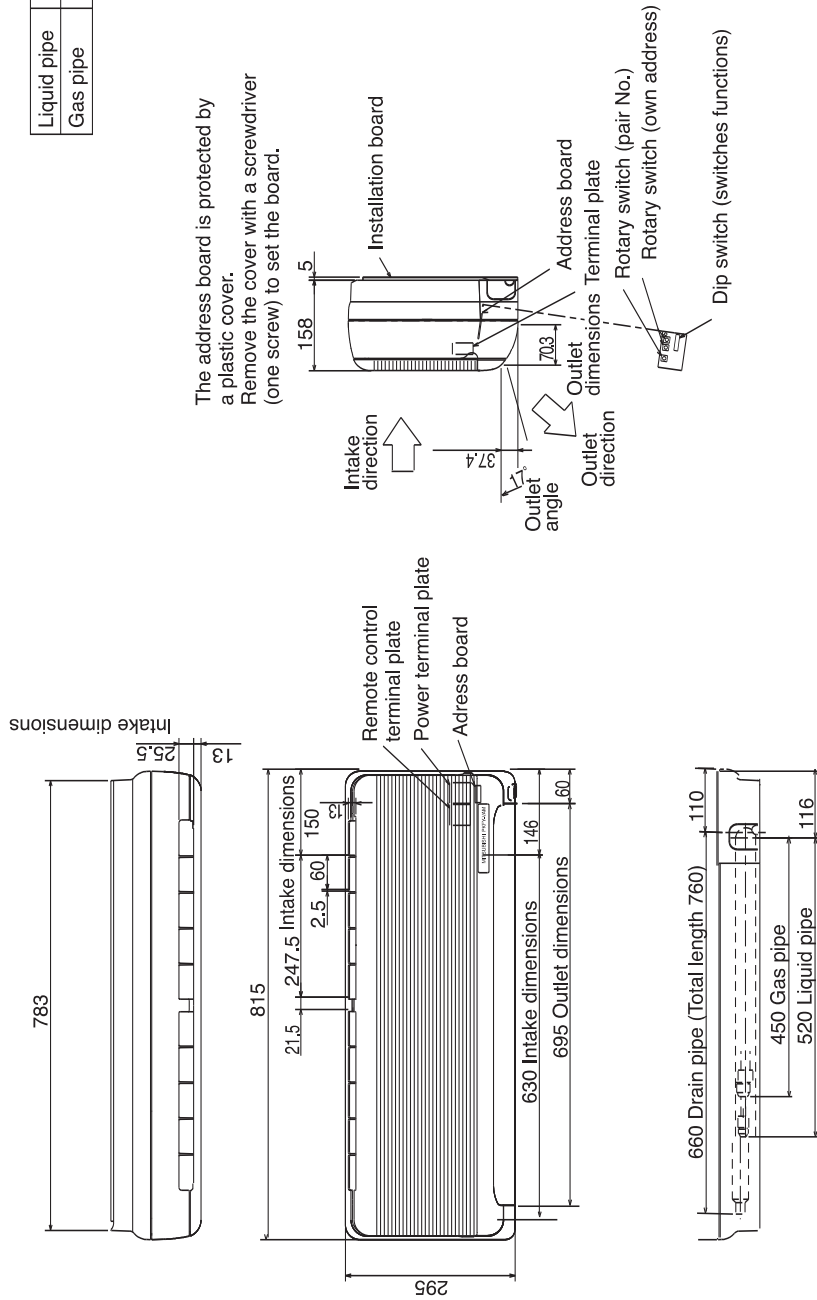
Power source : 220,230,240V, 50Hz / 220V, 60Hz



PKFY-P20,25VAM-E

Draw. : IU-RG01-N631
Unit : mm

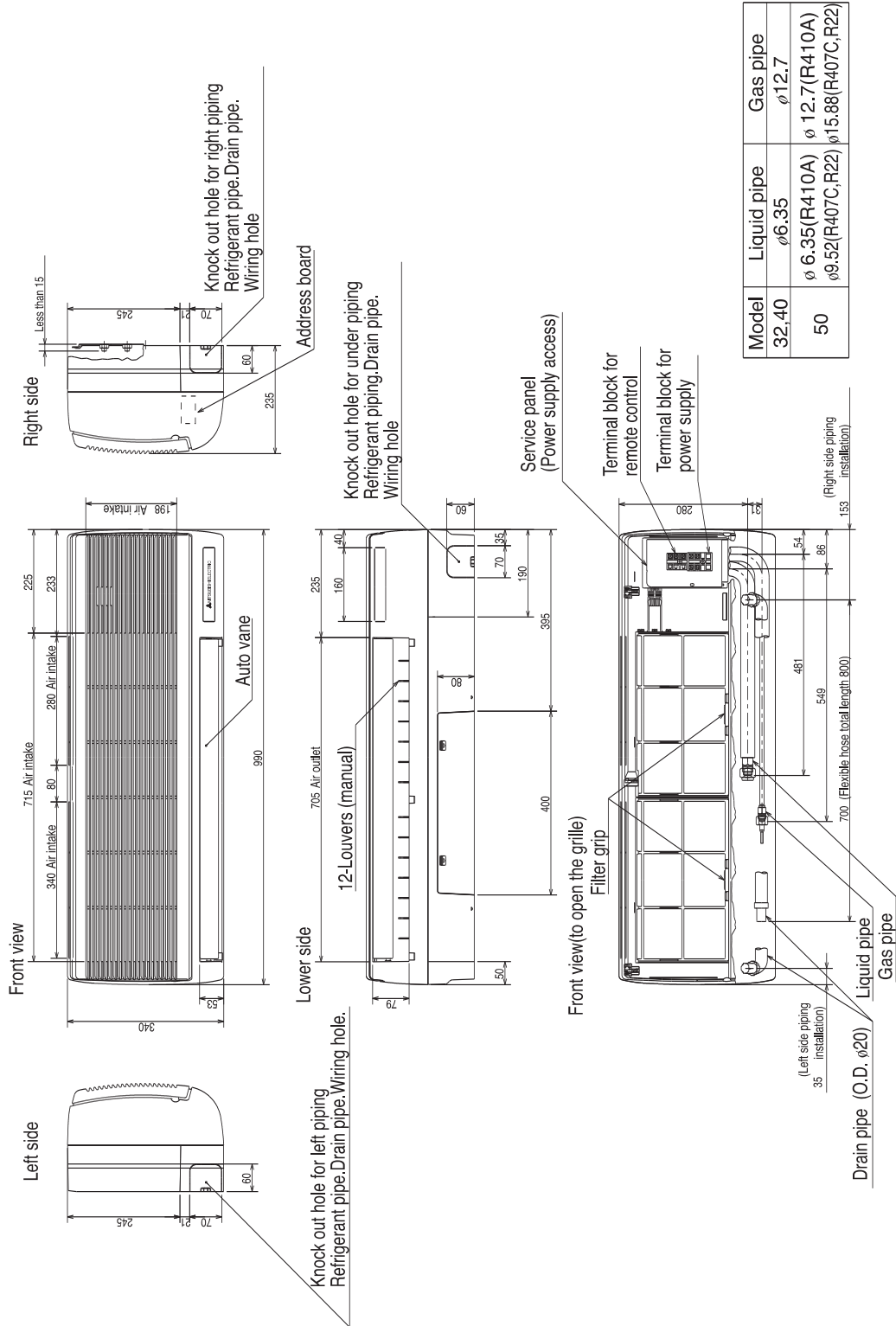
| | |
|-------------|-------|
| Liquid pipe | φ6.35 |
| Gas pipe | φ12.7 |



4. EXTERNAL DIMENSIONS

PKFY-P32,40,50VGM-E

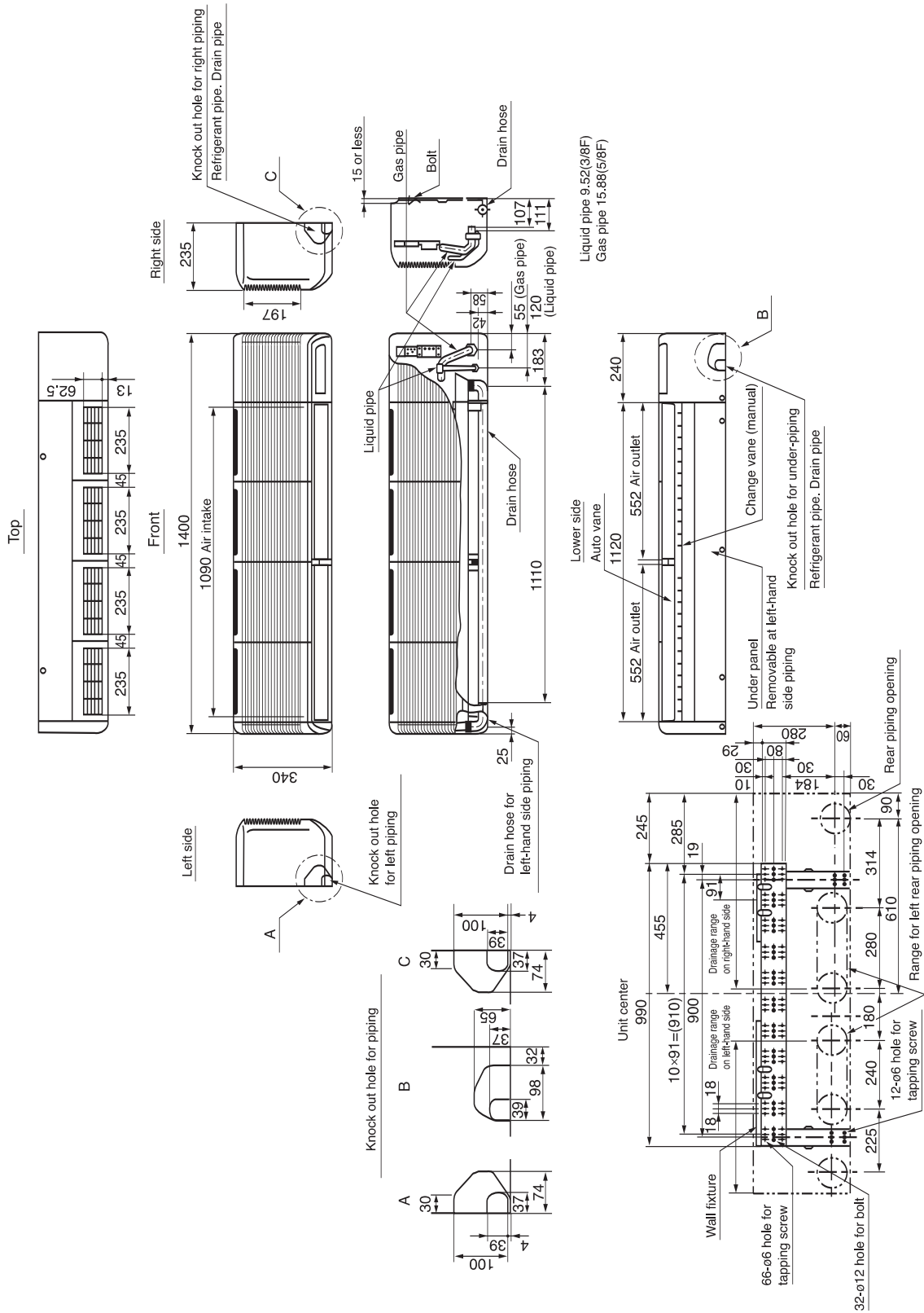
Drw. : IU-RG01-N630
Unit : mm



4. EXTERNAL DIMENSIONS

PKFY-P63VFM-E

Drw. : IU-RG01-V219
Unit : mm

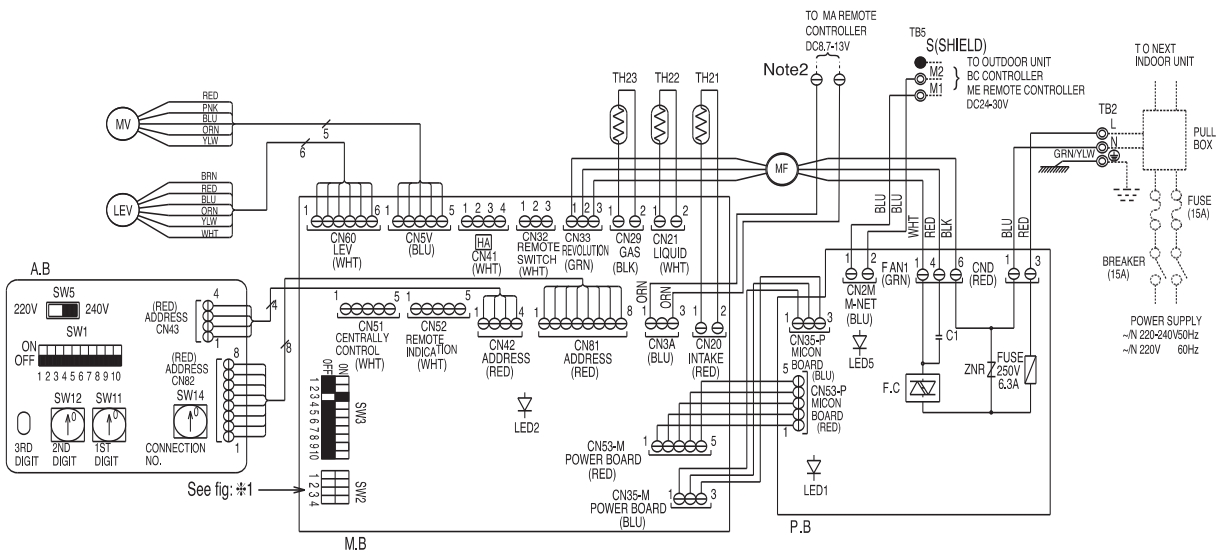


PKFY-P20,25VAM-E

Drw. : IU-RG71-J319

<SYMBOL EXPLANATION>

| Symbol | Name | Symbol | Name | Symbol | Name |
|--------|--|--------|---|------------|---------------------------|
| M.B | Indoor controller board | TH23 | Thermistor | TB2 | Terminal block |
| CN32 | Remote switch | TH22 | Pipe temp. detection/Gas (0°C / 15k, 25°C / 5.4k) | TB5 | ME Remote controller |
| CN41 | HA terminal - A | P.B | Indoor power board | A.B | Circuit board |
| CN51 | Centrally control | ZNR | Varistor | SW1 <A.B> | Mode selection |
| CN52 | Remote indication | FUSE | Fuse (6.3A) | SW5 <A.B> | Voltage selection |
| SW2 | Capacity code | F.C | Fan phase control | SW11 <A.B> | Address setting 1st digit |
| SW3 | Mode selection | MF | Fan motor | SW12 <A.B> | Address setting 2nd digit |
| TH21 | Room temp. detection (0°C / 15k, 25°C / 5.4k) | C1 | Capacity (fan motor) | SW14 <A.B> | Connection No. |
| TH22 | Pipe temp. detection/liquid (0°C / 15k, 25°C / 5.4k) | MV | Vane motor | | |
| | | LEV | Linear expansion valve | | |



Note

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of connecting MA Remote controller, please connect MA Remote controller to the connector. (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to the wire. (BLU, two wire) <M1, M2> of CN2M (Transmission line is non-polar.)
4. Symbols used in wiring diagram above are, ⊙ : terminal block, ⊖ : connector, ● : direct wire connection.
5. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig: #1.
6. Please set the switch SW5 according to the power supply voltage.
 SW5 to 240V side when the power supply is 230 and 240 volts.
 When the power supply is 220 volts, set SW5 to 220V side.

LED on indoor board for service

| Mark | Meaning | Function |
|------|---------------------------------------|---|
| LED1 | Main power supply | Main power supply (indoor unit:220-240V) power on ⇒ lamp is lit |
| LED2 | Power supply for MA Remote controller | Power supply for MA Remote controller on ⇒ lamp is lit |

<※ 1>

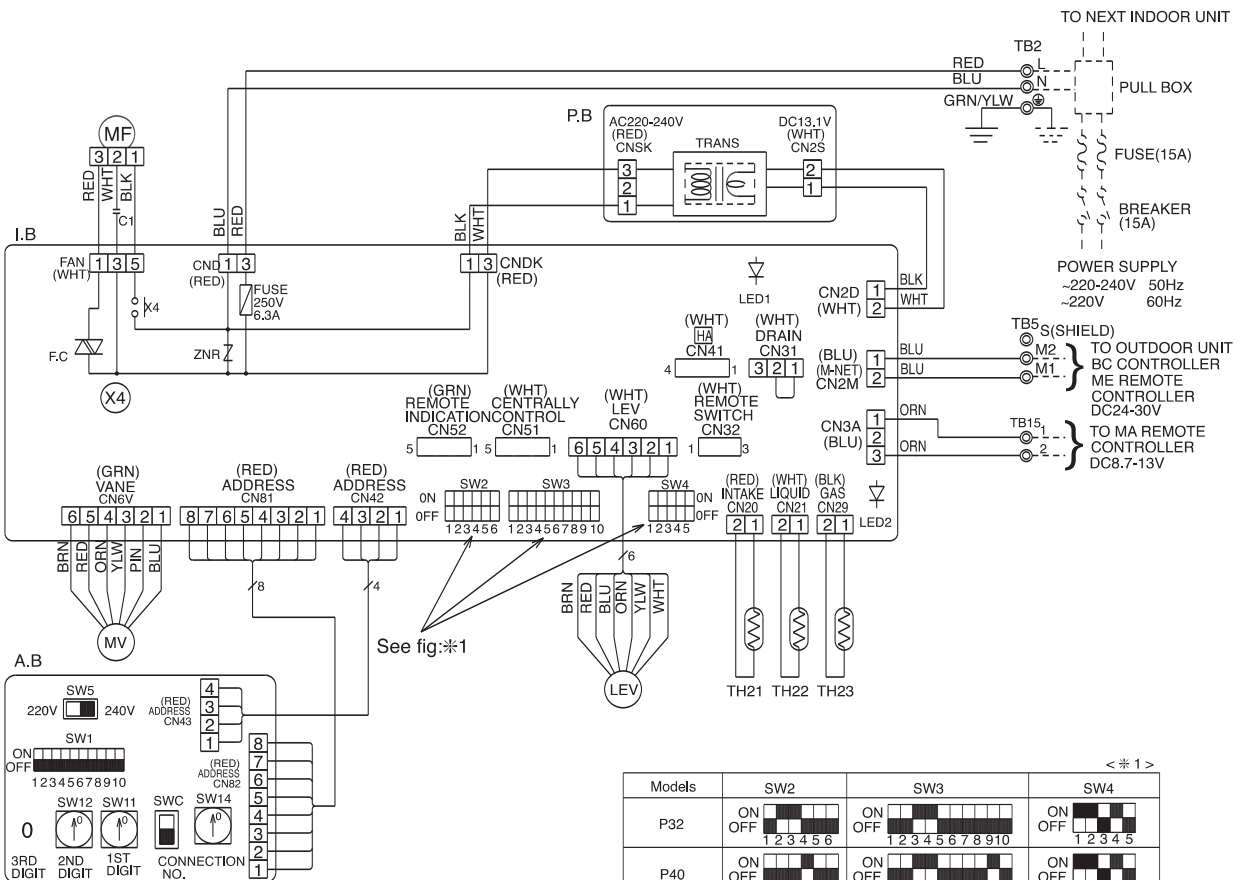
| MODELS | SW2 | MODELS | SW2 |
|--------|-------------------|--------|-------------------|
| P20 | ON OFF 1 2 3 4 | P25 | ON OFF 1 2 3 4 |

PKFY-P32,40,50VGM-E

Draw. : IU-RG79-N550

<SYMBOL EXPLANATION>

| Symbol | Name | Symbol | Name | Symbol | Name | |
|--------|-------------------------|--------|------------|---------------------------|---------------|---------------------------|
| I.B | Indoor controller board | TH21 | Thermistor | A.B | Circuit board | |
| CN32 | Connector | TH22 | | SW1 | | Mode selection |
| CN41 | Remote switch | TH23 | | SW5 | | Voltage selection |
| CN51 | HA terminal-A | MF | | SW11 | | Address setting 1st digit |
| CN52 | Centrally control | C1 | SW12 | Address setting 2nd digit | | |
| SW2 | Switch | MV | SW14 | Connection No. | | |
| SW3 | Capacity code | TB2 | SWC | Option selector | | |
| SW4 | Model selection | TB5 | | | | |
| ZNR | Varistor | TB15 | | | | |
| X4 | Aux.Relay (Fan motor) | LEV | | | | |
| FUSE | Fuse (6.3A) | | | | | |
| F.C | Fan phase control | | | | | |
| | | | | | | |



NOTE

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol[S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are,
⊙:Terminal block, □:Connector.
- The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig: *1.
- Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts, set SW5 to 220V side.

| Models | SW2 | SW3 | SW4 |
|--------|--------------------|-----------------------------|------------------|
| P32 | ON OFF 1 2 3 4 5 6 | ON OFF 1 2 3 4 5 6 7 8 9 10 | ON OFF 1 2 3 4 5 |
| P40 | ON OFF 1 2 3 4 5 6 | ON OFF 1 2 3 4 5 6 7 8 9 10 | ON OFF 1 2 3 4 5 |
| P50 | ON OFF 1 2 3 4 5 6 | ON OFF 1 2 3 4 5 6 7 8 9 10 | ON OFF 1 2 3 4 5 |

Led on indoor board for service

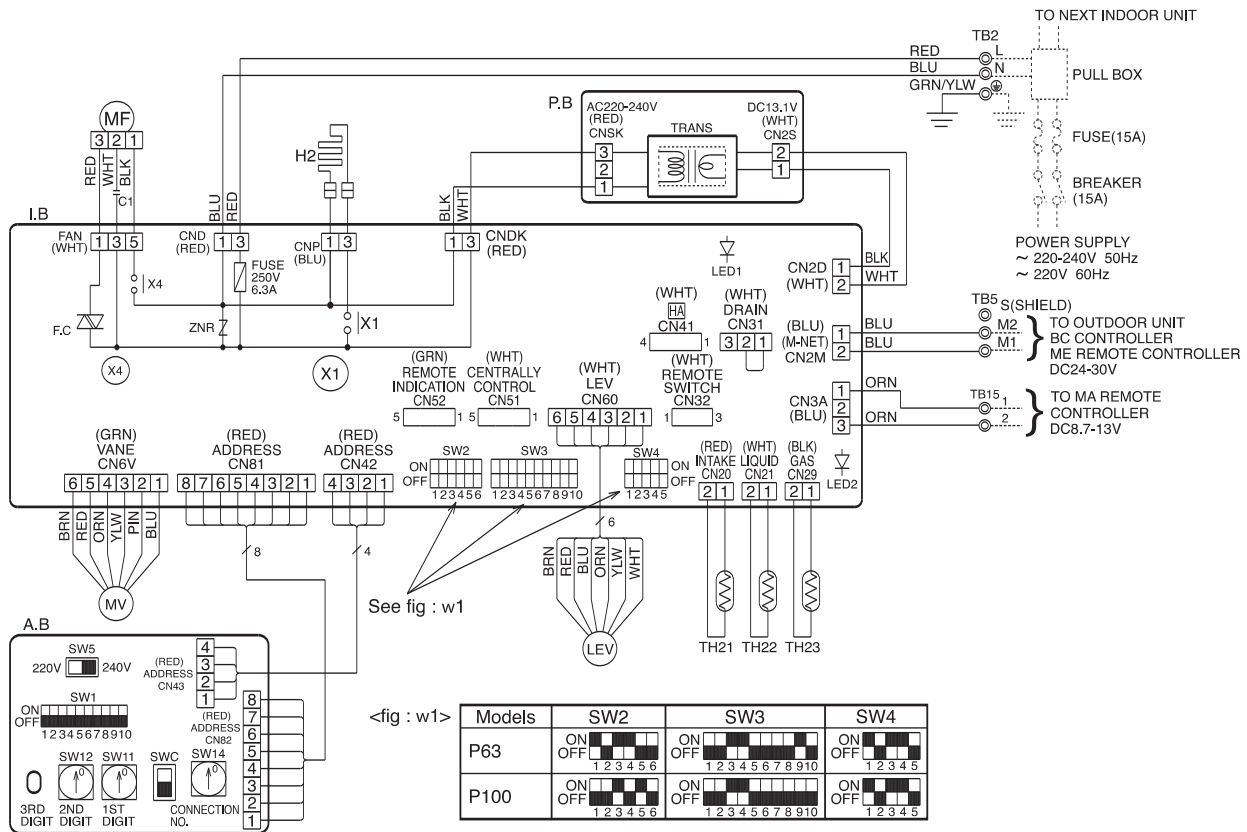
| Mark | Meaning | Function |
|------|---------------------------------------|---|
| LED1 | Main power supply | Main power supply (indoor unit:220-240V) power on → lamp is lit |
| LED2 | Power supply for MA Remote controller | Power supply for MA Remote controller on → lamp is lit |

PKFY-P63,VFM-E

Drw. : IU-RG79-V059

<SYMBOL EXPLANATION>

| Symbol | Name | Symbol | Name | Symbol | Name | |
|--------|-------------------------|--------|-------------------------------|--|--|-----------------------|
| I.B | Indoor controller board | C1 | Capacitor (fan motor) | TH23 | Thermistor Pipe temp.detection/Gas (0C/15t,25C/5.4t) | |
| CN32 | Connector Remote switch | LEV | Linear expansion valve | A.B | Circuit board | |
| CN41 | HA terminal-A | MF | Fan motor (with inner thermo) | SW1 | Switch Mode selection | |
| CN51 | Centrally control | MV | Vane motor | SW5 | Voltage selection | |
| CN52 | Remote indication | P.B | Indoor power board | SW11 | Address setting 1st digit | |
| F.C | Fan phase control | TB2 | Terminal block | SW12 | Address setting 2nd digit | |
| FUSE | Fuse (6.3A/ 250V) | TB5 | | MA-Remote Controller | SW14 | Connection No. |
| SW2 | Switch Capacity code | TB15 | | Room temp.detection (0C/15t,25C/5.4t) | SWC | Option selector |
| SW3 | Mode selection | TH21 | Thermistor | I.B | CNP | Connector D.Heater |
| SW4 | Model selection | TH22 | | Pipe temp.detection/Liquid (0C/15t,25C/5.4t) | X1 | Aux. Relay (D.Heater) |
| X4 | Aux.Relay (Fan motor) | | | | H2 | Dew prevention heater |
| ZNR | Varistor | | | | | |



Note

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to TB5.
(Transmission line is non-polar.)
4. Symbol[S] of TB5 is the shield wire connection.
5. Symbols used in wiring diagram above are, ⊙:terminal block, □:connector.
6. The setting of the SW2 dip switches differs in the capacity for the detail, refer to the fig : w1.
7. Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts, set SW5 to 220V side.

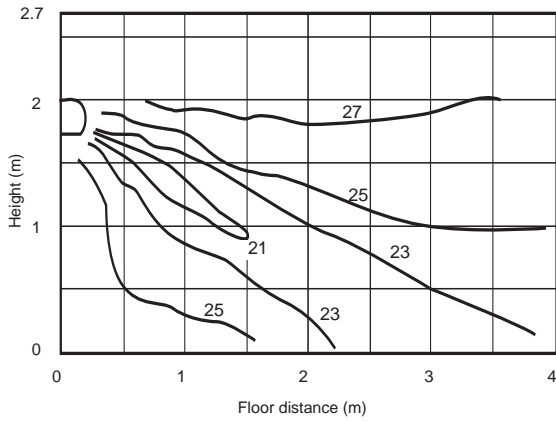
LED on indoor board for service

| Mark | Meaning | Function |
|------|---------------------------------------|---|
| LED1 | Main power supply | Main power supply (Indoor unit : 220-240V) power on → lamp is lit |
| LED2 | Power supply for MA-Remote controller | Power supply for MA-Remote controller on → lamp is lit |

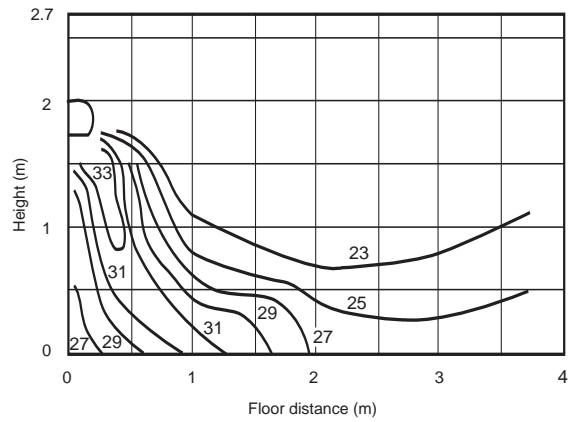
6-1. Temperature distributions

PKFY-P-VAM-E

<Cooling mode>
Horizontal air flow

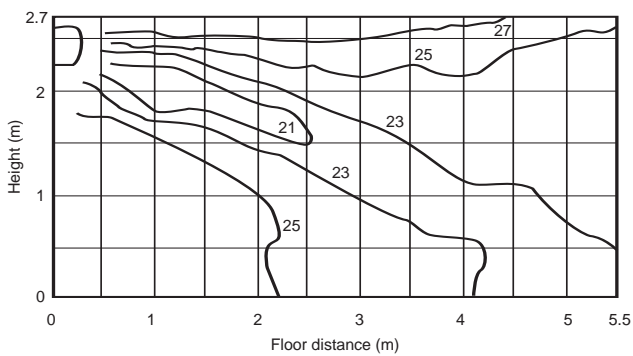


<Heating mode>
Downward air flow

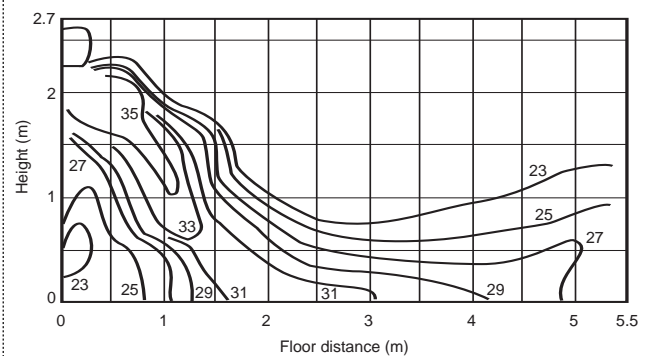


PKFY-P-VGM-E

<Cooling mode>
Flow angle : 10°



<Heating mode>
Flow angle : 70°



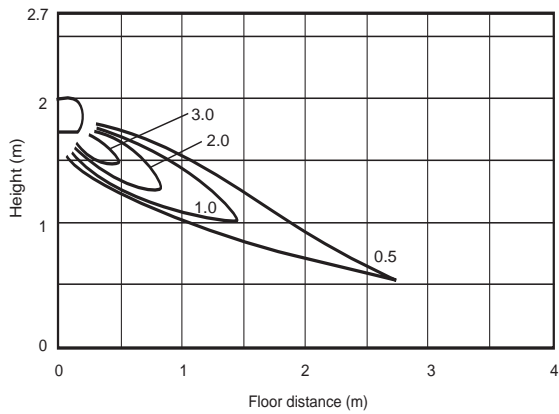
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions

PKFY-P-VAM-E

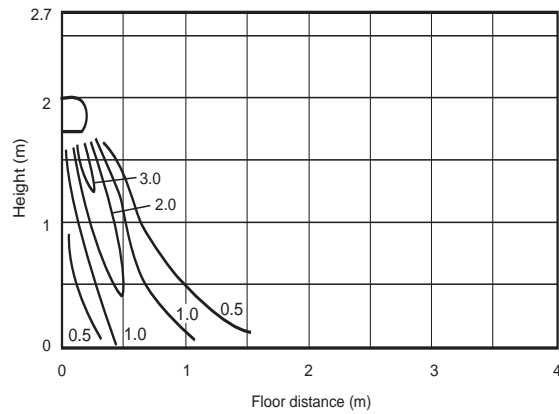
<Fan mode>

Horizontal air flow



<Fan mode>

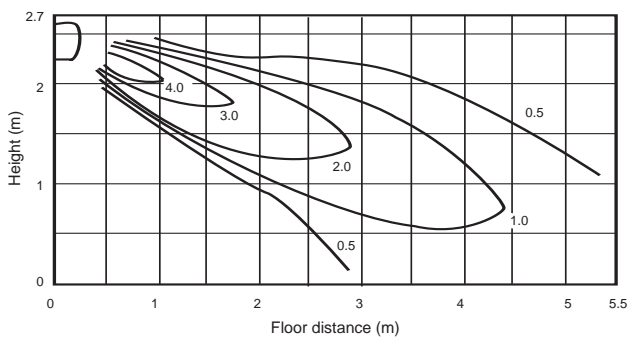
Downward air flow



PKFY-P-VGM-E

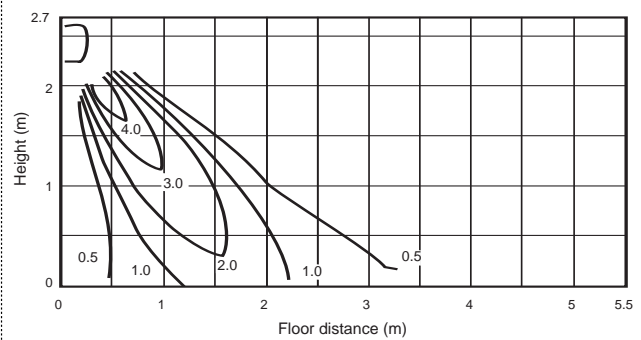
<Fan mode>

Flow angle : 10°



<Fan mode>

Flow angle : 70°



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.



PFFY-P-VLEM-E



PFFY-P-VLRM-E

PFFY-P-VLEM-E
PFFY-P-VLRM-E

| | |
|--|----------|
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| 2-1a. Cooling capacity in combination with PUHY,PUY, PURY-P200, 250YGM | IU-J- 5 |
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| 2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM | IU-J- 7 |
| 2-2b. Heating capacity in combination with PUHY, PURY-P300, 350, 400YGM | IU-J- 8 |
| 2-3a. Cooling capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-J- 9 |
| 2-3b. Heating capacity in combination with PUHY,PURY-P450, 500, 550, 600, 650YGM | IU-J- 10 |
| 2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-J- 11 |
| 2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM | IU-J- 12 |
| 2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM | IU-J- 13 |
| 2-5b. Heating capacity in combination with PUMY-P100,125,140YHM | IU-J- 14 |
| 3. SOUND LEVELS | |
| 3-1. Sound levels | IU-J- 15 |
| 3-2. NC curves | IU-J- 15 |
| 4. EXTERNAL DIMENSIONS | IU-J- 16 |
| 5. ELECTRICAL WIRING DIAGRAMS | IU-J- 18 |
| 6. TEMPERATURE/AIRFLOW DISTRIBUTIONS | |
| 6-1. Temperature distributions | IU-J- 19 |
| 6-2. Airflow distributions | IU-J- 19 |

| Floor standing | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 0.8HP | 1.0HP | 1.3HP | 1.6HP | 2.0HP | 2.5HP | 2.8HP | 3.2HP | 4.0HP | 5.0HP | 5.6HP | 8.0HP | 10.0HP |
| PFFY-P-VLEM-E | ● | ● | ● | ● | ● | ● | | | | | | | |
| PFFY-P-VLRM-E | ● | ● | ● | ● | ● | ● | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PFFY-P20VLEM-E | PFFY-P25VLEM-E | PFFY-P32VLEM-E | PFFY-P40VLEM-E | |
|---|--------------------------------|----------------------|---|--------------------------------|--------------------------------|--------------------------------|---------------|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | |
| | | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 | |
| | | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 | |
| | *2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 | |
| | | Power input | kW | 0.04 / 0.06 | 0.04 / 0.06 | 0.06 / 0.07 | 0.065 / 0.075 |
| Current input | | A | 0.19 / 0.25 | 0.19 / 0.25 | 0.29 / 0.30 | 0.32 / 0.33 | |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 | 5.0 | |
| | | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 | |
| | | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 | |
| | Power input | kW | 0.04 / 0.06 | 0.04 / 0.06 | 0.06 / 0.07 | 0.065 / 0.075 | |
| | | Current input | A | 0.19 / 0.25 | 0.19 / 0.25 | 0.29 / 0.30 | 0.32 / 0.33 |
| External finish | | | Acrylic painted, MUNSELL (5Y 8/1) | | | | |
| External dimension H x W x D | | mm | 630 x 1,050 x 220 | 630 x 1,050 x 220 | 630 x 1,170 x 220 | 630 x 1,170 x 220 | |
| | | in. | 24-13/16" x 41-3/8" x 8-11/16" | 24-13/16" x 41-3/8" x 8-11/16" | 24-13/16" x 46-1/8" x 8-11/16" | 24-13/16" x 46-1/8" x 8-11/16" | |
| Net weight | | kg (lb) | 23 (51) | 23 (51) | 25 (56) | 26 (58) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | | kW | 0.015 | 0.015 | 0.018 | 0.030 |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 5.5 - 6.5 | 5.5 - 6.5 | 7.0 - 9.0 | 9.0 - 11.0 | |
| | | L / s | 92 - 108 | 92 - 108 | 117 - 150 | 150 - 183 | |
| cfm | | 194 - 230 | 194 - 230 | 247 - 318 | 318 - 388 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | | 32 - 38 (220V, 50Hz) | 32 - 38 (220V, 50Hz) | 33 - 38 (220V, 50Hz) | 36 - 41 (220V, 50Hz) | |
| | dB <A> | | 33 - 39 (230V, 50Hz) | 33 - 39 (230V, 50Hz) | 34 - 39 (230V, 50Hz) | 37 - 42 (230V, 50Hz) | |
| | dB <A> | | 34 - 40 (240V, 50Hz) | 34 - 40 (240V, 50Hz) | 35 - 40 (240V, 50Hz) | 38 - 43 (240V, 50Hz) | |
| Insulation material | | | Polyethylene foam, Urethane foam | | | | |
| Air filter | | | PP honeycomb fabric (washable) | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | |
| | | | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | |
| | | | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | |
| Diameter of drain pipe | | mm (in.) | Accessory hose ø27 (top end : ø20) | | | | |
| Drawing | External | | IU-W65-3950 | | | | |
| | Wiring | | IU-W65-3960 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | Drain hose VP-25 (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

Note :

*1 Nominal cooling conditions

*2 Nominal cooling conditions

*3 Nominal heating conditions

Unit converter

Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)

27°CDB/19.5°CWB (81°FDB/67°FWB)

20°CDB (68°FDB)

kcal/h = kW x 860

Outdoor : 35°CDB (95°FDB)

35°CDB (95°FDB)

7°CDB/6°CWB (45°FDB/43°FWB)

Btu/h = kW x 3,412

Pipe length : 7.5 m (24-9/16 ft)

5 m (16-3/8 ft)

7.5 m (24-9/16 ft)

cfm = m³/min x 35.31

Level difference : 0 m (0 ft)

0 m (0 ft)

0 m (0 ft)

lb = kg / 0.4536

* Nominal conditions *1, *3 are subject to JIS B8615-1.

* Due to continuing improvement, above specification may be subject to change without notice.

*Above specification data is subject to rounding variation.

Ref.: Spec_PFFY-P-VLE(R)M-E_1

1. SPECIFICATIONS

R410A Data G2

| Model | | | PFFY-P50VLEM-E | PFFY-P63VLEM-E | PFFY-P20VLRM-E | PFFY-P25VLRM-E | |
|---|--------------------------------|-----------------------------|---|---|--|--|--|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 5.6 | 7.1 | 2.2 | 2.8 | |
| | | kcal / h | 4,800 | 6,100 | 1,900 | 2,400 | |
| | | Btu / h | 19,100 | 24,200 | 7,500 | 9,600 | |
| | *2 | kcal / h | 5,000 | 6,300 | 2,000 | 2,500 | |
| | | Power input | kW | 0.085 / 0.09 | 0.1 / 0.11 | 0.04 / 0.06 | 0.04 / 0.06 |
| Current input | | A | 0.40 / 0.41 | 0.46 / 0.47 | 0.19 / 0.25 | 0.19 / 0.25 | |
| Heating capacity (Nominal) | *3 | kW | 6.3 | 8.0 | 2.5 | 3.2 | |
| | | kcal / h | 5,400 | 6,900 | 2,200 | 2,800 | |
| | | Btu / h | 21,500 | 27,300 | 8,500 | 10,900 | |
| | Power input | kW | 0.085 / 0.09 | 0.1 / 0.11 | 0.04 / 0.06 | 0.04 / 0.06 | |
| | | Current input | A | 0.40 / 0.41 | 0.46 / 0.47 | 0.19 / 0.25 | 0.19 / 0.25 |
| External finish | | | Acrylic painted, MUNSELL (5Y 8/1) | | Galvanized | | |
| External dimension H x W x D | | mm | 630 x 1,410 x 220 | 630 x 1,410 x 220 | 639 x 886 x 220 | 639 x 886 x 220 | |
| | | in. | 24-13/16" x 55-9/16" x 8-11/16" | 24-13/16" x 55-9/16" x 8-11/16" | 25-3/16" x 34-15/16" x 8-11/16" | 25-3/16" x 34-15/16" x 8-11/16" | |
| Net weight | | kg (lb) | 30 (67) | 32 (71) | 18.5 (41) | 18.5 (41) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 1 | Sirocco fan x 1 | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | | kW | 0.035 | 0.063 | 0.015 | 0.015 |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | 12.0 - 14.0 | 12.0 - 15.5 | 5.5 - 6.5 | 5.5 - 6.5 | |
| | | L / s | 200 - 233 | 200 - 258 | 92 - 108 | 92 - 108 | |
| cfm | | 424 - 494 | 424 - 547 | 194 - 230 | 194 - 230 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | | 36 - 41 (220V, 50Hz) | 38 - 44 (220V, 50Hz) | 32 - 38 (220V, 50Hz) | 32 - 38 (220V, 50Hz) | |
| | dB <A> | | 37 - 42 (230V, 50Hz) | 39 - 45 (230V, 50Hz) | 33 - 39 (230V, 50Hz) | 33 - 39 (230V, 50Hz) | |
| | dB <A> | | 38 - 43 (240V, 50Hz) | 40 - 46 (240V, 50Hz) | 34 - 40 (240V, 50Hz) | 34 - 40 (240V, 50Hz) | |
| Insulation material | | | Polyethylene foam, Urethane foam | | | | |
| Air filter | | | PP honeycomb fabric (washable) | | | | |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare ø9.52 (ø3/8") Flare | ø6.35 (ø1/4") Flare ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare ø6.35 (ø1/4") Flare | |
| | | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2") Flare ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare ø15.88 (ø5/8") Flare | ø12.7 (ø1/2") Flare ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare ø12.7 (ø1/2") Flare |
| | Diameter of drain pipe | | mm (in.) | Accessory hose ø27 (top end : ø20) | | | |
| Drawing | External | | IU-W65-3950 | IU-W65-3950 | IU-W65-3951 | IU-W65-3951 | |
| | Wiring | | IU-W65-3960 | IU-W65-3960 | IU-W65-3960 | IU-W65-3960 | |
| | Refrigerant cycle | | - | - | - | - | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | | | | | |
| Remark | Optional parts | | | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PFFY-P-VLE(R)/M-E_2

1. SPECIFICATIONS

R410A Data G2

| Model | | PFFY-P32VLRM-E | PFFY-P40VLRM-E | PFFY-P50VLRM-E | PFFY-P63VLRM-E | | |
|---|--------------------------------|--|---|-------------------------------|--------------------------------|--------------------------------|---------------------|
| Power source | | 1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 3.6 | 4.5 | 5.6 | 7.1 | |
| | *1 | kcal / h | 3,100 | 3,900 | 4,800 | 6,100 | |
| | *1 | Btu / h | 12,300 | 15,400 | 19,100 | 24,200 | |
| | *2 | kcal / h | 3,150 | 4,000 | 5,000 | 6,300 | |
| | | Power input | kW | 0.06 / 0.07 | 0.065 / 0.075 | 0.085 / 0.09 | 0.1 / 0.11 |
| | | Current input | A | 0.29 / 0.30 | 0.32 / 0.33 | 0.40 / 0.41 | 0.46 / 0.47 |
| Heating capacity (Nominal) | *3 | kW | 4.0 | 5.0 | 6.3 | 8.0 | |
| | *3 | kcal / h | 3,400 | 4,300 | 5,400 | 6,900 | |
| | *3 | Btu / h | 13,600 | 17,100 | 21,500 | 27,300 | |
| | | Power input | kW | 0.06 / 0.07 | 0.065 / 0.075 | 0.085 / 0.09 | 0.1 / 0.11 |
| | | | Current input | A | 0.29 / 0.30 | 0.32 / 0.33 | 0.40 / 0.41 |
| External finish | | Galvanized | | | | | |
| External dimension H x W x D | | mm | 639 x 1,006 x 220 | 639 x 1,006 x 220 | 639 x 1,246 x 220 | 639 x 1,246 x 220 | |
| | | in. | 25-3/16" x 39-5/8" x 8-11/16" | 25-3/16" x 39-5/8" x 8-11/16" | 25-3/16" x 49-1/16" x 8-11/16" | 25-3/16" x 49-1/16" x 8-11/16" | |
| Net weight | | kg (lb) | 20 (45) | 21 (47) | 25 (56) | 27 (60) | |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | |
| | External static press. | Pa | 0 | 0 | 0 | 0 | |
| | | mmH ₂ O | 0 | 0 | 0 | 0 | |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | | kW | 0.018 | 0.030 | 0.035 | 0.063 |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | m ³ / min | | 7.0 - 9.0 | 9.0 - 11.0 | 12.0 - 14.0 | 12.0 - 15.5 |
| | | L / s | | 117 - 150 | 150 - 183 | 200 - 233 | 200 - 258 |
| cfm | | 247 - 318 | 318 - 388 | 424 - 494 | 424 - 547 | | |
| Noise level (Low-Mid-High) (measured in anechoic room) | dB <A> | | 33 - 38 (220V, 50Hz) | 36 - 41 (220V, 50Hz) | 36 - 41 (220V, 50Hz) | 38 - 44 (220V, 50Hz) | |
| | dB <A> | | 34 - 39 (230V, 50Hz) | 37 - 42 (230V, 50Hz) | 37 - 42 (230V, 50Hz) | 39 - 45 (230V, 50Hz) | |
| | dB <A> | | 35 - 40 (240V, 50Hz) | 38 - 43 (240V, 50Hz) | 38 - 43 (240V, 50Hz) | 40 - 46 (240V, 50Hz) | |
| Insulation material | | Polyethylene foam, Urethane foam | | | | | |
| Air filter | | PP honeycomb fabric (washable) | | | | | |
| Protection device | | Fuse | | | | | |
| Refrigerant control device | | LEV | | | | | |
| Connectable outdoor unit | | R410A, R407C, R22 CITY MULTI | | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | |
| | | Gas (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4") Flare | ø6.35 (ø1/4") Flare | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare |
| Diameter of drain pipe | | mm (in.) | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | |
| | | | ø12.7 (ø1/2") Flare | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| Diameter of drain pipe | | mm (in.) | Accessory hose ø27 (top end : ø20) | | | | |
| Drawing | External | | IU-W65-3951 | | | | |
| | Wiring | | IU-W65-3960 | | | | |
| | Refrigerant cycle | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | |
| | Accessory | | | | | | |
| Remark | Optional parts | | | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

| | | | | |
|---|--|---------------------------------|-------------------------------|---|
| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 | |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specification may be subject to change without notice. | | | | |

Ref.: Spec_PFFY-P-VLE(R)M-E_3

2. CAPACITY TABLES

R410A Data G2

2-1a. Cooling capacity in combination with PUHY,PUY,PURY-P200,250YGM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.9 | 2.2 | 2.0 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 73 | 22.5 | 2.1 | 1.9 | 2.2 | 2.0 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 77 | 25.0 | 2.1 | 1.9 | 2.2 | 2.0 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 82 | 27.5 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.3 | 2.0 | 2.4 | 2.1 | 2.5 | 2.0 | 2.7 | 2.0 |
| | 86 | 30.0 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.3 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 |
| | 91 | 32.5 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 |
| | 95 | 35.0 | 2.0 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 1.9 |
| | 100 | 37.5 | 1.9 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.1 | 1.9 | 2.2 | 2.0 | 2.3 | 2.0 | 2.5 | 1.9 |
| | 104 | 40.0 | 1.9 | 1.8 | 1.9 | 1.9 | 2.1 | 1.8 | 2.1 | 1.9 | 2.2 | 2.0 | 2.3 | 1.9 | 2.4 | 1.9 |
| 110 | 43.0 | 1.8 | 1.8 | 1.9 | 1.8 | 2.0 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.4 | 1.9 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 73 | 22.5 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.2 | 2.8 | 2.1 | 2.8 | 2.2 | 2.9 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.1 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.1 |
| 110 | 43.0 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.1 | 3.0 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.5 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.6 | 2.6 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.5 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.6 | 2.6 |
| | 77 | 25.0 | 3.4 | 2.5 | 3.5 | 2.6 | 3.8 | 2.5 | 3.9 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 82 | 27.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.4 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.5 | 4.3 | 2.5 |
| | 91 | 32.5 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.4 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.5 | 4.2 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.5 | 4.1 | 2.4 |
| | 100 | 37.5 | 3.2 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.8 | 2.5 | 4.0 | 2.4 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.7 | 2.4 | 4.0 | 2.4 |
| 110 | 43.0 | 3.0 | 2.3 | 3.1 | 2.3 | 3.3 | 2.3 | 3.3 | 2.3 | 3.5 | 2.4 | 3.6 | 2.4 | 3.9 | 2.3 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.7 | 3.3 |
| | 73 | 22.5 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.7 | 3.3 |
| | 77 | 25.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.3 | 3.1 | 4.4 | 3.2 | 4.6 | 3.1 | 4.8 | 3.2 | 4.9 | 3.3 | 5.2 | 3.2 | 5.5 | 3.2 |
| | 86 | 30.0 | 4.2 | 3.1 | 4.3 | 3.1 | 4.6 | 3.1 | 4.7 | 3.1 | 4.8 | 3.3 | 5.0 | 3.2 | 5.4 | 3.2 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.6 | 3.1 | 4.7 | 3.2 | 5.0 | 3.2 | 5.3 | 3.1 |
| | 95 | 35.0 | 4.0 | 3.0 | 4.1 | 3.1 | 4.4 | 3.0 | 4.5 | 3.1 | 4.6 | 3.2 | 4.9 | 3.1 | 5.2 | 3.1 |
| | 100 | 37.5 | 3.9 | 2.9 | 4.1 | 3.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.8 | 3.1 | 5.0 | 3.0 |
| | 104 | 40.0 | 3.9 | 2.9 | 4.0 | 3.0 | 4.2 | 3.0 | 4.3 | 3.0 | 4.5 | 3.1 | 4.7 | 3.0 | 5.0 | 3.0 |
| 110 | 43.0 | 3.8 | 2.9 | 3.9 | 3.0 | 4.1 | 2.9 | 4.2 | 2.9 | 4.3 | 3.1 | 4.5 | 3.0 | 4.8 | 3.0 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.9 | 5.5 | 4.1 | 5.9 | 4.0 | 6.0 | 4.1 | 6.2 | 4.2 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 73 | 22.5 | 5.3 | 3.9 | 5.5 | 4.1 | 5.9 | 4.0 | 6.0 | 4.1 | 6.2 | 4.2 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 77 | 25.0 | 5.3 | 3.9 | 5.5 | 4.1 | 5.9 | 4.0 | 6.0 | 4.1 | 6.2 | 4.2 | 6.6 | 4.2 | 6.9 | 4.1 |
| | 82 | 27.5 | 5.3 | 3.9 | 5.5 | 4.0 | 5.8 | 4.0 | 5.9 | 4.0 | 6.1 | 4.2 | 6.4 | 4.1 | 6.8 | 4.0 |
| | 86 | 30.0 | 5.2 | 3.9 | 5.3 | 4.0 | 5.7 | 3.9 | 5.8 | 4.0 | 6.0 | 4.1 | 6.3 | 4.0 | 6.7 | 4.0 |
| | 91 | 32.5 | 5.1 | 3.8 | 5.3 | 3.9 | 5.5 | 3.9 | 5.7 | 3.9 | 5.9 | 4.1 | 6.2 | 4.0 | 6.6 | 3.9 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.2 | 3.9 | 5.5 | 3.8 | 5.6 | 3.9 | 5.7 | 4.0 | 6.0 | 4.0 | 6.4 | 3.9 |
| | 100 | 37.5 | 4.9 | 3.7 | 5.0 | 3.8 | 5.3 | 3.8 | 5.5 | 3.8 | 5.6 | 4.0 | 5.9 | 3.9 | 6.3 | 3.8 |
| | 104 | 40.0 | 4.8 | 3.7 | 5.0 | 3.8 | 5.3 | 3.8 | 5.4 | 3.8 | 5.5 | 3.9 | 5.8 | 3.9 | 6.2 | 3.8 |
| 110 | 43.0 | 4.7 | 3.6 | 4.8 | 3.7 | 5.1 | 3.7 | 5.2 | 3.7 | 5.4 | 3.9 | 5.7 | 3.8 | 6.0 | 3.7 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.9 | 7.0 | 5.0 | 7.5 | 5.0 | 7.7 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 9.0 | 5.1 |
| | 73 | 22.5 | 6.7 | 4.9 | 7.0 | 5.0 | 7.5 | 5.0 | 7.7 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 9.0 | 5.1 |
| | 77 | 25.0 | 6.7 | 4.9 | 7.0 | 5.0 | 7.5 | 5.0 | 7.7 | 5.0 | 7.8 | 5.2 | 8.3 | 5.1 | 8.8 | 5.0 |
| | 82 | 27.5 | 6.7 | 4.9 | 6.9 | 5.0 | 7.3 | 4.9 | 7.5 | 5.0 | 7.7 | 5.1 | 8.1 | 5.0 | 8.7 | 5.0 |
| | 86 | 30.0 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.9 | 7.4 | 4.9 | 7.6 | 5.1 | 8.0 | 5.0 | 8.5 | 4.9 |
| | 91 | 32.5 | 6.5 | 4.7 | 6.7 | 4.9 | 7.0 | 4.8 | 7.2 | 4.8 | 7.4 | 5.0 | 7.8 | 4.9 | 8.3 | 4.9 |
| | 95 | 35.0 | 6.4 | 4.7 | 6.5 | 4.8 | 6.9 | 4.7 | 7.1 | 4.8 | 7.3 | 5.0 | 7.7 | 4.9 | 8.1 | 4.8 |
| | 100 | 37.5 | 6.2 | 4.6 | 6.4 | 4.7 | 6.8 | 4.7 | 6.9 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.0 | 4.7 |
| | 104 | 40.0 | 6.1 | 4.5 | 6.3 | 4.7 | 6.7 | 4.6 | 6.8 | 4.7 | 7.0 | 4.8 | 7.3 | 4.7 | 7.8 | 4.7 |
| 110 | 43.0 | 6.0 | 4.5 | 6.1 | 4.6 | 6.5 | 4.5 | 6.6 | 4.6 | 6.8 | 4.8 | 7.2 | 4.7 | 7.6 | 4.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-1b. Heating capacity in combination with PUHY,PURY-P200,250YGM

PFFY-P-VLEM-E,VLRM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.8 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 1.8 |
| | 32 | 0.0 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.5 | 2.5 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.9 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 3.0 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 3.2 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.3 | 2.2 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.6 | 2.2 |
| | 32 | 0.0 | 3.0 | 3.0 | 2.6 | 2.2 |
| | 37 | 2.5 | 3.2 | 3.2 | 2.6 | 2.2 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.6 | 2.2 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.6 | 2.2 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.6 | 2.2 |
| | 55 | 12.5 | 3.9 | 3.2 | 2.6 | 2.2 |
| 60 | 15.5 | 4.1 | 3.2 | 2.6 | 2.2 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.4 |
| | 14 | -10.0 | 2.9 | 2.9 | 2.8 | 2.7 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 2.8 |
| | 32 | 0.0 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 37 | 2.5 | 4.0 | 4.0 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.3 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.6 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.8 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 5.1 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.1 | 3.0 | 3.0 |
| | 14 | -10.0 | 3.7 | 3.6 | 3.5 | 3.4 |
| | 23 | -5.0 | 4.2 | 4.2 | 4.0 | 3.5 |
| | 32 | 0.0 | 4.7 | 4.7 | 4.0 | 3.5 |
| | 37 | 2.5 | 5.0 | 5.0 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.4 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.7 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 6.0 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 6.4 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.6 | 4.5 | 4.4 | 4.3 |
| | 23 | -5.0 | 5.3 | 5.2 | 5.0 | 4.4 |
| | 32 | 0.0 | 6.0 | 5.9 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.3 | 6.2 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.6 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.8 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.2 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.6 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 8.1 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.9 | 4.8 | 4.7 |
| | 14 | -10.0 | 5.8 | 5.8 | 5.6 | 5.5 |
| | 23 | -5.0 | 6.7 | 6.6 | 6.4 | 5.6 |
| | 32 | 0.0 | 7.6 | 7.5 | 6.4 | 5.6 |
| | 37 | 2.5 | 8.0 | 7.9 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.3 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.6 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 9.1 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.6 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 10.2 | 8.0 | 6.4 | 5.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-2a. Cooling capacity in combination with PUHY,PUY,PURY-P300,350YGM / PUHY,PURY-P400YGM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.9 | 2.2 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.9 | 2.1 |
| | 73 | 22.5 | 2.1 | 1.9 | 2.2 | 2.0 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.0 |
| | 77 | 25.0 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 82 | 27.5 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.3 | 2.0 | 2.4 | 2.1 | 2.5 | 2.0 | 2.7 | 2.0 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 |
| | 91 | 32.5 | 2.0 | 1.8 | 2.0 | 1.9 | 2.2 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 |
| | 95 | 35.0 | 2.0 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 |
| | 100 | 37.5 | 1.9 | 1.8 | 1.9 | 1.9 | 2.1 | 1.8 | 2.1 | 1.9 | 2.2 | 2.0 | 2.4 | 2.0 | 2.5 | 1.9 |
| | 104 | 40.0 | 1.9 | 1.8 | 1.9 | 1.8 | 2.0 | 1.8 | 2.1 | 1.9 | 2.4 | 2.0 | 2.3 | 1.9 | 2.4 | 1.9 |
| 110 | 43.0 | 1.8 | 1.8 | 1.8 | 1.8 | 2.0 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.4 | 1.9 | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.3 | 3.6 | 2.3 |
| | 73 | 22.5 | 2.7 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.3 | 3.6 | 2.3 |
| | 77 | 25.0 | 2.7 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.6 | 2.1 | 2.6 | 2.2 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 3.0 | 2.3 | 2.9 | 2.2 | 3.1 | 2.1 |
| 110 | 43.0 | 2.4 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.8 | 2.1 | 3.0 | 2.1 | |
| 32 (3.6) | 68 | 20.0 | 3.5 | 2.5 | 3.6 | 2.6 | 3.9 | 2.6 | 4.0 | 2.6 | 4.2 | 2.7 | 4.4 | 2.7 | 4.7 | 2.7 |
| | 73 | 22.5 | 3.5 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.0 | 2.6 | 4.1 | 2.7 | 4.3 | 2.7 | 4.6 | 2.6 |
| | 77 | 25.0 | 3.4 | 2.5 | 3.5 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 82 | 27.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.6 | 4.4 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 |
| | 91 | 32.5 | 3.3 | 2.4 | 3.3 | 2.5 | 3.5 | 2.4 | 3.7 | 2.5 | 3.8 | 2.6 | 4.0 | 2.5 | 4.2 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.5 | 4.2 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.9 | 2.5 | 4.1 | 2.4 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.1 | 2.3 | 3.3 | 2.3 | 3.4 | 2.4 | 3.9 | 2.6 | 3.8 | 2.4 | 4.0 | 2.4 |
| 110 | 43.0 | 3.0 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.3 | 3.4 | 2.4 | 3.7 | 2.4 | 3.9 | 2.4 | |
| 40 (4.5) | 68 | 20.0 | 4.4 | 3.2 | 4.5 | 3.3 | 4.9 | 3.3 | 5.0 | 3.3 | 5.2 | 3.4 | 5.5 | 3.4 | 5.9 | 3.3 |
| | 73 | 22.5 | 4.3 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.0 | 3.3 | 5.1 | 3.4 | 5.4 | 3.3 | 5.7 | 3.3 |
| | 77 | 25.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.9 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.2 | 3.1 | 4.3 | 3.2 | 4.6 | 3.1 | 4.8 | 3.2 | 4.9 | 3.3 | 5.2 | 3.3 | 5.5 | 3.2 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.1 | 4.8 | 3.3 | 5.1 | 3.2 | 5.4 | 3.2 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.4 | 3.1 | 4.6 | 3.1 | 4.7 | 3.2 | 5.0 | 3.2 | 5.3 | 3.1 |
| | 95 | 35.0 | 4.0 | 3.0 | 4.1 | 3.0 | 4.3 | 3.0 | 4.5 | 3.1 | 4.6 | 3.2 | 4.9 | 3.1 | 5.2 | 3.1 |
| | 100 | 37.5 | 4.0 | 3.0 | 4.0 | 3.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.8 | 3.1 | 5.1 | 3.1 |
| | 104 | 40.0 | 3.9 | 2.9 | 3.9 | 3.0 | 4.2 | 2.9 | 4.3 | 3.0 | 4.9 | 3.3 | 4.7 | 3.1 | 5.0 | 3.0 |
| 110 | 43.0 | 3.8 | 2.9 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.8 | 3.0 | |
| 50 (5.6) | 68 | 20.0 | 5.4 | 4.0 | 5.6 | 4.1 | 6.0 | 4.1 | 6.3 | 4.2 | 6.5 | 4.3 | 6.9 | 4.3 | 7.3 | 4.2 |
| | 73 | 22.5 | 5.4 | 4.0 | 5.6 | 4.1 | 6.0 | 4.1 | 6.2 | 4.1 | 6.4 | 4.3 | 6.7 | 4.2 | 7.1 | 4.2 |
| | 77 | 25.0 | 5.3 | 3.9 | 5.5 | 4.0 | 5.9 | 4.0 | 6.0 | 4.1 | 6.2 | 4.2 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 82 | 27.5 | 5.2 | 3.9 | 5.4 | 4.0 | 5.7 | 4.0 | 5.9 | 4.0 | 6.1 | 4.2 | 6.5 | 4.1 | 6.9 | 4.1 |
| | 86 | 30.0 | 5.2 | 3.8 | 5.3 | 3.9 | 5.6 | 3.9 | 5.8 | 4.0 | 6.0 | 4.1 | 6.4 | 4.1 | 6.7 | 4.0 |
| | 91 | 32.5 | 5.1 | 3.8 | 5.2 | 3.9 | 5.5 | 3.9 | 5.7 | 3.9 | 5.9 | 4.1 | 6.2 | 4.0 | 6.6 | 4.0 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.1 | 3.8 | 5.4 | 3.8 | 5.6 | 3.9 | 5.8 | 4.0 | 6.1 | 4.0 | 6.5 | 3.9 |
| | 100 | 37.5 | 4.9 | 3.7 | 5.0 | 3.8 | 5.3 | 3.8 | 5.5 | 3.8 | 5.7 | 4.0 | 6.0 | 3.9 | 6.3 | 3.9 |
| | 104 | 40.0 | 4.8 | 3.7 | 4.8 | 3.7 | 5.2 | 3.7 | 5.3 | 3.8 | 6.1 | 4.2 | 5.9 | 3.9 | 6.2 | 3.8 |
| 110 | 43.0 | 4.7 | 3.6 | 4.7 | 3.7 | 5.0 | 3.7 | 5.2 | 3.7 | 5.3 | 3.9 | 5.7 | 3.8 | 6.0 | 3.8 | |
| 63 (7.1) | 68 | 20.0 | 6.9 | 4.9 | 7.1 | 5.1 | 7.7 | 5.1 | 8.0 | 5.2 | 8.2 | 5.4 | 8.7 | 5.3 | 9.2 | 5.2 |
| | 73 | 22.5 | 6.9 | 4.9 | 7.1 | 5.1 | 7.6 | 5.0 | 7.8 | 5.1 | 8.1 | 5.3 | 8.5 | 5.2 | 9.1 | 5.1 |
| | 77 | 25.0 | 6.8 | 4.9 | 7.0 | 5.0 | 7.4 | 5.0 | 7.7 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 8.9 | 5.1 |
| | 82 | 27.5 | 6.6 | 4.8 | 6.8 | 4.9 | 7.3 | 4.9 | 7.5 | 5.0 | 7.8 | 5.2 | 8.2 | 5.1 | 8.7 | 5.0 |
| | 86 | 30.0 | 6.5 | 4.8 | 6.7 | 4.9 | 7.1 | 4.8 | 7.4 | 4.9 | 7.6 | 5.1 | 8.1 | 5.0 | 8.5 | 4.9 |
| | 91 | 32.5 | 6.4 | 4.7 | 6.6 | 4.8 | 7.0 | 4.8 | 7.2 | 4.9 | 7.5 | 5.0 | 7.9 | 4.9 | 8.4 | 4.9 |
| | 95 | 35.0 | 6.3 | 4.7 | 6.4 | 4.7 | 6.8 | 4.7 | 7.1 | 4.8 | 7.3 | 5.0 | 7.7 | 4.9 | 8.2 | 4.8 |
| | 100 | 37.5 | 6.2 | 4.6 | 6.3 | 4.7 | 6.7 | 4.6 | 6.9 | 4.7 | 7.2 | 4.9 | 7.6 | 4.8 | 8.0 | 4.8 |
| | 104 | 40.0 | 6.1 | 4.6 | 6.1 | 4.6 | 6.6 | 4.6 | 6.8 | 4.7 | 7.7 | 5.1 | 7.4 | 4.8 | 7.8 | 4.7 |
| 110 | 43.0 | 6.0 | 4.5 | 6.0 | 4.5 | 6.4 | 4.5 | 6.6 | 4.6 | 6.8 | 4.7 | 7.2 | 4.7 | 7.6 | 4.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-2b. Heating capacity in combination with PUHY,PURY-P300,350,400YGM

PFFY-P-VLEM-E,VLRM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
| | | | 59 °FDB | 68 °FDB | 77 °FDB | 81 °FDB |
| | °FWB | °CWB | 15.0°CDB | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| | | | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.2 |
| | 5 | -15.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.6 |
| | 23 | -5.0 | 2.0 | 2.0 | 1.9 | 1.6 |
| | 32 | 0.0 | 2.3 | 2.3 | 1.9 | 1.6 |
| | 37 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 |
| | 43 | 6.0 | 2.6 | 2.5 | 1.9 | 1.6 |
| | 46 | 7.5 | 2.7 | 2.5 | 1.9 | 1.6 |
| | 50 | 10.0 | 2.8 | 2.5 | 1.9 | 1.6 |
| | 60 | 15.5 | 2.9 | 2.5 | 1.9 | 1.6 |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.5 |
| | 5 | -15.0 | 1.9 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.2 | 2.2 | 2.2 | 2.0 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.4 | 2.0 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.4 | 2.0 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.4 | 2.0 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.4 | 2.0 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.4 | 2.0 |
| | 50 | 10.0 | 3.5 | 3.2 | 2.4 | 2.0 |
| | 60 | 15.5 | 3.7 | 3.2 | 2.4 | 2.0 |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 1.9 |
| | 5 | -15.0 | 2.4 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.8 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.2 | 3.2 | 3.0 | 2.6 |
| | 32 | 0.0 | 3.6 | 3.6 | 3.0 | 2.6 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.0 | 2.6 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.0 | 2.6 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.0 | 2.6 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.0 | 2.6 |
| | 60 | 15.5 | 4.6 | 4.0 | 3.0 | 2.6 |
| 40 (4.5) | -4 | -20.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 5 | -15.0 | 3.0 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.5 | 3.5 | 3.4 | 3.2 |
| | 23 | -5.0 | 4.0 | 4.0 | 3.8 | 3.2 |
| | 32 | 0.0 | 4.5 | 4.5 | 3.8 | 3.2 |
| | 37 | 2.5 | 4.8 | 4.7 | 3.8 | 3.2 |
| | 43 | 6.0 | 5.1 | 5.0 | 3.8 | 3.2 |
| | 46 | 7.5 | 5.3 | 5.0 | 3.8 | 3.2 |
| | 50 | 10.0 | 5.5 | 5.0 | 3.8 | 3.2 |
| | 60 | 15.5 | 5.8 | 5.0 | 3.8 | 3.2 |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.0 |
| | 5 | -15.0 | 3.8 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.4 | 4.4 | 4.3 | 4.0 |
| | 23 | -5.0 | 5.0 | 5.0 | 4.7 | 4.0 |
| | 32 | 0.0 | 5.7 | 5.7 | 4.7 | 4.0 |
| | 37 | 2.5 | 6.0 | 6.0 | 4.7 | 4.0 |
| | 43 | 6.0 | 6.5 | 6.3 | 4.7 | 4.0 |
| | 46 | 7.5 | 6.7 | 6.3 | 4.7 | 4.0 |
| | 50 | 10.0 | 7.0 | 6.3 | 4.7 | 4.0 |
| | 60 | 15.5 | 7.2 | 6.3 | 4.7 | 4.0 |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.0 | 4.0 | 3.8 |
| | 5 | -15.0 | 4.8 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.6 | 5.6 | 5.5 | 5.1 |
| | 23 | -5.0 | 6.4 | 6.4 | 6.0 | 5.1 |
| | 32 | 0.0 | 7.2 | 7.2 | 6.0 | 5.1 |
| | 37 | 2.5 | 7.6 | 7.6 | 6.0 | 5.1 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.0 | 5.1 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.0 | 5.1 |
| | 50 | 10.0 | 8.8 | 8.0 | 6.0 | 5.1 |
| | 60 | 15.5 | 9.2 | 8.0 | 6.0 | 5.1 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-3a. Cooling capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 73 | 22.5 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.3 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 77 | 25.0 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 82 | 27.5 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 |
| | 86 | 30.0 | 2.0 | 1.8 | 2.0 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.5 | 2.0 | 2.7 | 2.0 |
| | 91 | 32.5 | 2.0 | 1.8 | 2.0 | 1.9 | 2.2 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 |
| | 95 | 35.0 | 2.0 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 |
| | 100 | 37.5 | 1.9 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 |
| | 104 | 40.0 | 1.9 | 1.8 | 1.9 | 1.9 | 2.1 | 1.9 | 2.1 | 1.9 | 2.2 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 |
| 110 | 43.0 | 1.9 | 1.8 | 1.9 | 1.8 | 2.1 | 1.8 | 2.1 | 1.9 | 2.2 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 | |
| 25 (2.8) | 68 | 20.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 73 | 22.5 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 77 | 25.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.3 | 3.2 | 2.3 | 3.5 | 2.3 |
| | 82 | 27.5 | 2.6 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 86 | 30.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.2 |
| | 91 | 32.5 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.3 | 3.2 | 2.2 | 3.4 | 2.2 |
| | 95 | 35.0 | 2.5 | 2.1 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.3 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 100 | 37.5 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| | 104 | 40.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.7 | 2.1 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 |
| 110 | 43.0 | 2.4 | 2.0 | 2.5 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.0 | 2.7 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 73 | 22.5 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 77 | 25.0 | 3.3 | 2.4 | 3.4 | 2.5 | 3.7 | 2.5 | 3.8 | 2.5 | 3.9 | 2.6 | 4.2 | 2.6 | 4.4 | 2.6 |
| | 82 | 27.5 | 3.3 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 |
| | 86 | 30.0 | 3.3 | 2.4 | 3.3 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.1 | 2.6 | 4.4 | 2.5 |
| | 91 | 32.5 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.8 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 |
| | 95 | 35.0 | 3.2 | 2.4 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 4.0 | 2.5 | 4.3 | 2.5 |
| | 100 | 37.5 | 3.2 | 2.4 | 3.2 | 2.4 | 3.5 | 2.4 | 3.5 | 2.4 | 3.7 | 2.5 | 4.0 | 2.5 | 4.2 | 2.5 |
| | 104 | 40.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.7 | 2.5 | 4.0 | 2.5 | 4.2 | 2.5 |
| 110 | 43.0 | 3.1 | 2.3 | 3.2 | 2.4 | 3.4 | 2.4 | 3.5 | 2.4 | 3.6 | 2.5 | 3.9 | 2.5 | 4.2 | 2.5 | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.8 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.7 | 3.3 |
| | 73 | 22.5 | 4.2 | 3.1 | 4.3 | 3.2 | 4.6 | 3.1 | 4.8 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 77 | 25.0 | 4.2 | 3.1 | 4.3 | 3.1 | 4.6 | 3.1 | 4.7 | 3.2 | 4.9 | 3.3 | 5.2 | 3.3 | 5.6 | 3.2 |
| | 82 | 27.5 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.1 | 4.9 | 3.3 | 5.2 | 3.2 | 5.4 | 3.2 |
| | 86 | 30.0 | 4.1 | 3.0 | 4.2 | 3.1 | 4.5 | 3.1 | 4.6 | 3.1 | 4.8 | 3.3 | 5.1 | 3.2 | 5.4 | 3.2 |
| | 91 | 32.5 | 4.1 | 3.0 | 4.1 | 3.1 | 4.4 | 3.0 | 4.5 | 3.1 | 4.8 | 3.2 | 5.1 | 3.2 | 5.4 | 3.2 |
| | 95 | 35.0 | 4.0 | 3.0 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.7 | 3.2 | 5.0 | 3.2 | 5.4 | 3.1 |
| | 100 | 37.5 | 4.0 | 3.0 | 4.0 | 3.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.7 | 3.2 | 5.0 | 3.2 | 5.3 | 3.1 |
| | 104 | 40.0 | 3.9 | 2.9 | 4.0 | 3.0 | 4.3 | 3.0 | 4.4 | 3.0 | 4.6 | 3.2 | 5.0 | 3.2 | 5.3 | 3.1 |
| 110 | 43.0 | 3.9 | 2.9 | 3.9 | 3.0 | 4.2 | 3.0 | 4.3 | 3.0 | 4.5 | 3.1 | 4.9 | 3.1 | 5.2 | 3.1 | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.9 | 5.5 | 4.0 | 5.8 | 4.0 | 6.0 | 4.1 | 6.2 | 4.2 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 73 | 22.5 | 5.3 | 3.9 | 5.4 | 4.0 | 5.8 | 4.0 | 5.9 | 4.0 | 6.2 | 4.2 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 77 | 25.0 | 5.2 | 3.9 | 5.3 | 4.0 | 5.7 | 4.0 | 5.9 | 4.0 | 6.1 | 4.2 | 6.5 | 4.1 | 6.9 | 4.1 |
| | 82 | 27.5 | 5.2 | 3.8 | 5.3 | 3.9 | 5.7 | 3.9 | 5.8 | 4.0 | 6.0 | 4.2 | 6.4 | 4.1 | 6.7 | 4.0 |
| | 86 | 30.0 | 5.1 | 3.8 | 5.2 | 3.9 | 5.6 | 3.9 | 5.8 | 4.0 | 6.0 | 4.1 | 6.4 | 4.1 | 6.8 | 4.0 |
| | 91 | 32.5 | 5.0 | 3.8 | 5.2 | 3.9 | 5.5 | 3.9 | 5.7 | 3.9 | 5.9 | 4.1 | 6.3 | 4.1 | 6.7 | 4.0 |
| | 95 | 35.0 | 5.0 | 3.8 | 5.1 | 3.8 | 5.5 | 3.8 | 5.6 | 3.9 | 5.8 | 4.1 | 6.3 | 4.0 | 6.7 | 4.0 |
| | 100 | 37.5 | 4.9 | 3.7 | 5.0 | 3.8 | 5.4 | 3.8 | 5.5 | 3.9 | 5.8 | 4.0 | 6.2 | 4.0 | 6.6 | 4.0 |
| | 104 | 40.0 | 4.8 | 3.7 | 5.0 | 3.8 | 5.3 | 3.8 | 5.4 | 3.8 | 5.7 | 4.0 | 6.2 | 4.0 | 6.6 | 3.9 |
| 110 | 43.0 | 4.8 | 3.7 | 4.9 | 3.8 | 5.3 | 3.8 | 5.4 | 3.8 | 5.7 | 4.0 | 6.0 | 4.0 | 6.5 | 3.9 | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.9 | 6.9 | 5.0 | 7.4 | 5.0 | 7.6 | 5.0 | 7.9 | 5.2 | 8.4 | 5.1 | 8.9 | 5.1 |
| | 73 | 22.5 | 6.7 | 4.8 | 6.9 | 4.9 | 7.3 | 4.9 | 7.5 | 5.0 | 7.8 | 5.2 | 8.3 | 5.1 | 8.8 | 5.1 |
| | 77 | 25.0 | 6.6 | 4.8 | 6.8 | 4.9 | 7.2 | 4.9 | 7.5 | 4.9 | 7.7 | 5.1 | 8.2 | 5.1 | 8.8 | 5.0 |
| | 82 | 27.5 | 6.5 | 4.8 | 6.7 | 4.9 | 7.2 | 4.9 | 7.4 | 4.9 | 7.7 | 5.1 | 8.2 | 5.1 | 8.5 | 4.9 |
| | 86 | 30.0 | 6.5 | 4.7 | 6.6 | 4.8 | 7.1 | 4.8 | 7.3 | 4.9 | 7.6 | 5.1 | 8.1 | 5.0 | 8.6 | 5.0 |
| | 91 | 32.5 | 6.4 | 4.7 | 6.5 | 4.8 | 7.0 | 4.8 | 7.2 | 4.8 | 7.5 | 5.1 | 8.0 | 5.0 | 8.5 | 4.9 |
| | 95 | 35.0 | 6.3 | 4.7 | 6.4 | 4.7 | 6.9 | 4.7 | 7.1 | 4.8 | 7.4 | 5.0 | 8.0 | 5.0 | 8.4 | 4.9 |
| | 100 | 37.5 | 6.2 | 4.6 | 6.4 | 4.7 | 6.8 | 4.7 | 7.0 | 4.7 | 7.3 | 5.0 | 7.8 | 4.9 | 8.4 | 4.9 |
| | 104 | 40.0 | 6.1 | 4.6 | 6.3 | 4.7 | 6.8 | 4.7 | 6.9 | 4.7 | 7.2 | 4.9 | 7.8 | 4.9 | 8.3 | 4.9 |
| 110 | 43.0 | 6.1 | 4.5 | 6.2 | 4.6 | 6.7 | 4.6 | 6.8 | 4.7 | 7.2 | 4.9 | 7.7 | 4.9 | 8.2 | 4.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-3b. Heating capacity in combination with PUHY,PURY-P450,500,550,600,650YGM

PFFY-P-VLEM-E,VLRM-E SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| | 5 | -15.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| | 14 | -10.0 | 1.8 | 1.8 | 1.7 | 1.7 |
| | 23 | -5.0 | 2.1 | 2.0 | 1.9 | 1.8 |
| | 32 | 0.0 | 2.3 | 2.3 | 2.0 | 1.8 |
| | 37 | 2.5 | 2.4 | 2.4 | 2.0 | 1.8 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.0 | 1.8 |
| | 46 | 7.5 | 2.7 | 2.5 | 2.0 | 1.8 |
| | 50 | 10.0 | 2.8 | 2.5 | 2.0 | 1.8 |
| | 55 | 12.5 | 2.9 | 2.5 | 2.0 | 1.8 |
| 60 | 15.5 | 2.9 | 2.5 | 2.0 | 1.8 | |
| 25 (2.8) | -4 | -20.0 | 1.7 | 1.6 | 1.6 | 1.6 |
| | 5 | -15.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | 14 | -10.0 | 2.3 | 2.2 | 2.2 | 2.1 |
| | 23 | -5.0 | 2.6 | 2.6 | 2.5 | 2.3 |
| | 32 | 0.0 | 2.9 | 2.9 | 2.5 | 2.3 |
| | 37 | 2.5 | 3.1 | 3.0 | 2.5 | 2.3 |
| | 43 | 6.0 | 3.3 | 3.2 | 2.5 | 2.3 |
| | 46 | 7.5 | 3.4 | 3.2 | 2.5 | 2.3 |
| | 50 | 10.0 | 3.6 | 3.2 | 2.5 | 2.3 |
| | 55 | 12.5 | 3.7 | 3.2 | 2.5 | 2.3 |
| 60 | 15.5 | 3.7 | 3.2 | 2.5 | 2.3 | |
| 32 (3.6) | -4 | -20.0 | 2.1 | 2.0 | 2.0 | 2.0 |
| | 5 | -15.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| | 14 | -10.0 | 2.9 | 2.8 | 2.7 | 2.6 |
| | 23 | -5.0 | 3.3 | 3.2 | 3.1 | 2.8 |
| | 32 | 0.0 | 3.7 | 3.6 | 3.2 | 2.8 |
| | 37 | 2.5 | 3.8 | 3.8 | 3.2 | 2.8 |
| | 43 | 6.0 | 4.1 | 4.0 | 3.2 | 2.8 |
| | 46 | 7.5 | 4.2 | 4.0 | 3.2 | 2.8 |
| | 50 | 10.0 | 4.4 | 4.0 | 3.2 | 2.8 |
| | 55 | 12.5 | 4.6 | 4.0 | 3.2 | 2.8 |
| 60 | 15.5 | 4.6 | 4.0 | 3.2 | 2.8 | |
| 40 (4.5) | -4 | -20.0 | 2.7 | 2.6 | 2.6 | 2.5 |
| | 5 | -15.0 | 3.1 | 3.0 | 3.0 | 2.9 |
| | 14 | -10.0 | 3.6 | 3.5 | 3.4 | 3.3 |
| | 23 | -5.0 | 4.1 | 4.0 | 3.9 | 3.5 |
| | 32 | 0.0 | 4.6 | 4.5 | 4.0 | 3.5 |
| | 37 | 2.5 | 4.8 | 4.8 | 4.0 | 3.5 |
| | 43 | 6.0 | 5.2 | 5.0 | 4.0 | 3.5 |
| | 46 | 7.5 | 5.3 | 5.0 | 4.0 | 3.5 |
| | 50 | 10.0 | 5.6 | 5.0 | 4.0 | 3.5 |
| | 55 | 12.5 | 5.8 | 5.0 | 4.0 | 3.5 |
| 60 | 15.5 | 5.8 | 5.0 | 4.0 | 3.5 | |
| 50 (5.6) | -4 | -20.0 | 3.3 | 3.2 | 3.2 | 3.2 |
| | 5 | -15.0 | 3.9 | 3.8 | 3.8 | 3.7 |
| | 14 | -10.0 | 4.5 | 4.4 | 4.3 | 4.2 |
| | 23 | -5.0 | 5.2 | 5.0 | 4.9 | 4.4 |
| | 32 | 0.0 | 5.8 | 5.7 | 5.0 | 4.4 |
| | 37 | 2.5 | 6.0 | 6.0 | 5.0 | 4.4 |
| | 43 | 6.0 | 6.5 | 6.3 | 5.0 | 4.4 |
| | 46 | 7.5 | 6.7 | 6.3 | 5.0 | 4.4 |
| | 50 | 10.0 | 7.0 | 6.3 | 5.0 | 4.4 |
| | 55 | 12.5 | 7.3 | 6.3 | 5.0 | 4.4 |
| 60 | 15.5 | 7.3 | 6.3 | 5.0 | 4.4 | |
| 63 (7.1) | -4 | -20.0 | 4.2 | 4.1 | 4.1 | 4.0 |
| | 5 | -15.0 | 5.0 | 4.8 | 4.8 | 4.6 |
| | 14 | -10.0 | 5.8 | 5.6 | 5.4 | 5.3 |
| | 23 | -5.0 | 6.6 | 6.4 | 6.2 | 5.6 |
| | 32 | 0.0 | 7.4 | 7.2 | 6.4 | 5.6 |
| | 37 | 2.5 | 7.7 | 7.6 | 6.4 | 5.6 |
| | 43 | 6.0 | 8.2 | 8.0 | 6.4 | 5.6 |
| | 46 | 7.5 | 8.5 | 8.0 | 6.4 | 5.6 |
| | 50 | 10.0 | 8.9 | 8.0 | 6.4 | 5.6 |
| | 55 | 12.5 | 9.3 | 8.0 | 6.4 | 5.6 |
| 60 | 15.5 | 9.3 | 8.0 | 6.4 | 5.6 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4a. Cooling capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. | | | | | | | | | | | | | |
|--------------------------|-------------|------|--------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|
| | | | 71°FDB / 59°FWB 21.5°CDB / 15°CWB | | 73°FDB / 61°FWB 23°CDB / 16°CWB | | 77°FDB / 64°FWB 25°CDB / 18°CWB | | 81°FDB / 66°FWB 27°CDB / 19°CWB | | 82°FDB / 68°FWB 28°CDB / 20°CWB | | 86°FDB / 72°FWB 30°CDB / 22°CWB | | 90°FDB / 75°FWB 32°CDB / 24°CWB | |
| | °F | °C | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 50 | 10.0 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.7 | 2.1 | 2.9 | 2.1 |
| | 68 | 20.0 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 86 | 30.0 | 1.9 | 1.8 | 2.0 | 1.9 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 |
| | 104 | 40.0 | 1.7 | 1.7 | 1.8 | 1.8 | 1.9 | 1.8 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 |
| | 113 | 45.0 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.9 | 1.8 | 1.9 | 1.9 | 2.0 | 1.9 | 2.2 | 1.8 |
| 25 (2.8) | 50 | 10.0 | 2.8 | 2.2 | 2.9 | 2.3 | 3.1 | 2.3 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.7 | 2.3 |
| | 68 | 20.0 | 2.6 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 86 | 30.0 | 2.5 | 2.0 | 2.5 | 2.1 | 2.7 | 2.1 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 |
| | 104 | 40.0 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 |
| | 113 | 45.0 | 2.1 | 1.9 | 2.1 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.4 | 2.1 | 2.6 | 2.0 | 2.7 | 2.0 |
| 32 (3.6) | 50 | 10.0 | 3.6 | 2.6 | 3.7 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 | 4.2 | 2.7 | 4.5 | 2.7 | 4.7 | 2.7 |
| | 68 | 20.0 | 3.4 | 2.5 | 3.5 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 | 4.5 | 2.6 |
| | 86 | 30.0 | 3.2 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.9 | 2.5 | 4.2 | 2.5 |
| | 104 | 40.0 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.3 | 3.4 | 2.4 | 3.6 | 2.4 | 3.8 | 2.3 |
| | 113 | 45.0 | 2.7 | 2.1 | 2.8 | 2.2 | 3.0 | 2.2 | 3.0 | 2.2 | 3.1 | 2.3 | 3.3 | 2.3 | 3.5 | 2.2 |
| 40 (4.5) | 50 | 10.0 | 4.5 | 3.2 | 4.6 | 3.3 | 4.9 | 3.3 | 5.1 | 3.3 | 5.2 | 3.4 | 5.6 | 3.4 | 5.9 | 3.3 |
| | 68 | 20.0 | 4.2 | 3.1 | 4.4 | 3.2 | 4.7 | 3.2 | 4.8 | 3.2 | 5.0 | 3.3 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 86 | 30.0 | 3.9 | 2.9 | 4.1 | 3.0 | 4.4 | 3.0 | 4.5 | 3.1 | 4.6 | 3.2 | 4.9 | 3.1 | 5.2 | 3.1 |
| | 104 | 40.0 | 3.6 | 2.8 | 3.7 | 2.9 | 3.9 | 2.8 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 3.0 | 4.7 | 2.9 |
| | 113 | 45.0 | 3.3 | 2.7 | 3.5 | 2.7 | 3.7 | 2.7 | 3.8 | 2.8 | 3.9 | 2.9 | 4.2 | 2.9 | 4.4 | 2.8 |
| 50 (5.6) | 50 | 10.0 | 5.5 | 4.0 | 5.7 | 4.2 | 6.1 | 4.1 | 6.3 | 4.2 | 6.5 | 4.4 | 6.9 | 4.3 | 7.3 | 4.2 |
| | 68 | 20.0 | 5.3 | 3.9 | 5.4 | 4.0 | 5.8 | 4.0 | 6.0 | 4.1 | 6.2 | 4.2 | 6.6 | 4.2 | 6.9 | 4.1 |
| | 86 | 30.0 | 4.9 | 3.7 | 5.1 | 3.8 | 5.4 | 3.8 | 5.6 | 3.9 | 5.8 | 4.0 | 6.1 | 4.0 | 6.5 | 3.9 |
| | 104 | 40.0 | 4.4 | 3.5 | 4.6 | 3.6 | 4.9 | 3.6 | 5.1 | 3.7 | 5.2 | 3.8 | 5.5 | 3.8 | 5.9 | 3.7 |
| | 113 | 45.0 | 4.2 | 3.4 | 4.3 | 3.5 | 4.6 | 3.5 | 4.7 | 3.5 | 4.9 | 3.7 | 5.2 | 3.6 | 5.5 | 3.6 |
| 63 (7.1) | 50 | 10.0 | 7.0 | 5.0 | 7.3 | 5.2 | 7.8 | 5.1 | 8.0 | 5.2 | 8.3 | 5.4 | 8.8 | 5.3 | 9.3 | 5.2 |
| | 68 | 20.0 | 6.7 | 4.8 | 6.9 | 5.0 | 7.4 | 4.9 | 7.6 | 5.0 | 7.8 | 5.2 | 8.3 | 5.1 | 8.8 | 5.0 |
| | 86 | 30.0 | 6.2 | 4.6 | 6.4 | 4.7 | 6.9 | 4.7 | 7.1 | 4.8 | 7.3 | 5.0 | 7.8 | 4.9 | 8.2 | 4.8 |
| | 104 | 40.0 | 5.6 | 4.3 | 5.8 | 4.5 | 6.2 | 4.4 | 6.4 | 4.5 | 6.6 | 4.7 | 7.0 | 4.6 | 7.4 | 4.5 |
| | 113 | 45.0 | 5.3 | 4.1 | 5.4 | 4.3 | 5.8 | 4.3 | 6.0 | 4.3 | 6.2 | 4.5 | 6.6 | 4.4 | 6.9 | 4.4 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-4b. Heating capacity in combination with PQHY,PQRY-P200,250YGM, PQHY,PQRY-P400,500YSGM

PFFY-P-VLEM-E,VLRM-E

SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Water temp. | | Indoor air temp. : °CDB | | | | |
|--------------------------|-------------|----|-------------------------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 66 °FDB 19.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °F | °C | SHC | SHC | SHC | SHC | SHC |
| 20 (2.2) | 50 | 10 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 |
| | 68 | 20 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 86 | 30 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 104 | 40 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| | 113 | 45 | 2.5 | 2.5 | 2.5 | 2.1 | 1.9 |
| 25 (2.8) | 50 | 10 | 2.5 | 2.5 | 2.5 | 2.1 | 2.0 |
| | 68 | 20 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 86 | 30 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 104 | 40 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| | 113 | 45 | 3.2 | 3.2 | 3.2 | 2.7 | 2.5 |
| 32 (3.6) | 50 | 10 | 3.2 | 3.2 | 3.2 | 2.7 | 2.4 |
| | 68 | 20 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 86 | 30 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 104 | 40 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 113 | 45 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| 40 (4.5) | 50 | 10 | 4.0 | 4.0 | 4.0 | 3.4 | 3.1 |
| | 68 | 20 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 86 | 30 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 104 | 40 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 113 | 45 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| 50 (5.6) | 50 | 10 | 5.0 | 5.0 | 5.0 | 4.2 | 3.9 |
| | 68 | 20 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 86 | 30 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 104 | 40 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| | 113 | 45 | 6.3 | 6.3 | 6.3 | 5.3 | 4.9 |
| 63 (7.1) | 50 | 10 | 6.3 | 6.3 | 6.3 | 5.4 | 4.9 |
| | 68 | 20 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 86 | 30 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 104 | 40 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |
| | 113 | 45 | 8.0 | 8.0 | 8.0 | 6.8 | 6.2 |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

2-5a. Cooling capacity in combination with PUMY-P100,125,140YHM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | | | | | | | | | | | | |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----|
| | | | 71°FDB / 59°FWB | | 73°FDB / 61°FWB | | 77°FDB / 64°FWB | | 81°FDB / 66°FWB | | 82°FDB / 68°FWB | | 86°FDB / 72°FWB | | 90°FDB / 75°FWB | | |
| | °FDB | °CDB | 21.5°CDB / 15°CWB | | 23°CDB / 16°CWB | | 25°CDB / 18°CWB | | 27°CDB / 19°CWB | | 28°CDB / 20°CWB | | 30°CDB / 22°CWB | | 32°CDB / 24°CWB | | |
| | | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC | CA | SHC |
| 20 (2.2) | 68 | 20.0 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 2.1 | 2.4 | 2.1 | 2.6 | 2.1 | 2.7 | 2.1 | |
| | 73 | 22.5 | 2.1 | 1.8 | 2.1 | 1.9 | 2.3 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.7 | 2.1 | |
| | 77 | 25.0 | 2.0 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.4 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 | |
| | 82 | 27.5 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 2.0 | 2.3 | 2.0 | 2.5 | 2.0 | 2.6 | 2.0 | |
| | 86 | 30.0 | 2.0 | 1.8 | 2.0 | 1.8 | 2.2 | 1.9 | 2.2 | 2.0 | 2.3 | 2.0 | 2.4 | 2.0 | 2.6 | 2.0 | |
| | 91 | 32.5 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 2.0 | 2.6 | 2.0 | |
| | 95 | 35.0 | 1.9 | 1.7 | 2.0 | 1.8 | 2.1 | 1.8 | 2.2 | 1.9 | 2.2 | 1.9 | 2.4 | 1.9 | 2.5 | 2.0 | |
| | 100 | 37.5 | 1.9 | 1.7 | 1.9 | 1.7 | 2.1 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.4 | 1.9 | 2.5 | 1.9 | |
| | 104 | 40.0 | 1.8 | 1.6 | 1.9 | 1.7 | 2.0 | 1.7 | 2.1 | 1.8 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | |
| 110 | 43.0 | 1.8 | 1.6 | 1.8 | 1.6 | 2.0 | 1.7 | 2.1 | 1.8 | 2.1 | 1.8 | 2.3 | 1.9 | 2.4 | 1.9 | | |
| 25 (2.8) | 68 | 20.0 | 2.7 | 2.1 | 2.7 | 2.2 | 2.9 | 2.2 | 3.0 | 2.3 | 3.1 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | |
| | 73 | 22.5 | 2.6 | 2.1 | 2.7 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.4 | 2.3 | |
| | 77 | 25.0 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.2 | |
| | 82 | 27.5 | 2.6 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 | |
| | 86 | 30.0 | 2.5 | 2.0 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.2 | |
| | 91 | 32.5 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.2 | 2.2 | |
| | 95 | 35.0 | 2.4 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.2 | 3.2 | 2.1 | |
| | 100 | 37.5 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | |
| | 104 | 40.0 | 2.3 | 1.8 | 2.4 | 1.9 | 2.6 | 1.9 | 2.7 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | |
| 110 | 43.0 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 | 2.9 | 2.1 | 3.1 | 2.1 | | |
| 32 (3.6) | 68 | 20.0 | 3.4 | 2.4 | 3.5 | 2.5 | 3.7 | 2.5 | 3.9 | 2.6 | 4.0 | 2.6 | 4.2 | 2.6 | 4.4 | 2.5 | |
| | 73 | 22.5 | 3.4 | 2.4 | 3.5 | 2.4 | 3.7 | 2.4 | 3.8 | 2.6 | 3.9 | 2.6 | 4.1 | 2.6 | 4.3 | 2.5 | |
| | 77 | 25.0 | 3.3 | 2.3 | 3.4 | 2.4 | 3.7 | 2.4 | 3.8 | 2.6 | 3.9 | 2.5 | 4.1 | 2.5 | 4.3 | 2.5 | |
| | 82 | 27.5 | 3.3 | 2.3 | 3.4 | 2.4 | 3.6 | 2.4 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.5 | 4.3 | 2.5 | |
| | 86 | 30.0 | 3.2 | 2.3 | 3.3 | 2.3 | 3.6 | 2.3 | 3.7 | 2.5 | 3.8 | 2.5 | 4.0 | 2.5 | 4.2 | 2.4 | |
| | 91 | 32.5 | 3.2 | 2.2 | 3.3 | 2.3 | 3.5 | 2.3 | 3.6 | 2.5 | 3.7 | 2.5 | 4.0 | 2.4 | 4.2 | 2.4 | |
| | 95 | 35.0 | 3.1 | 2.2 | 3.2 | 2.2 | 3.5 | 2.3 | 3.6 | 2.4 | 3.7 | 2.4 | 3.9 | 2.4 | 4.1 | 2.4 | |
| | 100 | 37.5 | 3.0 | 2.1 | 3.2 | 2.2 | 3.4 | 2.2 | 3.5 | 2.4 | 3.6 | 2.4 | 3.9 | 2.4 | 4.1 | 2.4 | |
| | 104 | 40.0 | 3.0 | 2.1 | 3.1 | 2.2 | 3.3 | 2.2 | 3.5 | 2.3 | 3.6 | 2.4 | 3.8 | 2.4 | 4.1 | 2.3 | |
| 110 | 43.0 | 2.9 | 2.0 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 2.3 | 3.5 | 2.3 | 3.7 | 2.3 | 4.0 | 2.3 | | |
| 40 (4.5) | 68 | 20.0 | 4.3 | 3.0 | 4.4 | 3.1 | 4.7 | 3.1 | 4.8 | 3.3 | 5.0 | 3.3 | 5.2 | 3.2 | 5.5 | 3.2 | |
| | 73 | 22.5 | 4.2 | 3.0 | 4.4 | 3.1 | 4.6 | 3.1 | 4.8 | 3.2 | 4.9 | 3.2 | 5.2 | 3.2 | 5.4 | 3.2 | |
| | 77 | 25.0 | 4.2 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 | 4.7 | 3.2 | 4.8 | 3.2 | 5.1 | 3.2 | 5.4 | 3.1 | |
| | 82 | 27.5 | 4.1 | 2.9 | 4.2 | 3.0 | 4.5 | 3.0 | 4.6 | 3.2 | 4.8 | 3.2 | 5.1 | 3.1 | 5.3 | 3.1 | |
| | 86 | 30.0 | 4.1 | 2.8 | 4.2 | 2.9 | 4.5 | 2.9 | 4.6 | 3.1 | 4.7 | 3.1 | 5.0 | 3.1 | 5.3 | 3.1 | |
| | 91 | 32.5 | 4.0 | 2.8 | 4.1 | 2.9 | 4.4 | 2.9 | 4.5 | 3.1 | 4.7 | 3.1 | 4.9 | 3.1 | 5.2 | 3.0 | |
| | 95 | 35.0 | 3.9 | 2.7 | 4.0 | 2.8 | 4.3 | 2.9 | 4.5 | 3.0 | 4.6 | 3.0 | 4.9 | 3.0 | 5.2 | 3.0 | |
| | 100 | 37.5 | 3.8 | 2.7 | 3.9 | 2.8 | 4.2 | 2.8 | 4.4 | 3.0 | 4.5 | 3.0 | 4.8 | 3.0 | 5.1 | 3.0 | |
| | 104 | 40.0 | 3.7 | 2.6 | 3.9 | 2.7 | 4.2 | 2.8 | 4.3 | 2.9 | 4.5 | 3.0 | 4.8 | 3.0 | 5.1 | 3.0 | |
| 110 | 43.0 | 3.6 | 2.5 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.9 | 4.4 | 2.9 | 4.7 | 2.9 | 5.0 | 2.9 | | |
| 50 (5.6) | 68 | 20.0 | 5.3 | 3.8 | 5.5 | 3.9 | 5.8 | 3.9 | 6.0 | 4.2 | 6.2 | 4.2 | 6.5 | 4.1 | 6.8 | 4.1 | |
| | 73 | 22.5 | 5.3 | 3.7 | 5.4 | 3.9 | 5.8 | 3.9 | 5.9 | 4.1 | 6.1 | 4.1 | 6.4 | 4.1 | 6.8 | 4.0 | |
| | 77 | 25.0 | 5.2 | 3.7 | 5.3 | 3.8 | 5.7 | 3.8 | 5.9 | 4.1 | 6.0 | 4.1 | 6.4 | 4.0 | 6.7 | 4.0 | |
| | 82 | 27.5 | 5.1 | 3.6 | 5.3 | 3.8 | 5.6 | 3.8 | 5.8 | 4.0 | 6.0 | 4.0 | 6.3 | 4.0 | 6.6 | 3.9 | |
| | 86 | 30.0 | 5.0 | 3.6 | 5.2 | 3.7 | 5.5 | 3.7 | 5.7 | 4.0 | 5.9 | 4.0 | 6.2 | 3.9 | 6.6 | 3.9 | |
| | 91 | 32.5 | 4.9 | 3.5 | 5.1 | 3.6 | 5.5 | 3.7 | 5.6 | 3.9 | 5.8 | 3.9 | 6.1 | 3.9 | 6.5 | 3.9 | |
| | 95 | 35.0 | 4.8 | 3.5 | 5.0 | 3.6 | 5.4 | 3.6 | 5.5 | 3.8 | 5.7 | 3.9 | 6.1 | 3.9 | 6.4 | 3.8 | |
| | 100 | 37.5 | 4.7 | 3.4 | 4.9 | 3.5 | 5.3 | 3.6 | 5.5 | 3.8 | 5.6 | 3.8 | 6.0 | 3.8 | 6.4 | 3.8 | |
| | 104 | 40.0 | 4.6 | 3.3 | 4.8 | 3.4 | 5.2 | 3.5 | 5.4 | 3.7 | 5.6 | 3.7 | 5.9 | 3.8 | 6.3 | 3.7 | |
| 110 | 43.0 | 4.5 | 3.2 | 4.7 | 3.4 | 5.1 | 3.4 | 5.3 | 3.7 | 5.5 | 3.7 | 5.8 | 3.7 | 6.2 | 3.7 | | |
| 63 (7.1) | 68 | 20.0 | 6.7 | 4.7 | 7.0 | 4.8 | 7.4 | 4.8 | 7.6 | 5.1 | 7.8 | 5.1 | 8.2 | 5.1 | 8.7 | 5.0 | |
| | 73 | 22.5 | 6.7 | 4.6 | 6.9 | 4.8 | 7.3 | 4.8 | 7.5 | 5.1 | 7.7 | 5.0 | 8.1 | 5.0 | 8.6 | 4.9 | |
| | 77 | 25.0 | 6.6 | 4.6 | 6.8 | 4.7 | 7.2 | 4.7 | 7.4 | 5.0 | 7.6 | 5.0 | 8.1 | 4.9 | 8.5 | 4.9 | |
| | 82 | 27.5 | 6.5 | 4.5 | 6.7 | 4.6 | 7.1 | 4.7 | 7.3 | 4.9 | 7.5 | 4.9 | 8.0 | 4.9 | 8.4 | 4.8 | |
| | 86 | 30.0 | 6.4 | 4.4 | 6.6 | 4.6 | 7.0 | 4.6 | 7.2 | 4.9 | 7.5 | 4.9 | 7.9 | 4.8 | 8.3 | 4.8 | |
| | 91 | 32.5 | 6.3 | 4.3 | 6.5 | 4.5 | 6.9 | 4.5 | 7.1 | 4.8 | 7.4 | 4.8 | 7.8 | 4.8 | 8.2 | 4.7 | |
| | 95 | 35.0 | 6.1 | 4.3 | 6.4 | 4.4 | 6.8 | 4.4 | 7.0 | 4.7 | 7.3 | 4.7 | 7.7 | 4.7 | 8.2 | 4.7 | |
| | 100 | 37.5 | 6.0 | 4.2 | 6.2 | 4.3 | 6.7 | 4.4 | 6.9 | 4.7 | 7.2 | 4.7 | 7.6 | 4.7 | 8.1 | 4.6 | |
| | 104 | 40.0 | 5.9 | 4.1 | 6.1 | 4.2 | 6.6 | 4.3 | 6.8 | 4.6 | 7.1 | 4.6 | 7.5 | 4.6 | 8.0 | 4.6 | |
| 110 | 43.0 | 5.7 | 4.0 | 6.0 | 4.1 | 6.4 | 4.2 | 6.7 | 4.5 | 6.9 | 4.5 | 7.4 | 4.5 | 7.9 | 4.5 | | |

kcal/h = kW x 860, Btu/h = kW x 3,412

2. CAPACITY TABLES

R410A Data G2

2-5b. Heating capacity in combination with PUMY-P100,125,140YHM

PFFY-P-VLEM-E, VLRM-E SHC : Sensible Heat Capacity(kW)

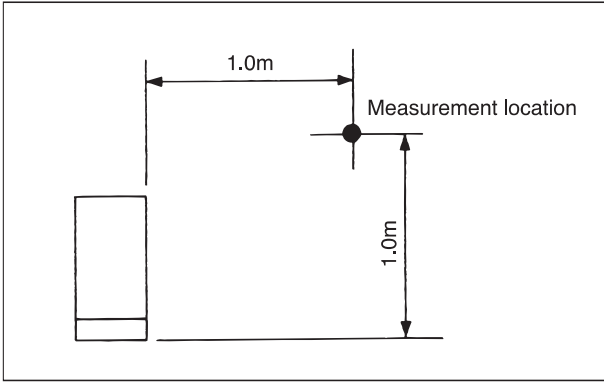
| Model size (Rated kW) | Outdoor air temp. | | Indoor air temp. | | | |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
| | | | 59 °FDB 15.0°CDB | 68 °FDB 20.0°CDB | 77 °FDB 25.0°CDB | 81 °FDB 27.0°CDB |
| | °FWB | °CWB | SHC | SHC | SHC | SHC |
| 20 (2.2) | -4 | -20.0 | 1.6 | 1.6 | 1.5 | 1.5 |
| | 5 | -15.0 | 1.8 | 1.7 | 1.6 | 1.6 |
| | 14 | -10.0 | 1.9 | 1.8 | 1.8 | 1.8 |
| | 23 | -5.0 | 2.1 | 2.1 | 2.0 | 2.0 |
| | 32 | 0.0 | 2.4 | 2.3 | 2.2 | 2.2 |
| | 37 | 2.5 | 2.5 | 2.4 | 2.3 | 2.3 |
| | 43 | 6.0 | 2.6 | 2.5 | 2.5 | 2.4 |
| | 46 | 7.5 | 2.7 | 2.7 | 2.5 | 2.4 |
| | 50 | 10.0 | 2.8 | 2.8 | 2.5 | 2.4 |
| | 55 | 12.5 | 3.0 | 2.9 | 2.5 | 2.4 |
| 60 | 15.5 | 3.0 | 2.9 | 2.5 | 2.4 | |
| 25 (2.8) | -4 | -20.0 | 2.1 | 2.0 | 1.9 | 1.9 |
| | 5 | -15.0 | 2.2 | 2.1 | 2.1 | 2.0 |
| | 14 | -10.0 | 2.4 | 2.3 | 2.3 | 2.2 |
| | 23 | -5.0 | 2.7 | 2.7 | 2.5 | 2.5 |
| | 32 | 0.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 37 | 2.5 | 3.2 | 3.1 | 3.0 | 2.9 |
| | 43 | 6.0 | 3.3 | 3.2 | 3.2 | 3.1 |
| | 46 | 7.5 | 3.5 | 3.4 | 3.2 | 3.1 |
| | 50 | 10.0 | 3.6 | 3.5 | 3.2 | 3.1 |
| | 55 | 12.5 | 3.8 | 3.7 | 3.2 | 3.1 |
| 60 | 15.5 | 3.9 | 3.7 | 3.2 | 3.1 | |
| 32 (3.6) | -4 | -20.0 | 2.6 | 2.5 | 2.4 | 2.4 |
| | 5 | -15.0 | 2.8 | 2.7 | 2.6 | 2.6 |
| | 14 | -10.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| | 23 | -5.0 | 3.4 | 3.3 | 3.2 | 3.1 |
| | 32 | 0.0 | 3.8 | 3.7 | 3.5 | 3.5 |
| | 37 | 2.5 | 4.0 | 3.8 | 3.7 | 3.7 |
| | 43 | 6.0 | 4.1 | 4.0 | 4.0 | 3.9 |
| | 46 | 7.5 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 50 | 10.0 | 4.5 | 4.4 | 4.0 | 3.9 |
| | 55 | 12.5 | 4.7 | 4.6 | 4.0 | 3.9 |
| 60 | 15.5 | 4.8 | 4.6 | 4.0 | 3.9 | |
| 40 (4.5) | -4 | -20.0 | 3.3 | 3.2 | 3.0 | 3.0 |
| | 5 | -15.0 | 3.5 | 3.4 | 3.3 | 3.2 |
| | 14 | -10.0 | 3.8 | 3.7 | 3.6 | 3.5 |
| | 23 | -5.0 | 4.3 | 4.2 | 4.0 | 3.9 |
| | 32 | 0.0 | 4.7 | 4.6 | 4.4 | 4.4 |
| | 37 | 2.5 | 5.0 | 4.8 | 4.7 | 4.6 |
| | 43 | 6.0 | 5.1 | 5.0 | 5.0 | 4.9 |
| | 46 | 7.5 | 5.4 | 5.3 | 5.0 | 4.9 |
| | 50 | 10.0 | 5.7 | 5.5 | 5.0 | 4.9 |
| | 55 | 12.5 | 5.9 | 5.8 | 5.0 | 4.9 |
| 60 | 15.5 | 6.1 | 5.8 | 5.0 | 4.9 | |
| 50 (5.6) | -4 | -20.0 | 4.1 | 4.0 | 3.8 | 3.7 |
| | 5 | -15.0 | 4.4 | 4.2 | 4.1 | 4.0 |
| | 14 | -10.0 | 4.7 | 4.6 | 4.5 | 4.4 |
| | 23 | -5.0 | 5.4 | 5.2 | 5.0 | 4.9 |
| | 32 | 0.0 | 5.9 | 5.8 | 5.5 | 5.5 |
| | 37 | 2.5 | 6.2 | 6.0 | 5.9 | 5.8 |
| | 43 | 6.0 | 6.4 | 6.3 | 6.2 | 6.1 |
| | 46 | 7.5 | 6.8 | 6.7 | 6.2 | 6.1 |
| | 50 | 10.0 | 7.1 | 6.9 | 6.2 | 6.1 |
| | 55 | 12.5 | 7.4 | 7.2 | 6.2 | 6.1 |
| 60 | 15.5 | 7.6 | 7.2 | 6.2 | 6.1 | |
| 63 (7.1) | -4 | -20.0 | 5.2 | 5.0 | 4.8 | 4.7 |
| | 5 | -15.0 | 5.6 | 5.4 | 5.2 | 5.1 |
| | 14 | -10.0 | 6.0 | 5.8 | 5.7 | 5.6 |
| | 23 | -5.0 | 6.8 | 6.6 | 6.3 | 6.2 |
| | 32 | 0.0 | 7.5 | 7.4 | 7.0 | 7.0 |
| | 37 | 2.5 | 7.9 | 7.7 | 7.4 | 7.4 |
| | 43 | 6.0 | 8.2 | 8.0 | 7.9 | 7.8 |
| | 46 | 7.5 | 8.6 | 8.5 | 7.9 | 7.8 |
| | 50 | 10.0 | 9.0 | 8.8 | 7.9 | 7.8 |
| | 55 | 12.5 | 9.4 | 9.2 | 7.9 | 7.8 |
| 60 | 15.5 | 9.7 | 9.2 | 7.9 | 7.8 | |

kcal/h = kW x 860, Btu/h = kW x 3,412

3. SOUND LEVELS

3-1. Sound levels

PFFY-P-VLEM-E, VLRM-E

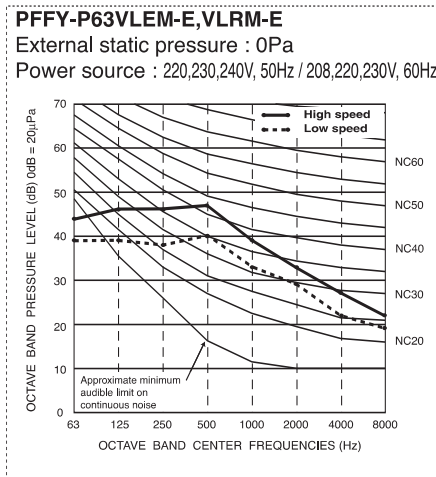
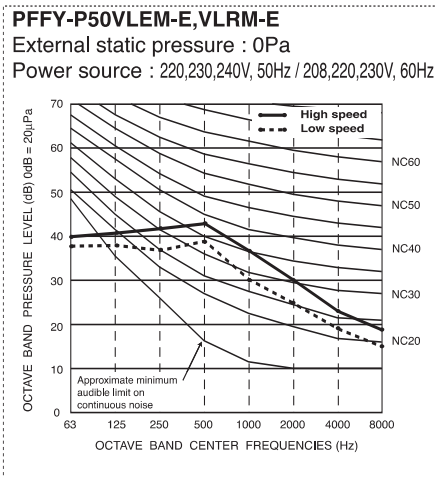
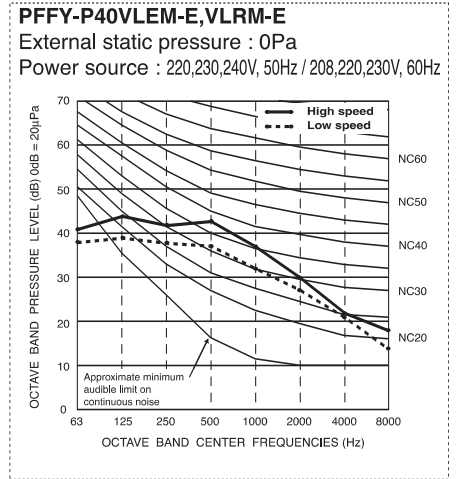
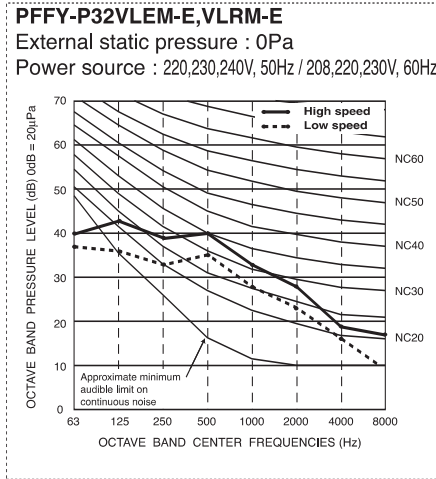
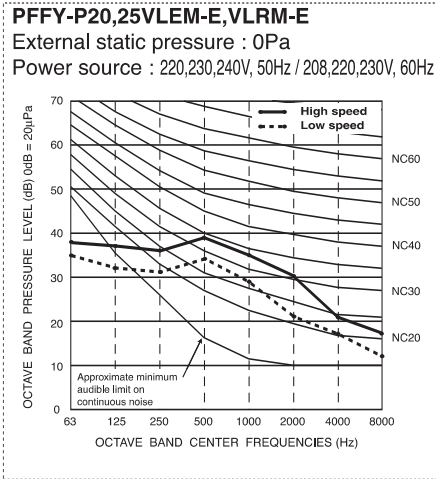


* Measured in anechoic room.

Sound level at anechoic room : Low-High

| | Sound level dB (A) |
|----------------|--------------------|
| PFFY-P20VLEM-E | 34-40 |
| PFFY-P20VLRM-E | |
| PFFY-P25VLEM-E | |
| PFFY-P25VLRM-E | 35-40 |
| PFFY-P32VLEM-E | |
| PFFY-P32VLRM-E | |
| PFFY-P40VLEM-E | 38-43 |
| PFFY-P40VLRM-E | |
| PFFY-P50VLEM-E | |
| PFFY-P50VLRM-E | |
| PFFY-P63VLEM-E | 40-46 |
| PFFY-P63VLRM-E | |

3-2. NC curves

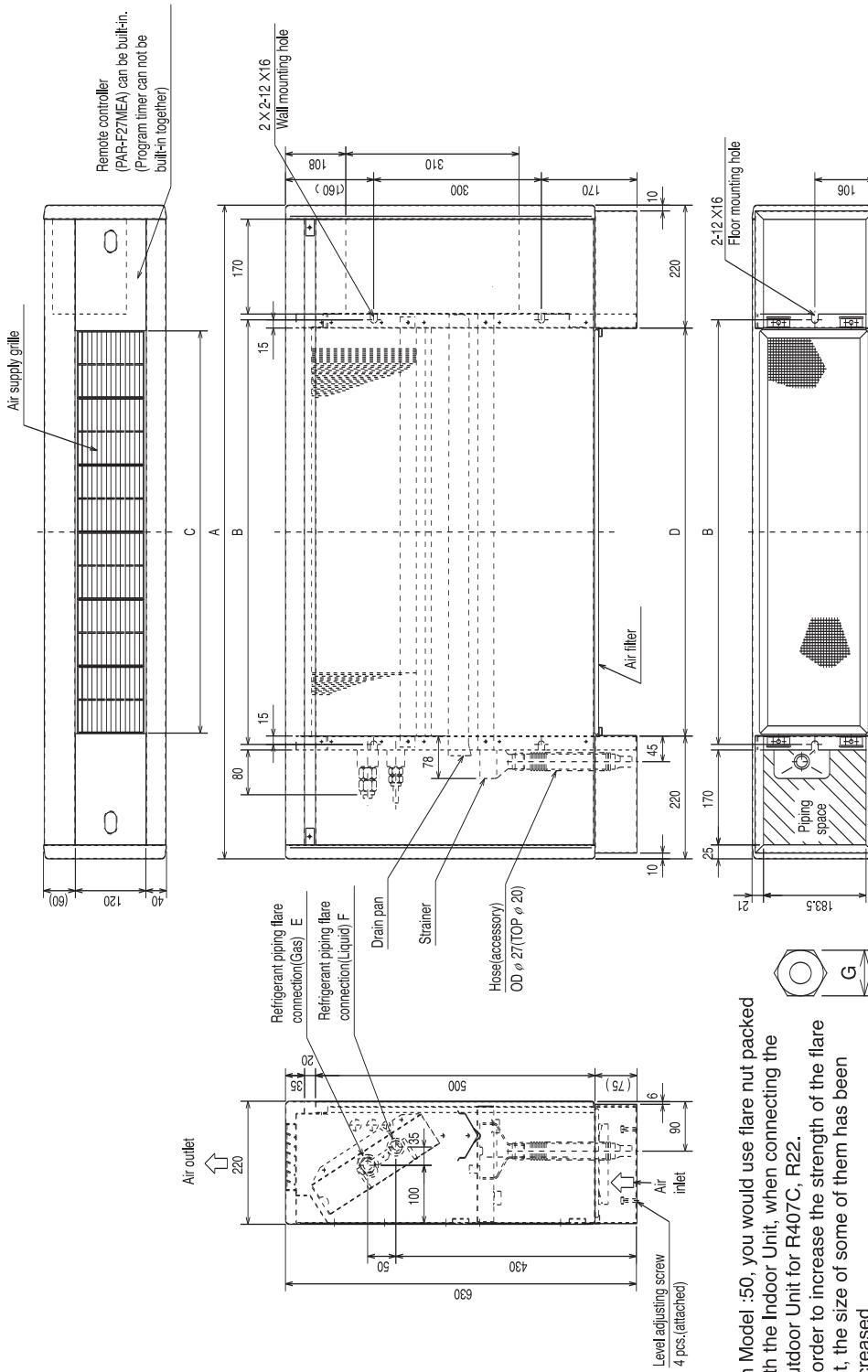


4. EXTERNAL DIMENSIONS

R410A Data G2

PFFY-P20,25,32,40,50,63VLEM-E

Drw. : IU-W65-3950
Unit : mm



Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

Dimensions

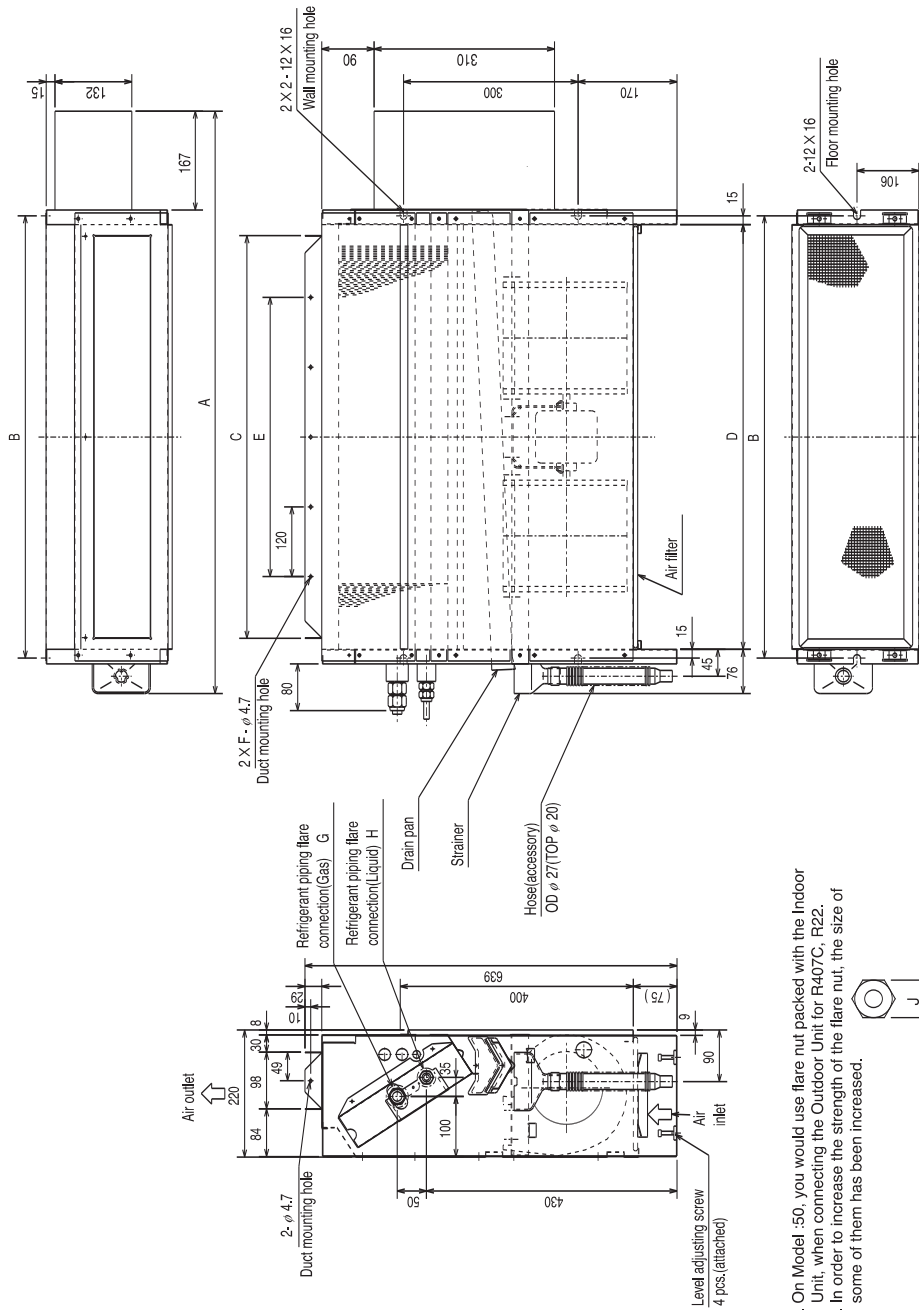
| Model | A | B | C | D | E(Gas) | F(Liquid) | G(Liquid) | G(Gas) |
|----------------|------|------|-----|-----|-----------|-----------|-----------|--------|
| PFFY-P20VLEM-E | 1050 | 640 | 600 | 610 | φ12.7 | φ6.35 | 17 | 27 |
| PFFY-P25VLEM-E | 1050 | 640 | 600 | 610 | φ12.7 | φ6.35 | 17 | 27 |
| PFFY-P32VLEM-E | 1170 | 760 | 720 | 730 | φ12.7 | φ6.35 | 17 | 27 |
| PFFY-P40VLEM-E | 1170 | 760 | 720 | 730 | φ12.7 | φ6.35 | 17 | 27 |
| PFFY-P50VLEM-E | 1410 | 1000 | 960 | 970 | *1 φ12.7 | *1 φ6.35 | *1 22 | *1 29 |
| PFFY-P63VLEM-E | 1410 | 1000 | 960 | 970 | *2 φ15.88 | *2 φ9.52 | *2 22 | *2 29 |
| | | | | | φ15.88 | φ9.52 | 22 | 29 |

*1:R410A outdoor unit
*2:R407C,R22 outdoor unit

4. EXTERNAL DIMENSIONS

PFFY-P20,25,32,40,50,63VLRM-E

Drw. : IU-W65-3951
Unit : mm



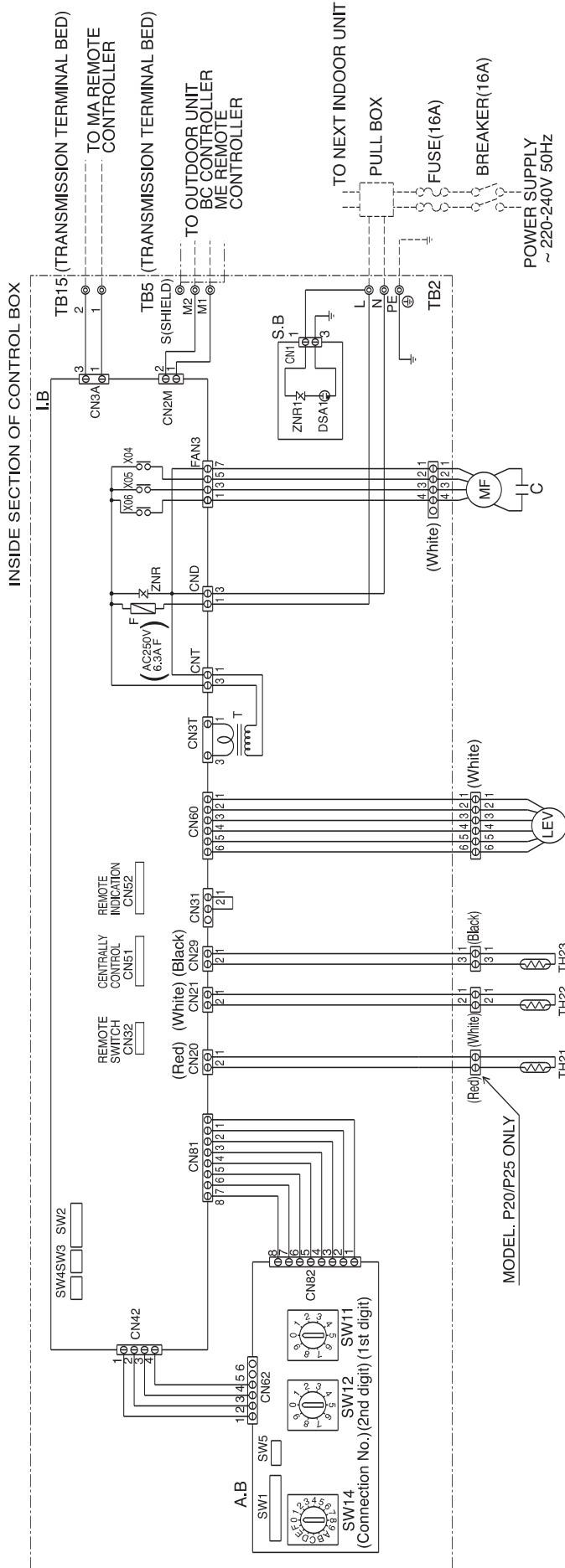
Note: 1. On Model :50, you would use flare nut packed with the Indoor Unit, when connecting the Outdoor Unit for R407C, R22.
2. In order to increase the strength of the flare nut, the size of some of them has been increased.

*1:R410A outdoor unit
*2:R407C, R22 outdoor unit

| Model | A | B | C | D | E | F | G (Gas) | H (Liquid) | J (Liquid) | J (Gas) |
|----------------|------|------|-----|-----|-----|---|---------|------------|------------|---------|
| PFFY-P20VLRM-E | 886 | 640 | 572 | 610 | 360 | 4 | ø12.7 | ø6.35 | 17 | 27 |
| PFFY-P25VLRM-E | 886 | 640 | 572 | 610 | 360 | 4 | ø12.7 | ø6.35 | 17 | 27 |
| PFFY-P32VLRM-E | 1006 | 760 | 692 | 730 | 480 | 5 | ø12.7 | ø6.35 | 17 | 27 |
| PFFY-P40VLRM-E | 1006 | 760 | 692 | 730 | 480 | 5 | ø12.7 | ø6.35 | 17 | 27 |
| PFFY-P50VLRM-E | 1246 | 1000 | 932 | 970 | 720 | 7 | ø12.7 | *1 ø6.35 | *1 22 | *1 29 |
| PFFY-P63VLRM-E | 1246 | 1000 | 932 | 970 | 720 | 7 | ø15.88 | *2 ø9.52 | *2 22 | *2 29 |
| | | | | | | | ø15.88 | ø9.52 | 22 | 29 |

PFFY-P20,25,32,40,50,63VLEM-E, VLRM-E

Drw. : IU-W65-3960

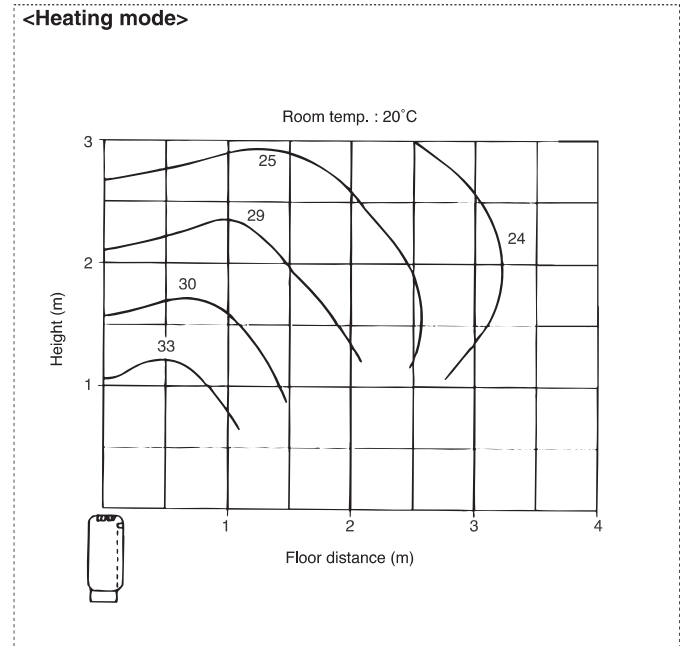
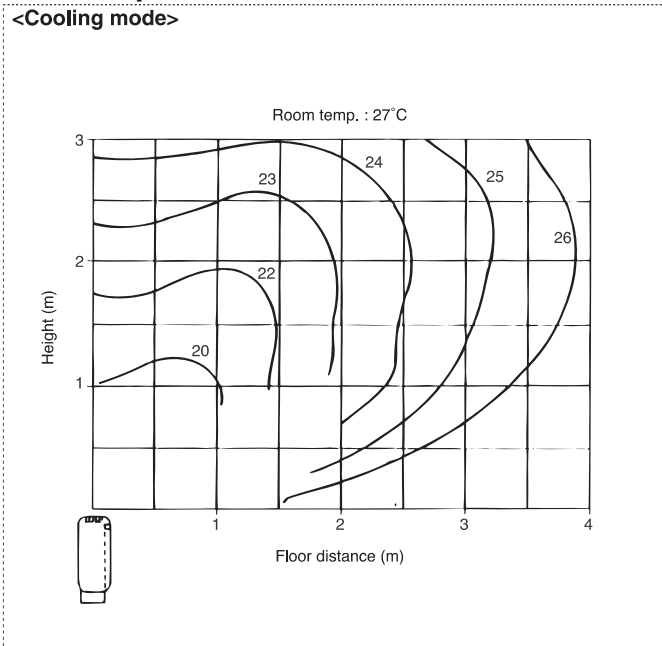


*Capacitor
MODELS 20/25/32/40 1.5F
50 2.0F
63 2.5F

SYMBOL EXPLANATION

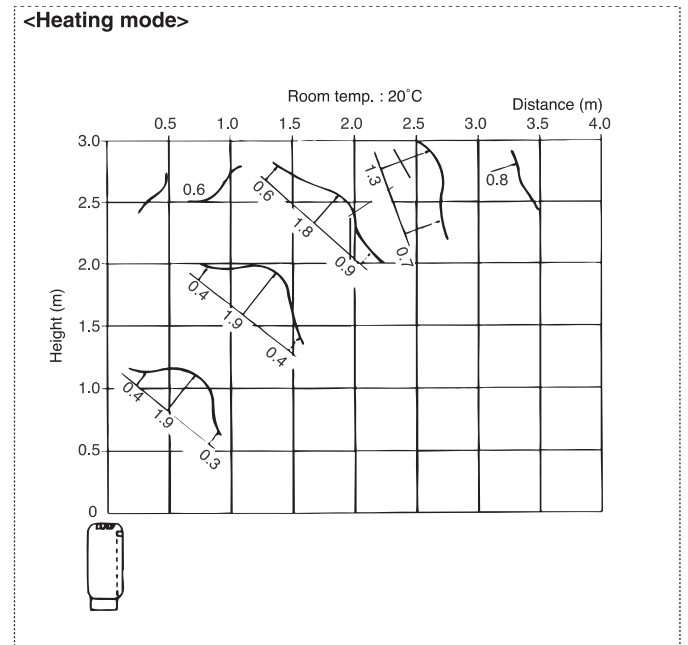
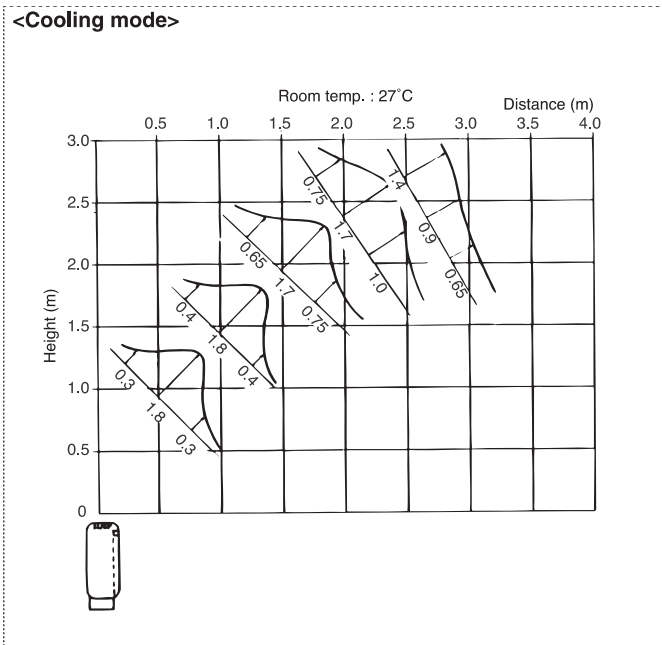
| SYMBOL | NAME | SYMBOL | NAME |
|--------|-----------------------------------|-------------|---|
| MF | Fan motor | TH22 | Thermistor (piping temp.detection/liquid) |
| C | *Capacitor (for MF) | TH23 | Thermistor (piping temp.detection/gas) |
| I. B | Indoor controller board | SW11 (A. B) | Switch (1st digit address set) |
| A. B | Address board | SW12 (A. B) | Switch (2nd digit address set) |
| TB2 | Power source terminal bed | SW14 (A. B) | Switch (connection No.set) |
| TB5 | Transmission terminal bed | SW1 (A. B) | Switch(for mode selection) |
| TB15 | Transmission terminal bed | SW2 (I. B) | Switch(for capacity code) |
| F | Fuse AC250V 6.3A F | SW3 (I. B) | Switch(for mode selection) |
| T | Transformer | SW4 (I. B) | Switch(for model selection) |
| LEV | Electronic linear expans. valve | SW5 (A. B) | Switch(for voltage selection) |
| S. B | Surge absorber board | X04~06 | Aux.relay |
| TH21 | Thermistor (inlet temp.detection) | | |

6-1. Temperature distributions



Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

6-2. Airflow distributions



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J**
- V_a
- V_b
- BC

CITY MULTI™

LOSSNAY

LGH-RX4-E

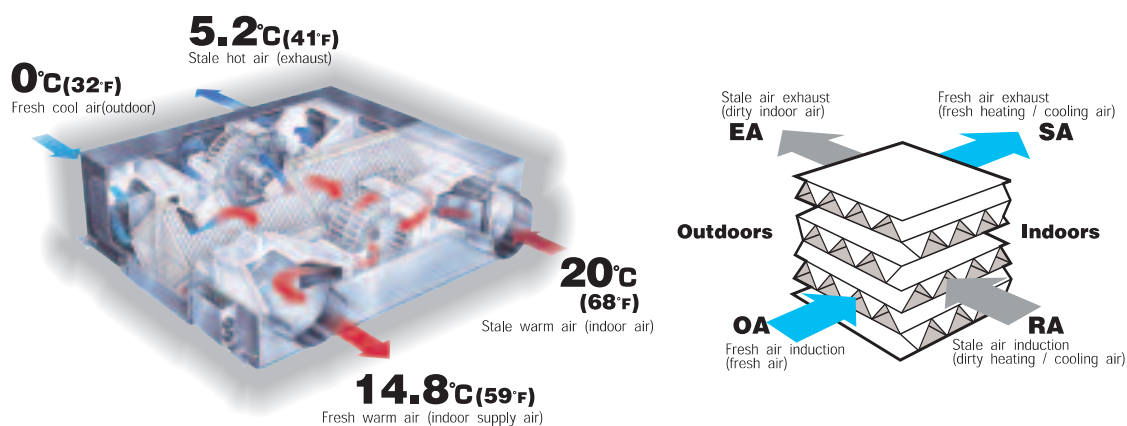
LGH-RX4-E

1. DIMENSIONS
2. PERFORMANCES
3. SPECIFICATIONS
4. SAMPLE INSTALLATIONS
5. ELECTRICAL INSTALLATIONS
6. WIRING DIAGRAMS

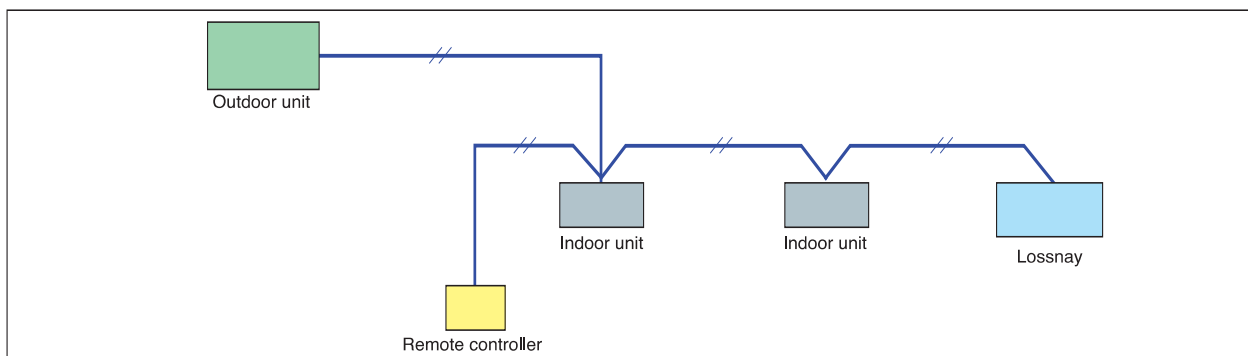
V-A
V-A-2
V-A-3
V-A-4
V-A-7
V-A-8
V-A-9

LOSSNAY is a perfect combination of heat recovery and ventilation, which is a leading edge product in the ventilation and air-conditioning field.

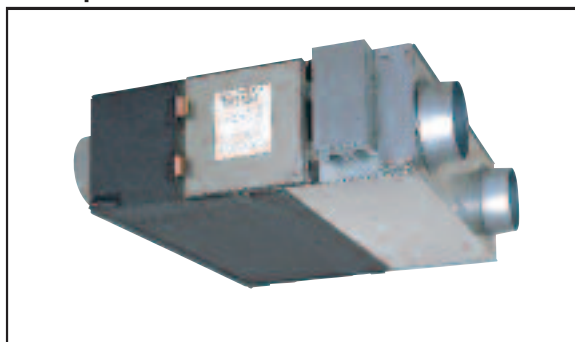
The LOSSNAY core is a special preserved paper made cross-flow and plate-fin structure, which is referable below.



CITY MULTI™ can combine LOSSNAY into the air conditioning system, performing the best solution to ventilation and air-conditioning.

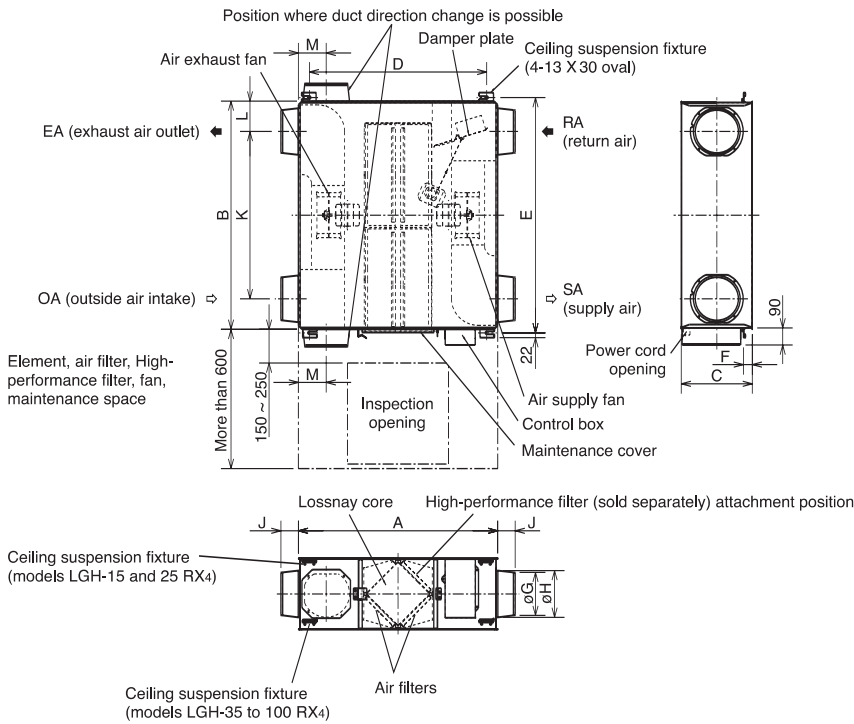


Line up of LOSSNAY units



| | | |
|--------------|-----------------------|---------------------------|
| LGH-15RX4-E | 150m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-25RX4-E | 250m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-35RX4-E | 350m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-50RX4-E | 500m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-65RX4-E | 650m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-80RX4-E | 800m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-100RX4-E | 1000m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-150RX4-E | 1500m ³ /h | 1-phase 220-240V, 50/60Hz |
| LGH-200RX4-E | 2000m ³ /h | 1-phase 220-240V, 50/60Hz |

LGH-15,25,35,50,65,80,100RX4-E



Accessory parts

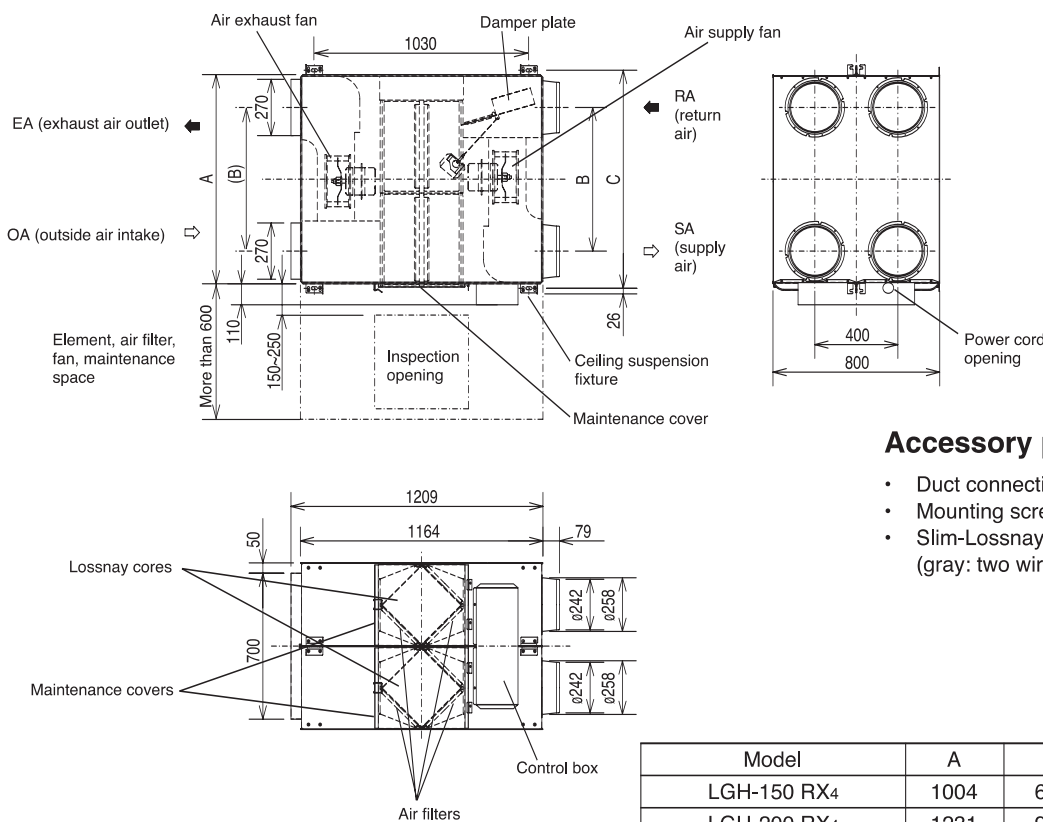
- Mounting screws x18
- Duct connecting flanges x4 (double flanges at SA and EA sides)
- Protective cover x1 <For installing upside down>
- Slim-Lossnay connection cable (gray: two wires) x1

Unit (mm)

| Model | Dimensions | | | Ceiling suspension fixture pitch | | | Nominal diameter | Duct connecting flange | | | Duct pitch | | | Weight (kg) |
|-------------|------------|------|-----|----------------------------------|------|-----|------------------|------------------------|-----|----|------------|-------|-----|-------------|
| | A | B | C | D | E | F | | G | H | J | K | L | M | |
| LGH-15 RX4 | 780 | 610 | 275 | 700 | 641 | 10* | ø100 | 97.5 | 110 | 54 | 450 | 80 | 119 | 17 |
| LGH-25 RX4 | 780 | 735 | 275 | 700 | 765 | 10* | ø150 | 142 | 160 | 63 | 530 | 102.5 | 102 | 21 |
| LGH-35 RX4 | 888 | 874 | 317 | 790 | 906 | 36 | ø150 | 142 | 160 | 63 | 650 | 112 | 124 | 30 |
| LGH-50 RX4 | 888 | 1016 | 317 | 790 | 1048 | 36 | ø200 | 192 | 208 | 79 | 745 | 135.5 | 124 | 33 |
| LGH-65 RX4 | 908 | 954 | 388 | 810 | 985 | 37 | ø200 | 192 | 208 | 79 | 690 | 132 | 124 | 46 |
| LGH-80 RX4 | 1164 | 1004 | 398 | 1030 | 1036 | 10 | ø250 | 242 | 258 | 79 | 690 | 157 | 149 | 61 |
| LGH-100 RX4 | 1164 | 1231 | 398 | 1030 | 1263 | 10 | ø250 | 242 | 258 | 79 | 920 | 155.5 | 149 | 69 |

* Shows the distance from the ceiling.

LGH-150,200RX4-E

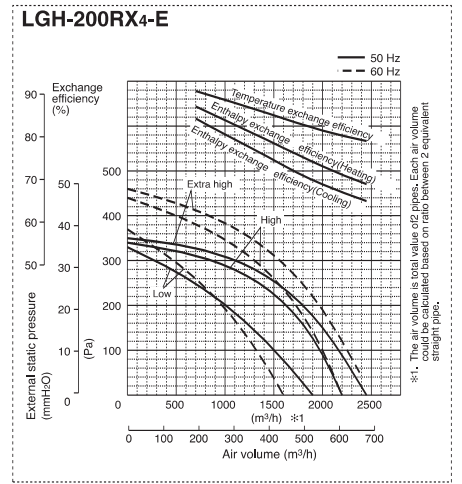
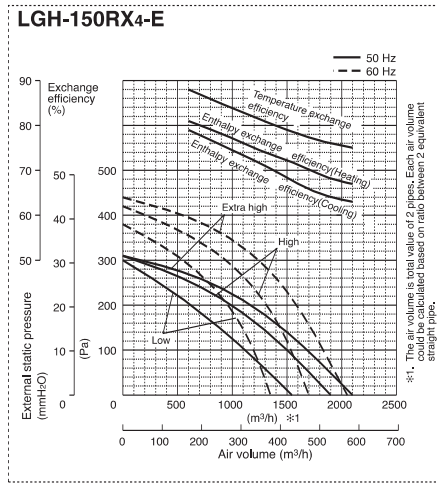
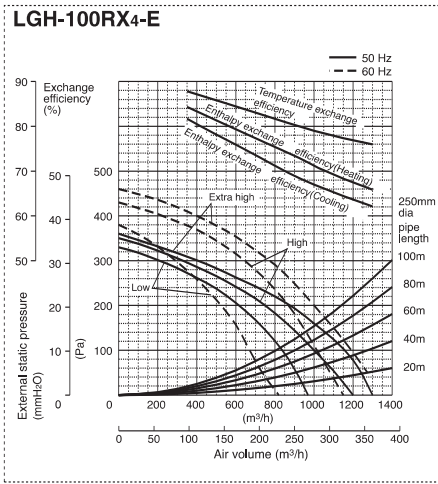
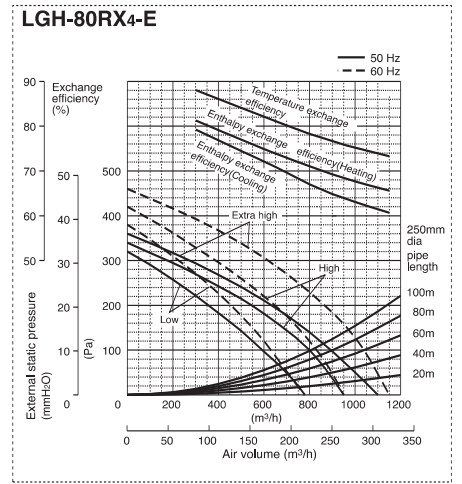
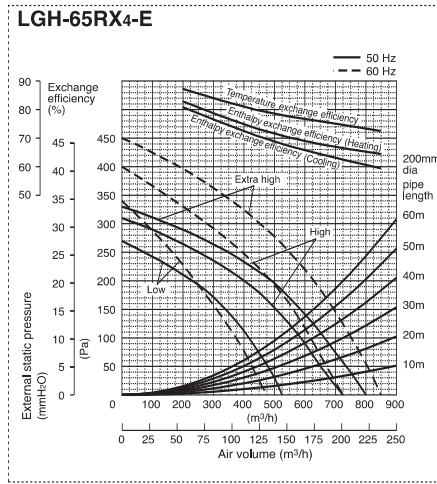
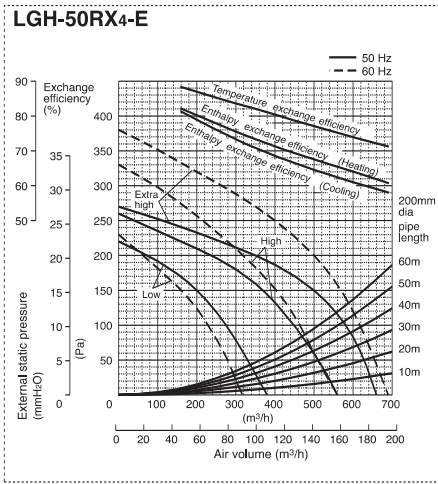
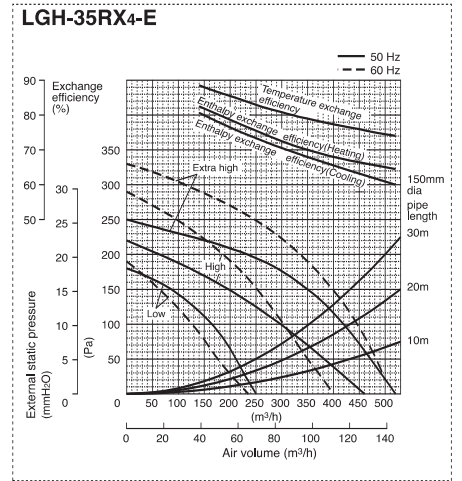
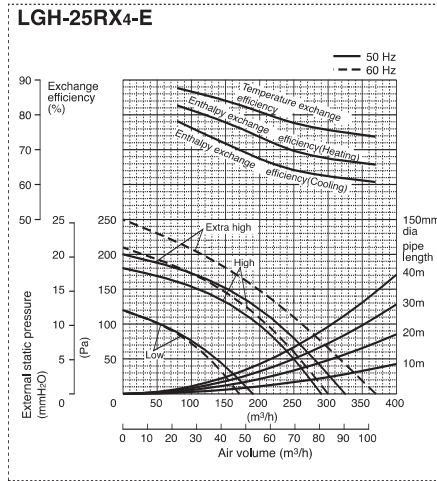
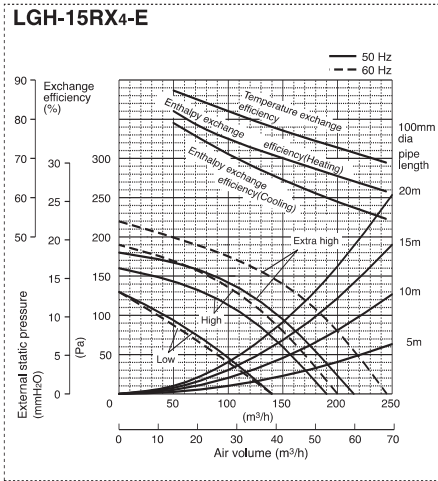


Accessory parts

- Duct connecting flanges x4
- Mounting screws x16
- Slim-Lossnay connection cable (gray: two wires) x1

Unit (mm)

| Model | A | B | C | Weight (kg) |
|-------------|------|-----|------|-------------|
| LGH-150 RX4 | 1004 | 690 | 1046 | 124 |
| LGH-200 RX4 | 1231 | 920 | 1273 | 140 |



3. SPECIFICATIONS

R410A Data G2

LGH-15RX4-E

| Model | | LGH-15RX4-E | | | | | |
|---------------------------------|-------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 0.42-0.45/0.49-0.51 | 0.29-0.31/0.33-0.35 | 0.21-0.22/0.23-0.24 | 0.42-0.45/0.49-0.52 | 0.30-0.31/0.33-0.35 | 0.21-0.22/0.23-0.24 |
| Power consumption | (W) | 92-107/107-122 | 63-73/72-84 | 45-51/49-57 | 92-107/107-123 | 64-73/72-84 | 45-51/49-57 |
| Air volume | (m³/h) | 150 | 150 | 110/100 | 150 | 150 | 110/100 |
| | (L/s) | 42 | 42 | 31/28 | 42 | 42 | 31/28 |
| External static pressure | (Pa) | 95/140 | 60/80 | 35/40 | 95/140 | 60/80 | 35/40 |
| | (mmH₂O) | 9.7/14.3 | 6.1/8.2 | 3.6/4.1 | 9.7/14.3 | 6.1/8.2 | 3.6/4.1 |
| Temperature recovery efficiency | (%) | 77 | 77 | 81/82 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 70 | 70 | 74/75 | - | - | - |
| | Cooling (%) | 64.5 | 64.5 | 70/71 | - | - | - |
| Noise | *1 (dB) | 26-27/28-29 | 24-25/25-26 | 22-23/22-23 | 26-27/28-29 | 24-25/25.5-26.5 | 22-23/22-23 |
| Weight | | 17kg | | | | | |
| Starting current | | Under 0.7/0.7A or less | | | | | |

LGH-25RX4-E

| Model | | LGH-25RX4-E | | | | | |
|---------------------------------|-------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 0.47-0.49/0.55-0.58 | 0.39-0.40/0.45-0.47 | 0.24-0.25/0.26-0.27 | 0.47-0.49/0.55-0.58 | 0.39-0.40/0.45-0.47 | 0.24-0.25/0.26-0.27 |
| Power consumption | (W) | 103-117/121-139 | 85-96/98-112 | 52-59/56-64 | 103-117/121-139 | 85-96/98-112 | 52-59/56-64 |
| Air volume | (m³/h) | 250 | 250 | 165/150 | 250 | 250 | 165/150 |
| | (L/s) | 69 | 69 | 46/42 | 69 | 69 | 46/42 |
| External static pressure | (Pa) | 80/110 | 50/60 | 25/25 | 80/110 | 50/60 | 25/25 |
| | (mmH₂O) | 8.2/11.2 | 5.1/6.1 | 2.5/2.5 | 8.2/11.2 | 5.1/6.1 | 2.5/2.5 |
| Temperature recovery efficiency | (%) | 78 | 78 | 83.5/84.5 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 70 | 70 | 77/78 | - | - | - |
| | Cooling (%) | 65 | 65 | 71/72 | - | - | - |
| Noise | *1 (dB) | 26.5-27.5/28.5-29.5 | 25-26/25.5-26.5 | 22-23/22-23 | 27-28/29-30 | 25.5-26.5/26-27 | 22-23/22-23 |
| Weight | | 21kg | | | | | |
| Starting current | | Under 0.8/0.8A or less | | | | | |

LGH-35RX4-E

| Model | | LGH-35RX4-E | | | | | |
|---------------------------------|-------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 0.78-0.79/0.99-0.99 | 0.71-0.71/0.83-0.87 | 0.46-0.48/0.46-0.50 | 0.81-0.82/1.00-1.00 | 0.72-0.73/0.83-0.86 | 0.46-0.49/0.46-0.50 |
| Power consumption | (W) | 169-187/215-236 | 154-167/180-207 | 97-110/97-117 | 176-192/217-236 | 156-172/180-206 | 97-111/97-117 |
| Air volume | (m³/h) | 350 | 350 | 230/210 | 350 | 350 | 230/210 |
| | (L/s) | 97 | 97 | 64/58 | 97 | 97 | 64/58 |
| External static pressure | (Pa) | 150/190 | 70/50 | 25/20 | 150/190 | 70/50 | 25/20 |
| | (mmH₂O) | 15.3/19.4 | 7.1/5.1 | 2.5/2.0 | 15.3/19.4 | 7.1/5.1 | 2.5/2.0 |
| Temperature recovery efficiency | (%) | 79 | 79 | 84/85 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 70 | 70 | 77/78 | - | - | - |
| | Cooling (%) | 68 | 68 | 74.5/76 | - | - | - |
| Noise | *1 (dB) | 31-32/32-33 | 28-30/27-29 | 23-24/21-22 | 31.5-32.5/33-34 | 28-30/28-30 | 23-24/21-22 |
| Weight | | 30kg | | | | | |
| Starting current | | Under 1.7/1.7A or less | | | | | |

LGH-50RX4-E

| Model | | LGH-50RX4-E | | | | | |
|---------------------------------|-------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 0.94-0.95/1.21-1.27 | 0.89-0.90/1.05-1.10 | 0.57-0.60/0.60-0.63 | 0.95-0.96/1.22-1.25 | 0.90-0.93/1.05-1.09 | 0.58-0.60/0.60-0.63 |
| Power consumption | (W) | 204-225/262-291 | 193-214/231-262 | 123-142/130-151 | 206-228/263-288 | 196-221/228-261 | 125-142/130-151 |
| Air volume | (m³/h) | 500 | 500 | 350/300 | 500 | 500 | 350/300 |
| | (L/s) | 139 | 139 | 97/83 | 139 | 139 | 97/83 |
| External static pressure | (Pa) | 150/200 | 60/60 | 30/20 | 150/200 | 60/60 | 30/20 |
| | (mmH₂O) | 15.3/20.4 | 6.1/6.1 | 3.1/2.0 | 15.3/20.4 | 6.1/6.1 | 3.1/2.0 |
| Temperature recovery efficiency | (%) | 77 | 77 | 82/83.5 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 67.5 | 67.5 | 73.5/75.5 | - | - | - |
| | Cooling (%) | 64.5 | 64.5 | 71.5/73.5 | - | - | - |
| Noise | *1 (dB) | 33-34/33-35.5 | 29.5-31.5/28.5-31 | 23.5-24.5/23-24 | 34-35.5/34.5-36 | 31-33/30-32 | 24.5-25.5/23-24 |
| Weight | | 33kg | | | | | |
| Starting current | | Under 1.9/1.8A or less | | | | | |

*1 Measured at 1.5m under the center of panel.

3. SPECIFICATIONS

LGH-65RX4-E

| Model | | LGH-65RX4-E | | | | | |
|---------------------------------|----------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 1.40-1.40/1.80-1.80 | 1.30-1.30/1.50-1.60 | 0.85-0.90/0.90-1.00 | 1.40-1.40/1.80-1.80 | 1.30-1.30/1.50-1.60 | 0.85-0.90/0.90-1.00 |
| Power consumption | (W) | 295-325/380-430 | 270-300/320-370 | 185-210/195-230 | 300-330/380-430 | 275-305/325-375 | 185-210/195-230 |
| Air volume | (m³/h) | 650 | 650 | 500/440 | 650 | 650 | 500/440 |
| | (L/s) | 181 | 181 | 139/122 | 181 | 181 | 139/122 |
| External static pressure | (Pa) | 110/185 | 50/70 | 30/35 | 110/185 | 50/70 | 30/35 |
| | (mmH ₂ O) | 11.2/18.9 | 5.1/7.1 | 3.1/3.6 | 11.2/18.9 | 5.1/7.1 | 3.1/3.6 |
| Temperature recovery efficiency | (%) | 76 | 76 | 79/80 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 68 | 68 | 71.5/73.5 | - | - | - |
| | Cooling (%) | 64.5 | 64.5 | 69/71 | - | - | - |
| Noise | *1 (dB) | 34.5-35/35.5-36 | 32.5-33/32.5-33 | 27-28/27-28 | 35.5-36/36.5-37 | 33.5-34/33.5-34 | 27.5-28.5/27.5-28.5 |
| Weight | | 46kg | | | | | |
| Starting current | | Under 2.8/2.6A or less | | | | | |

LGH-80RX4-E

| Model | | LGH-80RX4-E | | | | | |
|---------------------------------|----------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 1.70-1.70/2.10-2.20 | 1.60-1.60/1.90-2.00 | 1.40-1.40/1.50-1.60 | 1.70-1.70/2.10-2.10 | 1.60-1.60/1.90-2.00 | 1.40-1.40/1.50-1.60 |
| Power consumption | (W) | 365-385/455-510 | 340-370/405-465 | 290-315/315-375 | 350-380/455-500 | 335-360/410-460 | 290-315/325-375 |
| Air volume | (m³/h) | 800 | 800 | 670/660 | 800 | 800 | 670/660 |
| | (L/s) | 222 | 222 | 186/183 | 222 | 222 | 186/183 |
| External static pressure | (Pa) | 140/230 | 100/120 | 70/80 | 140/230 | 100/120 | 70/80 |
| | (mmH ₂ O) | 14.3/23.5 | 10.2/12.2 | 7.1/8.2 | 14.3/23.5 | 10.2/12.2 | 7.1/8.2 |
| Temperature recovery efficiency | (%) | 78 | 78 | 80.5/81 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 71 | 71 | 73.5/74 | - | - | - |
| | Cooling (%) | 67 | 67 | 70.5/71 | - | - | - |
| Noise | *1 (dB) | 33.5-34.5/35-36 | 32-33/31-32.5 | 30-31/29-30.5 | 34.5-35.5/36-37 | 33-34/32-33.5 | 30.5-31.5/29.5-31 |
| Weight | | 61kg | | | | | |
| Starting current | | Under 3.6/3.3A or less | | | | | |

LGH-100RX4-E

| Model | | LGH-100RX4-E | | | | | |
|---------------------------------|----------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 2.10-2.10/2.80-2.90 | 2.00-2.00/2.60-2.70 | 1.70-1.70/2.00-2.10 | 2.10-2.10/2.80-2.90 | 2.00-2.00/2.60-2.70 | 1.70-1.70/2.00-2.10 |
| Power consumption | (W) | 455-490/615-680 | 440-475/565-635 | 365-400/420-485 | 455-590/615-680 | 440-475/565-635 | 365-400/425-490 |
| Air volume | (m³/h) | 1000 | 1000 | 870/720 | 1000 | 1000 | 870/720 |
| | (L/s) | 278 | 278 | 242/200 | 278 | 278 | 242/200 |
| External static pressure | (Pa) | 160/200 | 100/110 | 80/60 | 160/200 | 100/110 | 80/60 |
| | (mmH ₂ O) | 16.3/20.4 | 10.2/11.2 | 8.2/6.1 | 16.3/20.4 | 10.2/11.2 | 8.2/6.1 |
| Temperature recovery efficiency | (%) | 79 | 79 | 81/83 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 71 | 71 | 74/77 | - | - | - |
| | Cooling (%) | 67 | 67 | 69.5/73.5 | - | - | - |
| Noise | *1 (dB) | 36-37/36-38 | 34-35/34-36 | 31.5-32.5/30-32 | 37-38/37.5-39.5 | 35-36.5/35-37.5 | 33-34/31-33 |
| Weight | | 69kg | | | | | |
| Starting current | | Under 5.4/4.9A or less | | | | | |

LGH-150RX4-E

| Model | | LGH-150RX4-E | | | | | |
|---------------------------------|----------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 3.30-3.30/4.20-4.40 | 3.10-3.10/3.80-3.90 | 2.70-2.70/3.00-3.10 | 3.20-3.20/4.20-4.30 | 3.00-3.00/3.70-3.90 | 2.60-2.60/3.00-3.10 |
| Power consumption | (W) | 720-770/920-1020 | 670-730/820-935 | 575-625/650-740 | 700-755/910-1010 | 655-710/810-925 | 565-615/645-740 |
| Air volume | (m³/h) | 1500 | 1500 | 1250/1230 | 1500 | 1500 | 1250/1230 |
| | (L/s) | 417 | 417 | 347/342 | 417 | 417 | 347/342 |
| External static pressure | (Pa) | 140/230 | 100/120 | 70/80 | 140/230 | 100/120 | 70/80 |
| | (mmH ₂ O) | 14.3/23.5 | 10.2/12.2 | 7.1/8.2 | 14.3/23.5 | 10.2/12.2 | 7.1/8.2 |
| Temperature recovery efficiency | (%) | 79 | 79 | 81.5/81.5 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 72 | 72 | 74.5/74.5 | - | - | - |
| | Cooling (%) | 68 | 68 | 72/72 | - | - | - |
| Noise | *1 (dB) | 36.5-37.5/37-38 | 35.5-36.5/35-36 | 32.5-33.5/33-34 | 39-40/39-41 | 37.5-38.5/36.5-38.5 | 34.5-36.5/33-35 |
| Weight | | 124kg | | | | | |
| Starting current | | Under 7.2/6.6A or less | | | | | |

*1 Measured at 1.5m under the center of panel.

3. SPECIFICATIONS

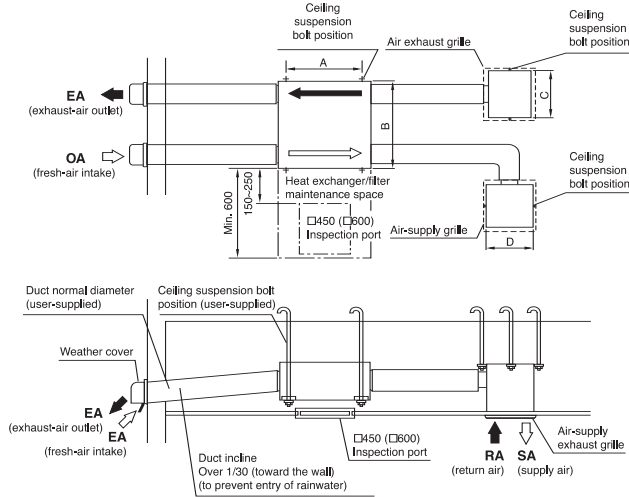
R410A Data G2

LGH-200RX4-E

| Model | | LGH-200RX4-E | | | | | |
|---------------------------------|----------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Power source | | 1-phase 220-240V ~50/60Hz | | | | | |
| Ventilation mode | | Lossnay ventilation | | | Bypass ventilation | | |
| Fan speed | | Extra High | High | Low | Extra High | High | Low |
| Current | (A) | 4.30-4.30/5.80-5.90 | 4.20-4.20/5.30-5.40 | 3.50-3.50/4.00-4.10 | 4.30-4.30/5.80-5.90 | 4.20-4.20/5.30-5.50 | 3.50-3.50/4.00-4.20 |
| Power consumption | (W) | 945-1010/1265-1410 | 910-980/1155-1295 | 755-820/860-980 | 940-1010/1260-1405 | 915-985/1160-1300 | 755-825/860-990 |
| Air volume | (m ³ /h) | 2000 | 2000 | 1650/1440 | 2000 | 2000 | 1650/1440 |
| | (L/s) | 556 | 556 | 458/400 | 556 | 556 | 458/400 |
| External static pressure | (Pa) | 150/190 | 90/100 | 65/60 | 150/190 | 90/100 | 65/60 |
| | (mmH ₂ O) | 15.3/19.4 | 9.2/10.2 | 6.6/6.1 | 15.3/19.4 | 9.2/10.2 | 6.6/6.1 |
| Temperature recovery efficiency | (%) | 79 | 79 | 81.5/83 | - | - | - |
| Enthalpy recovery efficiency | Heating (%) | 71 | 71 | 75/77 | - | - | - |
| | Cooling (%) | 67 | 67 | 71/73.5 | - | - | - |
| Noise | *1 (dB) | 39-40/38.5-40.5 | 37-38/36.5-38.5 | 35-36/34-35 | 39.5-41/39.5-42 | 38-39.5/37.5-40 | 36-37/34.5-36 |
| Weight | | 140kg | | | | | |
| Starting current | | Under 10.8/9.8A or less | | | | | |

*1 Measured at 1.5m under the center of panel.

LGH-15,25,35,50,65,80,100RX4-E



- An inspection port (□450 or □600) must be installed on the filter and Lossnay Core removing side.
- Provide heat insulation to prevent moisture condensation along the two outside ducts (fresh-air intake and exhaust-air outlet).
- Ceiling installation hardware can be attached to the top of the unit. (models LGH-35 to 100RX4-E)
- Do not use vent caps or round hoods in places directly exposed to rain.

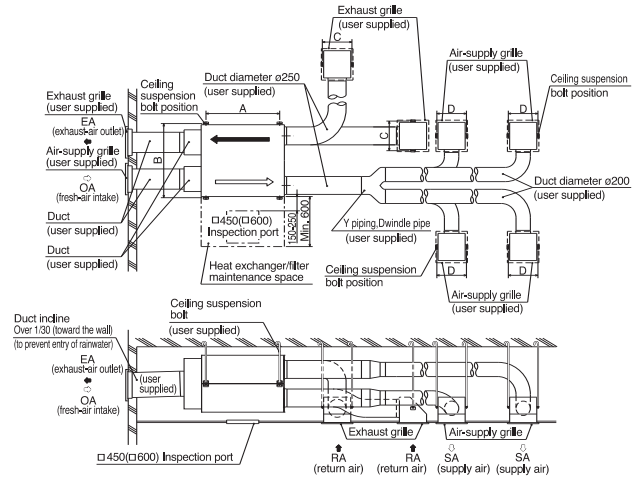
(Unit: mm)

| | A | B | C | D |
|--------------|-------|-------|-----|-----|
| LGH-15RX4-E | 700 | 641 | 334 | 334 |
| LGH-25RX4-E | 700 | 765 | 334 | 334 |
| LGH-35RX4-E | 790 | 906 | 334 | 334 |
| LGH-50RX4-E | 790 | 1,048 | 414 | 414 |
| LGH-65RX4-E | 810 | 985 | 414 | 414 |
| LGH-80RX4-E | 1,030 | 1,036 | 414 | 414 |
| LGH-100RX4-E | 1,030 | 1,263 | 414 | 414 |

Installation conditions:

- Ambient conditions: Temperature -10C to +40C, relative humidity less than 80%. When condensation is expected to form, heat up the outside air using a duct heater, etc.
- Outside air intake conditions: Temperature -15C to +40C, relative humidity less than 80%.

LGH-150,200RX4-E



- An inspection port (□450 or □600) must be installed on the filter and Lossnay Core removing side.
- Provide heat insulation to prevent moisture condensation along the two outside ducts (fresh-air intake and exhaust-air outlet).
- Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.

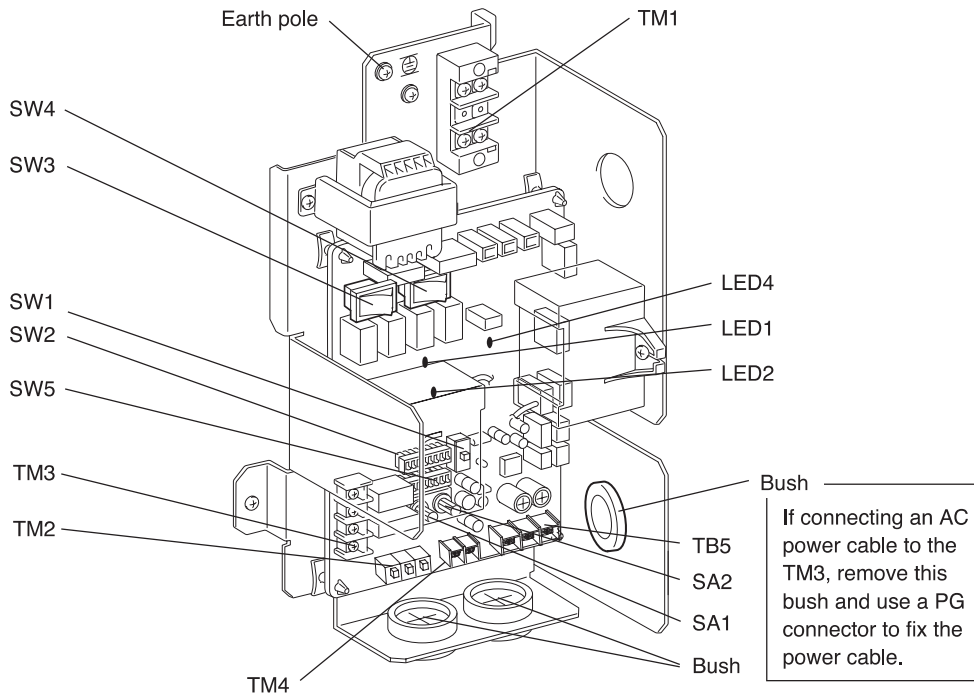
(Unit: mm)

| | A | B | C | D |
|--------------|-------|-------|-----|-----|
| LGH-150RX4-E | 1,030 | 1,046 | 414 | 414 |
| LGH-200RX4-E | 1,030 | 1,273 | 414 | 414 |

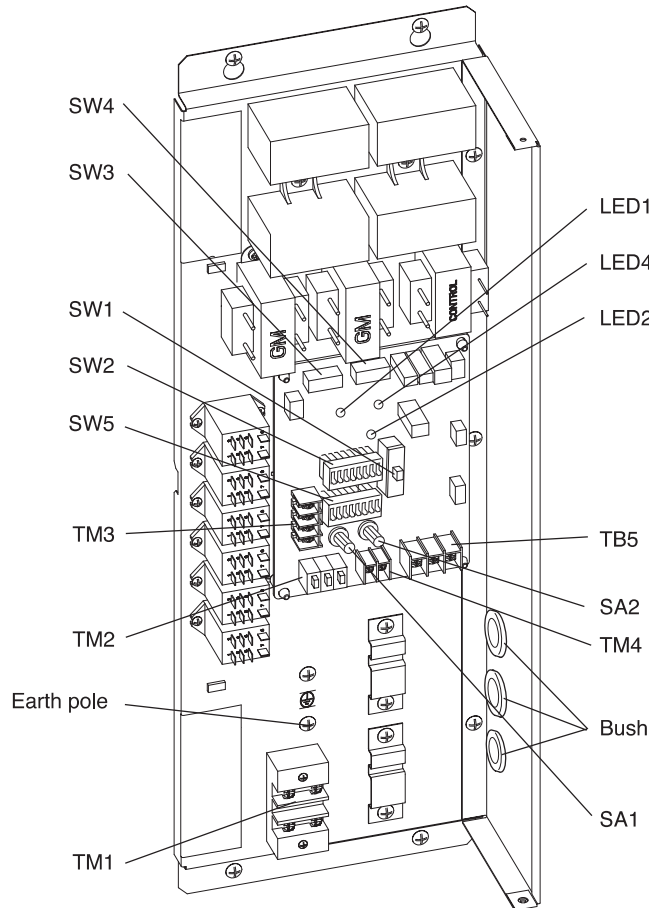
With this product, the wiring installation method will vary according to the design of the system. Perform electrical installation for each of the required sections.

* Always use double insulated PVC cable for the transmission lines.

LGH-15,25,35,50,65,80,100RX4-E

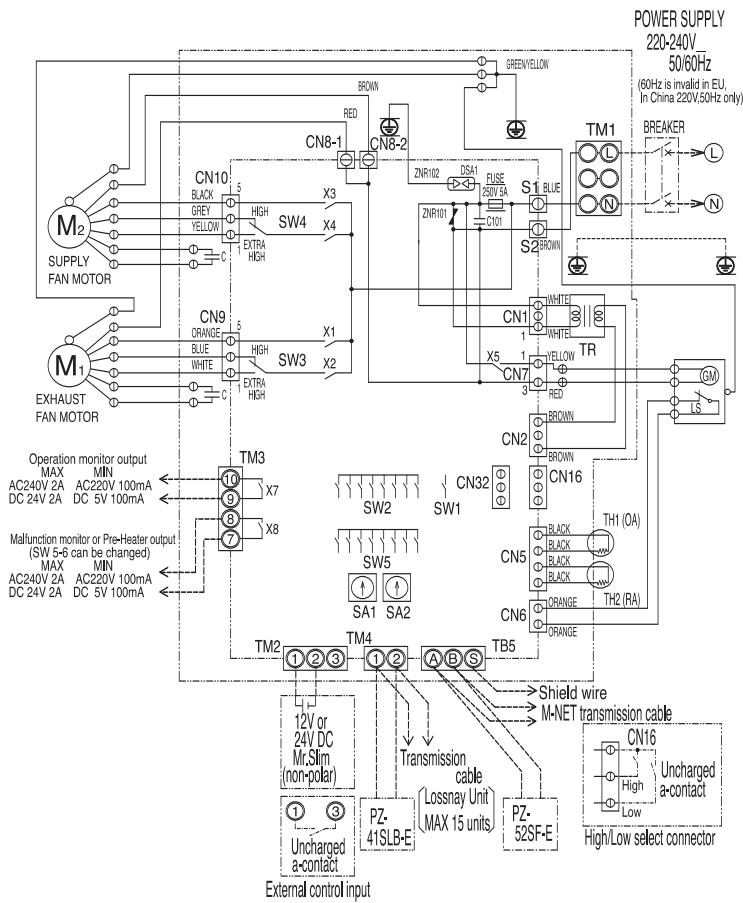


LGH-150,200RX4-E



LGH-15,25,35,50,65,80,100RX4-E

Drw. : IU-WIRING51



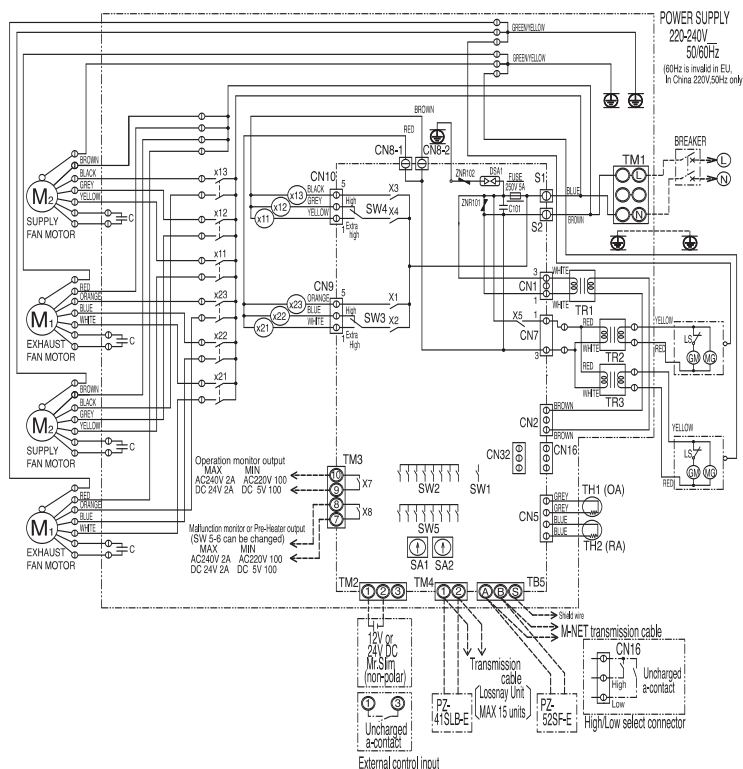
- Connect the wires shown as dotted lines.
- Be sure to connect the grounding wire.
- Breaker should be provided by the customer.
- Always use an all pole disconnection for the main switch (breaker) for the power connection.
- Always use double insulated PVC cable for the transmission lines.

Symbol explanation

- M1: Motor for exhaust fan
- M2: Motor for supply fan
- C: Capacitor
- GM: Motor for Bypass movement
- LS: Microswitch
- TH1: Thermistor for outside air
- TH2: Thermistor for return air
- SW1: Switch (Main/Sub change)
- SW2, 5: Switch (Function selection)
- SW3: High/E. High select switch (Exhaust fan)
- SW4: High/E. High select switch (Supply fan)
- TM1: Terminal block (Power supply)
- TM2: Terminal block (Transmission cable and external control input)
- TM3: Terminal block (Monitor output)
- TB5: Terminal block (M-NET Transmission cable)
- S1, S2: Connector (Power supply)
- TR: Control circuit transformer
- X7: Relay contact (for operation monitor output)
- X8: Relay contact (for malfunction monitor output)
- CN1: Connector (Transformer primary)
- CN2: Connector (Transformer secondary)
- CN5: Connector (Thermistor)
- CN6: Connector (Microswitch)
- CN7: Connector (Motor for bypass operation)
- CN8-1: Tab connector (Fan motor)
- CN8-2: Tab connector (Fan motor)
- CN9: Connector (Fan motor)
- CN10: Connector (Fan motor)
- CN16: Connector (High/Low switch)
- CN32: Connector (Remote control selection)
- SA1: Address setting rotary switch (10 digit)
- SA2: Address setting rotary switch (1 digit)
- LED1: Inspection indicator lamp
- LED2: Inspection indicator lamp
- LED4: Power supply indicator lamp
- MARK:
 - ⊙ : Indicates terminal block
 - ⊕ : Connector
 - Ⓜ : Board insertion connector or fastening connector of control board

LGH-150,200RX4-E

Drw. : IU-WIRING52



- PZ-41SLB-E and PZ-52SF-E cannot be used simultaneously.

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- V_a**
- V_b
- BC

CITY MULTI™

OA Processing unit

GUF-RD₃

GUF-RDH₃

GUF-RD(H)₃

V-B

1. SPECIFICATIONS

V-B-2

2. SOUND LEVELS

V-B-3

2-1. NC curves

V-B-3

2-2. Fan characteristics curves

V-B-4

3. EXTERNAL DIMENSIONS

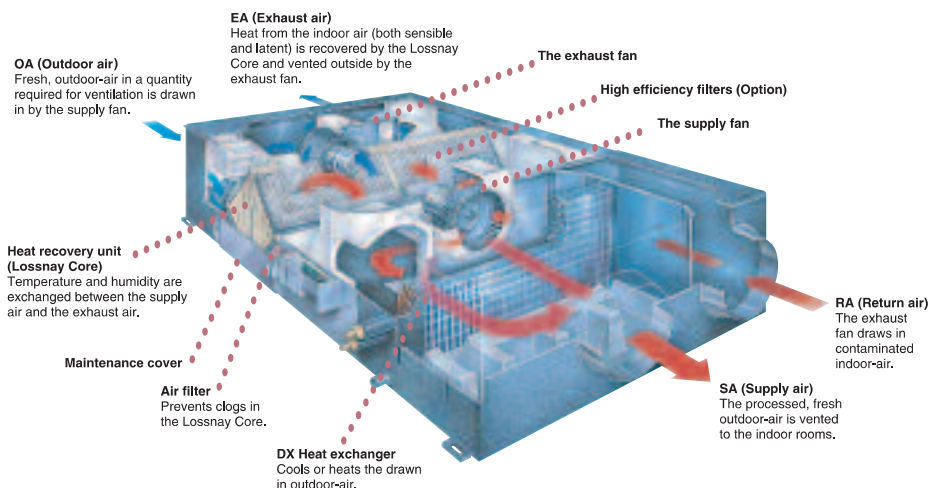
V-B-5

4. WIRING DIAGRAMS

V-B-6

OA Processing unit GUF-RD(H)₃ combines the characteristics of LOSSNAY and air conditioning function of indoor unit, offers perfect air conditioning in which fresh outdoor air, humidity, temperature adjustment are all considered. Moreover, GUF-RD(H)₃ realizes the air conditioning solution at the most energy saving method.

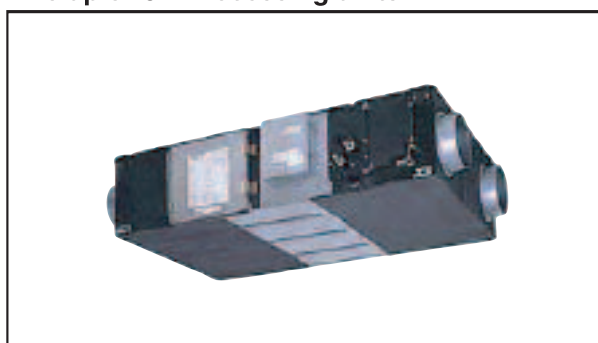
GUF Structure:



Permeable Film Humidifier (GUF-RDH Model)



Line up of OA Processing units



| | | |
|----------------------------|-----------------------|---|
| GUF-50RD ₃ -E | 500m ³ /h | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz |
| GUF-100RD ₃ -E | 1000m ³ /h | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz |
| GUF-50RDH ₃ -E | 500m ³ /h | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz |
| GUF-100RDH ₃ -E | 1000m ³ /h | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz |

1. SPECIFICATIONS

R410A Data G2

| Model | | | GUF-50RDH ₃ | | GUF-100RDH ₃ | | GUF-50RD ₃ | | GUF-100RD ₃ | | |
|---|------------------------|--------------------|---|---------|-------------------------------|----------|-------------------------|---------|-------------------------------|----------|--|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | | | | | | | | |
| Cooling capacity Figure in < > is the recovery capacity by LOSSNAY core. | *1 | kW | 5.46 | <1.83> | 11.17 | <3.85> | 5.46 | <1.83> | 11.17 | <3.85> | |
| | *1 | kcal / h | 4,700 | <1,600> | 9,600 | <3,300> | 4,700 | <1,600> | 9,600 | <3,300> | |
| | *1 | Btu / h | 18,600 | <6,200> | 38,100 | <13,100> | 18,600 | <6,200> | 38,100 | <13,100> | |
| | *2 | kcal / h | 4,500 | <1,400> | 9,300 | <3,000> | 4,500 | <1,400> | 9,300 | <3,000> | |
| | | Power input | kW | 235-265 | | 480-505 | | 235-265 | | 480-505 | |
| | | Current input | A | | 2.20 | | 1.15 | | 2.20 | | |
| Heating capacity Figure in < > is the recovery capacity by LOSSNAY core. | *3 | kW | 6.18 | <2.01> | 12.50 | <4.20> | 6.18 | <2.01> | 12.50 | <4.20> | |
| | *3 | kcal / h | 5,300 | <1,700> | 10,800 | <3,600> | 5,300 | <1,700> | 10,800 | <3,600> | |
| | *3 | Btu / h | 21,100 | <6,900> | 42,700 | <14,300> | 21,100 | <6,900> | 42,700 | <14,300> | |
| | | Power input | kW | 235-265 | | 480-505 | | 235-265 | | 480-505 | |
| | | | Current input | A | | 2.20 | | 1.15 | | 2.20 | |
| Capacity equivalent to indoor unit | | | P32 | | P63 | | P32 | | P63 | | |
| Humidifying capacity | | | kg / h | | 5.4 | | | | | | |
| | | | lb / h | | 12.0 | | | | | | |
| Humidifier | | | Permeable film humidifier | | | | | | | | |
| External finish | | | Galvanized, with grey insulation sheet | | | | | | | | |
| External dimension H x W x D | mm | | 317 x 1,016 x 1,288 | | 398 x 1,231 x 1,580 | | 317 x 1,016 x 1,288 | | 398 x 1,231 x 1,580 | | |
| | in. | | 12-1/2" x 40" x 50-3/4" | | 15-11/16" x 48-1/2" x 62-1/4" | | 12-1/2" x 40" x 50-3/4" | | 15-11/16" x 48-1/2" x 62-1/4" | | |
| Net weight | | | kg (lb) | | 98 (217) | | 54 (120) | | 92 (203) | | |
| Heat exchanger | LOSSNAY core | | Partition, Cross-flow structure, Special preserved paper-plate. | | | | | | | | |
| | Refrigerant coil | | Cross fin (Aluminum fin and copper tube) | | | | | | | | |
| FAN | Type x Quantity | | SA: Centrifugal fan (Sirocco fan) x 1 EA: Centrifugal fan (Sirocco fan) x 1 | | | | | | | | |
| | External static press. | Pa | 125 | | 135 | | 140 | | 140 | | |
| | | mmH ₂ O | 12.7 | | 13.8 | | 14.3 | | 14.3 | | |
| Motor type | | | Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2units | | | | | | | | |
| Motor output | | | kW | | - | | - | | - | | |
| Driving mechanism | | | Direct-driven by motor | | | | | | | | |
| Airflow rate (High value) | m ³ / min | | 500 | | 1,000 | | 500 | | 1,000 | | |
| | L / s | | 139 | | 139 | | 139 | | 139 | | |
| | cfm | | 294 | | 589 | | 294 | | 589 | | |
| Noise level (Low-High) (measured in anechoic room) | | | dB <A> | | 33.5-34.5 | | 38-39 | | 33.5-34.5 | | |
| Insulation material | | | Polyester sheet | | | | | | | | |
| Air filter | Supplying air | | Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method 65%) | | | | | | | | |
| | Exhausting air | | Non-woven fabrics filter (Gravitational method 82%) | | | | | | | | |
| Protection device | | | Fuse | | | | | | | | |
| Refrigerant control device | | | LEV | | | | | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | | | | | |
| Diameter of refrigerant pipe | Liquid | mm (in.) | ø6.35 (ø1/4") Flare | | ø9.52 (ø3/8") Flare | | ø6.35 (ø1/4") Flare | | ø9.52 (ø3/8") Flare | | |
| | Gas | mm (in.) | ø12.7 (ø1/2") Flare | | ø15.88 (ø5/8") Flare | | ø12.7 (ø1/2") Flare | | ø15.88 (ø5/8") Flare | | |
| Diameter of drain pipe | | | mm (in.) VP25 | | | | | | | | |
| Drawing | External | | GUF-ext-rdH3 | | | | GUF-ext-rd3 | | | | |
| | Wiring | | GUF-wir-rdH3 | | | | GUF-wir-rd3 | | | | |
| | Refrigerant cycle | | - | | | | - | | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | | | | | | |
| | Accessory | | | | | | | | | | |
| Remark | Optional parts | | High efficiency filter: PZ-50RFM (for GUF-50RDH ₃ , GUF-50RD ₃) | | | | | | | | |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | | | | | |

Note :

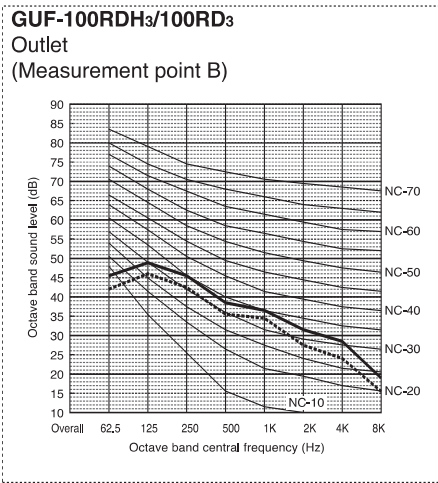
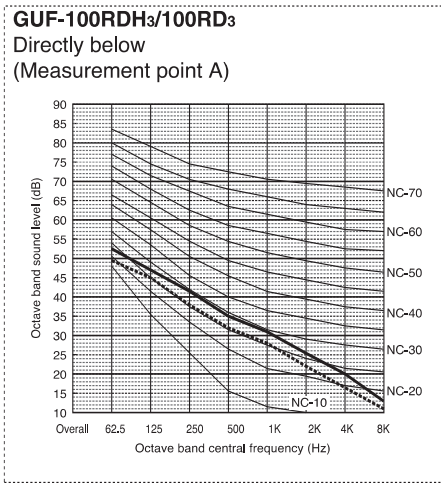
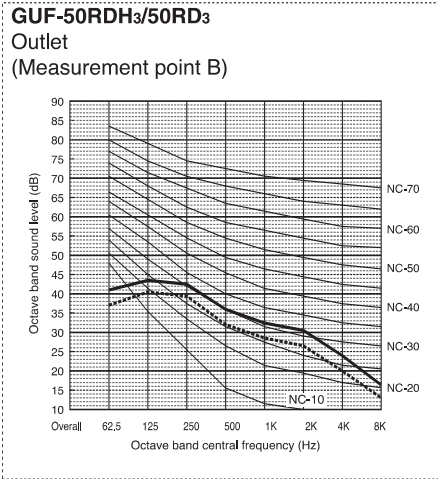
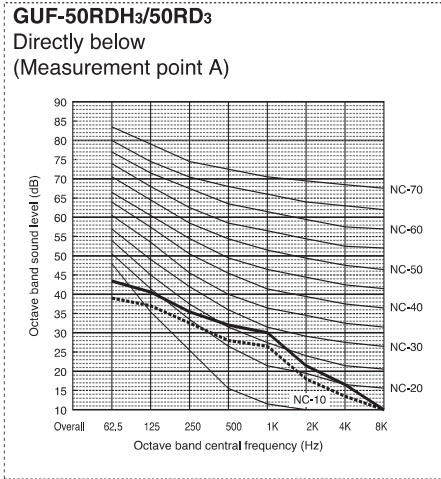
| | | | |
|--|---------------------------------|-------------------------------|-----------------------------------|
| *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
| Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |

* Sound level details refer to 2. SOUND LEVELS.
 * Nominal conditions *1, *3 are subject to JIS B8615-1.
 * Due to continuing improvement, above specification may be subject to change without notice.

*Above specification data is subject to rounding variation.

Ref.: Spec_PMFY-P20VBM-E

2-1. NC curves

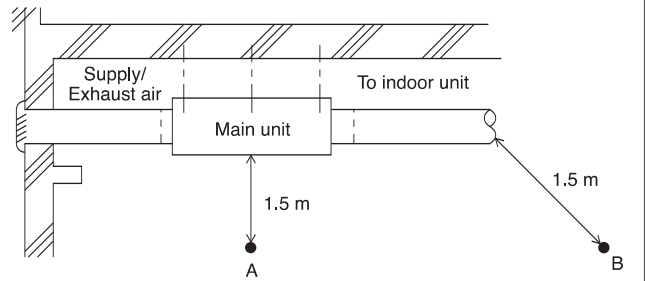


● Measurement Condition

Measurement site:

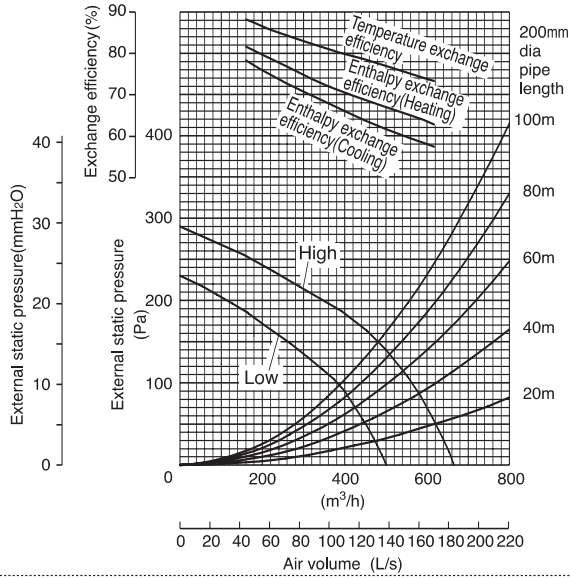
Mitsubishi Electric Co.,
Nakatsugawa Works
Anechoic chamber

<Ceiling recessed type>

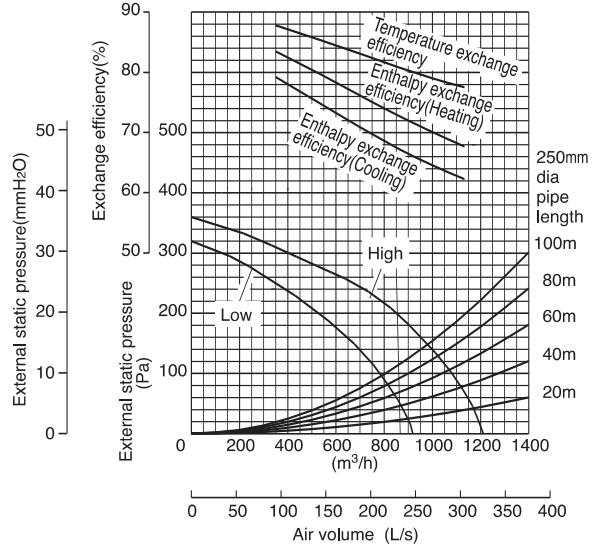


2-2. Fan characteristics curves

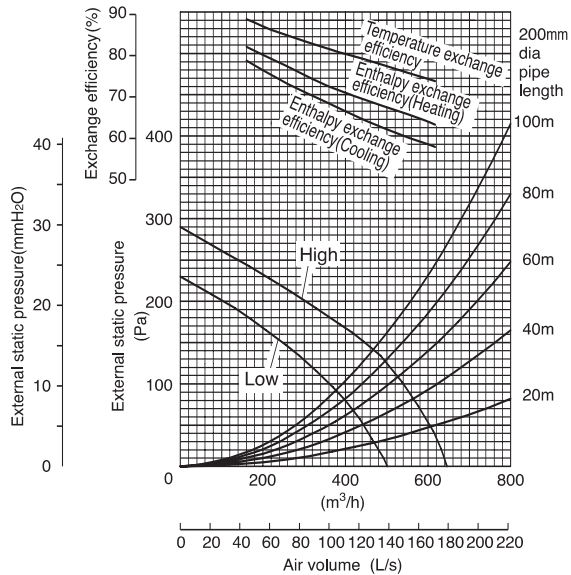
GU-F-50RDH₃
Humidifying Type



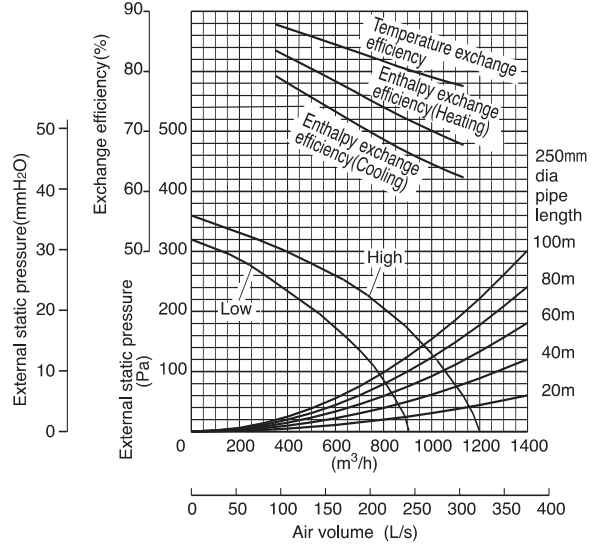
GU-F-100RDH₃
Humidifying Type



GU-F-50RD₃
Non-Humidifying Type



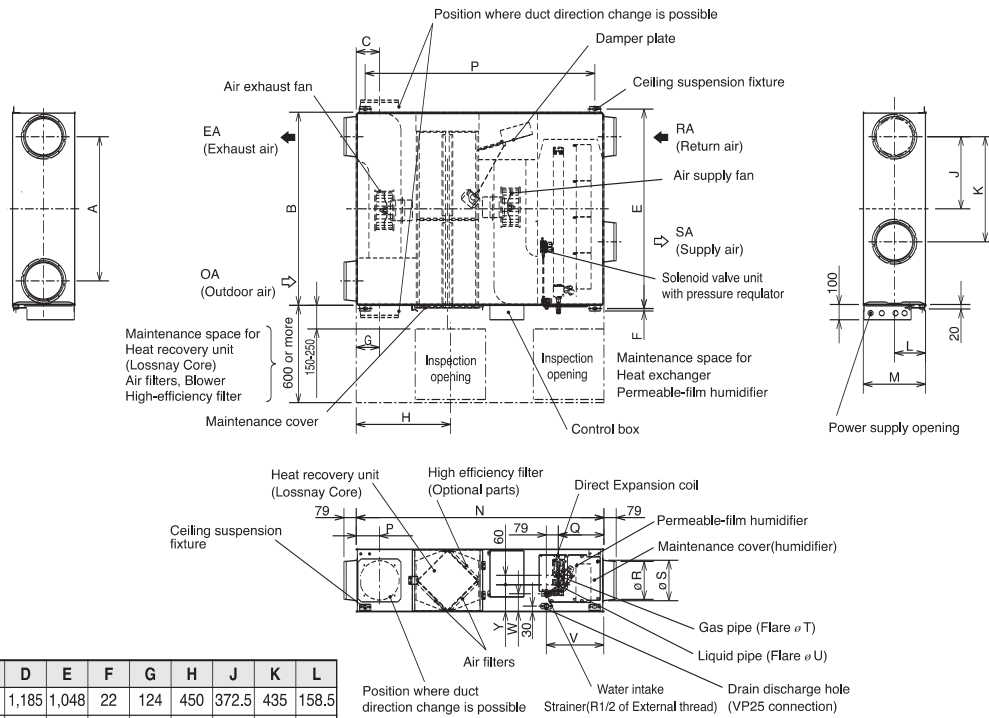
GU-F-100RD₃
Non-Humidifying Type



GUF-50,100RD(H)₃

Drw. : GUF-ext-rdH3
Unit : mm

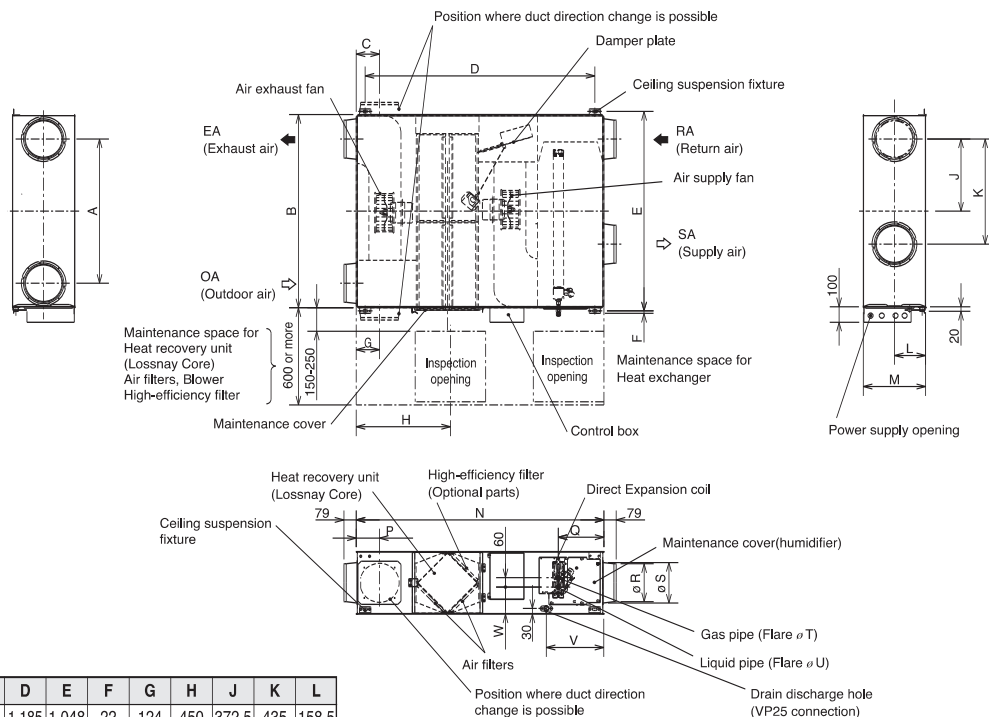
Humidifying Type GUF-50/100RDH₃



| Model | A | B | C | D | E | F | G | H | J | K | L |
|-------------------------|-----|-------|-----|-------|-------|-----|-------|------|-------|-----|-------|
| GUF-50RDH ₃ | 745 | 1,016 | 124 | 1,185 | 1,048 | 22 | 124 | 450 | 372.5 | 435 | 158.5 |
| GUF-100RDH ₃ | 920 | 1,231 | 149 | 1,465 | 1,271 | 16 | 149 | 600 | 460 | 670 | 199 |
| Model | M | N | P | Q | R | S | T | U | V | W | Y |
| GUF-50RDH ₃ | 317 | 1,288 | 124 | 266 | 192 | 208 | 12.7 | 6.35 | 347 | 99 | 135 |
| GUF-100RDH ₃ | 398 | 1,580 | 149 | 280 | 242 | 258 | 15.88 | 9.52 | 361 | 110 | 169 |

Non-Humidifying Type GUF-50/100RD₃

Drw. : GUF-ext-rd3
Unit : mm

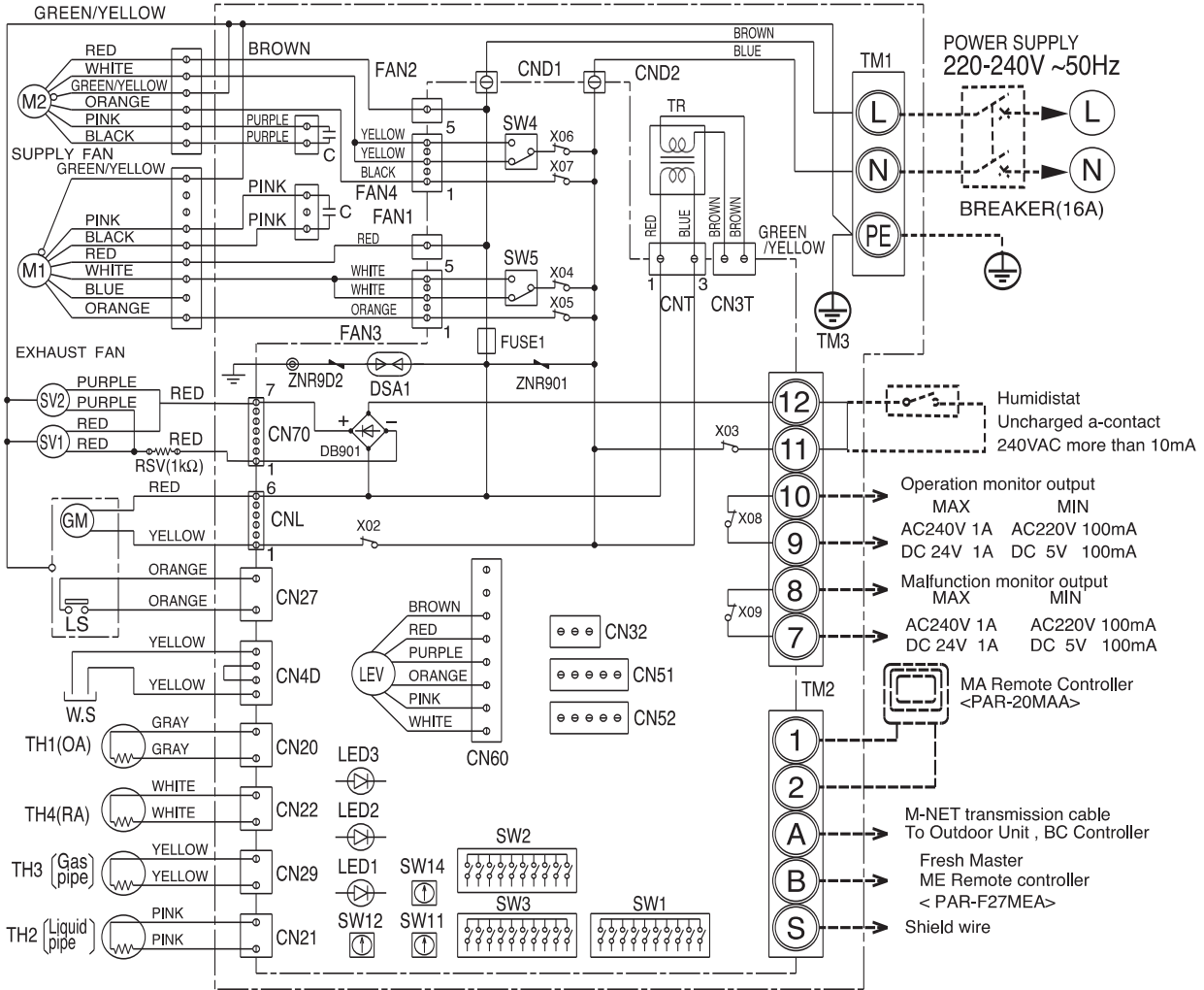


| Model | A | B | C | D | E | F | G | H | J | K | L |
|------------------------|-----|-------|-----|-------|-------|-----|-------|------|-------|-----|-------|
| GUF-50RD ₃ | 745 | 1,016 | 124 | 1,185 | 1,048 | 22 | 124 | 450 | 372.5 | 435 | 158.5 |
| GUF-100RD ₃ | 920 | 1,231 | 149 | 1,465 | 1,271 | 16 | 149 | 600 | 460 | 670 | 199 |
| Model | M | N | P | Q | R | S | T | U | V | W | |
| GUF-50RD ₃ | 317 | 1,288 | 124 | 266 | 192 | 208 | 12.7 | 6.35 | 347 | 135 | |
| GUF-100RD ₃ | 398 | 1,580 | 149 | 280 | 242 | 258 | 15.88 | 9.52 | 361 | 169 | |

Humidifying Type GUF-50/100RDH3

Drv. :GUF-wir-rdH3

- TM1, TM2 shown in dotted lines are field work.
- Be sure to connect the grounding wire.
- Breakers and controller switches should be provided by the customer.



MARK ○ : indicates terminal block, ⊕ : connector
 □ : board insertion connector or fastening connector of control board.

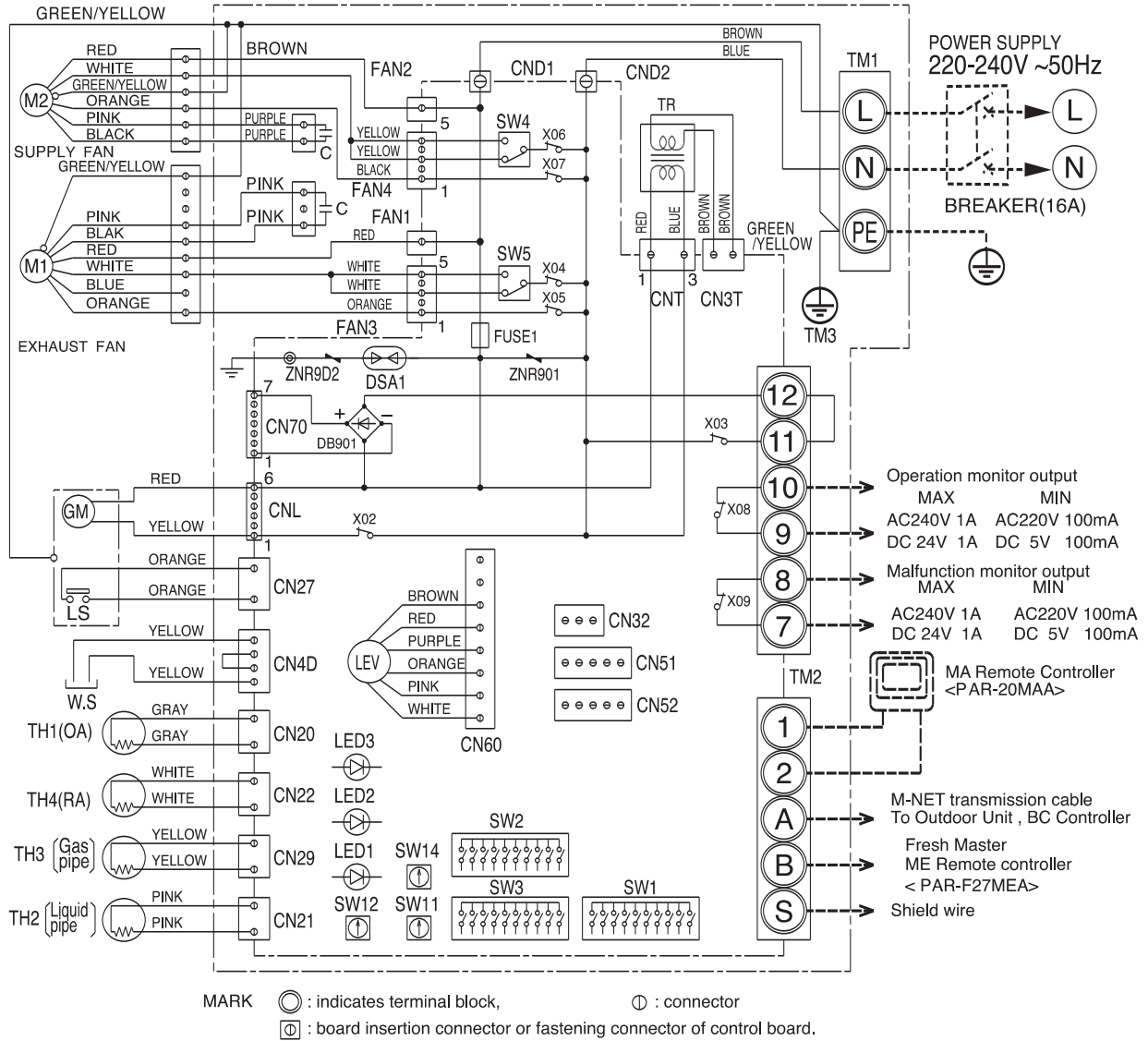
Symbol Explanation

| Symbol | Name | Symbol | Name | Symbol | Name |
|--------|--|------------|--------------------------------------|------------|-----------------------------|
| M1 | Fan motor (exhaust) | TM1 | Terminal block (power supply) | 1, 2 | Remote control terminal |
| M2 | Fan motor (supply) | TM2 | Terminal block (transmission) | A, B | M-NET transmission terminal |
| C | Capacitor | TM3 | Terminal block (humidistat, monitor) | s | Shield |
| W.S | Water sensor | SW1 | Switch (function selection) | CND1, CND2 | Connector (power supply) |
| SV1 | Solenoid valve (pressure regulator) | SW2 | Switch (capacity code setting) | X02-X09 | Relay |
| SV2 | Solenoid valve (exhaust) | SW3 | Switch (function selection) | TR | Transformer |
| TH1 | Thermistor (outdoor air temp. detection) | SW4, SW5 | Switch | GM | Damper motor |
| TH2 | Thermistor (pipe temp. detection/liquid) | SW11 | Switch (1st digit address set) | LS | Limit switch |
| TH3 | Thermistor (pipe temp. detection/gas) | SW12 | Switch (2nd digit address set) | LED1 | Power supply monitor |
| TH4 | Thermistor (room air temp. detection) | SW14 | Switch (branch NO. set) | LED2 | MA Remote controller |
| LEV | Electronic linear expansion valve | CN32 | Connector (Remote input) | | Power supply monitor |
| RSV | Resistance (solenoid valve) | CN51, CN52 | Connector (Remote input/output) | LED3 | M-NET Power supply monitor |

Non-Humidifying Type GUF-50/100RD3

Drw. :GUF-wir-rd3

- TM1, TM2 shown in dotted lines are field work.
- Be sure to connect the grounding wire.
- Breakers and controller switches should be provided by the customer.



Symbol Explanation

| Symbol | Name | Symbol | Name | Symbol | Name |
|--------|--|------------|--------------------------------------|------------|-----------------------------|
| M1 | Fan motor (exhaust) | TM1 | Terminal block (power supply) | 1, 2 | Remote control terminal |
| M2 | Fan motor (supply) | TM2 | Terminal block (transmission) | A, B | M-NET transmission terminal |
| C | Capacitor | TM3 | Terminal block (humidistat, monitor) | S | Shield |
| W.S | Water sensor | SW1 | Switch (function selection) | CND1, CND2 | Connector (power supply) |
| TH1 | Thermistor (outdoor air temp. detection) | SW2 | Switch (capacity code setting) | X02-X09 | Relay |
| TH2 | Thermistor (pipe temp. detection/liquid) | SW3 | Switch (function selection) | TR | Transformer |
| TH3 | Thermistor (pipe temp. detection/gas) | SW4, SW5 | Switch | GM | Damper motor |
| TH4 | Thermistor (room air temp. detection) | SW11 | Switch (1st digit address set) | LS | Limit switch |
| LEV | Electronic linear expansion valve | SW12 | Switch (2nd digit address set) | LED1 | Power supply monitor |
| | | SW14 | Switch (branch NO. set) | LED2 | MA Remote controller |
| | | CN32 | Connector (Remote input) | LED3 | M-NET Power supply monitor |
| | | CN51, CN52 | Connector (Remote input/output) | | |

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- V_a
- V_b**
- BC

CITY MULTI™

BC controller

CMB-P-V-G,GA,GB

1. SPECIFICATIONS
2. EXTERNAL DIMENSIONS
3. WIRING DIAGRAMS
4. REFRIGERANT CIRCUITS

CMB-P-V-G CMB-P-V-GA CMB-P-V-GB

BC
BC-2
BC-9
BC-12
BC-20

A

B

C

D

E

F

G

H

I

J

V_AV_B

BC

| Model name | | CMB-P104V-G | | CMB-P105V-G | | |
|---|------------------|---|---|--|--|--|
| Number of branch | | 4 | | 5 | | |
| Power source | | 1N ~ 220/230/240V | | | | |
| | | 50Hz | 60Hz | 50Hz | 60Hz | |
| Power input | kW | Cooling : 0.067/0.076/0.085 Heating : 0.030/0.034/0.038 | Cooling : 0.054/0.061/0.067 Heating : 0.024/0.027/0.030 | Cooling : 0.082/0.093/0.104 Heating : 0.038/0.043/0.048 | Cooling : 0.066/0.074/0.082 Heating : 0.030/0.034/0.038 | |
| Current | A | Cooling : 0.31/0.34/0.36 Heating : 0.14/0.15/0.16 | Cooling : 0.25/0.27/0.28 Heating : 0.11/0.12/0.13 | Cooling : 0.38/0.41/0.44 Heating : 0.18/0.19/0.20 | Cooling : 0.30/0.33/0.35 Heating : 0.14/0.15/0.16 | |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | | | |
| Connectable outdoor unit | | PURY-P200/250/300/350YGM-A(-BS) / PQRY-P200/250YGM-A | | | | |
| Indoor unit capacity connectable to 1 branch | kW | Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | | | |
| External dimension H x W x D | | mm(in.) 284 x 648 x 432 (11-3/16" x 25-9/16" x 17-1/16") | | | | |
| Refrigerant piping diameter | To outdoor unit | Connectable outdoor unit capacity | | | | |
| | | P200 | P250/P300 | P350 | | |
| | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed | | |
| | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | | |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | | | |
| | | Gas pipe | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | | |
| Drain pipe | | VP-25 | | | | |
| Net weight | kg(lb) | 24 (53) | | 27 (60) | | |
| Accessories | | ・Drain Connection pipe (with flexible hose and insulation) ・Reducer | | | | |
| Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual. *2. The equipment is for R410A refrigerant. | | | | | | |

Ref.: M-WYNCO-6883&6884

| Model name | | CMB-P106V-G | | CMB-P108V-G | |
|---|---|---|---|--|--|
| Number of branch | | 6 | | 8 | |
| Power source | | 1N ~ 220/230/240V | | | |
| | | 50Hz | 60Hz | 50Hz | 60Hz |
| Power input | kW | Cooling : 0.097/0.110/0.123 Heating : 0.045/0.051/0.057 | Cooling : 0.078/0.088/0.097 Heating : 0.036/0.041/0.045 | Cooling : 0.127/0.144/0.161 Heating : 0.060/0.068/0.076 | Cooling : 0.102/0.115/0.127 Heating : 0.048/0.054/0.060 |
| Current | A | Cooling : 0.45/0.48/0.52 Heating : 0.21/0.23/0.24 | Cooling : 0.36/0.39/0.41 Heating : 0.17/0.18/0.19 | Cooling : 0.58/0.63/0.68 Heating : 0.28/0.30/0.32 | Cooling : 0.47/0.50/0.53 Heating : 0.22/0.24/0.25 |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | | |
| Connectable outdoor unit | | PURY-P200/250/300/350YGM-A(-BS) / PQRV-P200/250YGM-A | | | |
| Indoor unit capacity connectable to 1 branch | | Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | | |
| External dimension H x W x D | | mm(in.) 284 x 648 x 432 (11-3/16" x 25-9/16" x 17-1/16") | | | |
| Refrigerant piping diameter | To outdoor unit | Connectable outdoor unit capacity | | | |
| | | P200 | P250/P300 | P350 | |
| | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed | |
| | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | | |
| Gas pipe | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | | | |
| Drain pipe | | VP-25 | | | |
| Net weight | kg(lb) | 29 (64) | | 34 (75) | |
| Accessories | | ・Drain Connection pipe (with flexible hose and insulation) ・Reducer | | | |
| Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual. *2. The equipment is for R410A refrigerant. | | | | | |

Ref.: M-WYNCO-6885&6886

| Model name | | CMB-P1010V-G | | CMB-P1013V-G | |
|---|-----------------|---|---|--|--|
| Number of branch | | 10 | | 13 | |
| Power source | | 1N ~ 220/230/240V | | | |
| | | 50Hz | 60Hz | 50Hz | 60Hz |
| Power input | kW | Cooling : 0.156/0.177/0.198 Heating : 0.075/0.085/0.095 | Cooling : 0.126/0.141/0.156 Heating : 0.060/0.068/0.075 | Cooling : 0.201/0.228/0.255 Heating : 0.097/0.110/0.123 | Cooling : 0.162/0.182/0.201 Heating : 0.078/0.088/0.097 |
| Current | A | Cooling : 0.71/0.77/0.83 Heating : 0.35/0.37/0.40 | Cooling : 0.58/0.62/0.65 Heating : 0.28/0.30/0.32 | Cooling : 0.92/1.00/1.07 Heating : 0.45/0.48/0.52 | Cooling : 0.74/0.80/0.84 Heating : 0.36/0.39/0.41 |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | | |
| Connectable outdoor unit | | PURY-P200/250/300/350YGM-A(-BS) / PQRY-P200/250YGM-A | | | |
| Indoor unit capacity connectable to 1 branch | kW | Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | | |
| External dimension H x W x D | mm(in.) | 284 x 648 x 432 (11-3/16" x 25-9/16" x 17-1/16") | | 284 x 1,098 x 432 (11-3/16" x 43-1/4" x 17-1/16") | |
| Refrigerant piping diameter | To outdoor unit | Connectable outdoor unit capacity | | | |
| | | | P200 | P250/P300 | P350 |
| | | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed |
| | | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | | |
| | | Gas pipe | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | |
| Drain pipe | | VP-25 | | | |
| Net weight | kg(lb) | 39 (86) | | 47 (104) | |
| Accessories | | ·Drain Connection pipe (with flexible hose and insulation) ·Reducer | | | |
| Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual. *2. The equipment is for R410A refrigerant. | | | | | |

Ref.: M-WYNCO-6887&6888

| | | | | |
|--|------------------|---|---|-------------------------|
| Model name | | CMB-P1016V-G | | |
| Number of branch | | 16 | | |
| Power source | | 1N ~ 220/230/240V | | |
| | | 50Hz | 60Hz | |
| Power input | kW | Cooling : 0.246/0.279/0.312 Heating : 0.119/0.135/0.151 | Cooling : 0.198/0.222/0.246 Heating : 0.096/0.108/0.119 | |
| Current | A | Cooling : 1.12/1.22/1.30 Heating : 0.55/0.59/0.63 | Cooling : 0.90/0.97/1.03 Heating : 0.44/0.47/0.50 | |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | |
| Connectable outdoor unit | | PURY-P200/250/300/350YGM-A(-BS) / PQRV-P200/250YGM-A | | |
| Indoor unit capacity connectable to 1 branch | | kW Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | |
| External dimension H x W x D | | mm(in.) 284 x 1,098 x 432 (11-3/16" x 43-1/4" x 17-1/16") | | |
| Refrigerant piping diameter | To outdoor unit | Connectable outdoor unit capacity | | |
| | | | P200 | P250/P300 |
| | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed |
| | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | |
| Gas pipe | | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | |
| Drain pipe | | VP-25 | | |
| Net weight | kg(lb) | 54 (120) | | |
| Accessories | | ·Drain Connection pipe (with flexible hose and insulation) ·Reducer | | |
| <p>Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p> <p>*2. The equipment is for R410A refrigerant.</p> | | | | |

Ref.: M-WYNCO-6889

1. SPECIFICATIONS

R410A Data G2

| Model name | | CMB-P108V-GA | | CMB-P1010V-GA | | | |
|---|------------------------|---|---|--|--|-------------------------|-------------------------|
| Number of branch | | 8 | | 10 | | | |
| Power source | | 1N ~ 220/230/240V | | | | | |
| | | 50Hz | 60Hz | 50Hz | 60Hz | | |
| Power input | kW | Cooling : 0.127/0.144/0.161 Heating : 0.060/0.068/0.076 | Cooling : 0.102/0.115/0.127 Heating : 0.048/0.054/0.060 | Cooling : 0.156/0.177/0.198 Heating : 0.075/0.085/0.095 | Cooling : 0.126/0.141/0.156 Heating : 0.060/0.068/0.075 | | |
| Current | A | Cooling : 0.58/0.63/0.68 Heating : 0.28/0.30/0.32 | Cooling : 0.47/0.50/0.53 Heating : 0.22/0.24/0.25 | Cooling : 0.71/0.77/0.83 Heating : 0.35/0.37/0.40 | Cooling : 0.58/0.62/0.65 Heating : 0.28/0.30/0.32 | | |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | | | | |
| Connectable outdoor unit | | PURY-P200/250/300/350/400/450/500/550/600/650YGM-A(-BS) / PQRV-P200/250/400/500YGM-A | | | | | |
| Indoor unit capacity connectable to 1 branch | kW | Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | | | | |
| External dimension H x W x D | | mm(in.) 289 x1,110 x 520 (11-7/16" x 43-3/4" x 20-1/2") | | | | | |
| Refrigerant piping diameter | To outdoor unit | Connectable outdoor unit capacity | | | | | |
| | | | P200 | P250/P300 | P350 | P400~P500 | P550~P650 |
| | | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed |
| | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | φ28.58 (φ1-1/8") Brazed | φ28.58 (φ1-1/8") Brazed | |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | | | | |
| | | Gas pipe | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | | | |
| | To other BC controller | Total indoor unit capacity connected to this Sub BC controller | | | | | |
| | | | ~P200 | P201~P300 | P301~P350 | | |
| | | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed | | |
| | | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | | |
| | Liquid pipe | φ9.52 (φ3/8") Brazed | φ9.52 (φ3/8") Brazed | φ12.7 (φ1/2") Brazed | | | |
| Drain pipe | | VP-25 | | | | | |
| Net weight | kg(lb) | 44 (98) | | 49 (109) | | | |
| Accessories | | <ul style="list-style-type: none"> ·Drain Connection pipe (with flexible hose and insulation) ·Reducer | | | | | |
| <p>Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual. *2. The equipment is for R410A refrigerant.</p> | | | | | | | |

Ref.: M-WYNCO-6890&6891

| Model name | | CMB-P1013V-GA | | | CMB-P1016V-GA | | | | | |
|---|------------------------|--|---|---|--|-------------------------|-----------|------|--|--|
| Number of branch | | 13 | | | 16 | | | | | |
| Power source | | 1N ~ 220/230/240V | | | | | | | | |
| | | 50Hz | | 60Hz | | 50Hz | | 60Hz | | |
| Power input | kW | Cooling : 0.201/0.228/0.255 Heating : 0.097/0.110/0.123 | Cooling : 0.162/0.182/0.201 Heating : 0.078/0.088/0.097 | Cooling : 0.246/0.279/0.312 Heating : 0.119/0.135/0.151 | Cooling : 0.198/0.222/0.246 Heating : 0.096/0.108/0.119 | | | | | |
| Current | A | Cooling : 0.92/1.00/1.07 Heating : 0.45/0.48/0.52 | Cooling : 0.74/0.80/0.84 Heating : 0.36/0.39/0.41 | Cooling : 1.12/1.22/1.30 Heating : 0.55/0.59/0.63 | Cooling : 0.90/0.97/1.03 Heating : 0.44/0.47/0.50 | | | | | |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | | | | | | | |
| Connectable outdoor unit | | PURY-P200/250/300/350/400/450/500/550/600/650YGM-A(-BS) / PQRY-P200/250/400/500YGM-A | | | | | | | | |
| Indoor unit capacity connectable to 1 branch | | kW | | Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | | | | | |
| External dimension H x W x D | | mm(in.) | | 289 x 1,110 x 520 (11-7/16" x 43-3/4" x 20-1/2") | | | | | | |
| Refrigerant piping diameter | To outdoor unit | Connectable outdoor unit capacity | | | | | | | | |
| | | | P200 | P250/P300 | P350 | P400~P500 | P550~P650 | | | |
| | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | | | | |
| | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | φ28.58 (φ1-1/8") Brazed | φ28.58 (φ1-1/8") Brazed | | | | |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | | | | | | | |
| | | Gas pipe | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | | | | | | |
| | To other BC controller | Total indoor unit capacity connected to this Sub BC controller | | | | | | | | |
| | | | ~P200 | P201~P300 | | P301~P350 | | | | |
| | | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | | φ19.05 (φ3/4") Brazed | | | | |
| | | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | | φ28.58 (φ1-1/8") Brazed | | | | |
| | Liquid pipe | φ9.52 (φ3/8") Brazed | φ9.52 (φ3/8") Brazed | | φ12.7 (φ1/2") Brazed | | | | | |
| Drain pipe | | VP-25 | | | | | | | | |
| Net weight | | kg(lb) | 57 (126) | | | 64 (142) | | | | |
| Accessories | | ・Drain Connection pipe (with flexible hose and insulation) ・Reducer | | | | | | | | |
| Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual. *2. The equipment is for R410A refrigerant. | | | | | | | | | | |

Ref.: M-WYNCO-6892&6893

1. SPECIFICATIONS

R410A Data G2

| Model name | | CMB-P104V-GB | | CMB-P108V-GB | |
|---|-----------------------|---|---|--|--|
| Number of branch | | 4 | | 8 | |
| Power source | | 1N ~ 220/230/240V | | | |
| | | 50Hz | 60Hz | 50Hz | 60Hz |
| Power input | kW | Cooling : 0.060/0.068/0.076 Heating : 0.030/0.034/0.038 | Cooling : 0.048/0.054/0.060 Heating : 0.024/0.027/0.030 | Cooling : 0.119/0.135/0.151 Heating : 0.060/0.068/0.076 | Cooling : 0.096/0.108/0.119 Heating : 0.048/0.054/0.060 |
| Current | A | Cooling : 0.28/0.30/0.32 Heating : 0.14/0.15/0.16 | Cooling : 0.22/0.24/0.25 Heating : 0.11/0.12/0.13 | Cooling : 0.55/0.59/0.63 Heating : 0.28/0.30/0.32 | Cooling : 0.44/0.47/0.50 Heating : 0.22/0.24/0.25 |
| External finish | | Galvanized steel plate (Lower part drain pan painting N1.5) | | | |
| Connectable BC controller | Main BC | CMB-P108/1010/1013/1016V-GA | | | |
| | Sub BC | CMB-P104/108V-GB | | | |
| Indoor unit capacity connectable to 1 branch | kW | Model P140 or smaller (Use optional joint pipe combining 2 branches when the total capacity exceeds 141.) (Use the reducer (standard accessory) when the indoor unit Model 50 or smaller is connected.) | | | |
| External dimension H x W x D mm(in.) | | 284 x 648 x 432 (11-3/16" x 25-9/16" x 17-1/16") | | | |
| Refrigerant piping diameter | To Main BC controller | Total indoor unit capacity connected to this Sub BC controller | | | |
| | | | ~P200 | P201~P300 | P301~P350 |
| | | High press. pipe | φ15.88 (φ5/8") Brazed | φ19.05 (φ3/4") Brazed | φ19.05 (φ3/4") Brazed |
| | Low press. pipe | φ19.05 (φ3/4") Brazed | φ22.2 (φ7/8") Brazed | φ28.58 (φ1-1/8") Brazed | |
| | Liquid pipe | φ9.52 (φ3/8") Brazed | φ9.52 (φ3/8") Brazed | φ12.7 (φ1/2") Brazed | |
| | To indoor unit | Liquid pipe | φ9.52 (φ3/8") Flare (φ6.35 (φ1/4") with attached reducer used, φ12.7 (φ1/2") with optional joint pipe used.) | | |
| | | Gas pipe | φ15.88 (φ5/8") Flare (φ12.7 (φ1/2") with attached reducer used, φ19.05 (φ3/4") with optional joint pipe used.) | | |
| Drain pipe | | VP-25 | | | |
| Net weight | kg(lb) | 22 (49) | | 32 (71) | |
| Accessories | | <ul style="list-style-type: none"> ·Drain Connection pipe (with flexible hose and insulation) ·Reducer | | | |
| <p>Note: *1. Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual. *2. The equipment is for R410A refrigerant.</p> | | | | | |

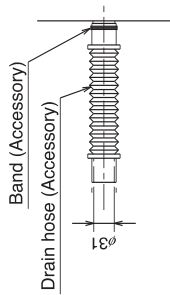
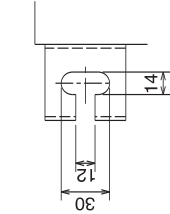
Ref.: M-WYNCO-6894&6895

CMB-P104,105,106,108,1010,1013,1016V-G

Drw. : cmb-p104-1016v-g-W656-840A
Unit : mm

- <Accessories>
- Refrigerant<Low pressure> conn. pipe..... 2pcs.
 - Refrigerant<High pressure> conn. pipe..... 1pc.
 - Reducer(Large.Small)..... Quantity for all connections
 - Drain hose(VP-25 connection)..... 1pc.
 - Hose band..... 1pc.
 - Tie band..... 1pc.

Note1. Suspension bolt(φ10), washer(M10), and nut(M10) prepare in the field.
2. Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)



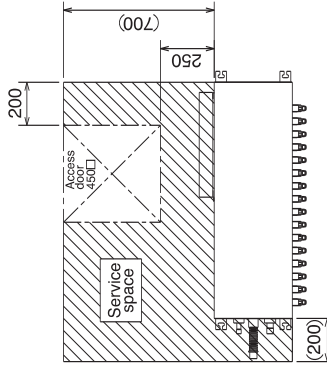
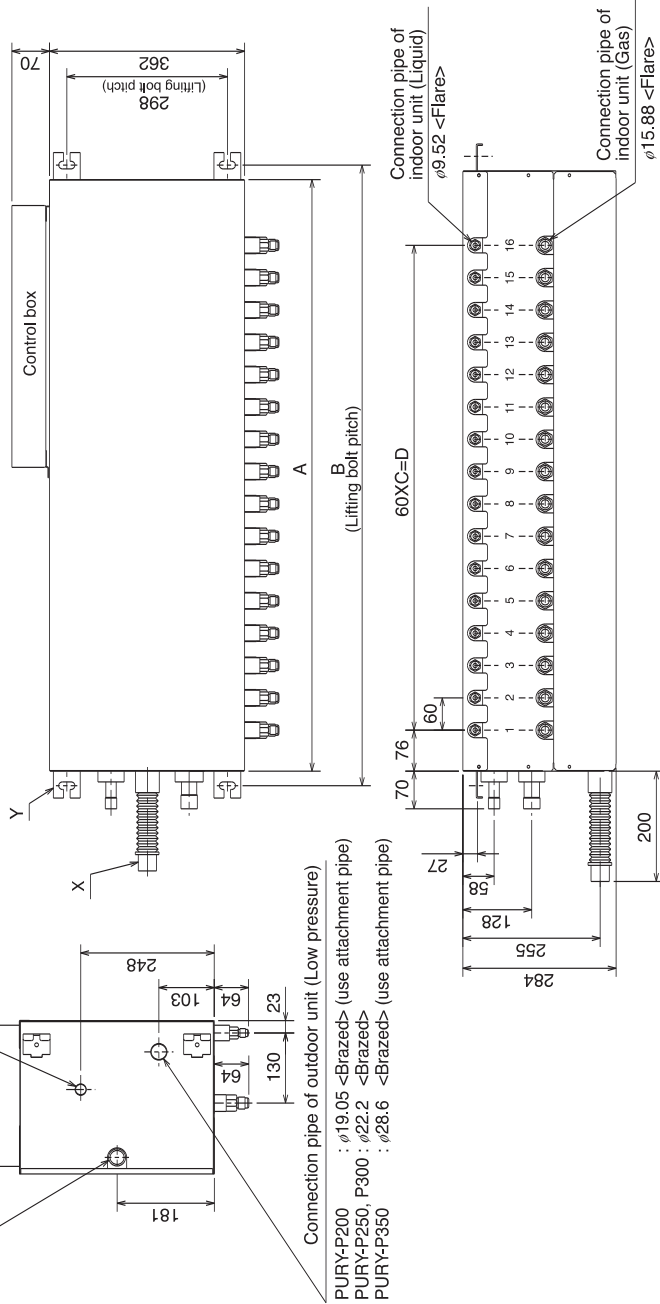
Detail of Y section

Detail of X section

Drain piping VP-25 connection

Connection pipe of outdoor unit (High pressure) <φ19.05 <Brazed>

Connection pipe of outdoor unit (Low pressure) : φ19.05 <Brazed> (use attachment pipe)
PURY-P250 : φ22.2 <Brazed>
PURY-P250, P300 : φ22.2 <Brazed>
PURY-P350 : φ28.6 <Brazed> (use attachment pipe)



| | A | B | C | D |
|--------------|------|------|----|-----|
| CMB-P104V-G | | | 3 | 180 |
| CMB-P105V-G | | | 4 | 240 |
| CMB-P106V-G | 648 | 702 | 5 | 300 |
| CMB-P108V-G | | | 7 | 420 |
| CMB-P1010V-G | | | 9 | 540 |
| CMB-P1013V-G | 1098 | 1152 | 12 | 720 |
| CMB-P1016V-G | | | 15 | 900 |

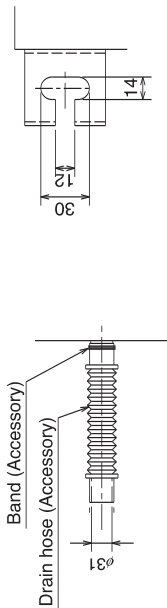
CMB-P108,1010,1013,1016V-GA

Draw. : cmb-p108-1016v-ga-W656-838A
Unit : mm

- <Accessories>
- Refrigerant<High pressure>conn. pipe.....2pcs.
 - Reducer(Large,Small)..... Quantity for all connections
 - Drain hose(VP-25 connection)..... 1pc.
 - Hose band..... 1pc.
 - Tie band..... 1pc.

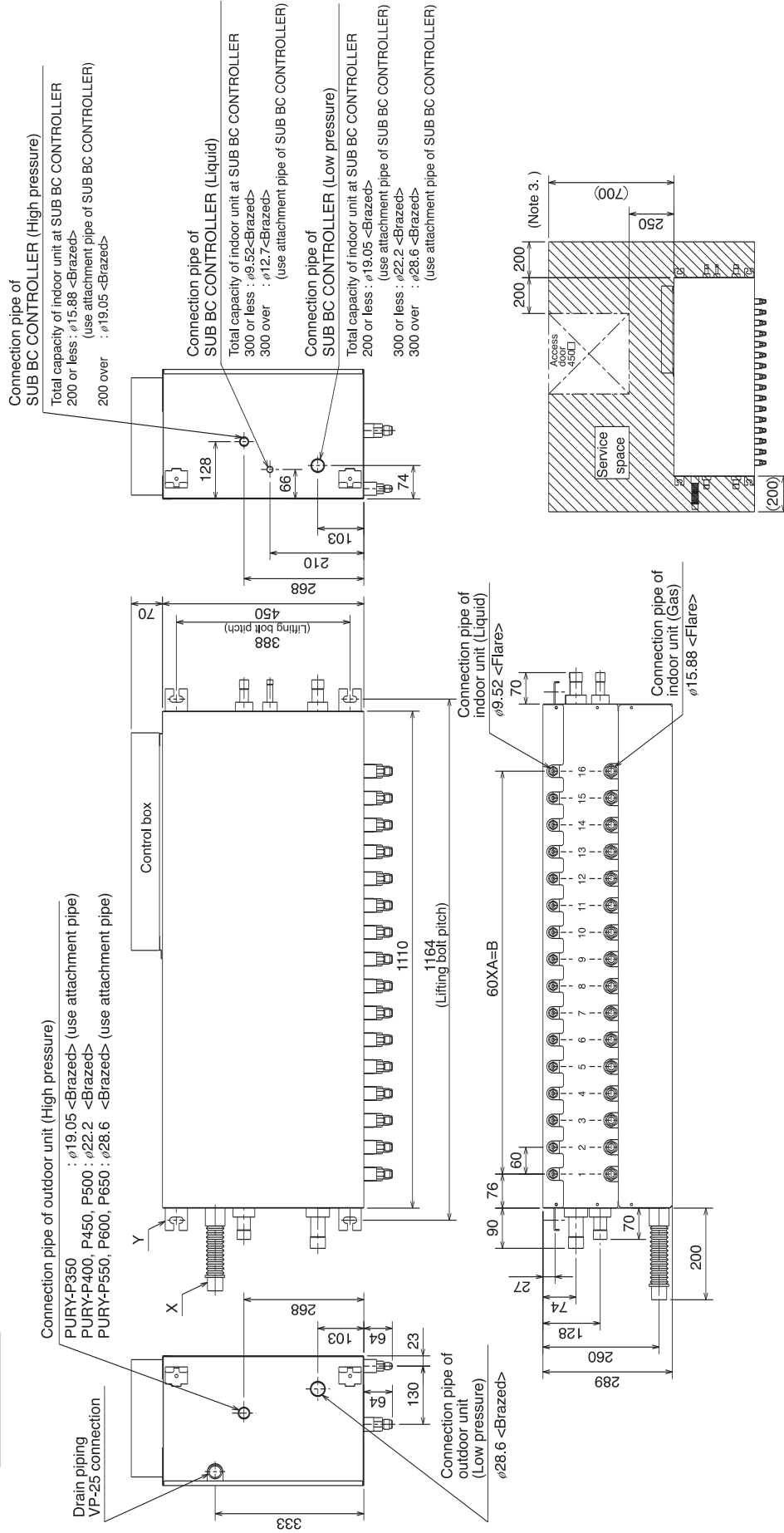
| | A | B |
|---------------|----|-----|
| CMB-P108V-GA | 7 | 420 |
| CMB-P1010V-GA | 9 | 540 |
| CMB-P1013V-GA | 12 | 720 |
| CMB-P1016V-GA | 15 | 900 |

- Note1. Suspension bolt(ϕ 10), washer(M10), and nut(M10) prepare in the field.
2. Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)
3. Please take space to connect SUB BC CONTROLLER.



Detail of Y section

Connection pipe of outdoor unit (High pressure)
PURY-P350 : ϕ 19.05<Brazed> (use attachment pipe)
PURY-P400, P450, P500 : ϕ 22.2<Brazed>
PURY-P550, P600, P650 : ϕ 28.6<Brazed> (use attachment pipe)

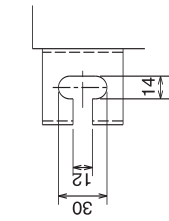


CMB-P104,108V-GB

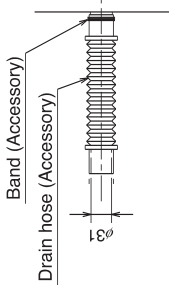
Drw. : cmb-p104-108v-gB-W656-839A
Unit : mm

- <Accessories>
- Refrigerant<Low pressure>conn. pipe..... 4pcs.
 - Refrigerant<High pressure>conn. pipe..... 2pcs.
 - Refrigerant<Liquid>conn. pipe..... 2pcs.
 - Reducer(Large,Small)..... Quantity for all connections
 - Drain hose(VP-25 connection)..... 1pc.
 - Hose band..... 1pc.
 - Tie band..... 1pcs.

- Note 1. Suspension bolt($\phi 10$), washer(M10), and nut(M10) prepare in the field.
2. Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)
3. Can't use singleness. (MAIN BC CONTROLLER is necessary.)



Detail of Y section



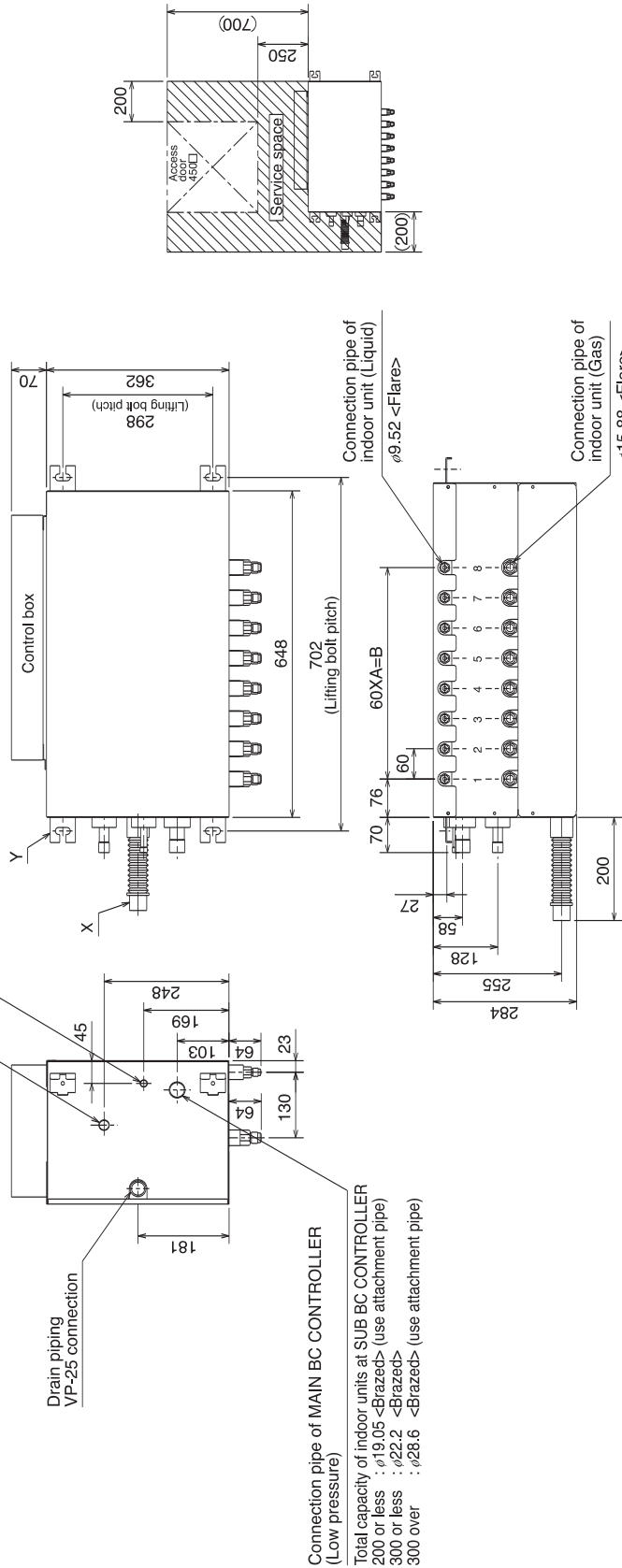
Detail of X section

Connection pipe of MAIN BC CONTROLLER (Liquid)

Total capacity of indoor units at SUB BC CONTROLLER
300 or less : $\phi 9.52$ <Brazed>
300 over : $\phi 12.7$ <Brazed> (use attachment pipe)

Connection pipe of MAIN BC CONTROLLER (High pressure)

Total capacity of indoor units at SUB BC CONTROLLER
200 or less : $\phi 15.88$ <Brazed> (use attachment pipe)
200 over : $\phi 19.05$ <Brazed>



| | A | B |
|--------------|---|-----|
| CMB-P104V-GB | 3 | 180 |
| CMB-P108V-GB | 7 | 420 |

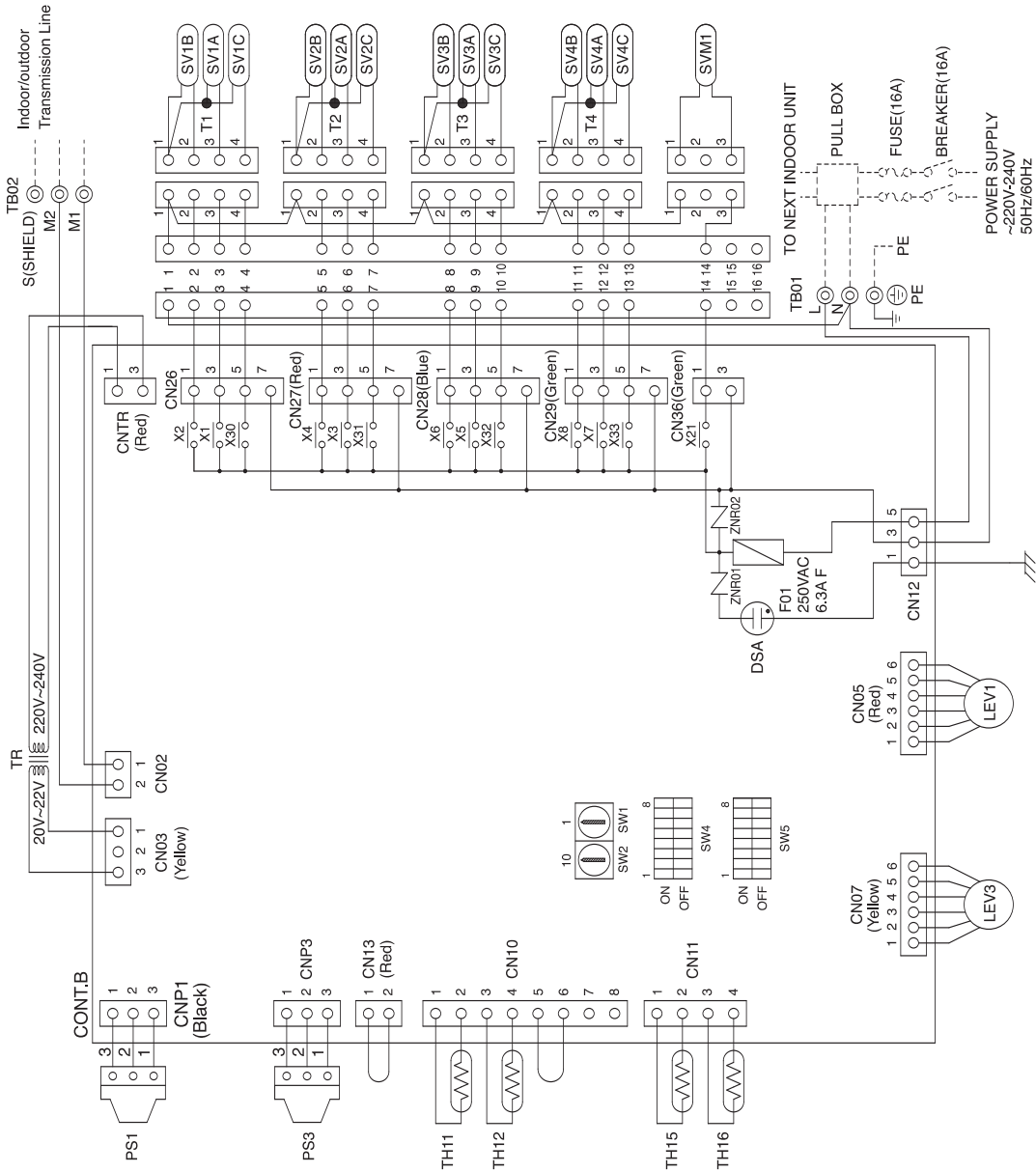
CMB-P104V-G

Drw. : cmb-p104v-g-W656-841

Symbol explanation

| Symbol | Name |
|---------------|-----------------------------------|
| TR | Transformer |
| TH11,12,15,16 | Thermistor sensor |
| LEV1,3 | Expansion valve |
| PS1,3 | Pressure sensor |
| CONT.B | Circuit board |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for Transmission) |
| SV1~4A,B,C | Solenoid valve |
| SVM1 | Solenoid valve |
| T1~4 | Terminal |
| F01 | Fuse AC250V 6.3AF |

Note:1. TB02 is transmission terminal block.
 Never connect power line to it.
 2. The initial set values of switch on CONT.B are as follows.
 SW1:0
 SW2:0



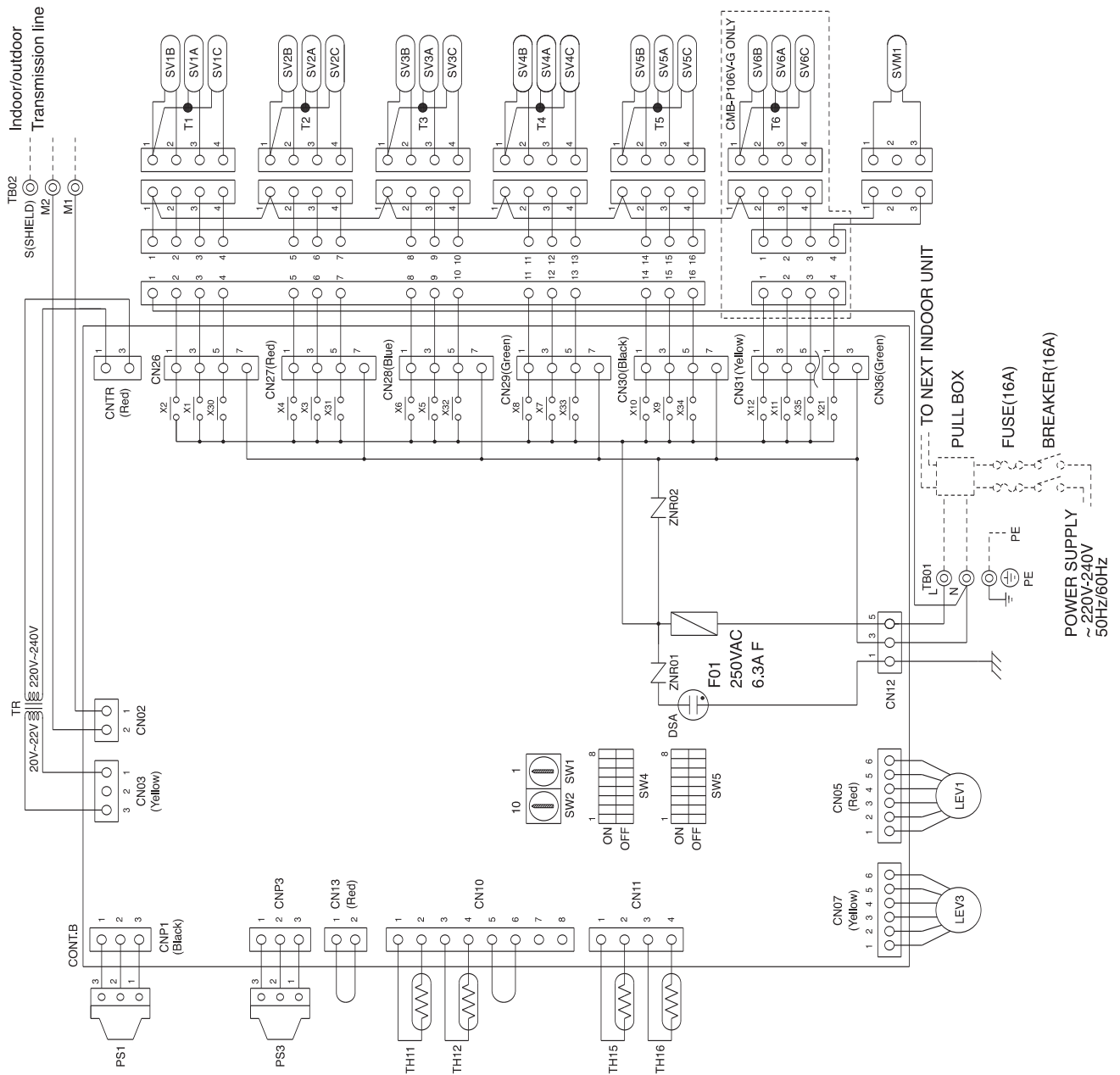
CMB-P105,106V-G

Drw. : cmb-p105-106v-g-W656-842

Symbol explanation

| Symbol | Name |
|---------------|-----------------------------------|
| TR | Transformer |
| TH11,12,15,16 | Thermistor sensor |
| LEV1,3 | Expansion valve |
| PS1,3 | Pressure sensor |
| CONT.B | Circuit board controller |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for transmission) |
| SV1~6A,B,C | Solenoid valve |
| SVM1 | Solenoid valve |
| T1~6 | Terminal |
| F01 | Fuse AC250V 6.3A F |

Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



A
B
C
D
E
F
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H
I
J
V₄
V₆
BC

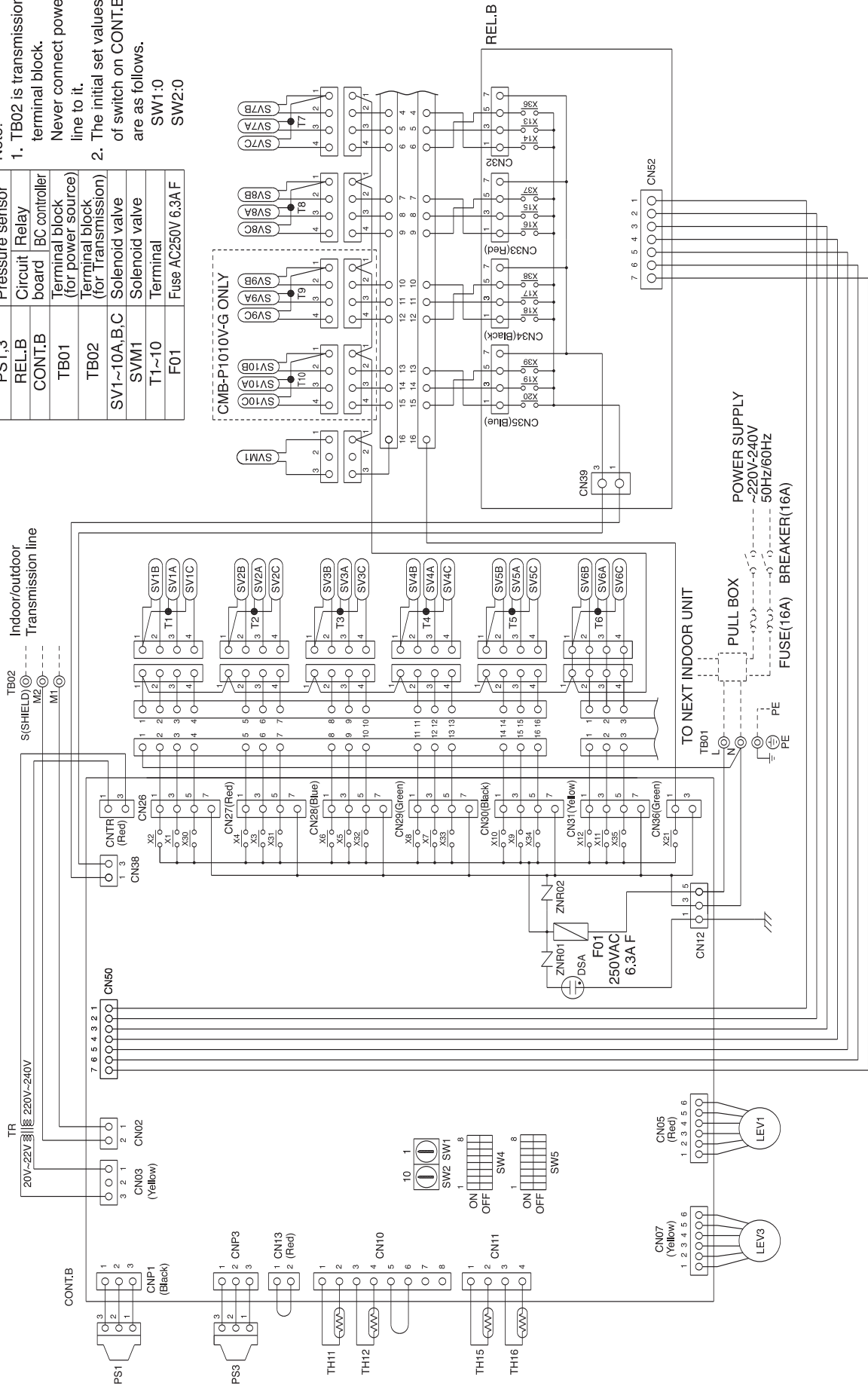
CMB-P108,1010V-G

Drw. : cmb-p108-1010v-g-W656-843

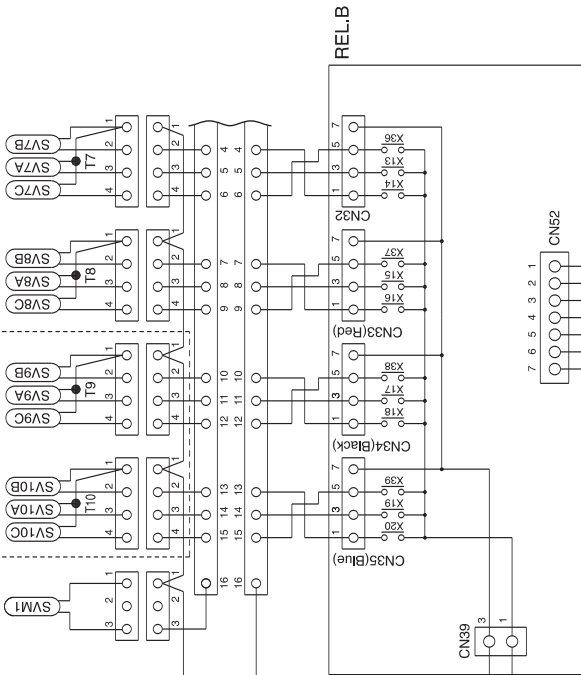
Symbol explanation

| Symbol | Name |
|---------------|-----------------------------------|
| TR | Transformer |
| TH11,12,15,16 | Thermistor sensor |
| LEV1,3 | Expansion valve |
| PS1,3 | Pressure sensor |
| REL.B | Circuit Relay |
| CONT.B | BC controller board |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for Transmission) |
| SV1~10A,B,C | Solenoid valve |
| SVM1 | Solenoid valve |
| T1~10 | Terminal |
| F01 | Fuse AC250V 6.3A F |

- Note:
- TB02 is transmission terminal block. Never connect power line to it.
 - The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



CMB-P1010V-G ONLY



POWER SUPPLY
~220V-240V
50Hz/60Hz
FUSE(16A) BREAKER(16A)

TO NEXT INDOOR UNIT

PULL BOX

TO NEXT INDOOR UNIT

TO NEXT INDOOR UNIT

TO NEXT INDOOR UNIT

TO NEXT INDOOR UNIT

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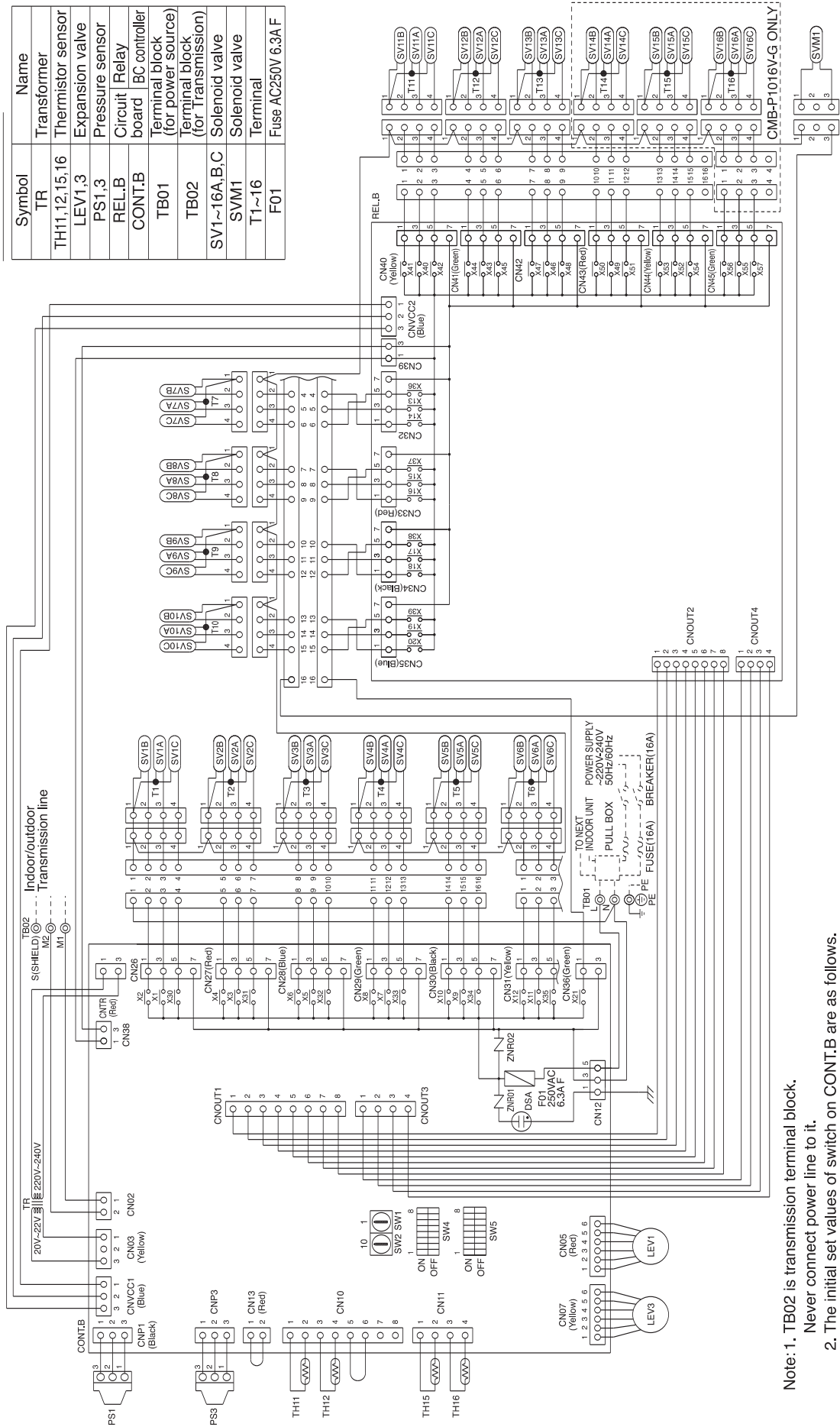
TO NEXT INDOOR UNIT

CMB-P1013,1016V-G

Draw. : cmb-p1013-1016v-g-W656-844

Symbol explanation

| Symbol | Name |
|---------------|-----------------------------------|
| TR | Transformer |
| TH11,12,15,16 | Thermistor sensor |
| LEV1,3 | Expansion valve |
| PS1,3 | Pressure sensor |
| RELB | Circuit Relay |
| CONT.B | BC controller board |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for Transmission) |
| SV1~16A,B,C | Solenoid valve |
| SVM1 | Solenoid valve |
| T1~16 | Terminal |
| F01 | Fuse AC250V 6.3A F |



Note: 1. TB02 is transmission terminal block.
Never connect power line to it.

2. The initial set values of switch on CONT.B are as follows.

- SW1:0
- SW2:0

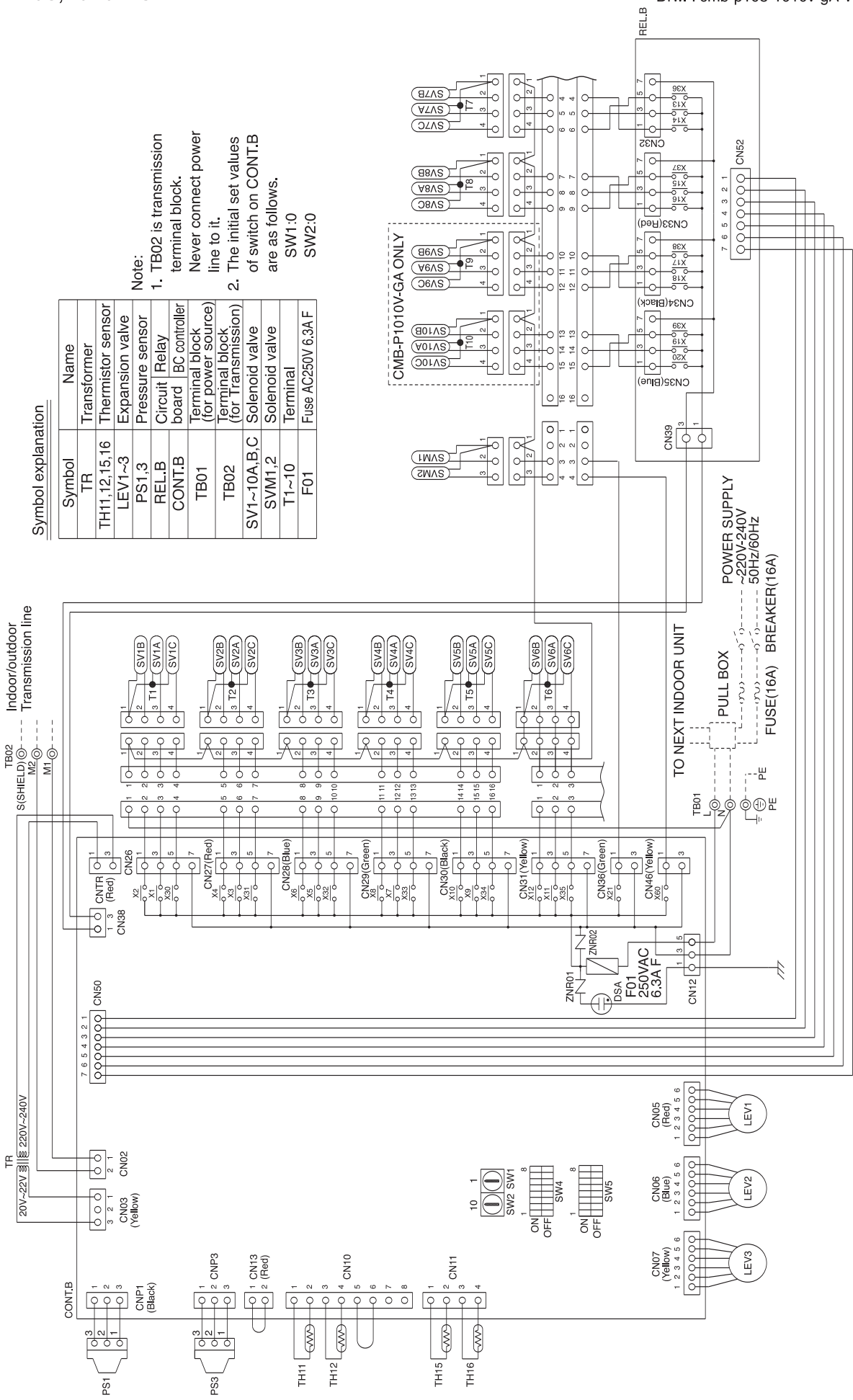
CMB-P108,1010V-GA

Draw. : cmb-p108-1010v-gA-W656-845

Symbol explanation

| Symbol | Name |
|---------------|-----------------------------------|
| TR | Transformer |
| TH11,12,15,16 | Thermistor sensor |
| LEV1~3 | Expansion valve |
| PS1,3 | Pressure sensor |
| REL.B | Circuit Relay |
| CONT.B | board BC controller |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for Transmission) |
| SV1~10A,B,C | Solenoid valve |
| SVM1,2 | Solenoid valve |
| T1~10 | Terminal |
| F01 | Fuse AC250V 6.3A F |

Note:
 1. TB02 is transmission terminal block. Never connect power line to it.
 2. The initial set values of switch on CONT.B are as follows.
 SW1:0
 SW2:0



POWER SUPPLY
 ~220V-240V
 50Hz/60Hz
 FUSE(16A) BREAKER(16A)

TO NEXT INDOOR UNIT

PULL BOX

FUSE(16A) BREAKER(16A)

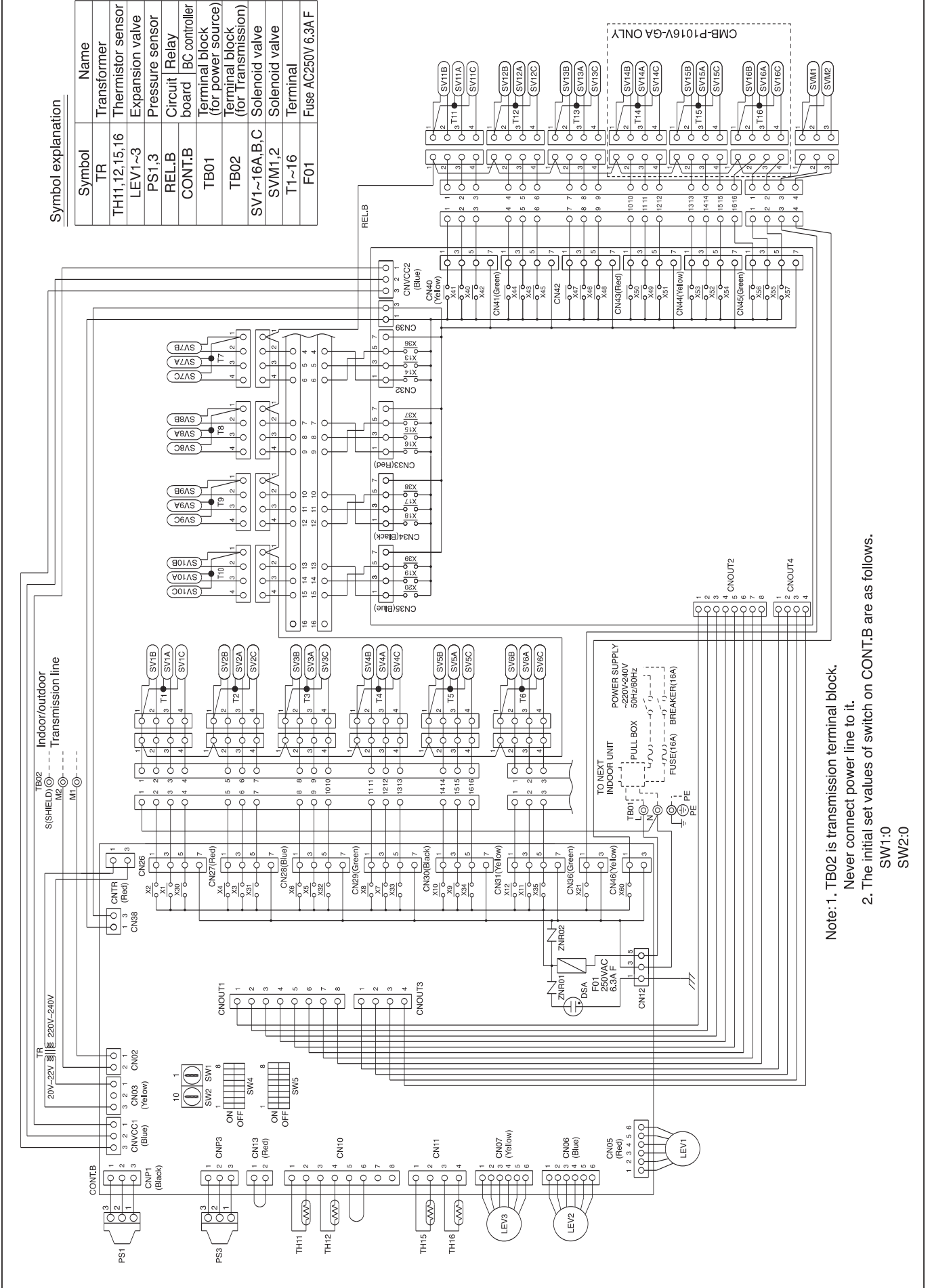
CMB-P1010V-GA ONLY

CMB-P1013,1016V-GA

Draw. : cmb-p1013-1016v-ga-W656-846

Symbol explanation

| Symbol | Name |
|--------------|-----------------------------------|
| TR | Transformer |
| TH1,12,15,16 | Thermistor sensor |
| LEV1~3 | Expansion valve |
| PS1,3 | Pressure sensor |
| REL.B | Circuit Relay |
| CONT.B | board IC controller |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for Transmission) |
| SV1~16A,B,C | Solenoid valve |
| SVM1,2 | Solenoid valve |
| T1~16 | Terminal |
| F01 | Fuse AC250V 6.3A F |



- Note: 1. TB02 is transmission terminal block.
 Never connect power line to it.
 2. The initial set values of switch on CONT.B are as follows.
 SW1:0
 SW2:0

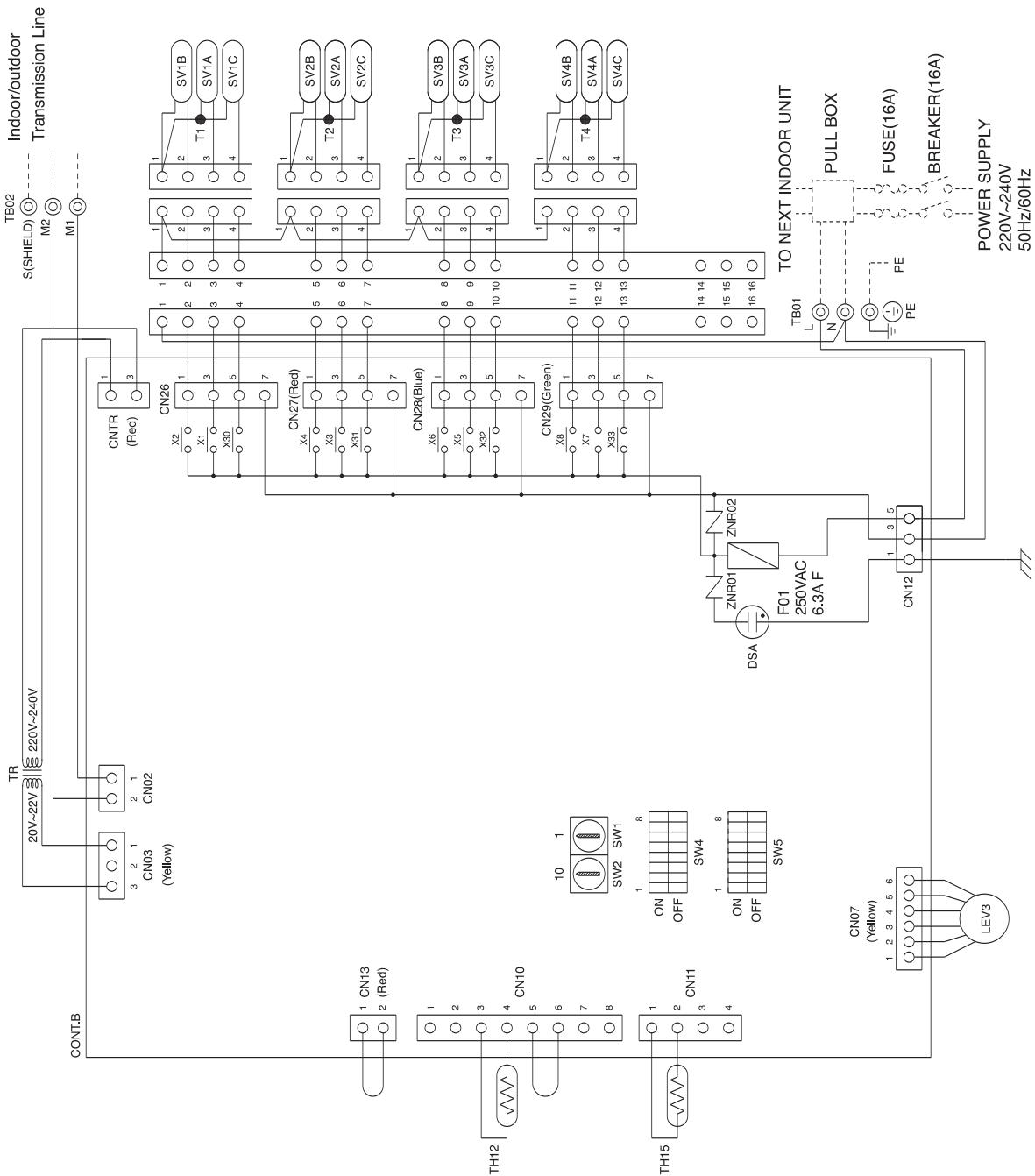
CMB-P104V-GB

Drw. : cmb-p104v-gB-W656-847

Symbol explanation

| Symbol | Name |
|------------|-----------------------------------|
| TR | Transformer |
| TH12,15 | Thermistor sensor |
| LEV3 | Expansion valve |
| CONT.B | Circuit board controller |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for transmission) |
| SV1~4A,B,C | Solenoid valve |
| T1~4 | Terminal |
| F01 | Fuse AC250V 6.3A F |

Note: 1. TB02 is transmission terminal block.
Never connect power line to it.
2. The initial set values of switch on CONT.B are as follows.
SW1:0
SW2:0



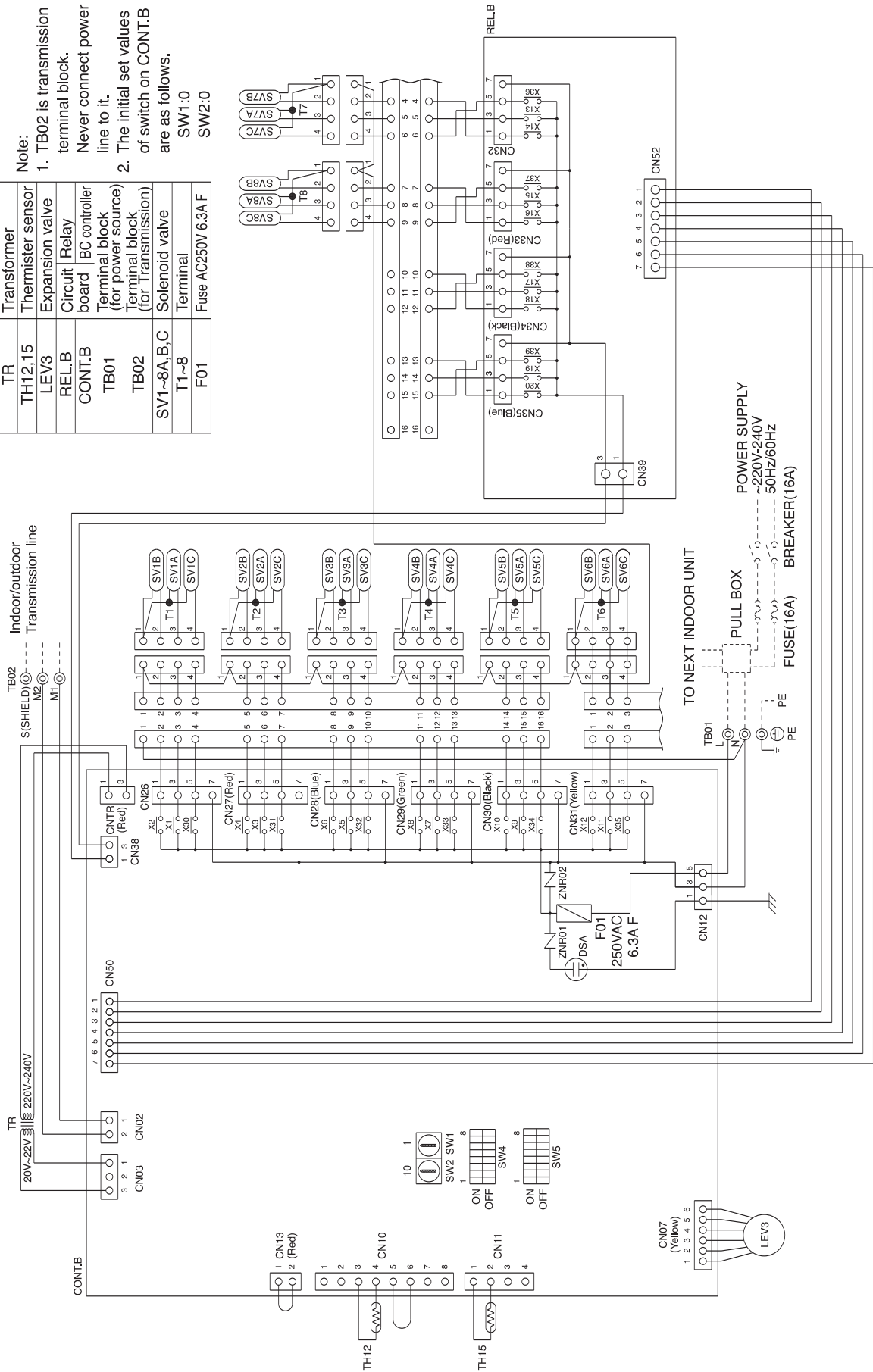
CMB-P108V-GB

Drw. : cmb-p108v-gB-W656-848

Symbol explanation

| Symbol | Name |
|------------|-----------------------------------|
| TR | Transformer |
| TH12,15 | Thermister sensor |
| LEV3 | Expansion valve |
| RELB | Circuit Relay |
| CONT.B | board BC controller |
| TB01 | Terminal block (for power source) |
| TB02 | Terminal block (for Transmission) |
| SV1~8A,B,C | Solenoid valve |
| T1~8 | Terminal |
| F01 | Fuse AC250V 6.3A F |

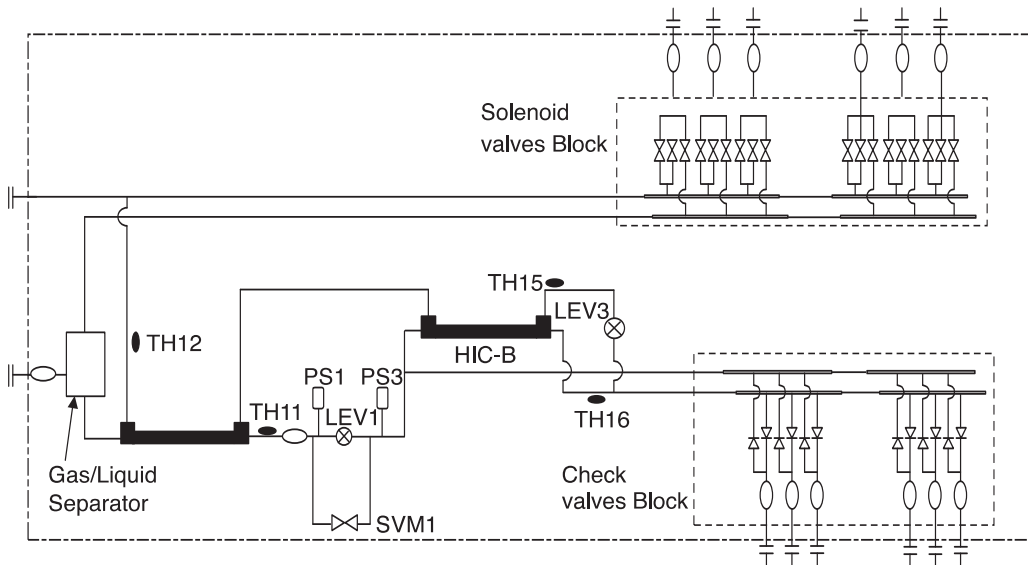
Note:
 1. TB02 is transmission terminal block. Never connect power line to it.
 2. The initial set values of switch on CONT.B are as follows.
 SW1:0
 SW2:0



A
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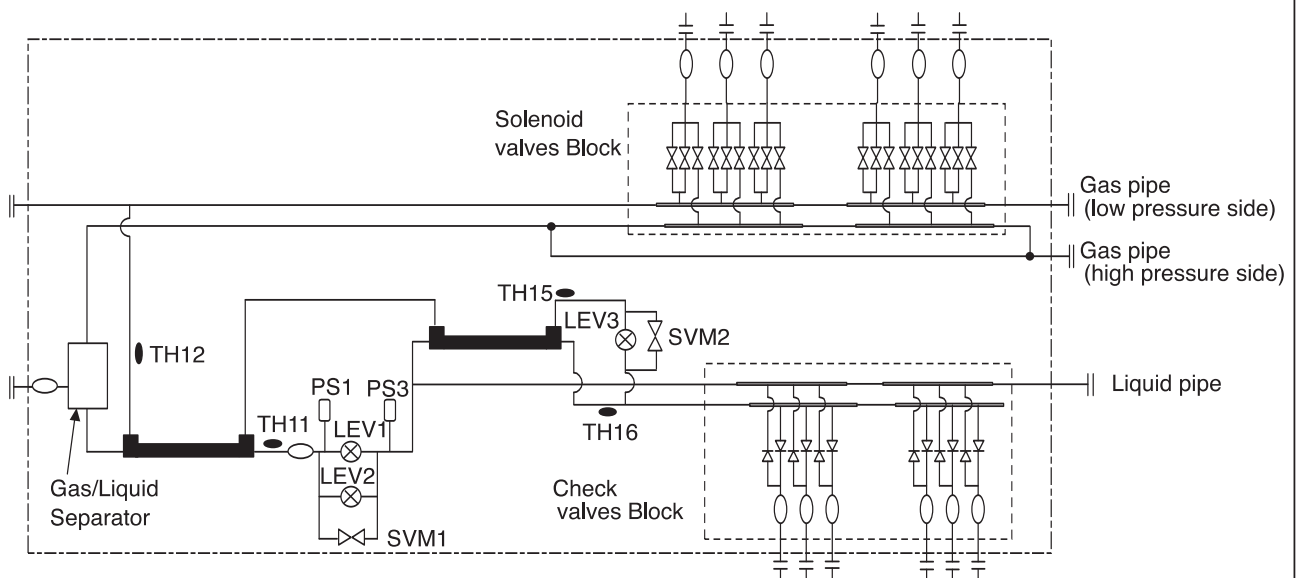
CMB-P104,105,106,108,1010,1013,1016V-G

Ref. : cmb-p-V-G



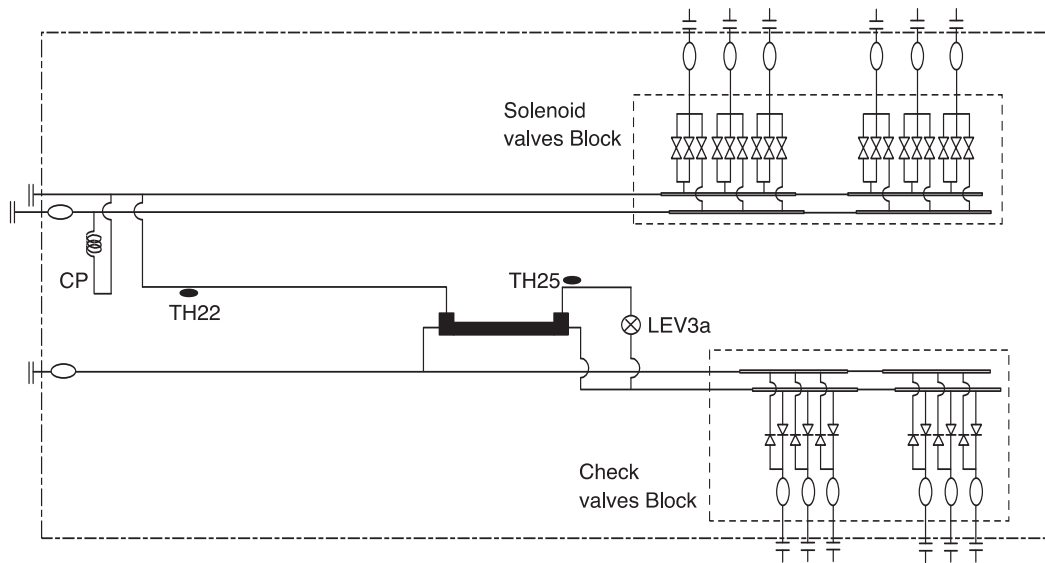
CMB-P108,1010,1013,1016V-GA

Ref. : cmb-p-V-GA



CMB-P104,108V-GB

Drw. : cmb-p-V-GB



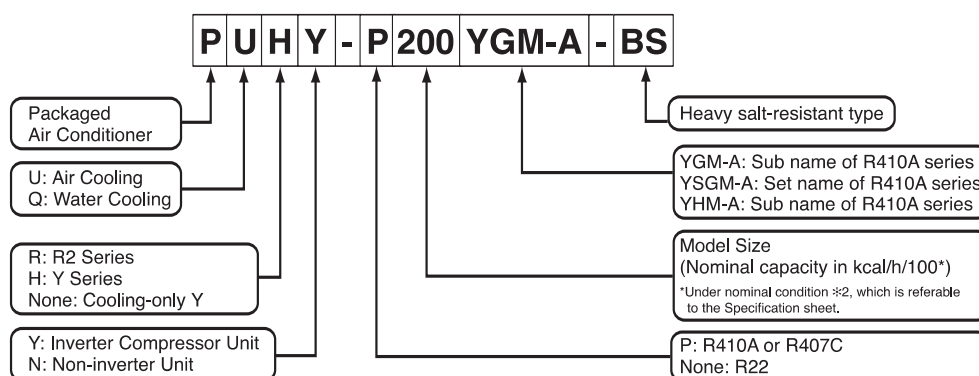
- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- V_a
- V_b
- BC**

CITY MULTI™

OUTDOOR UNITS / HEAT SOURCE UNITS

| | | | |
|-----|--|---------|------------|
| I | GENERAL LINE-UP | ii | |
| II | Y SERIES | Y-1 | Y |
| III | R2 SERIES | R2-1 | R2 |
| IV | WY SERIES | WY-1 | WY |
| V | WR2 SERIES | WR2-1 | WR2 |
| VI | S SERIES | S-1 | S |
| VII | Optional parts for the Outdoor unit / Heat source unit | OU-Op-1 | OP |

Naming Model



Line-up of Outdoor Units of R410A CITY MULTI™

[Air-cooled] Y Heat pump: PUHY-P-Y(S)GM-A(-BS) Y Cooling-only: PUY-P-YGM-A(-BS) R2 Heat recovery: PURY-P-YGM-A(-BS) S Heat pump: PUMY-P-YHM
 [Water-cooled] WY Heat pump: PQHY-P-Y(S)GM-A WR2 Heat recovery: PQRYP-Y(S)GM-A

| | 100 | 125 | 140 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 |
|-------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| | 4HP | 5HP | 6HP | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP |
| Y Heat pump | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Y Cooling-only | | | | | ● | | ● | | | | | | |
| R2 Heat recovery | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| WY Heat pump | | | | ● | ● | | | ● | | ● | | | |
| WR2 Heat recovery | | | | ● | ● | | | ● | | ● | | | |
| S Heat pump | ● | ● | ● | | | | | | | | | | |



Heat pump:
 PUMY-P100YHM
 PUMY-P125YHM
 PUMY-P140YHM



Heat pump:
 PUHY-P450YGM-A(-BS)
 PUHY-P500YGM-A(-BS)
 PUHY-P550YGM-A(-BS)
 PUHY-P600YGM-A(-BS)
 PUHY-P650YGM-A(-BS)

Heat recovery:
 PURY-P450YGM-A(-BS)
 PURY-P500YGM-A(-BS)
 PURY-P550YGM-A(-BS)
 PURY-P600YGM-A(-BS)
 PURY-P650YGM-A(-BS)

4, 5, 6HP

18, 20, 22, 24, 26HP



Heat pump:
 PUHY-P200YGM-A(-BS)
 PUHY-P250YGM-A(-BS)
 PUHY-P300YGM-A(-BS)
 PUHY-P350YGM-A(-BS)

Heat recovery:
 PURY-P200YGM-A(-BS)
 PURY-P250YGM-A(-BS)
 PURY-P300YGM-A(-BS)
 PURY-P350YGM-A(-BS)

Heat pump:
 PUHY-P400YGM-A(-BS)

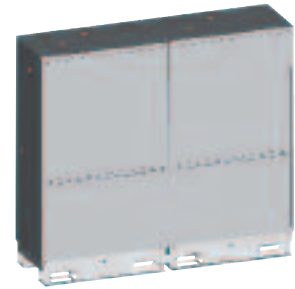
Heat recovery:
 PURY-P400YGM-A(-BS)

Cooling-only:
 PUY-P200YGM-A(-BS)
 PUY-P250YGM-A(-BS)
 PUY-P300YGM-A(-BS)
 PUY-P350YGM-A(-BS)



Heat pump:
 PQHY-P200YGM-A
 PQHY-P250YGM-A

Heat-recovery:
 PQRYP200YGM-A
 PQRYP250YGM-A



Heat pump:
 PQHY-P400YSGM-A
 PQHY-P500YSGM-A

Heat-recovery:
 PQRYP400YSGM-A
 PQRYP500YSGM-A

8, 10, 12, 14, 16HP

8, 10, 16, 20HP

CITY MULTI™ OUTDOOR UNITS

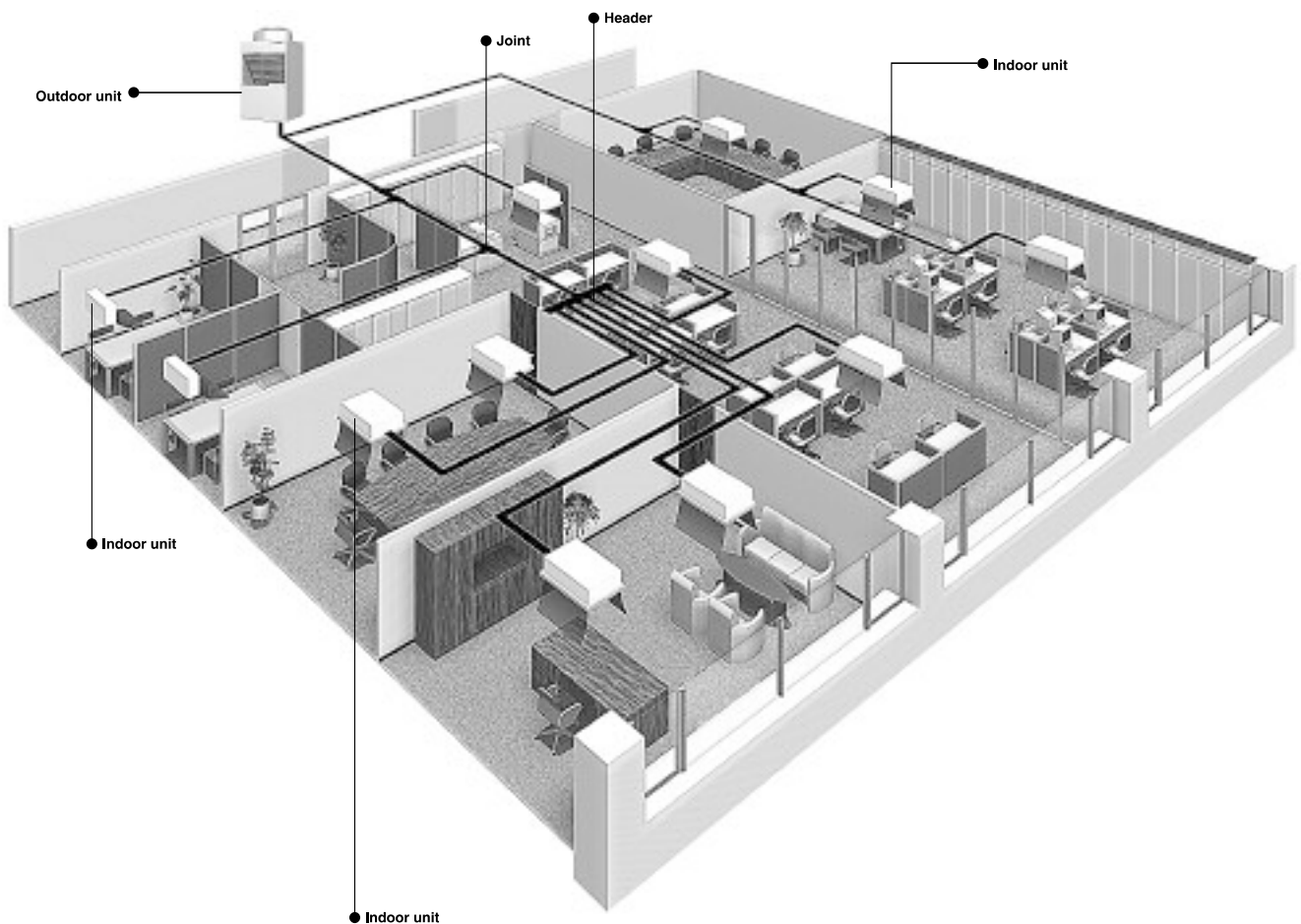
Y SERIES

Y SERIES

1. SPECIFICATIONS
2. CAPACITY TABLES
 - 2.1 Correction by temperature
 - 2.2 Correction by total indoor
 - 2.3 Correction by refrigerant piping length
 - 2.4 Correction at frosting and defrosting
 - 2.5 Temp. range of running
3. SOUND LEVELS
4. EXTERNAL DIMENSIONS
5. ELECTRICAL WIRING DIAGRAMS
6. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS

- Y-2
- Y-9
- Y-9
- Y-12
- Y-15
- Y-18
- Y-18
- Y-19
- Y-21
- Y-27
- Y-29

- Y
- R2
- WY
- WR2
- S
- OP



Heat pump: PUHY-P-Y(S)GM-A(-BS) Cooling-only: PUY-P-YGM-A(-BS)

| | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | |
|----------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP | 34HP | 36HP | 38HP | 40HP | 42HP | 44HP | 46HP | 48HP | 50HP | |
| Y Heat pump | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Y Cooling-only | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PUY-P200YGM-A(-BS) | | PUY-P250YGM-A(-BS) | |
|---|----------------------|------------------------------------|--|---------------------|---|--|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | | 28.0 | |
| | | kcal / h | 19,300 | | 24,100 | |
| | | Btu / h | 76,400 | | 95,500 | |
| | *2 | kcal / h | 20,000 | | 25,000 | |
| | | Power input kW | 6.14 | | 7.72 | |
| | Current input A | | 10.3 / 9.8 / 9.4 | | 13.0 / 12.3 / 11.9 | |
| COP (kW / kW) | | 3.65 | | 3.63 | | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | | | |
| Heating capacity (Nominal) | *3 | kW | - | | - | |
| | | kcal / h | - | | - | |
| | | Btu / h | - | | - | |
| | *3 | Power input kW | - | | - | |
| | | Current input A | - | | - | |
| | COP (kW / kW) | | - | | - | |
| Temp. range of heating | Indoor temp. | D.B. | - | | | |
| | Outdoor temp. | W.B. | - | | | |
| Indoor unit connectable | Total capacity | 50 ~ 130% of outdoor unit capacity | | | | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 13 | | P20 ~ P250 / 1 ~ 16 | | |
| Noise level (measured in anechoic room) | dB <A> | 56 / 56 | | 57 / 57 | | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare | | ø9.52 (ø3/8") Flare | |
| | Gas (Low press.) | mm (in.) | ø19.05 (ø3/4") Brazed | | ø12.7 (ø1/2") Flare, total length >=90m ø22.2 (ø7/8") Brazed | |

| | | | | | | | |
|---------------------------------------|--------------------------------|---|---|--|---|--|--|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | | | |
| External dimension H x W x D | mm | 1,840 x 990 x 840 | | 1,840 x 990 x 840 | | | |
| | in. | 72-1/2" x 39" x 33-1/8" | | 72-1/2" x 39" x 33-1/8" | | | |
| Net weight | kg (lb) | 218 (481) | | 233 (514) | | | |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | | Salt-resistant cross fin & copper tube | | |
| Compressor | Type | Inverter scroll hermetic comp. | | Inverter scroll hermetic comp. | | | |
| | Manufacturer | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | | | | |
| | Starting method | Inverter | | | | | |
| | Motor output kW | 4.7 | | 6.7 | | | |
| | Case heater kW | 0.045 x 1 (240V) | | 0.045 x 1 (240V) | | | |
| | Lubricant | MEL56 | | MEL32 | | | |
| FAN | Air flow rate | m ³ / min | 200 | | 200 | | |
| | | L / s | 3,333 | | 3,333 | | |
| | | cfm | 7,063 | | 7,063 | | |
| | External static press. | 0 Pa (0 mmH ₂ O) | | 0 Pa (0 mmH ₂ O) | | | |
| | Type x Quantity | Propeller fan x 1 | | Propeller fan x 1 | | | |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | | |
| Motor output kW | 0.38 | | 0.38 | | | | |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | | | | |
| Protection | High pressure protection | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | | | | |
| | Inverter circuit (COMP. / FAN) | Over-current protection, Over-heat protection | | | | | |
| | Compressor | Over-heat protection | | | | | |
| | Fan motor | Thermal switch | | | | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | | | | |
| Refrigerant | Type x Original charge | R410A x 7.0 kg (16 lb) | | R410A x 9.5 kg (21 lb) | | | |
| | Control | LEV and HIC circuit | | | | | |
| Drawing | External | YGM-W656-818 1/2 | | | | | |
| | Wiring | YGM-W274-627 | | | | | |
| | Refrigerant circle | YGM-rcd-200-350ygm-c | | | | | |
| Standard attachment | Document | Installation Manual | | | | | |
| | Accessory | Details refer to External Drw YGM- W656-818 1/2 | | | | | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S-G Header : CMY-Y104/108/1010-G | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G | | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

Ref. : Spec_y_p200_250ygm-c

1. SPECIFICATIONS

| Model | | | PUY-P300YGM-A(-BS) | PUY-P350YGM-A(-BS) | |
|---|----------------------|------------------------------------|--|---------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *:1 | kW | 33.5 | 40.0 | |
| | *:1 | kcal / h | 28,800 | 34,400 | |
| | *:1 | Btu / h | 114,300 | 136,500 | |
| | *:2 | kcal / h | 30,000 | 35,000 | |
| | | Power input | kW | 9.57 | 11.39 |
| | | Current input | A | 16.1 / 15.3 / 14.7 | 19.2 / 18.2 / 17.6 |
| COP (kW / kW) | | | 3.50 | 3.51 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | | |
| Heating capacity (Nominal) | *:3 | kW | - | - | |
| | *:3 | kcal / h | - | - | |
| | *:3 | Btu / h | - | - | |
| | | Power input | kW | - | - |
| | | Current input | A | - | - |
| | COP (kW / kW) | | | - | - |
| Temp. range of heating | Indoor temp. | D.B. | - | | |
| | Outdoor temp. | W.B. | - | | |
| Indoor unit connectable | Total capacity | 50 ~ 130% of outdoor unit capacity | | | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 19 | | P20 ~ P250 / 1 ~ 20 | |
| Noise level (measured in anechoic room) | dB <A> | 59 / 59 | | 60 / 60 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare (ø12.7 (ø1/2") Flare, total length >=40m) | | |
| | Gas (Low press.) | mm (in.) | ø22.2 (ø7/8") Braze ø28.58 (ø1-1/8") Braze | | |

| | | | | |
|---------------------------------------|--------------------------------|----------------------|---|-------------------------|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | | 1,840 x 990 x 840 | 1,840 x 990 x 840 |
| | in. | | 72-1/2" x 39" x 33-1/8" | 72-1/2" x 39" x 33-1/8" |
| Net weight | kg (lb) | | 233 (514) | 233 (514) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | | Inverter scroll hermetic comp. | |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter | |
| | Motor output | kW | 8.0 | 9.6 |
| | Case heater | kW | 0.045 x 1 (240V) | 0.045 x 1 (240V) |
| | Lubricant | | MEL32 | |
| FAN | Air flow rate | m ³ / min | 200 | 200 |
| | | L / s | 3,333 | 3,333 |
| | | cfm | 7,063 | 7,063 |
| | External static press. | | 0 Pa (0 mmH ₂ O) | |
| | Type x Quantity | | Propeller fan x 1 | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.38 | 0.38 |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | |
| | Compressor | | Over-heat protection | |
| | Fan motor | | Thermal switch | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | | R410A x 9.5 kg (21 lb) | R410A x 9.5 kg (21 lb) |
| | Control | | LEV and HIC circuit | |
| Drawing | External | | YGM-W656-818 1/2 | |
| | Wiring | | YGMW274-627 | |
| | Refrigerant circle | | YGM-rcd-200-350ygm | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw YGM- W656-818 1/2 | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PUHY-P200YGM-A(-BS) | PUHY-P250YGM-A(-BS) |
|---|----------------------|------------------------------------|--|---------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.0 |
| | *1 | kcal / h | 19,300 | 24,100 |
| | *1 | Btu / h | 76,400 | 95,500 |
| | *2 | kcal / h | 20,000 | 25,000 |
| | Power input | kW | 6.14 | 7.72 |
| | Current input | A | 10.3 / 9.8 / 9.4 | 13.0 / 12.3 / 11.9 |
| COP (kW / kW) | | | 3.65 | 3.63 |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | |
| Heating capacity (Nominal) | *3 | kW | 25.0 | 31.5 |
| | *3 | kcal / h | 21,500 | 27,100 |
| | *3 | Btu / h | 85,300 | 107,500 |
| | Power input | kW | 5.98 | 7.62 |
| | Current input | A | 10.0 / 9.5 / 9.2 | 12.8 / 12.2 / 11.7 |
| | COP (kW / kW) | | | 4.18 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | |
| Indoor unit connectable | Total capacity | 50 ~ 130% of outdoor unit capacity | | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 13 | | P20 ~ P250 / 1 ~ 16 |
| Noise level (measured in anechoic room) | dB <A> | 56 / 56 | | 57 / 57 |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare | |
| | Gas (Low press.) | mm (in.) | ø19.05 (ø3/4") Brazed | |

| | | | | |
|---------------------------------------|--------------------------------|---|---|---|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | 1,840 x 990 x 840 | | 1,840 x 990 x 840 |
| | in. | 72-1/2" x 39" x 33-1/8" | | 72-1/2" x 39" x 33-1/8" |
| Net weight | kg (lb) | 218 (481) | | 233 (514) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | Inverter scroll hermetic comp. | | Inverter scroll hermetic comp. |
| | Manufacturer | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | Inverter | | |
| | Motor output | kW | 4.7 | 6.7 |
| | Case heater | kW | 0.045 x 1 (240V) | |
| | Lubricant | MEL56 | | MEL32 |
| FAN | Air flow rate | m ³ / min | 200 | 200 |
| | | L / s | 3,333 | 3,333 |
| | | cfm | 7,063 | 7,063 |
| | External static press. | 0 Pa (0 mmH ₂ O) | | 0 Pa (0 mmH ₂ O) |
| | Type x Quantity | Propeller fan x 1 | | Propeller fan x 1 |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor |
| Motor output | kW | 0.38 | 0.38 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | |
| Protection | High pressure protection | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit (COMP. / FAN) | Over-current protection, Over-heat protection | | |
| | Compressor | Over-heat protection | | |
| | Fan motor | Thermal switch | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | R410A x 7.0 kg (16 lb) | R410A x 9.5 kg (21 lb) | |
| | Control | LEV and HIC circuit | | |
| Drawing | External | YGM-W656-818 1/2 | | |
| | Wiring | YGM-W274-627 | | |
| | Refrigerant circle | YGM-rcd-200-350ygmhp | | |
| Standard attachment | Document | Installation Manual | | |
| | Accessory | Details refer to External Drw YGM-W656-818 1/2 | | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S-G Header : CMY-Y104/108/1010-G | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|--|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | * Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

Ref. : Spec_y_p200_250ygm

1. SPECIFICATIONS

| Model | | | PUHY-P300YGM-A(-BS) | PUHY-P350YGM-A(-BS) | |
|---|----------------------|------------------------------------|--|---------------------|------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 33.5 | 40.0 | |
| | | kcal / h | 28,800 | 34,400 | |
| | | Btu / h | 114,300 | 136,500 | |
| | *2 | kcal / h | 30,000 | 35,000 | |
| | | Power input kW | 9.57 | 11.39 | |
| | Current input A | 16.1 / 15.3 / 14.7 | | 19.2 / 18.2 / 17.6 | |
| COP (kW / kW) | | 3.50 | | 3.51 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | | |
| Heating capacity (Nominal) | *3 | kW | 37.5 | 45.0 | |
| | | kcal / h | 32,300 | 38,700 | |
| | | Btu / h | 128,000 | 153,500 | |
| | Power input kW | 9.10 | | 11.02 | |
| | Current input A | 15.3 / 14.5 / 14.0 | | 18.6 / 17.6 / 17.0 | |
| | COP (kW / kW) | | 4.12 | | 4.08 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | 50 ~ 130% of outdoor unit capacity | | | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 19 | | P20 ~ P250 / 1 ~ 20 | |
| Noise level (measured in anechoic room) | dB <A> | 59 / 59 | | 60 / 60 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare (ø12.7 (ø1/2") Flare, total length >=40m) | | |
| | Gas (Low press.) | mm (in.) | ø22.2 (ø7/8") Braze ø28.58 (ø1-1/8") Braze | | |

| | | | | |
|---------------------------------------|--------------------------------|---|---|--|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | 1,840 x 990 x 840 | | 1,840 x 990 x 840 |
| | in. | 72-1/2" x 39" x 33-1/8" | | 72-1/2" x 39" x 33-1/8" |
| Net weight | kg (lb) | 233 (514) | | 233 (514) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | Inverter scroll hermetic comp. | | Inverter scroll hermetic comp. |
| | Manufacturer | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | Inverter | | |
| | Motor output kW | 8.0 | | 9.6 |
| | Case heater kW | 0.045 x 1 (240V) | | 0.045 x 1 (240V) |
| | Lubricant | MEL32 | | MEL32 |
| FAN | Air flow rate | m ³ / min | 200 | |
| | | L / s | 3,333 | |
| | | cfm | 7,063 | |
| | External static press. | 0 Pa (0 mmH ₂ O) | | 0 Pa (0 mmH ₂ O) |
| | Type x Quantity | Propeller fan x 1 | | Propeller fan x 1 |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor |
| | Motor output kW | 0.38 | | 0.38 |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | |
| Protection | High pressure protection | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit (COMP. / FAN) | Over-current protection, Over-heat protection | | |
| | Compressor | Over-heat protection | | |
| | Fan motor | Thermal switch | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | R410A x 9.5 kg (21 lb) | | R410A x 9.5 kg (21 lb) |
| | Control | LEV and HIC circuit | | |
| Drawing | External | YGM-W656-818 1/2 | | |
| | Wiring | YGM-W274-627 | | |
| | Refrigerant circle | YGM-rcd-200-350ygmhp | | |
| Standard attachment | Document | Installation Manual | | |
| | Accessory | Details refer to External Drw YGM-W656-818 1/2 | | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
|--|-------------------------------|---------------------------------|-------------------------------|---|
| Indoor : | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| Outdoor : | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| Pipe length : | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PUHY-P400YGM-A(-BS) | PUHY-P450YGM-A(-BS) | |
|---|----------------------|----------|--|-------------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 45.0 | 50.0 | |
| | *1 | kcal / h | 38,700 | 43,000 | |
| | *1 | Btu / h | 153,500 | 170,600 | |
| | *2 | kcal / h | 40,000 | 45,000 | |
| | Power input | | kW | 13.42 | 13.61 |
| | Current input | | A | 22.6 / 21.5 / 20.7 | 22.9 / 21.8 / 21.0 |
| COP (kW / kW) | | | 3.35 | 3.67 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | | |
| Heating capacity (Nominal) | *3 | kW | 50.0 | 56.0 | |
| | *3 | kcal / h | 43,000 | 48,200 | |
| | *3 | Btu / h | 170,600 | 191,100 | |
| | Power input | | kW | 12.43 | 13.86 |
| | Current input | | A | 20.9 / 19.9 / 19.2 | 23.3 / 22.2 / 21.4 |
| | COP (kW / kW) | | | 4.02 | 4.04 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 130% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 22 | P20 ~ P250 / 1 ~ 24 | |
| Noise level (measured in anechoic room) | | dB <A> | 61 / 61 | 60 / 61 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø12.7 (ø1/2") Flare | ø15.88 (ø5/8") Flare | |
| | Gas (Low press.) | mm (in.) | ø28.58 (ø1-1/8") Brazed | ø28.58 (ø1-1/8") Brazed | |

| | | | | | |
|---------------------------------------|--|------------------------------|---|--|------------------|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | |
| External dimension H x W x D | mm | | 1,840 x 1,290 x 840 | 1,840 x 1,990 x 840 | |
| | in. | | 72-1/2" x 50-13/16" x 33-1/8" | 72-1/2" x 78-3/8" x 33-1/8" | |
| Net weight | | kg (lb) | 275 (607) | 455 (1,004) | |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | | |
| Compressor | Type | | Inverter scroll hermetic comp. | Inverter scroll hermetic comp. + Scroll hermetic comp. | |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | | Inverter | | |
| | Motor output | | kW | 9.7 | 6.8 + 5.3 |
| | Case heater | | kW | 0.045 x 1 (240V) | 0.045 x 2 (240V) |
| | Lubricant | | MEL32 | | |
| FAN | Air flow rate | m ³ / min | 240 | 400 | |
| | | L / s | 4,000 | 6,667 | |
| | | cfm | 8,476 | 14,126 | |
| | External static press. | | 0 Pa (0 mmH ₂ O) | | |
| | Type x Quantity | | Propeller fan x 1 | | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | |
| Motor output | | kW | 0.64 | 0.38 x 2 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | | |
| | Compressor | | Over-heat protection | | |
| | Fan motor | | Thermal switch | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | | |
| Refrigerant | Type x Original charge | | R410A x 13.0 kg (29 lb) | R410A x 22.0 kg (49 lb) | |
| | Control | | LEV and HIC circuit | | |
| Drawing | External | | YGM-W656-819 1/2 | YGM-W656-820 1/2 | |
| | Wiring | | YGM-W274-627 | YGM-W274-629 | |
| | Refrigerant circle | | YGM-rcd-400ygmhp | YGM-rcd-450-650ygmhp | |
| Standard attachment | Document | | Installation Manual | | |
| | Accessory | | Details refer to External Drw YGM-W656-819 1/2 | | |
| Optional parts | High static pressure motor : PAC-KBU04MT-F (60 Pa) | | High static pressure motor : PAC-KBU04MT-F (60 Pa) | | |
| | Joint : CMY-Y102S/L-G | | Joint : CMY-Y102S/L-G, CMY-Y202-G1 | | |
| Header : CMY-Y104/108/1010-G | | Header : CMY-Y104/108/1010-G | | | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|--|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | * Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

Ref. : Spec_y_p400_450ygm

1. SPECIFICATIONS

R410A Data G2

| Model | | | PUHY-P500YGM-A(-BS) | PUHY-P550YGM-A(-BS) | |
|---|----------------------|----------|--|------------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *:1 | kW | 56.0 | 63.0 | |
| | *:1 | kcal / h | 48,200 | 54,200 | |
| | *:1 | Btu / h | 191,100 | 215,000 | |
| | *:2 | kcal / h | 50,000 | 55,000 | |
| | Power input | | kW | 15.59 | 17.08 |
| | Current input | | A | 26.3 / 25.0 / 24.0 | 28.8 / 27.3 / 26.4 |
| COP (kW / kW) | | | 3.59 | 3.69 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | | |
| Heating capacity (Nominal) | *:3 | kW | 63.0 | 67.0 | |
| | *:3 | kcal / h | 54,200 | 57,600 | |
| | *:3 | Btu / h | 215,000 | 228,600 | |
| | Power input | | kW | 15.89 | 16.37 |
| | Current input | | A | 26.8 / 25.4 / 24.5 | 27.6 / 26.2 / 25.3 |
| | COP (kW / kW) | | | 3.96 | 4.09 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | -20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 130% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 24 | P20 ~ P250 / 2 ~ 24 | |
| Noise level (measured in anechoic room) | dB <A> | | 60 / 61 | 61 / 62 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| | Gas (Low press.) | mm (in.) | ø28.58 (ø1-1/8") Braze | ø28.58 (ø1-1/8") Braze | |

| | | | | |
|---------------------------------------|--------------------------------|----------------------|---|--|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | | 1,840 x 1,990 x 840 | 1,840 x 1,990 x 840 |
| | in. | | 72-1/2" x 78-3/8" x 33-1/8" | 72-1/2" x 78-3/8" x 33-1/8" |
| Net weight | kg (lb) | | 455 (1,004) | 455 (1,004) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | | Inverter scroll hermetic comp. + Scroll hermetic comp. | Inverter scroll hermetic comp. + Scroll hermetic comp. |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter + Direct | |
| | Motor output | kW | 8.2 + 5.3 | 9.3 + 5.3 |
| | Case heater | kW | 0.045 x 2 (240V) | 0.045 x 2 (240V) |
| | Lubricant | | MEL32 | |
| FAN | Air flow rate | m ³ / min | 400 | 400 |
| | | L / s | 6,667 | 6,667 |
| | | cfm | 14,126 | 14,126 |
| | External static press. | | 0 Pa (0 mmH ₂ O) | |
| | Type x Quantity | | Propeller fan x 2 | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.38 x 2 | 0.38 x 2 |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | |
| | Compressor | | Over-heat protection | |
| | Fan motor | | Thermal switch | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | | R410A x 22.0 kg (49 lb) | R410A x 22.0 kg (49 lb) |
| | Control | | LEV and HIC circuit | |
| Drawing | External | | YGM-W656-820 1/2 | |
| | Wiring | | YGM-W274-629 | |
| | Refrigerant circle | | YGM-rcd-450-650ygmhp | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw YGM-W656-820 1/2 | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G, CMY-Y202-G1 Header : CMY-Y104/108/1010-G | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--------------------------------|---------------------------------|--------------------------------|---|
| Indoor : | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| Outdoor : | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| Pipe length : | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

Ref. : Spec_y_p500_550ygm

1. SPECIFICATIONS

R410A Data G2

| Model | | | PUHY-P600YGM-A(-BS) | PUHY-P650YGM-A(-BS) | |
|---|----------------------|----------|--|-------------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 67.4 | 73.0 | |
| | *1 | kcal / h | 58,000 | 62,800 | |
| | *1 | Btu / h | 230,000 | 249,100 | |
| | *2 | kcal / h | 60,000 | 65,000 | |
| | Power input | | kW | 17.59 | 19.65 |
| | Current input | | A | 29.6 / 28.2 / 27.1 | 33.1 / 31.5 / 30.3 |
| COP (kW / kW) | | | 3.83 | 3.72 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| | | | 0 ~ 43°C (32 ~ 109°F) (When the Outdoor is at a position lower than the Indoors) | | |
| Heating capacity (Nominal) | *3 | kW | 75.0 | 81.5 | |
| | *3 | kcal / h | 64,500 | 70,100 | |
| | *3 | Btu / h | 255,900 | 278,100 | |
| | Power input | | kW | 17.73 | 19.82 |
| | Current input | | A | 29.9 / 28.4 / 27.4 | 33.4 / 31.7 / 30.6 |
| | COP (kW / kW) | | | 4.23 | 4.11 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | -20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 130% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 2 ~ 32 | P20 ~ P250 / 2 ~ 32 | |
| Noise level (measured in anechoic room) | | dB <A> | 61 / 62 | 62 / 62.5 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |
| | Gas (Low press.) | mm (in.) | ø28.58 (ø1-1/8") Brazed | ø28.58 (ø1-1/8") Brazed | |

| | | | | |
|---------------------------------------|--------------------------------|----------------------|---|--|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | | 1,840 x 1,990 x 840 | 1,840 x 1,990 x 840 |
| | in. | | 72-1/2" x 78-3/8" x 33-1/8" | 72-1/2" x 78-3/8" x 33-1/8" |
| Net weight | | kg (lb) | 455 (1,004) | 455 (1,004) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | | Inverter scroll hermetic comp. + Scroll hermetic comp. | Inverter scroll hermetic comp. + Scroll hermetic comp. |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter + Direct | |
| | Motor output | kW | 10.1 + 5.3 | 10.9 + 5.3 |
| | Case heater | kW | 0.045 x 2 (240V) | 0.045 x 2 (240V) |
| | Lubricant | | MEL32 | |
| FAN | Air flow rate | m ³ / min | 400 | 400 |
| | | L / s | 6,667 | 6,667 |
| | | cfm | 14,126 | 14,126 |
| | External static press. | | 0 Pa (0 mmH ₂ O) | |
| | Type x Quantity | | Propeller fan x 2 | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | |
| Motor output | kW | 0.38 x 2 | 0.38 x 2 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | Copper pipe, pipe-in-pipe structure | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | |
| | Compressor | | Over-heat protection | |
| | Fan motor | | Thermal switch | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | | R410A x 22.0 kg (49 lb) | R410A x 22.0 kg (49 lb) |
| | Control | | LEV and HIC circuit | |
| Drawing | External | | YGM-W656-820 1/2 | |
| | Wiring | | YGM-W274-629 | |
| | Refrigerant circle | | YGM-rcd-450-650ygmhp | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw YGM-W656-820 1/2 | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G, CMY-Y202-G1 Header : CMY-Y104/108/1010-G | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|--|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | * Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

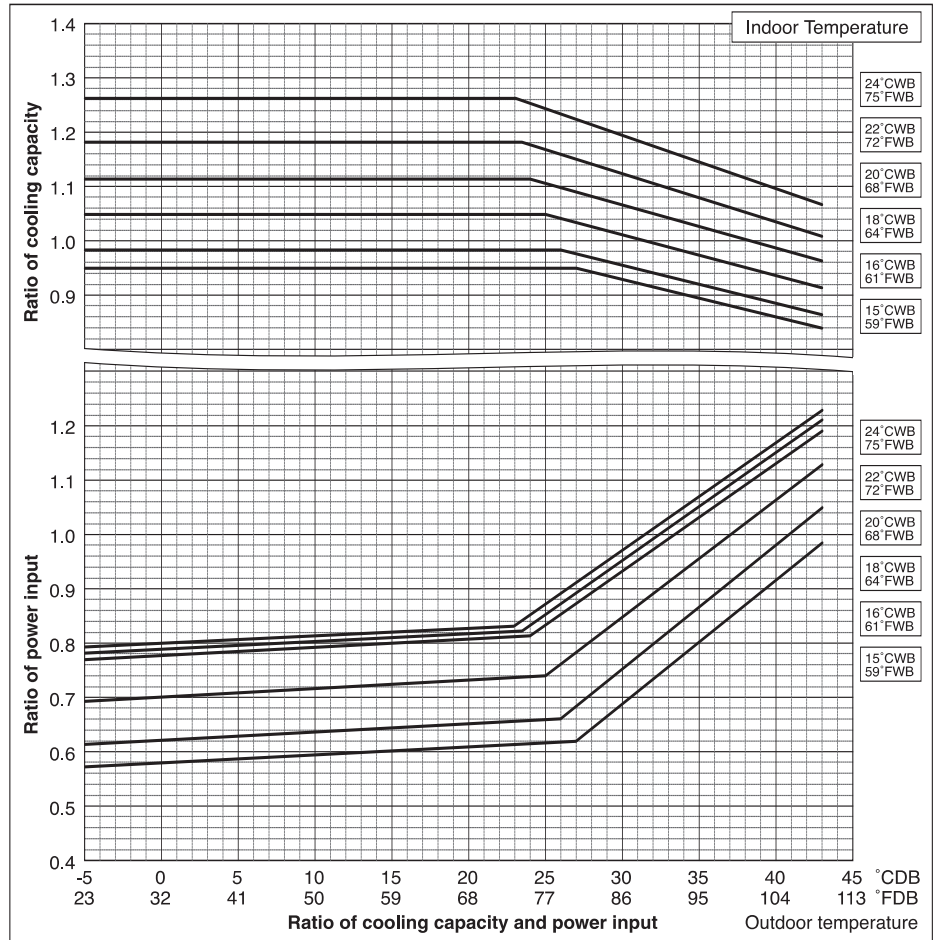
Ref. : Spec_y_p600_650ygm

2. CAPACITY TABLES

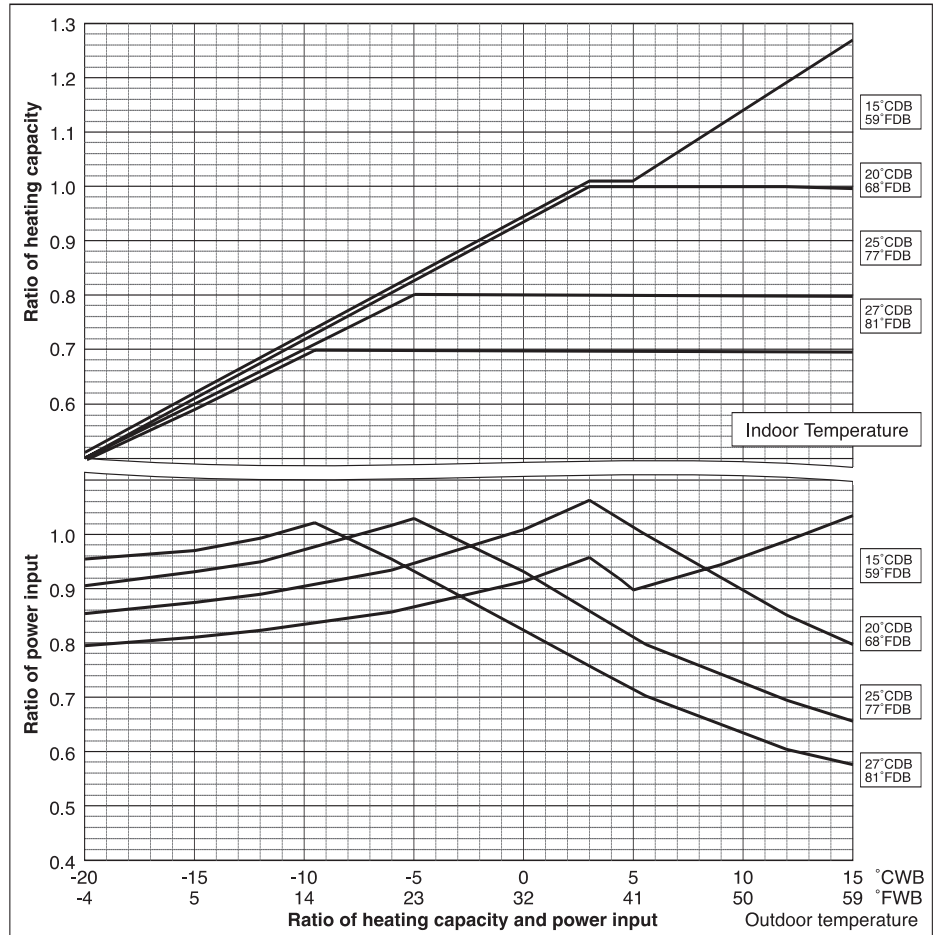
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PUHY- | | P200YGM | P250YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 22.4 | 28.0 |
| | kcal/h | 19,300 | 24,100 |
| | Btu/h | 76,400 | 95,500 |
| Input | kW | 6.14 | 7.72 |



| PUHY- | | P200YGM | P250YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 25.0 | 31.5 |
| | kcal/h | 21,500 | 27,100 |
| | Btu/h | 85,300 | 107,500 |
| Input | kW | 5.98 | 7.62 |



Ref.cbt_p200-250

2. CAPACITY TABLES

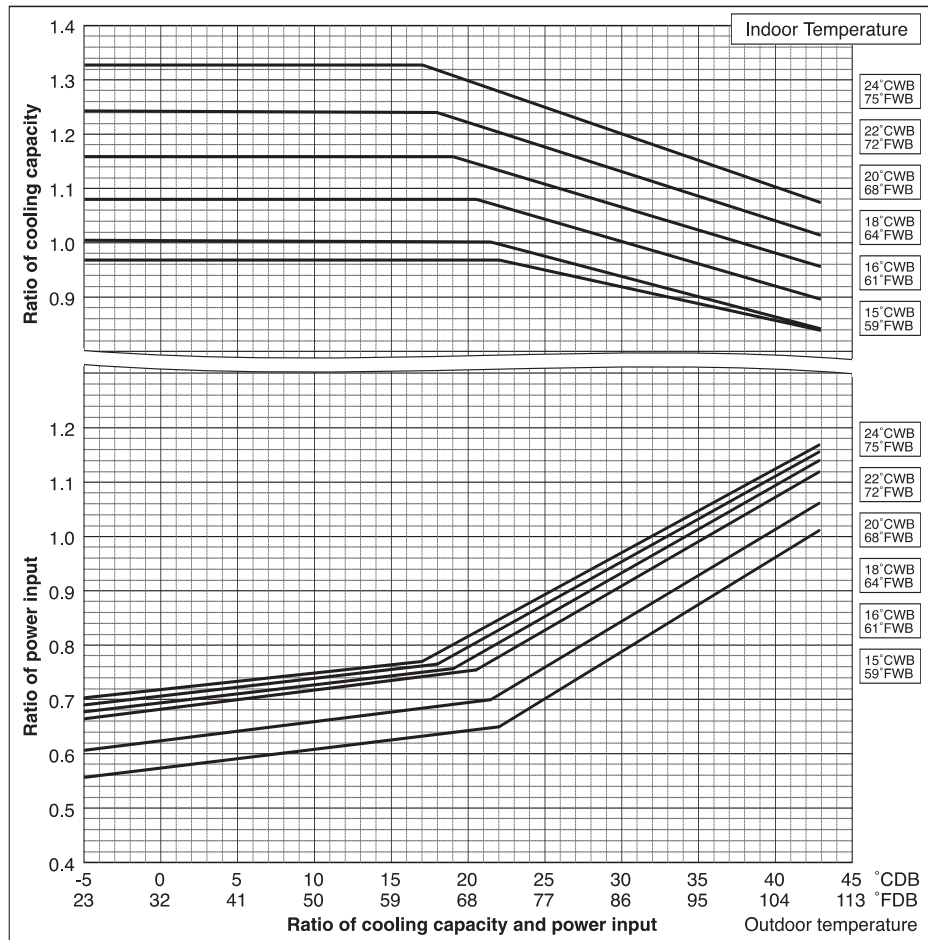
R410A Data G2

2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

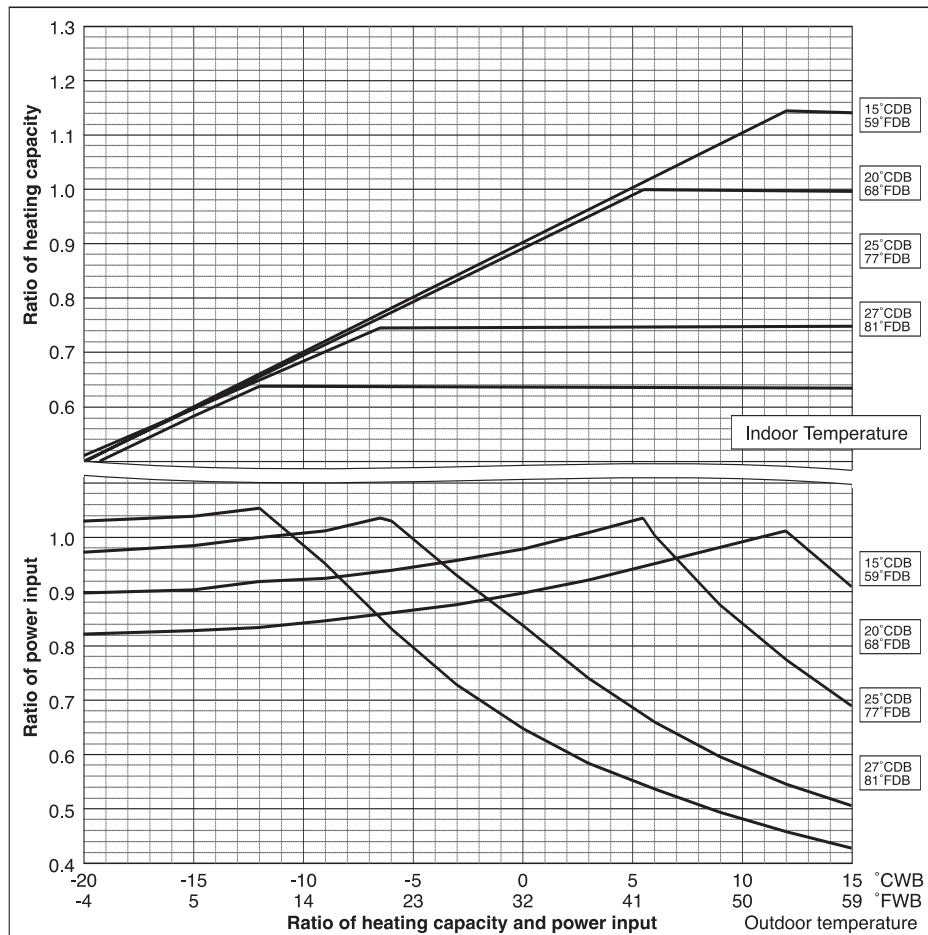
| PUHY- | | P300YGM | P350YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 33.5 | 40.0 |
| | kcal/h | 28,800 | 34,400 |
| | Btu/h | 114,300 | 136,500 |
| Input | kW | 9.57 | 11.39 |

| PUHY- | | P400YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 45.0 |
| | kcal/h | 38,700 |
| | Btu/h | 153,500 |
| Input | kW | 13.42 |



| PUHY- | | P300YGM | P350YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 37.5 | 45.0 |
| | kcal/h | 32,300 | 38,700 |
| | Btu/h | 128,000 | 153,500 |
| Input | kW | 9.10 | 11.02 |

| PUHY- | | P400YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 50.0 |
| | kcal/h | 43,000 |
| | Btu/h | 170,600 |
| Input | kW | 12.43 |



Ref:cbt_p300-400

2. CAPACITY TABLES

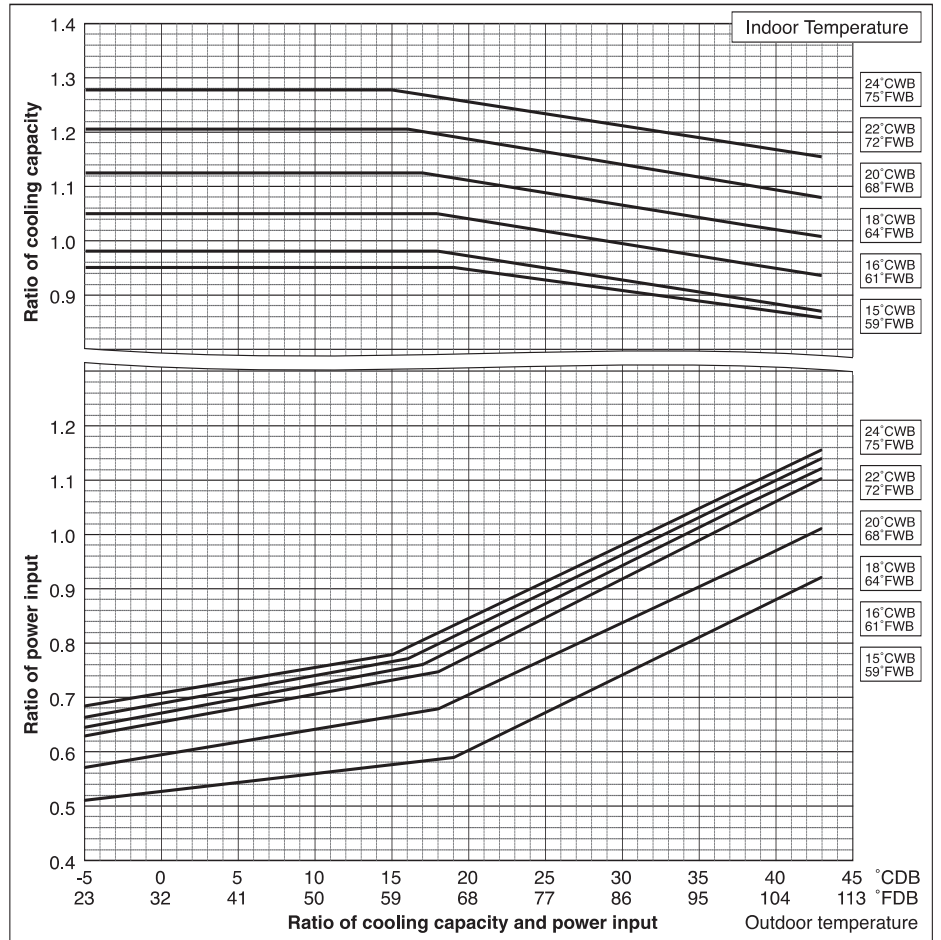
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PUHY- | | P450YGM | P500YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 50.0 | 56.0 |
| | kcal/h | 43,000 | 48,200 |
| | Btu/h | 170,600 | 191,100 |
| Input | kW | 13.61 | 15.59 |

| PUHY- | | P550YGM | P600YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 63.0 | 67.4 |
| | kcal/h | 54,200 | 58,000 |
| | Btu/h | 215,000 | 230,000 |
| Input | kW | 17.08 | 17.59 |

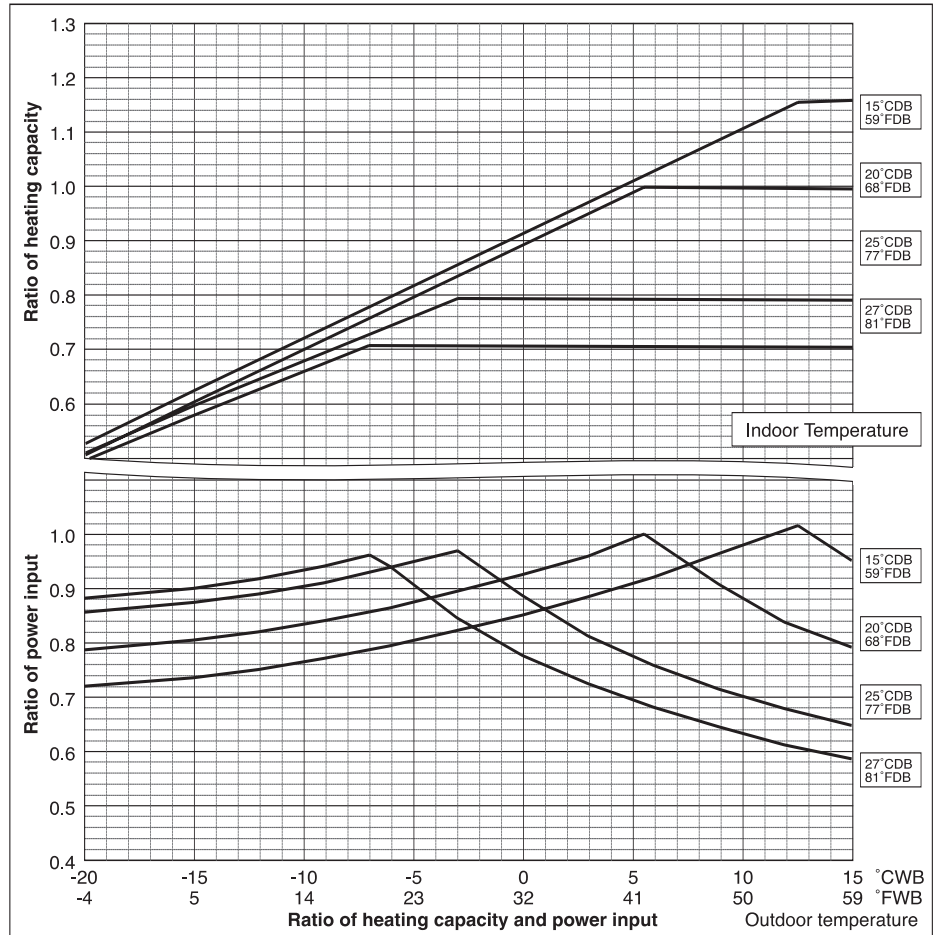
| PUHY- | | P650YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 73.0 |
| | kcal/h | 62,800 |
| | Btu/h | 249,100 |
| Input | kW | 19.65 |



| PUHY- | | P450YGM | P500YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 56.0 | 63.0 |
| | kcal/h | 48,200 | 54,200 |
| | Btu/h | 191,100 | 215,000 |
| Input | kW | 13.86 | 15.89 |

| PUHY- | | P550YGM | P600YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 67.0 | 75.0 |
| | kcal/h | 57,600 | 64,500 |
| | Btu/h | 228,600 | 255,900 |
| Input | kW | 16.37 | 17.73 |

| PUHY- | | P650YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 81.5 |
| | kcal/h | 70,100 |
| | Btu/h | 278,100 |
| Input | kW | 19.82 |



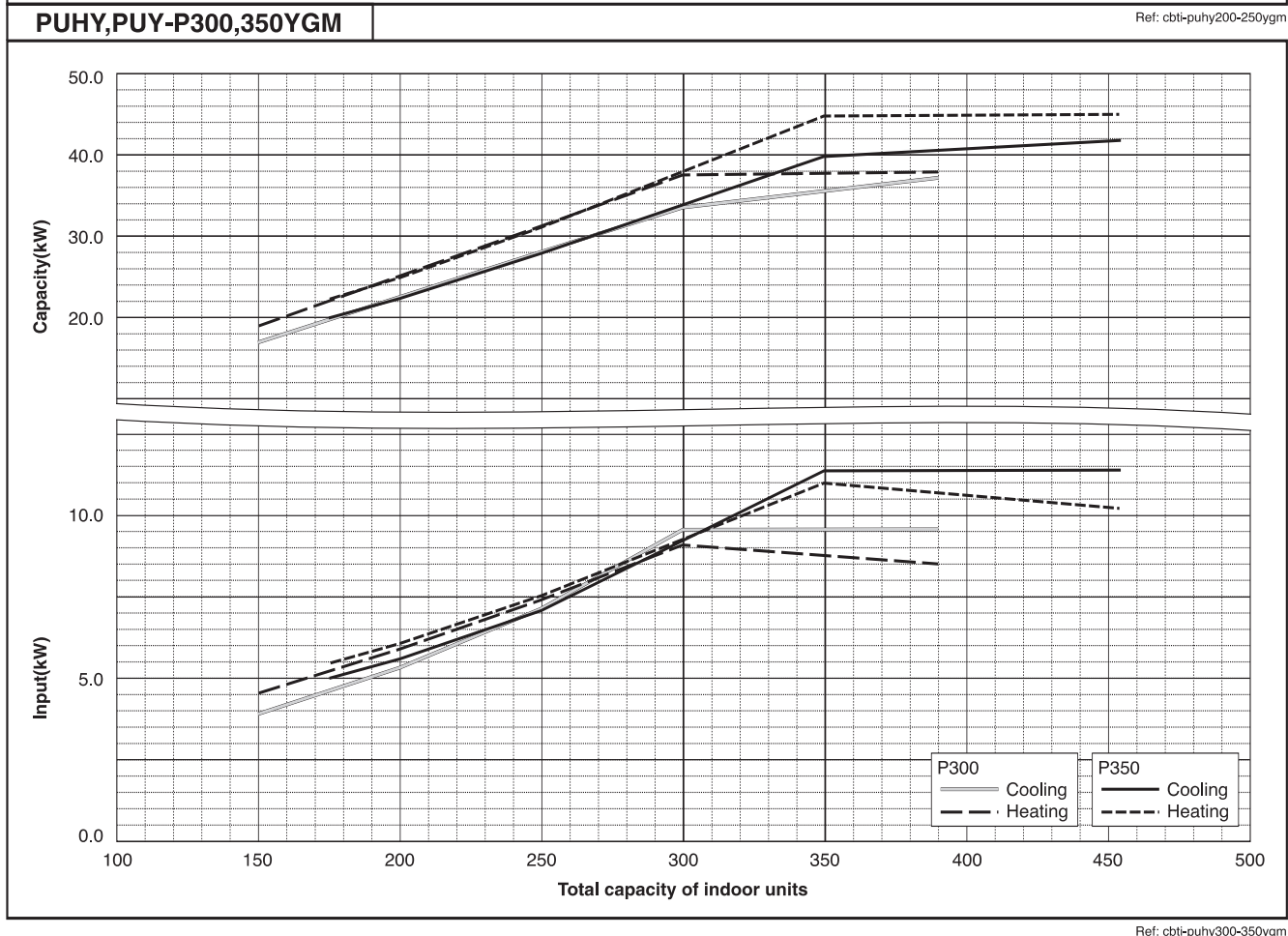
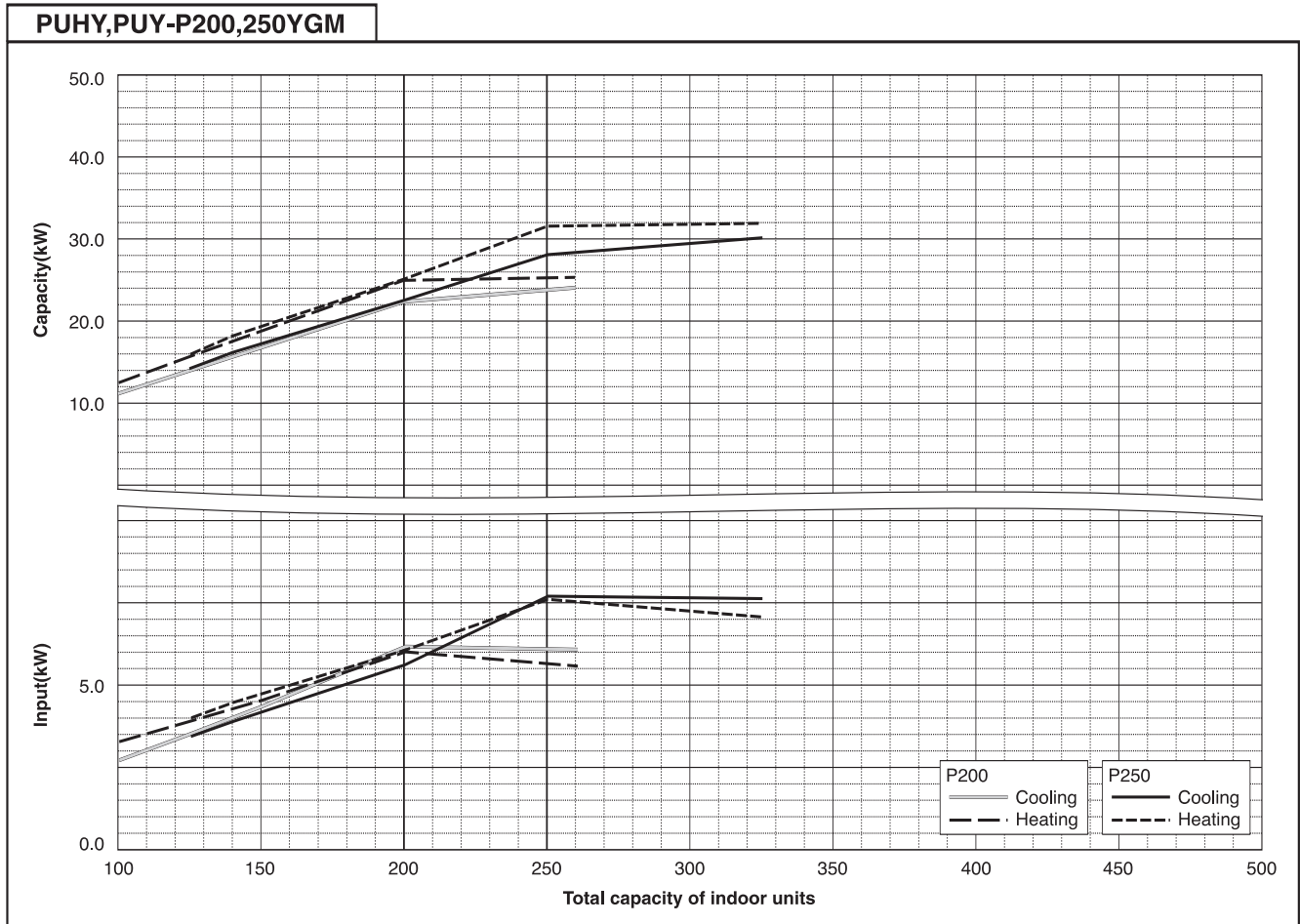
Ref.cbt_p450-650

2. CAPACITY TABLES

R410A Data G2

2-2. Correction by total indoor

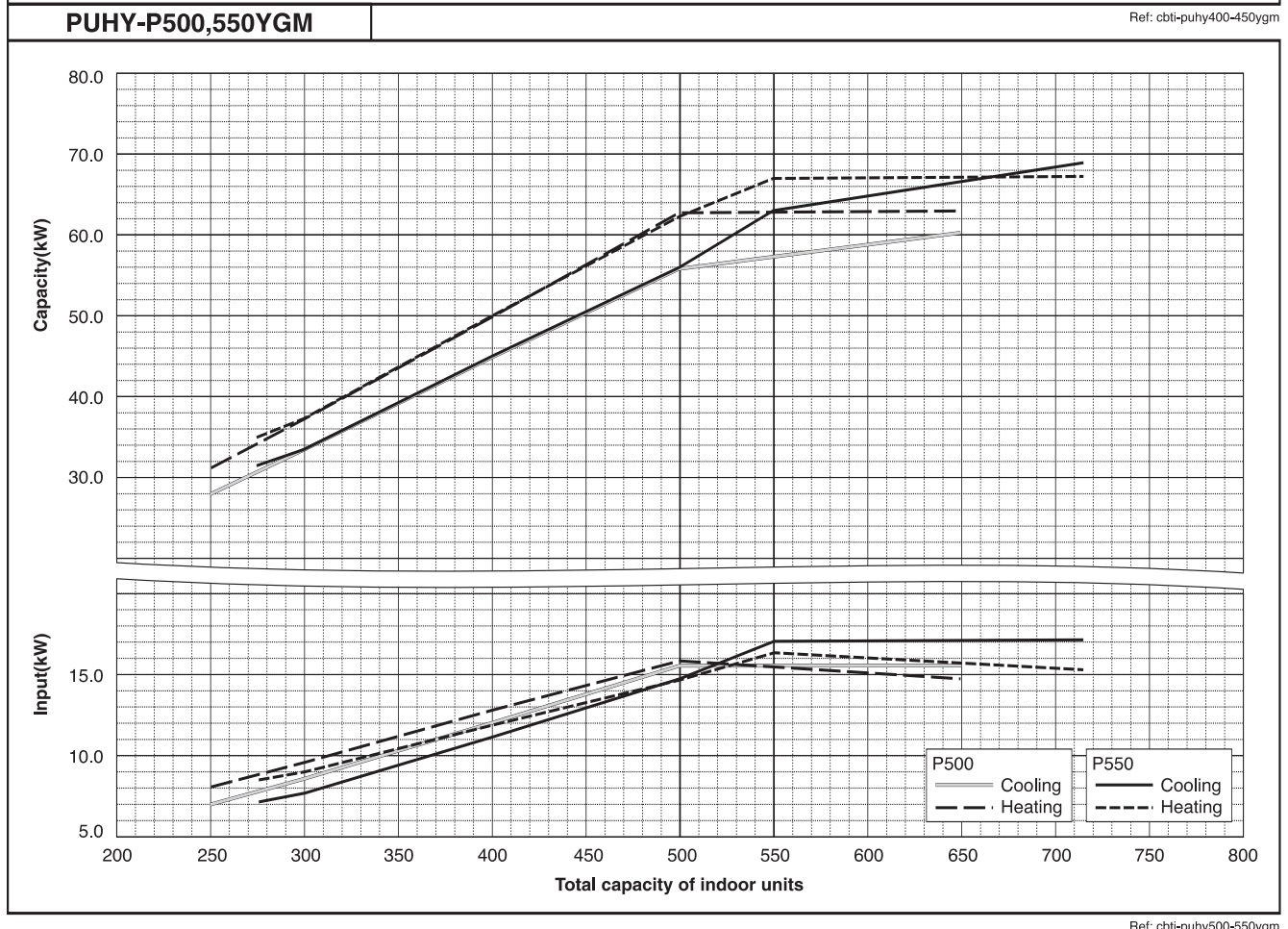
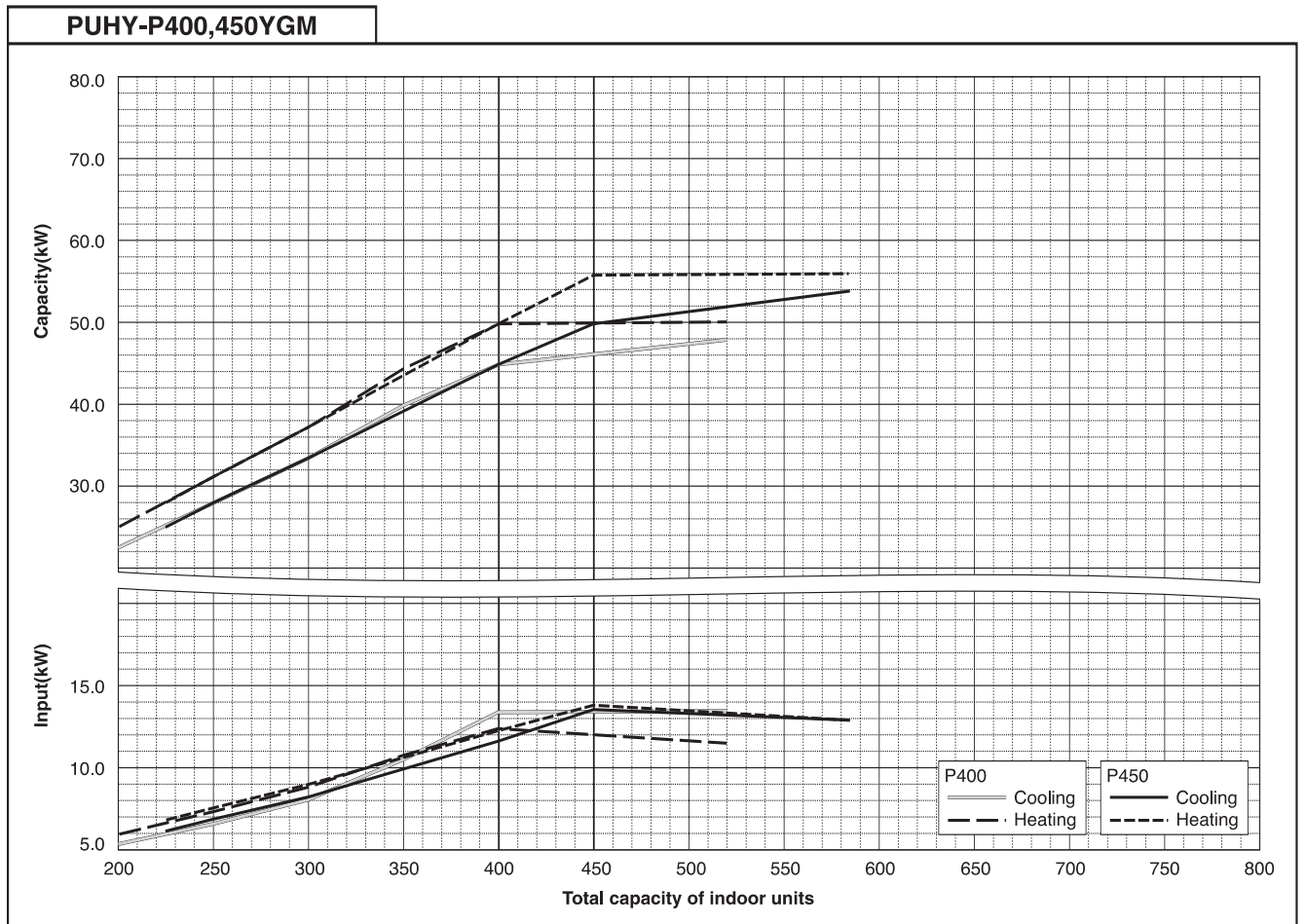
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



2. CAPACITY TABLES

2-2. Correction by total indoor

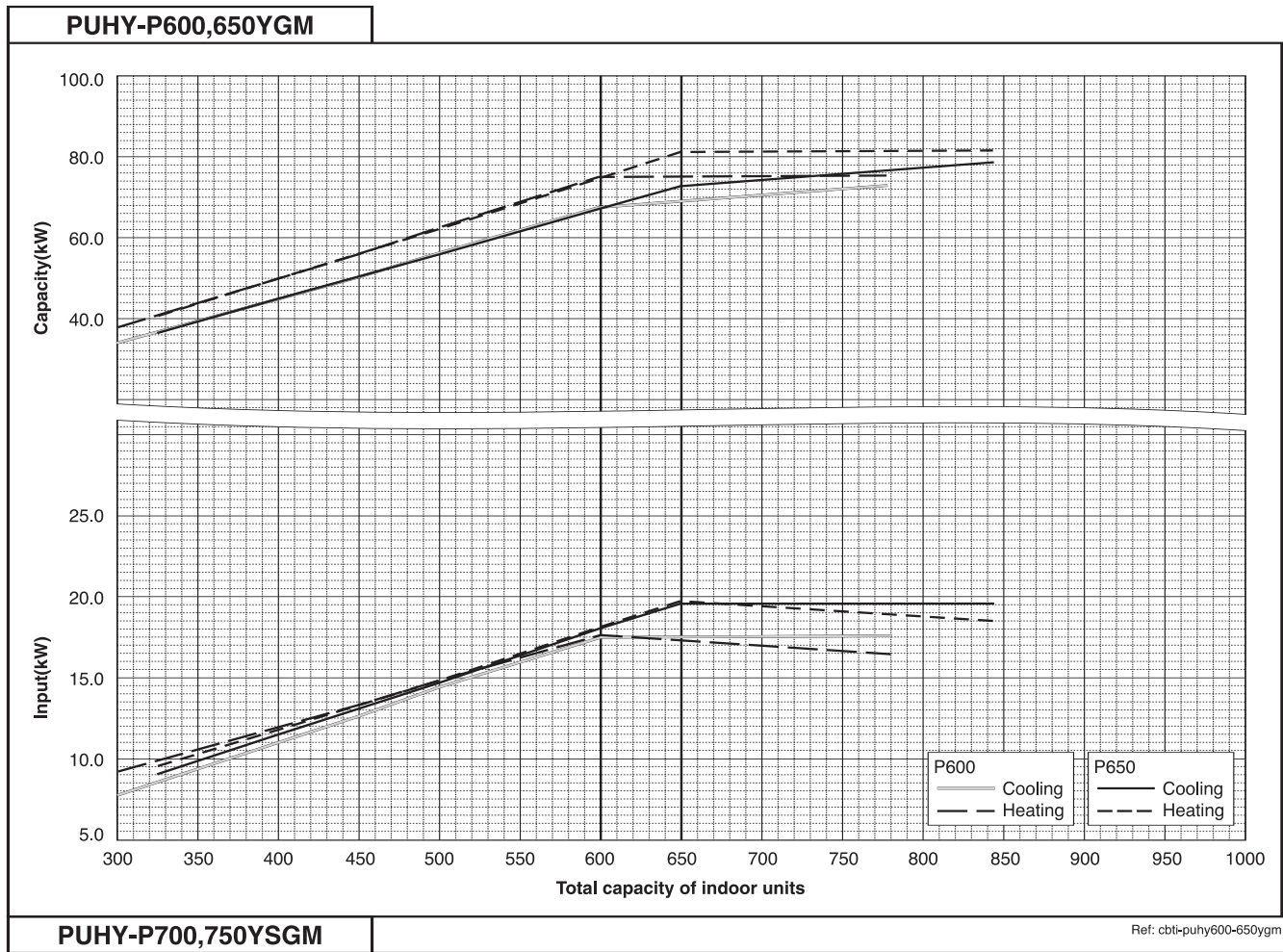
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



2. CAPACITY TABLES

2-2. Correction by total indoor

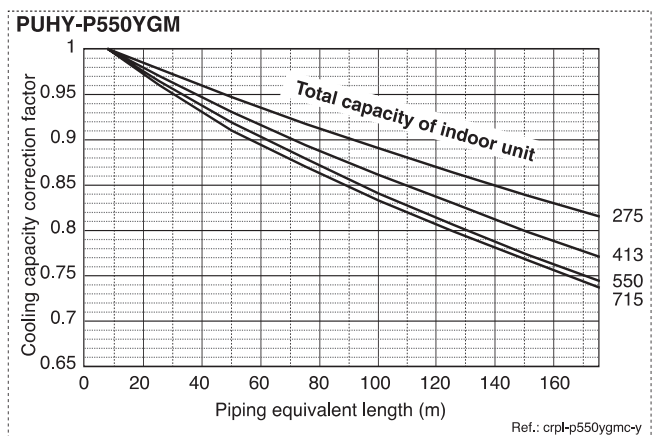
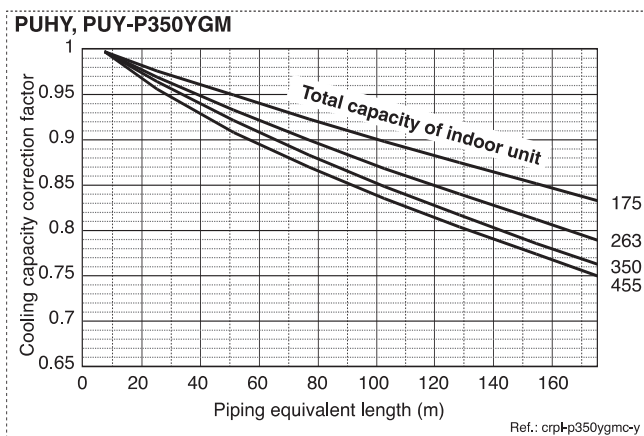
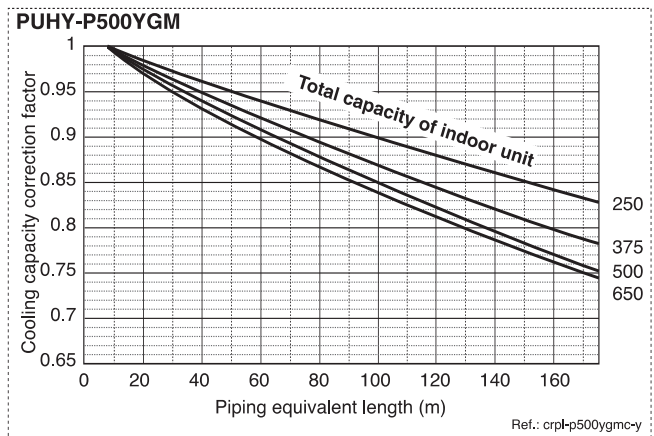
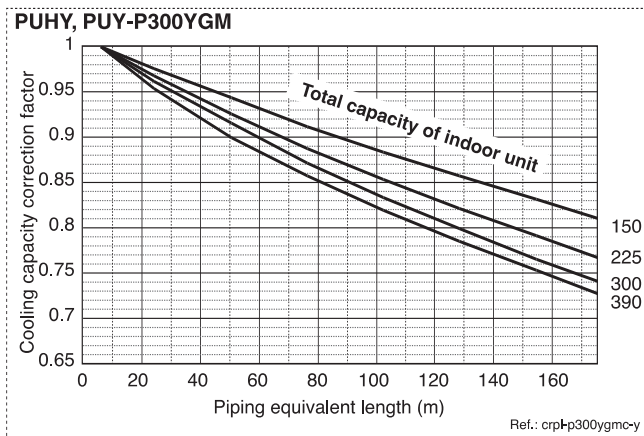
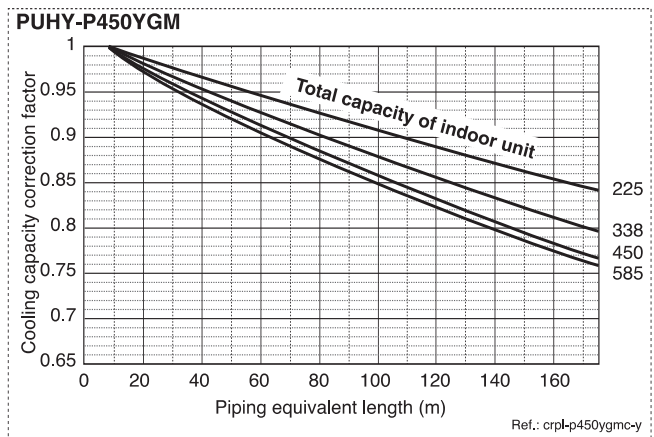
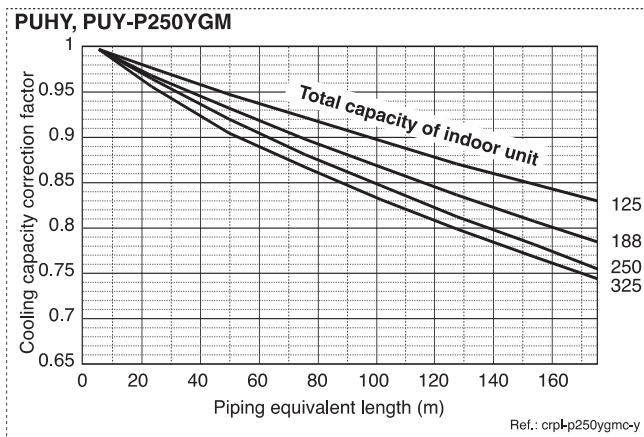
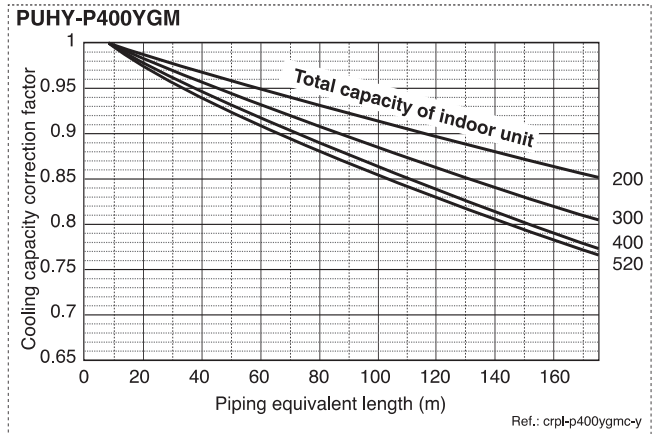
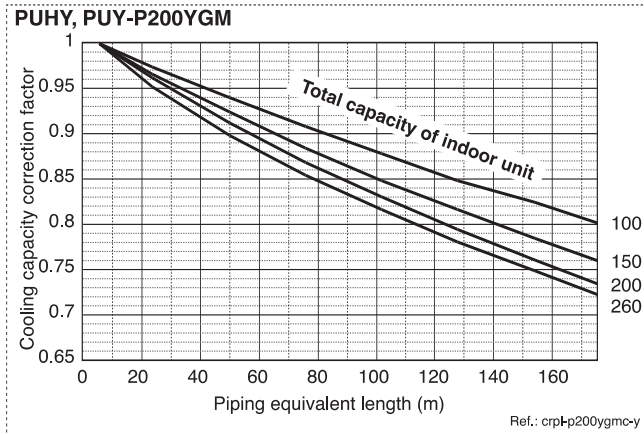
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

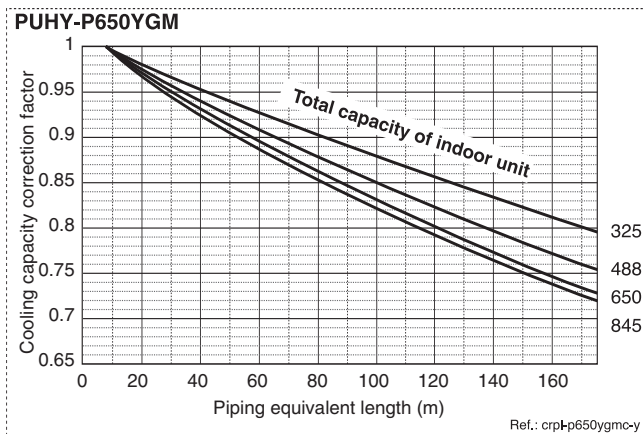
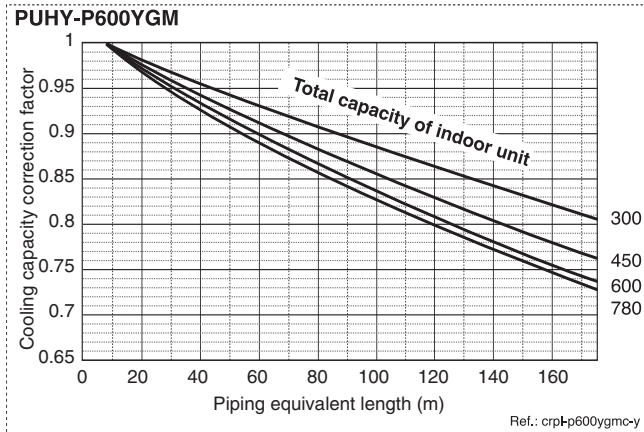
2-3a. Cooling capacity correction



2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

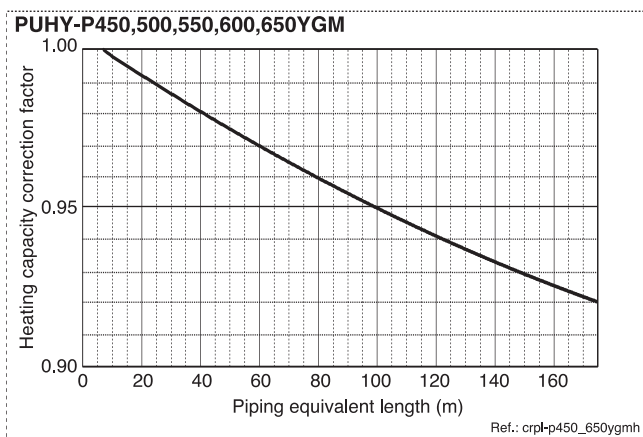
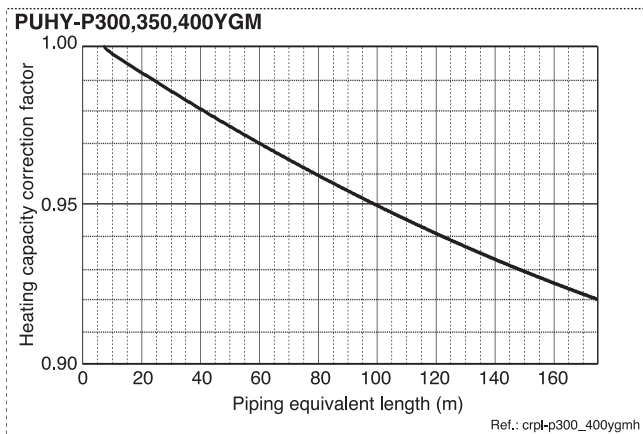
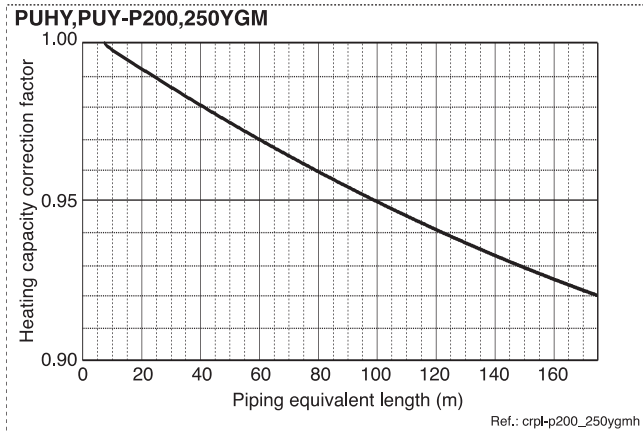
2-3a. Cooling capacity correction



2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

2-3b. Heating capacity correction



2-3c. How to obtain the equivalent length of piping

- 1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m
- 2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m
- 3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

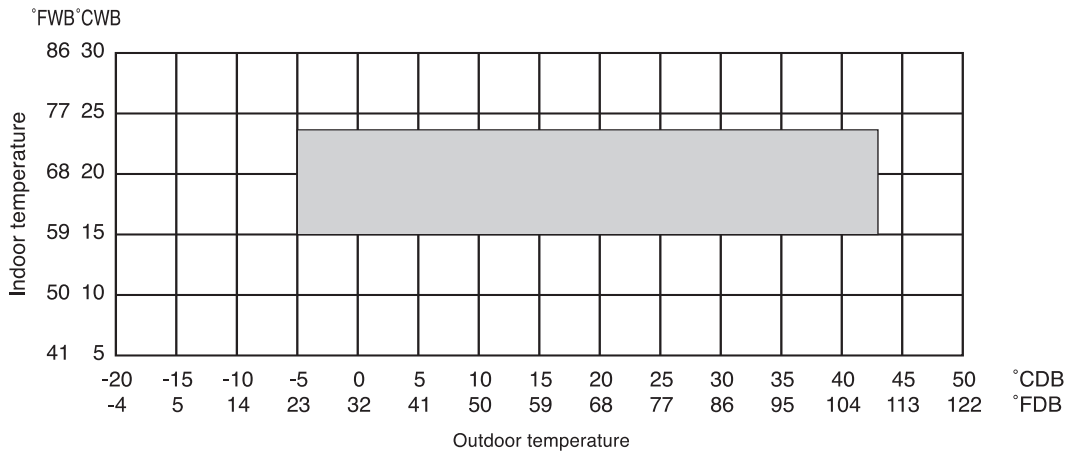
Due to frosting at the outdoor heat exchanger and the automatic defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor at frosting and defrosting

| Outdoor inlet air temp. °C | 6 | 4 | 2 | 1 | 0 | -2 | -4 | -6 | -8 | -10 | -20 |
|----------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Outdoor inlet air temp. °F | 43 | 39 | 36 | 34 | 32 | 28 | 25 | 21 | 18 | 14 | -4 |
| PUHY,PUY,PURY-P200,250YGM | 1.0 | 0.95 | 0.84 | 0.83 | 0.83 | 0.87 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY,PUY,PURY-P300YGM | 1.0 | 0.93 | 0.82 | 0.80 | 0.82 | 0.86 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 |
| PUHY,PUY,PURY-P350YGM | 1.0 | 0.93 | 0.85 | 0.83 | 0.84 | 0.86 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 |
| PUHY,PURY-P400YGM | 1.0 | 0.95 | 0.90 | 0.87 | 0.88 | 0.89 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY,PURY-P450,500YGM | 1.0 | 0.98 | 0.89 | 0.86 | 0.89 | 0.90 | 0.92 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY,PURY-P550,600,650YGM | 1.0 | 0.94 | 0.87 | 0.86 | 0.87 | 0.88 | 0.90 | 0.90 | 0.93 | 0.93 | 0.93 |

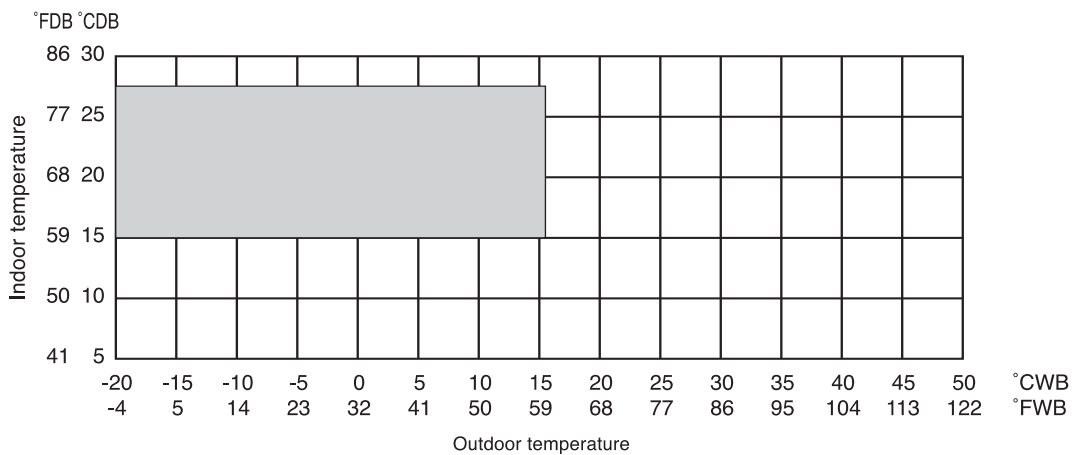
2-5. Temp. range of running

• Cooling



* The operation temperature of outdoor unit is limited into 0~43°CDB (32~109°FDB) when the outdoor unit is at a position lower than the indoor units.

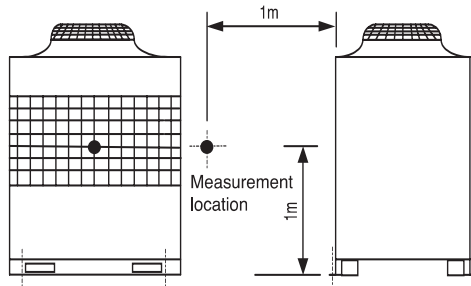
• Heating



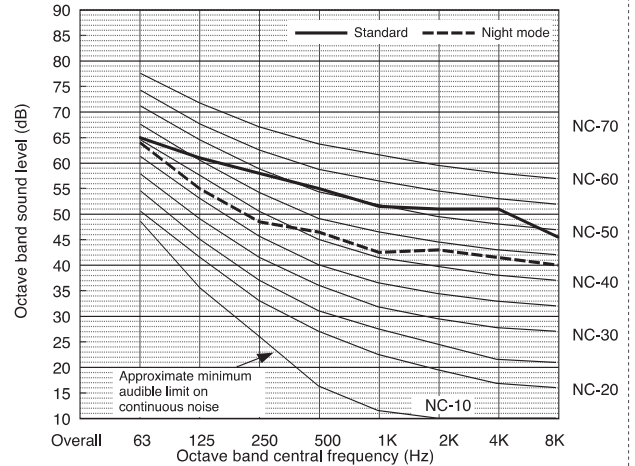
Ref.: tr-ygm-y

3. SOUND LEVELS

Measurement condition
PUY-P200,250,300,350YGM
PUHY-P200,250,300,350,400YGM



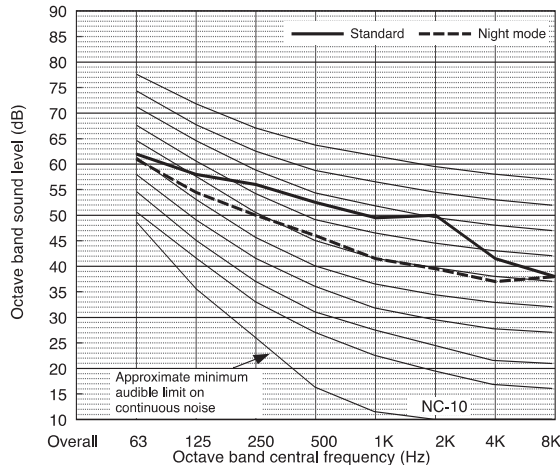
Sound level of PUHY, PUY-P300YGM-A(-BS) Ref. : P300YGM-WYNB0-3618



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 65 | 61 | 58 | 55 | 51.5 | 51 | 51 | 45.5 | 59 | |
| | 60Hz | 64 | 61 | 58 | 55 | 51.5 | 51 | 51 | 45.5 | 59 | |
| Night mode | | 50/60Hz | 64 | 55 | 48.5 | 46.5 | 42.5 | 43 | 41.5 | 40 | 51 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

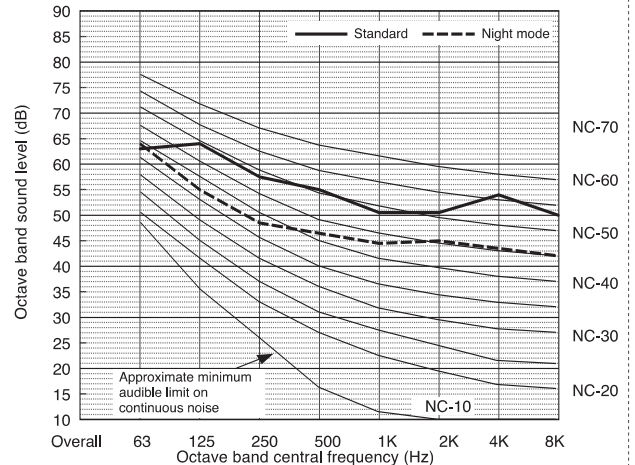
Sound level of PUHY, PUY-P200YGM-A(-BS) Ref. : P200YGM-WYNB0-3616



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 62 | 58 | 56 | 52.5 | 49.5 | 50 | 41.5 | 38 | 56 | |
| | 60Hz | 62 | 58 | 56 | 52.5 | 49.5 | 50 | 41.5 | 38 | 56 | |
| Night mode | | 50/60Hz | 61 | 54.5 | 50 | 46 | 41.5 | 39.5 | 37 | 38 | 49 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

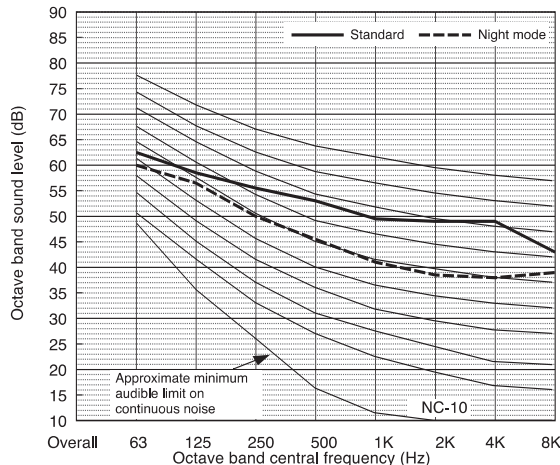
Sound level of PUHY, PUY-P350YGM-A(-BS) Ref. : P350YGM-WYNB0-3619



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 63 | 64 | 57.5 | 55 | 50.5 | 50.5 | 54 | 50 | 60 | |
| | 60Hz | 63 | 64 | 57.5 | 55 | 50.5 | 50.5 | 54 | 50 | 60 | |
| Night mode | | 50/60Hz | 64 | 55 | 48.5 | 46.5 | 44.5 | 45 | 43.5 | 42 | 52 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

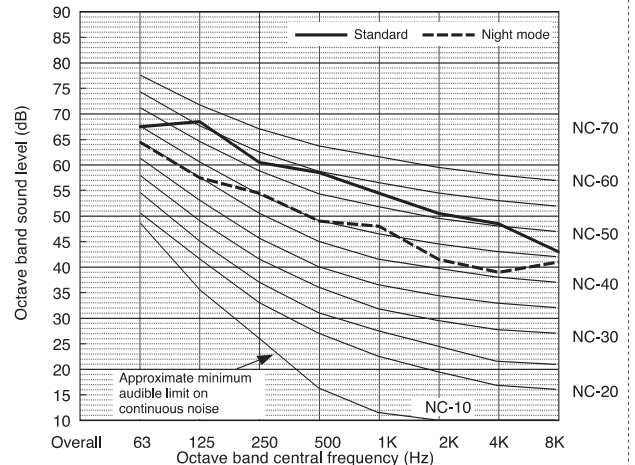
Sound level of PUHY, PUY-P250YGM-A(-BS) Ref. : P250YGM-WYNB0-3617



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 62.5 | 58.5 | 55.5 | 53 | 49.5 | 49 | 49 | 43 | 57 | |
| | 60Hz | 62.5 | 58.5 | 55.5 | 53 | 49.5 | 49 | 49 | 43 | 57 | |
| Night mode | | 50/60Hz | 60 | 56.5 | 50 | 45.5 | 41 | 38.5 | 38 | 39 | 49 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

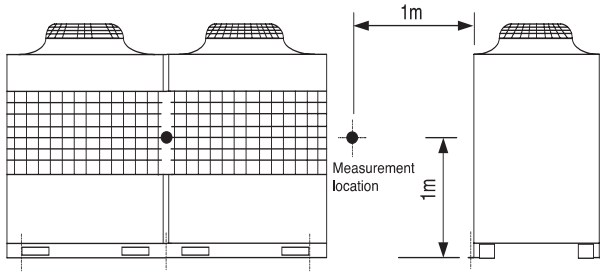
Sound level of PUHY, PUY-P400YGM-A(-BS) Ref. : P400YGM-WYNB0-3620



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 67.5 | 68.5 | 60.5 | 58.5 | 54.5 | 50.5 | 48.5 | 43 | 61 | |
| | 60Hz | 67.5 | 68.5 | 60.5 | 58.5 | 54.5 | 50.5 | 48.5 | 43 | 61 | |
| Night mode | | 50/60Hz | 64.5 | 57.5 | 54.5 | 49 | 48 | 41.5 | 39 | 41 | 53 |

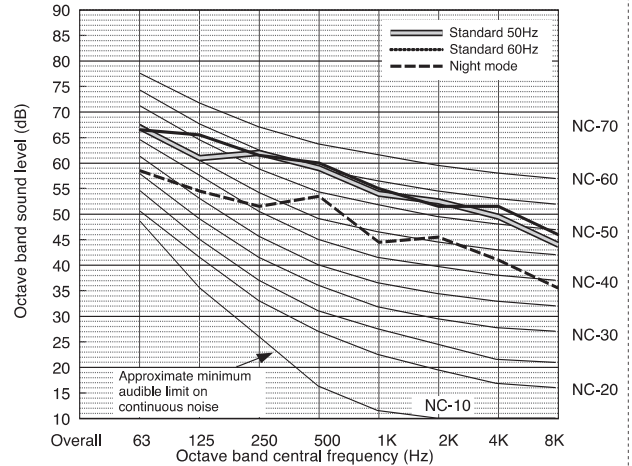
* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Measurement condition PUHY-P450,500,550,600,650YGM



Sound level of PUHY-P550YGM-A(-BS)

Ref. : P550YGM-WYNB0-3623

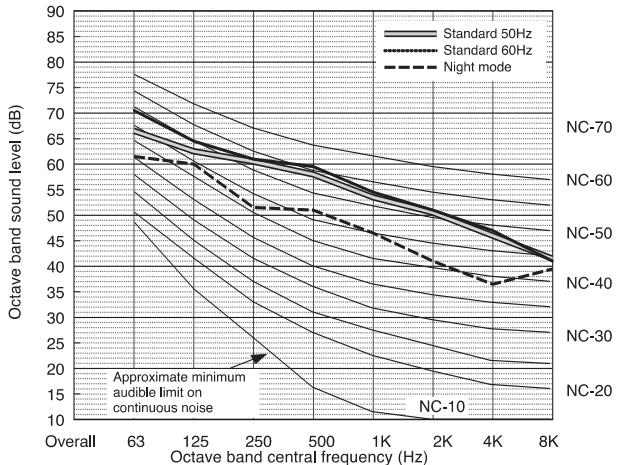


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 67 | 61 | 62 | 59 | 54 | 52.5 | 49.5 | 44 | 61 | |
| | 60Hz | 66.5 | 65.5 | 61.5 | 60 | 55 | 51.5 | 46 | 46 | 62 | |
| Night mode | | 50/60Hz | 58.5 | 54.5 | 51.5 | 53.5 | 44.5 | 45.5 | 41 | 35.5 | 54 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUHY-P450YGM-A(-BS)

Ref. : P450YGM-WYNB0-3621

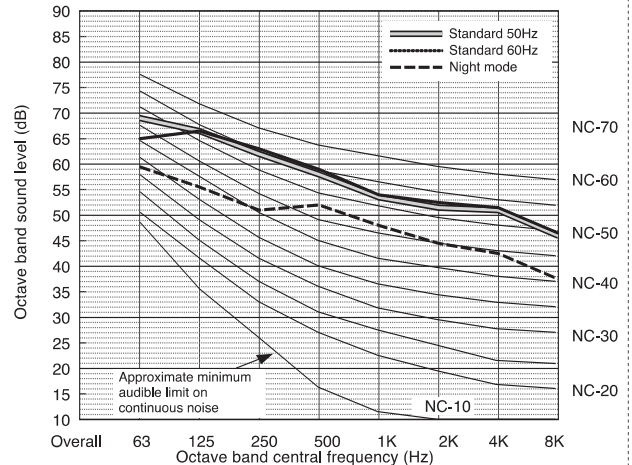


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 66.5 | 62.5 | 60.5 | 58 | 53.5 | 50.5 | 46 | 41.5 | 60 |
| | 60Hz | 70.5 | 64.5 | 61 | 59.5 | 54.5 | 51 | 47 | 41 | 61 |
| Night mode | | 50/60Hz | 61.5 | 60 | 51.5 | 51 | 46.5 | 41 | 36.5 | 53 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUHY-P600YGM-A(-BS)

Ref. : P600YGM-WYNB0-3624

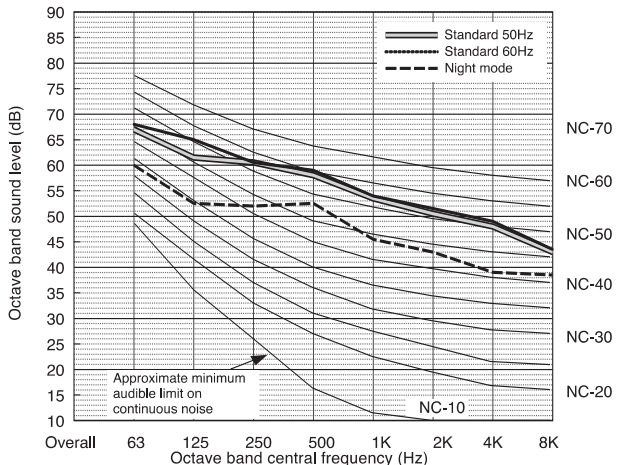


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 69 | 66.5 | 62 | 58 | 53.5 | 51.5 | 51 | 46 | 61 | |
| | 60Hz | 65 | 66.5 | 63 | 59 | 54 | 52.5 | 51.5 | 46.5 | 62 | |
| Night mode | | 50/60Hz | 59.5 | 55.5 | 51 | 52 | 48 | 44.5 | 42.5 | 37.5 | 54 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUHY-P500YGM-A(-BS)

Ref. : P500YGM-WYNB0-3622

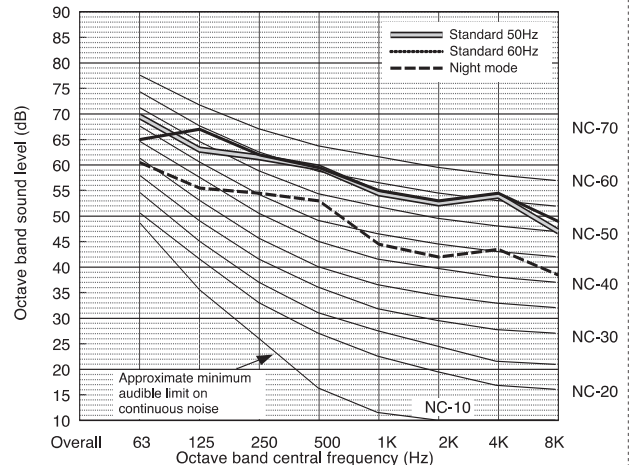


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 67 | 61.5 | 60.5 | 58 | 53.5 | 50.5 | 48 | 43 | 60 | |
| | 60Hz | 68 | 65 | 60.5 | 59 | 54 | 51.5 | 49 | 43.5 | 61 | |
| Night mode | | 50/60Hz | 60 | 52.5 | 52 | 52.5 | 45.5 | 43 | 39 | 38.5 | 53 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUHY-P650YGM-A(-BS)

Ref. : P650YGM-WYNB0-3625

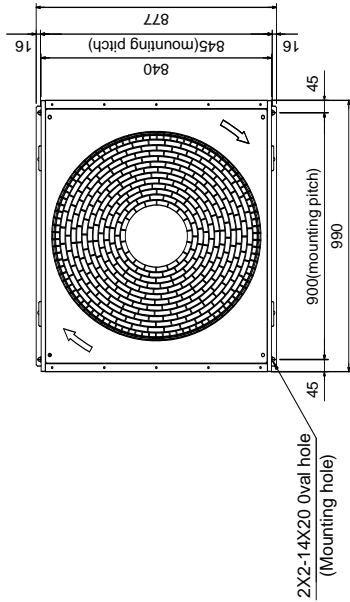


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) | |
|------------|------|---------|-------|-------|-------|--------|--------|--------|--------|-------|----|
| Standard | 50Hz | 69.5 | 63 | 61.5 | 59.5 | 54.5 | 52.5 | 54 | 47 | 62 | |
| | 60Hz | 65 | 67 | 62 | 59.5 | 55 | 53 | 54.5 | 49 | 62.5 | |
| Night mode | | 50/60Hz | 60.5 | 55.5 | 54.5 | 53 | 44.5 | 42 | 43.5 | 38.5 | 54 |

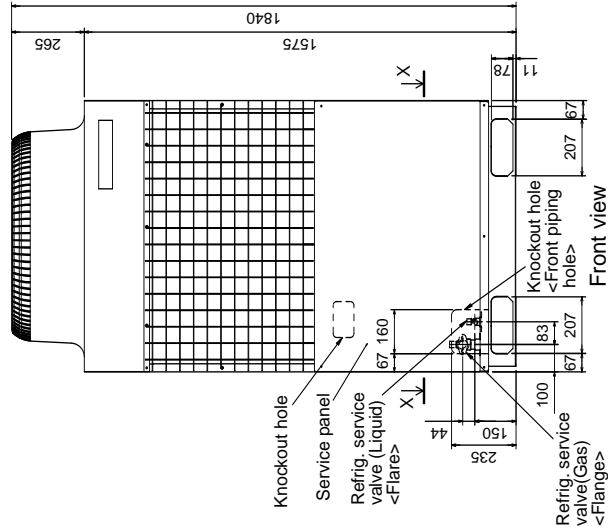
* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

PUHY,PUY-P200,250,300,350YGM-A-(BS)

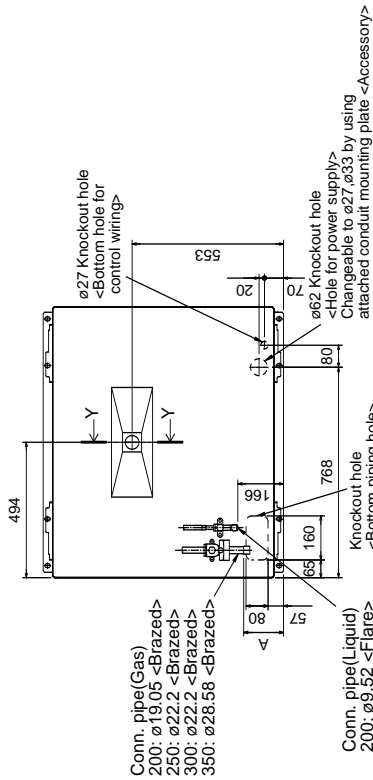
Draw. : YGM-W656-818 1/2
Unit : mm



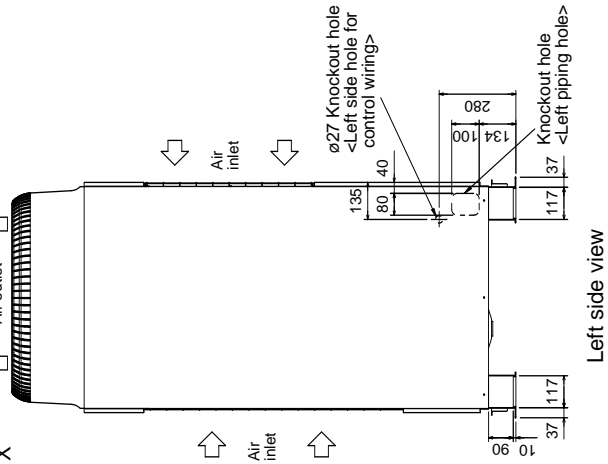
Top view



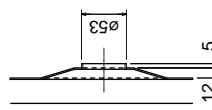
Front view



Left side view



Cross section X - X



Cross section Y - Y

Conn. pipe (Gas)
200: $\phi 19.05$ <Brazed>
250: $\phi 22.2$ <Brazed>
300: $\phi 22.2$ <Brazed>
350: $\phi 28.58$ <Brazed>

Conn. pipe (Liquid)
200: $\phi 9.52$ <Flare>
250: $\phi 9.52$ <Flare>
300: $\phi 9.52$ <Flare>
350: $\phi 12.7$ <Flare>

| Model | A |
|-------|-----|
| 200 | 132 |
| 250 | 136 |
| 300 | 136 |
| 350 | 146 |

- <Accessories>
- Refrigerant (Gas) conn. pipe.....1 pc. (P200type: Packaged in the accessory kit) (P250, P300, P350type: Already installed on the unit)
 - Packing for conn. pipe.....1 pc. (P200type: Not attached) (P250, P300, P350type: Attached near the ball valve)
 - Conduit mounting plate $\phi 33, \phi 27$1 pc. Each
 - Tapping screw M4.....2 pcs.

Note1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Note2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PUHY,PUY-P200,250,300,350YGM-A(-BS)

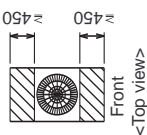
Drw. : YGM-W656-818 2/2
Unit : mm

1.Space required around unit

* In case of single installation

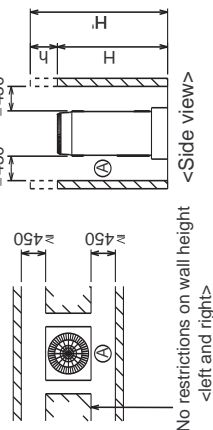
[Basic rules for spacing the unit]

- 1 Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



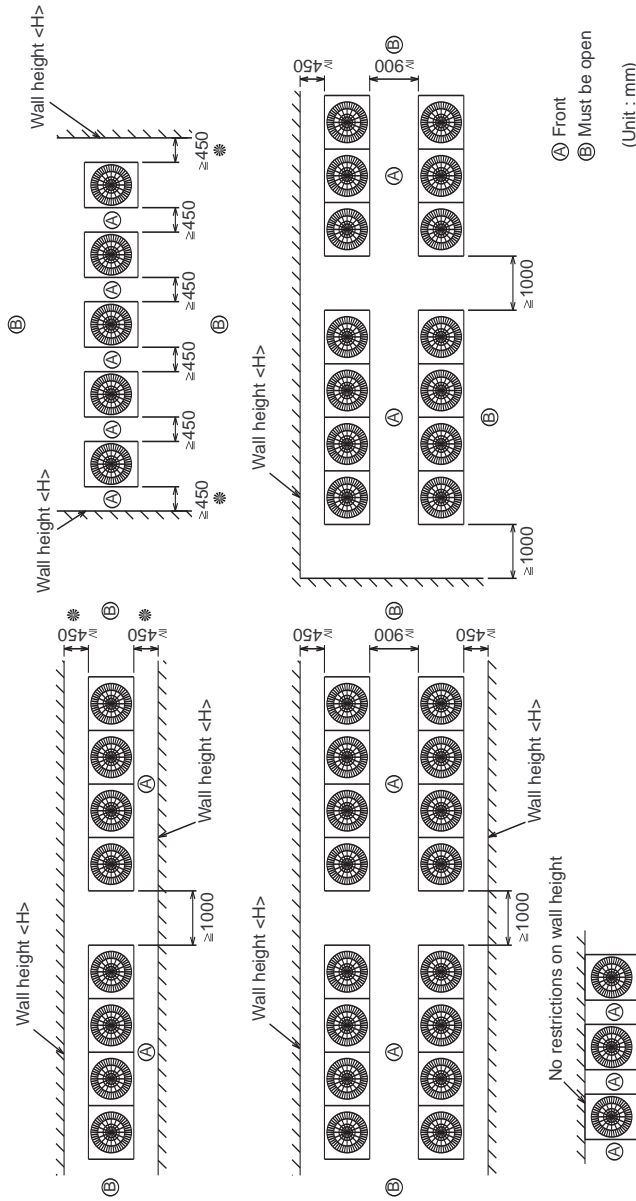
[When inlet air enters from right and left sides of unit]

- 1 Wall heights <H> of the front and the back sides shall be within total height of unit.
- 2 When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h = wall height <H> - total height of unit.



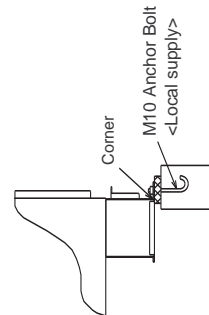
* In case of collective installation and continuous installation

- 1 Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- 2 Open in two directions.
- 3 In case of wall height <H> exceeds total height of unit, add <h> dimension (h = wall height <H> - total height of unit) to marked dimension.
- 4 If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



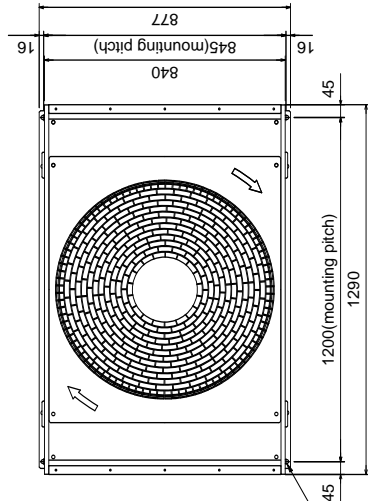
2.Foundation work

- 1 When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- 2 Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- 3 When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.

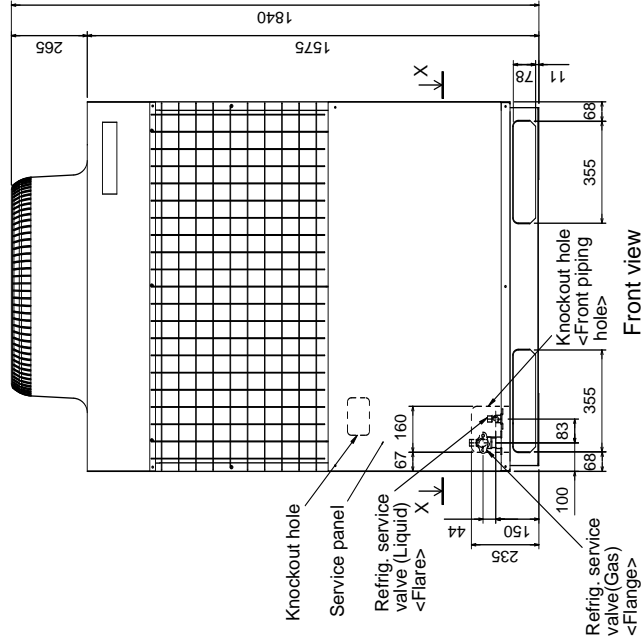


PUHY-P400YGM-A(-BS)

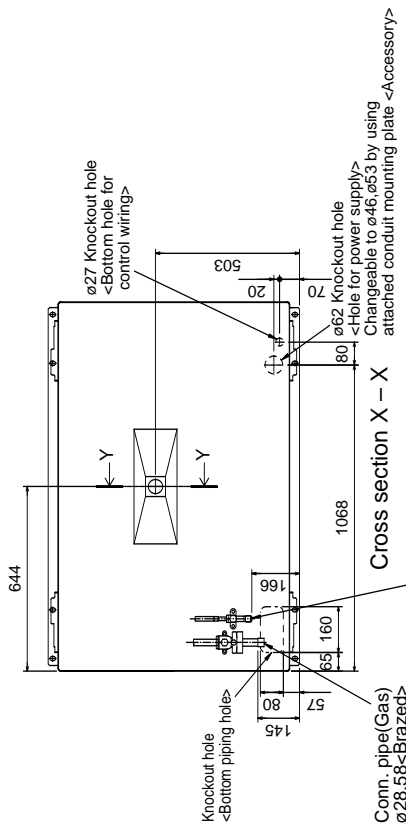
Draw. : YGM-W656-819 1/2
Unit : mm



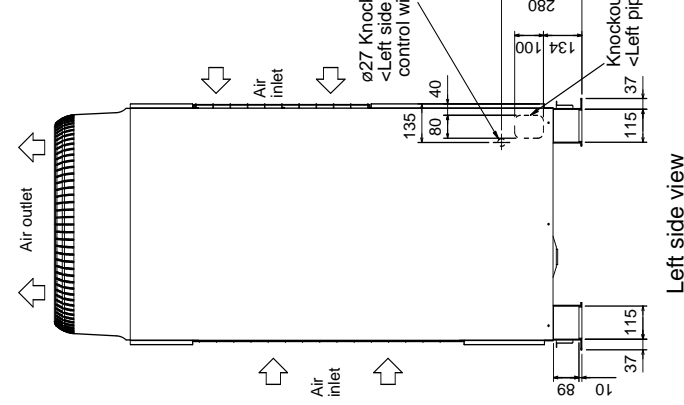
Top view



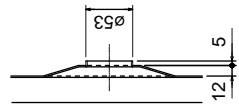
Front view



Cross section X - X



Left side view



Cross section Y - Y

- <Accessories>
- Refrigerant (Gas) conn. pipe.....1 pc. (Already installed on the unit)
 - Packing for conn. pipe.....1 pc. (Attached near the ball valve)
 - Conduit mounting plate ø53, ø46.....1 pc. Each
 - Tapping screw M4.....2 pcs.

Note1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.
Note2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PUHY-P400YGM-A(-BS)

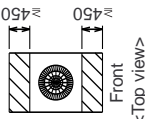
Drw. : YGM-W656-819 2/2
Unit : mm

1.Space required around unit

* In case of single installation

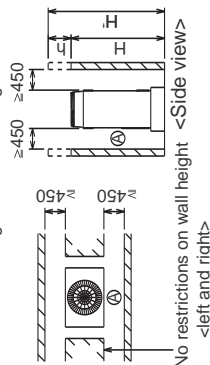
[Basic rules for spacing the unit]

- 1 Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



[When inlet air enters from right and left sides of unit]

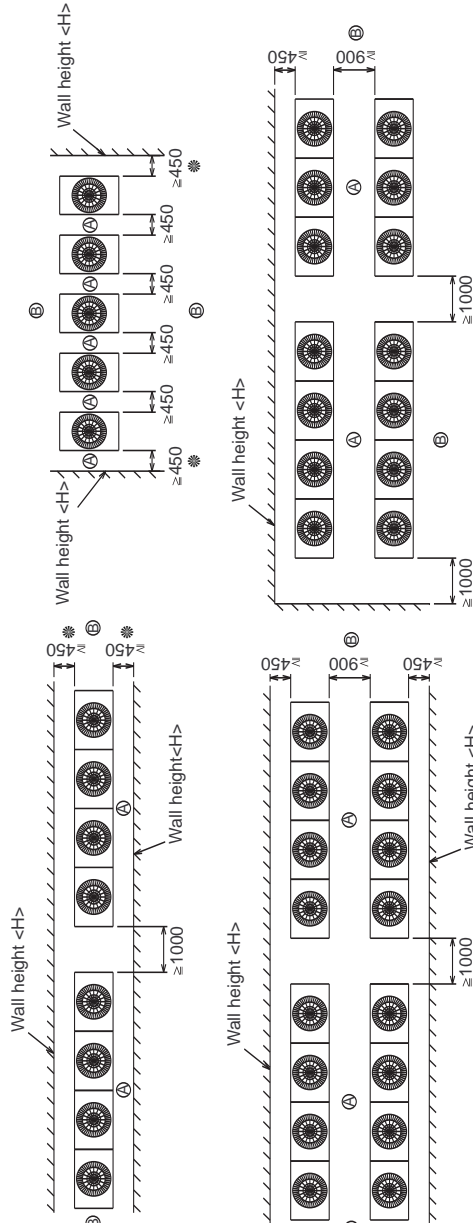
- 1 Wall heights <H> of the front and the back sides shall be within total height of unit.
- 2 When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H> - total height of unit.



No restrictions on wall height <left and right>

* In case of collective installation and continuous installation

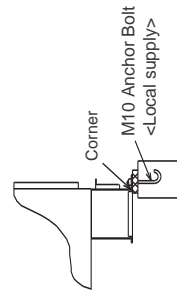
- 1 Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- 2 Open in two directions.
- 3 In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H> - total height of unit) to * marked dimension.
- 4 If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



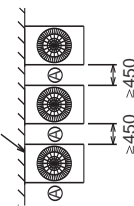
Ⓐ Front
Ⓑ Must be open
(Unit : mm)

2.Foundation work

- 1 When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- 2 Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- 3 When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.

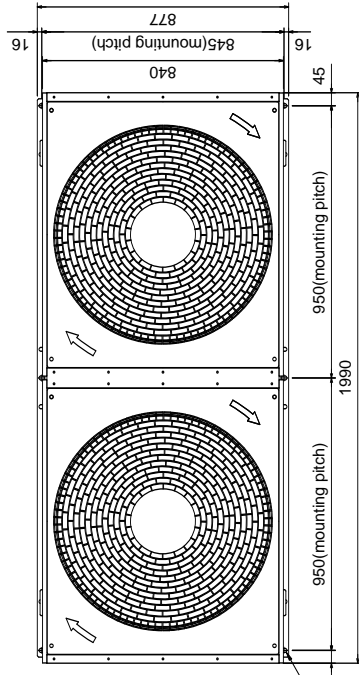


No restrictions on wall height

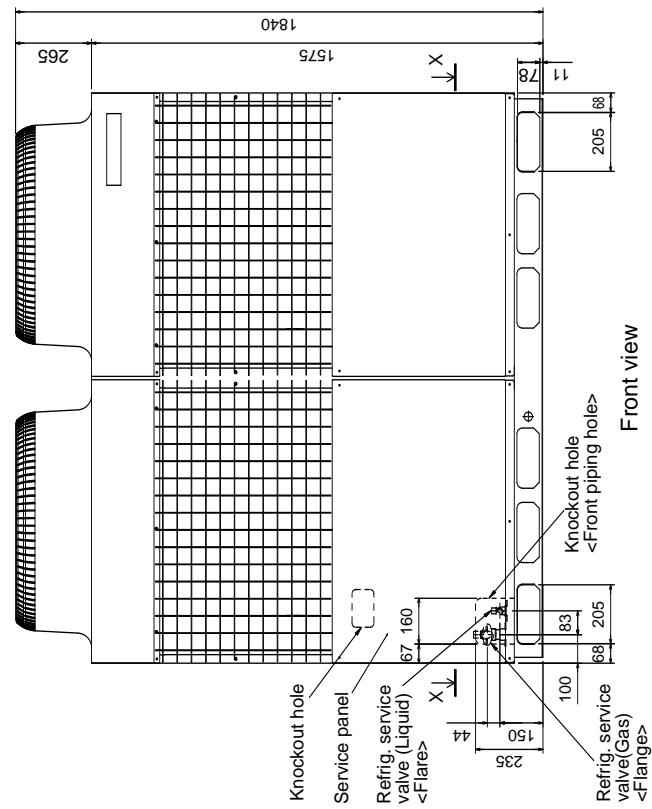


PUHY-P450,500,550,600,650YGM-A(-BS)

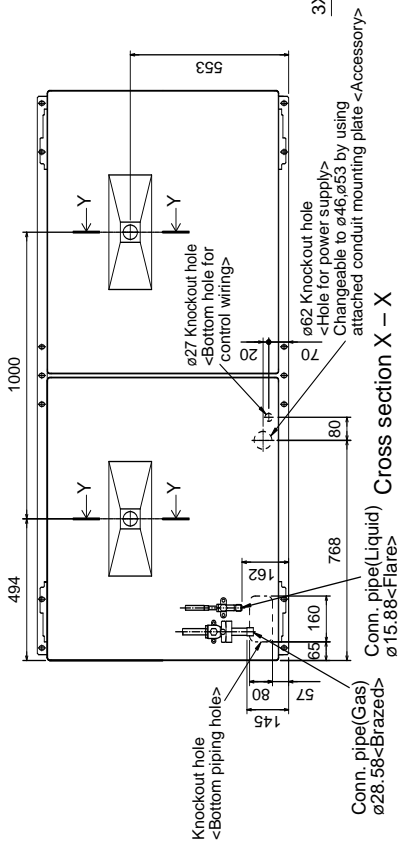
Drw. : YGM-W656-820 1/2
Unit : mm



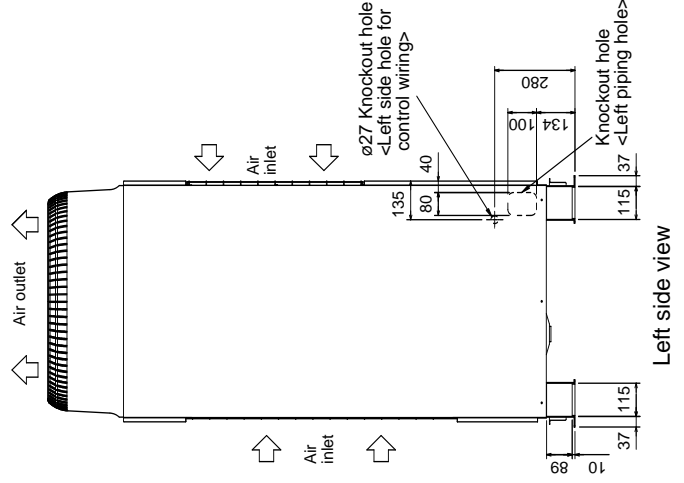
Top view



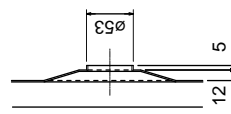
Front view



Cross section X - X



Left side view



Cross section Y - Y

- <Accessories>
- Refrigerant (Gas) conn. pipe.....1 pc. (Already installed on the unit)
 - Packing for conn. pipe.....1 pc. (Attached near the ball valve)
 - Conduit mounting plate $\phi 53$, $\phi 46$1 pc.Each
 - Tapping screw M4.....2 pcs.

Note1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.
Note2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PUHY-P450,500,550,600,650YGM-A(-BS)

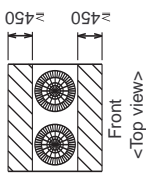
Drw. : YGM-W656-820 2/2
Unit : mm

1.Space required around unit

* In case of single installation

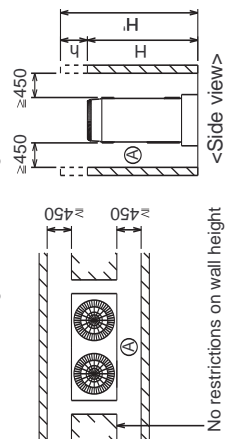
[Basic rules for spacing the unit]

- 1 Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



[When inlet air enters from right and left sides of unit]

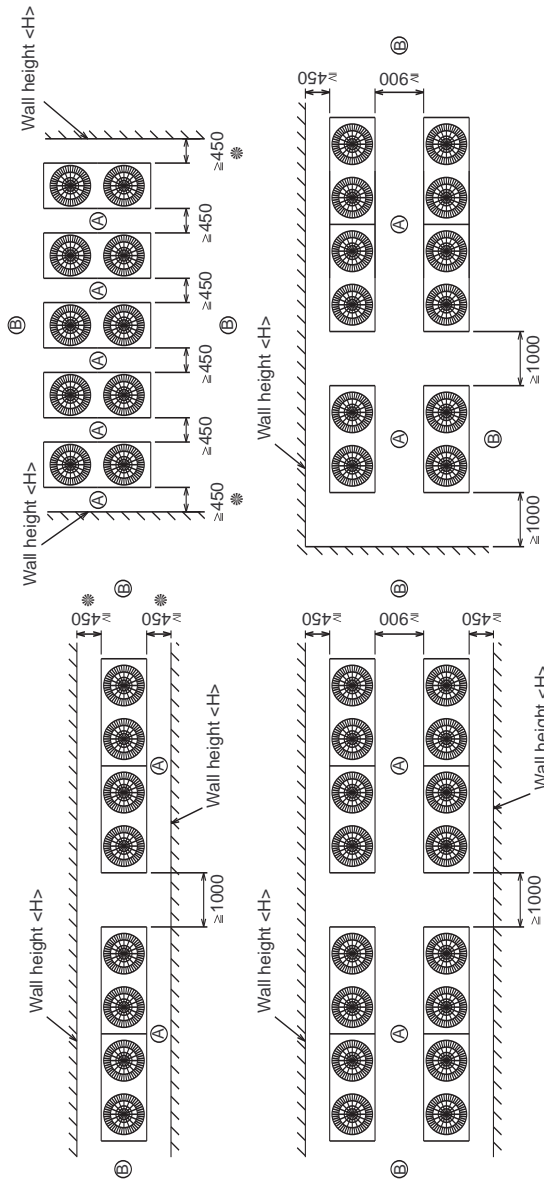
- 1 Wall heights <H> of the front and the back sides shall be within total height of unit.
- 2 When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.
h=wall height <H> -total height of unit.



No restrictions on wall height <left and right>

* In case of collective installation and continuous installation

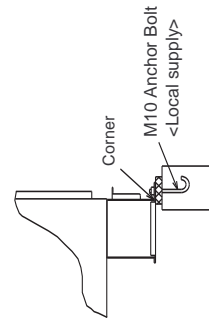
- 1 Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- 2 Open in two directions.
- 3 In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H> -total height of unit) to * marked dimension.
- 4 If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each three units.



(A) Front
(B) Must be open
(Unit : mm)

2.Foundation work

- 1 When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operations>, piping and wiring routes.
- 2 Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- 3 When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



PUHY,PUY-P200,250,300,350YGM / PUHY-P400YGM

Drw. : YGM-W274-627

< Symbol explanation >

| Symbol | Name |
|----------|--|
| ACCT1 | AC Current Sensor |
| DCCT1 #3 | DC Current Sensor |
| DOL1 | DC reactor (Power factor improvement) |
| S2C1 | Magnetic contactor (Inverter main circuit) |
| MF1 | Fan motor (Radiator panel) |
| CH11 | Crank case heater (Compressor) |
| 21S4a #5 | 4-way valve |
| 21S4b | |
| 21S4c #4 | |
| SV1 | Solenoid valve (Discharge-suction bypass) |
| SV5b | Solenoid valve |
| SV5c #4 | (Heat exchanger capacity control) |
| LEV1 | Electronic expansion valve (SC coil) |
| TH11 | Discharge pipe temp. detect |
| TH5 | Pipe temp.detect (Hex outlet) |
| TH6 | OA temp.detect |
| TH7 | liquid outlet temp.detect at Sub-cool coil |
| TH8 | Radiator panel temp. detect |
| THHS1 | High pressure switch |
| 63H1 | High pressure sensor |
| 63HS | High pressure sensor |
| 63LS | Low pressure sensor |
| L1,L2 | Choke coil (Transmission) |
| Z20 | Function device |
| ⊕ | Earth terminal |

< Difference of appliance >

| Model name | Appliance |
|--------------------------|---------------------------------------|
| PUHY-P200YGM-A | *#3* and *#4* do not exist. |
| PUHY-P250,P300,P350YGM-A | *#4* do not exist. |
| PUHY-P400YGM-A | All exists |
| PUY-P200YGM-A | *#2*~*#3*~*#4* and *#5* do not exist. |
| PUY-P250,P300,P350YGM-A | *#2*~*#4* and *#5* do not exist. |

*#1: Function according to switch operation. (SW4-7,CN3D 1-2P,and CN3D 1-3P)

SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

| CN3D 1-3P | Compressor | CN3D 1-2P | MODE |
|-----------|------------|-----------|------|
| OPEN | ON | OPEN | OFF |
| SHORT | OFF | SHORT | ON |

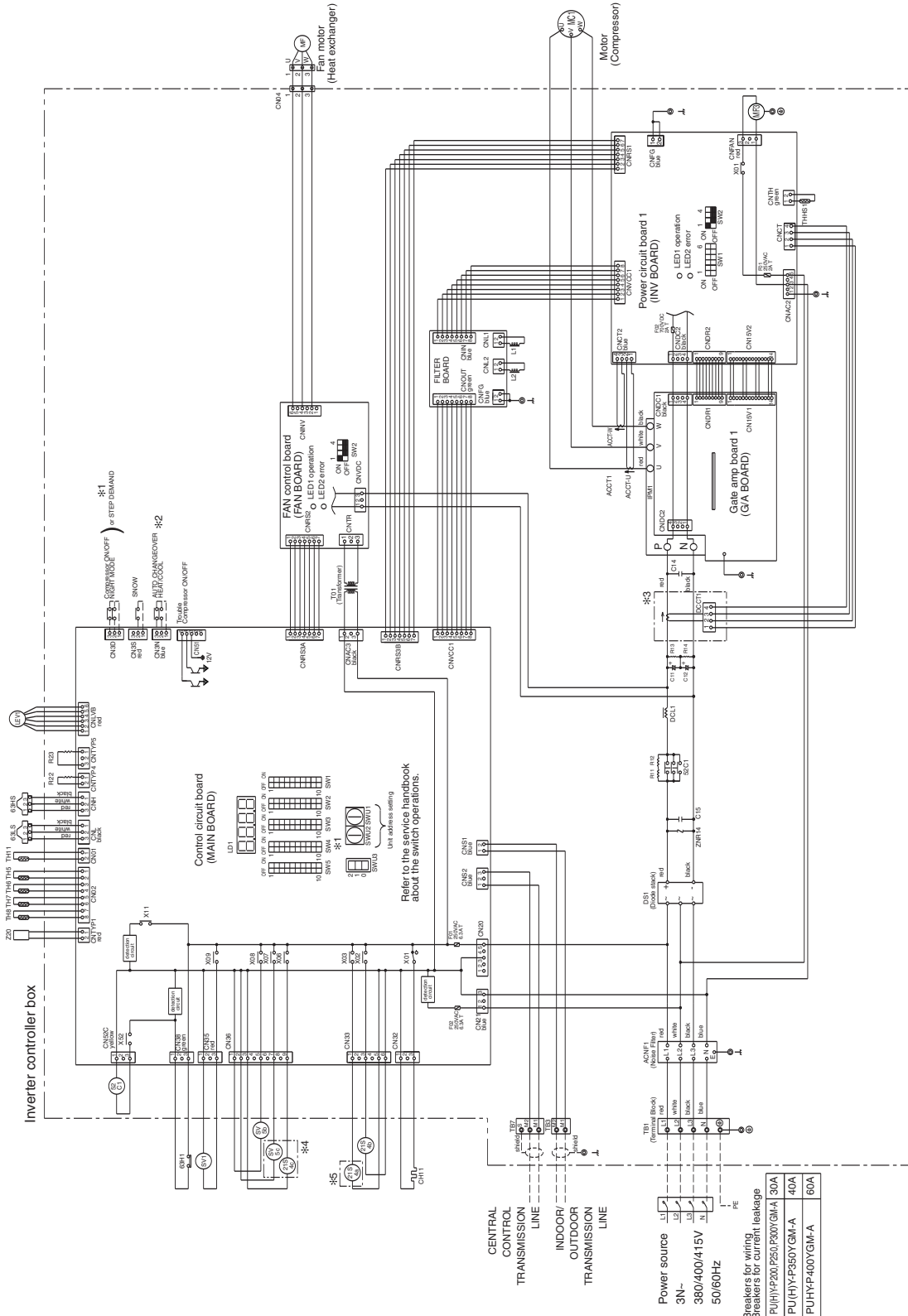
SW4-7:ON (STEP DEMAND)

| CN3D 1-2P | OPEN | SHORT |
|-----------|-------|-------|
| CN3D 1-3P | OPEN | 100% |
| | SHORT | 0% |

*#2:Auto changeover (CN3N 1-2P,1-3P)

| CN3N 1-3P | Auto changeover-OFF | Auto changeover-ON | COOL | HEAT |
|-----------|---------------------|--------------------|-------|------|
| OPEN | CN3N 1-2P | OPEN | SHORT | |
| SHORT | Auto changeover-OFF | Auto changeover-ON | COOL | HEAT |

NOTE:The broken lines indicate field wiring.



Power source
3N-380/400/415V
50/60Hz

Breakers for wiring
Breakers for current leakage

| | |
|----------------------------|-----|
| PU(H)Y-P200,P300,P350YGM-A | 30A |
| PU(H)Y-P350YGM-A | 40A |
| PUHY-P400YGM-A | 60A |

PUHY-P450,500,550,600,650YGM-A(-BS)

Draw. : YGM-W274-629

< Symbol explanation >

| Symbol | Name |
|-----------|--|
| ACCT1 | AC Current Sensor |
| DCCT1 | DC Current Sensor |
| DCL1 | DC reactor (Power factor improvement) |
| 52C1 | Magnetic contactor (Inverter main circuit) |
| 52C2 | Magnetic contactor (No.2 Compressor) |
| 51C2 | Overload relay (No.2 Compressor) |
| 52F | Magnetic contactor (Fan motor) |
| MF3 | Fan motor (Radiator panel) |
| CH1,12 | Crank case heater (Compressor) |
| 21S4a,b,c | 4-way valve |
| SV1,3 | Solenoid valve (Discharge-suction bypass) |
| SV5b,c | Solenoid valve (Heat exchanger capacity control) |
| LEV1 | Electronic expansion valve (SC coil) |
| TH1,12 | Discharge pipe temp. detect |
| TH5 | Pipe temp detect (Hex outlet) |
| TH6 | OA temp.detect |
| TH7 | Liquid outlet temp.detect at Sub-cool coil |
| TH8 | bypass outlet temp detect at Sub-cool coil |
| THHS1 | Radiator panel temp. detect |
| 63H1,2 | High pressure switch |
| 63HS | High pressure sensor |
| 63LS | Low pressure sensor |
| L1,L2 | Choke coil (Transmission) |
| Z20 | Function device |
| ⊕ | Earth terminal |

*1: Function according to switch operation.
(SW4-7:CN3D 1-2P and CN3D 1-3P)
SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

| CN3D 1-3P | Compressor | CN3D NIGHT MODE |
|-----------|------------|-----------------|
| OPEN | ON | OFF |
| SHORT | OFF | SHORT ON |

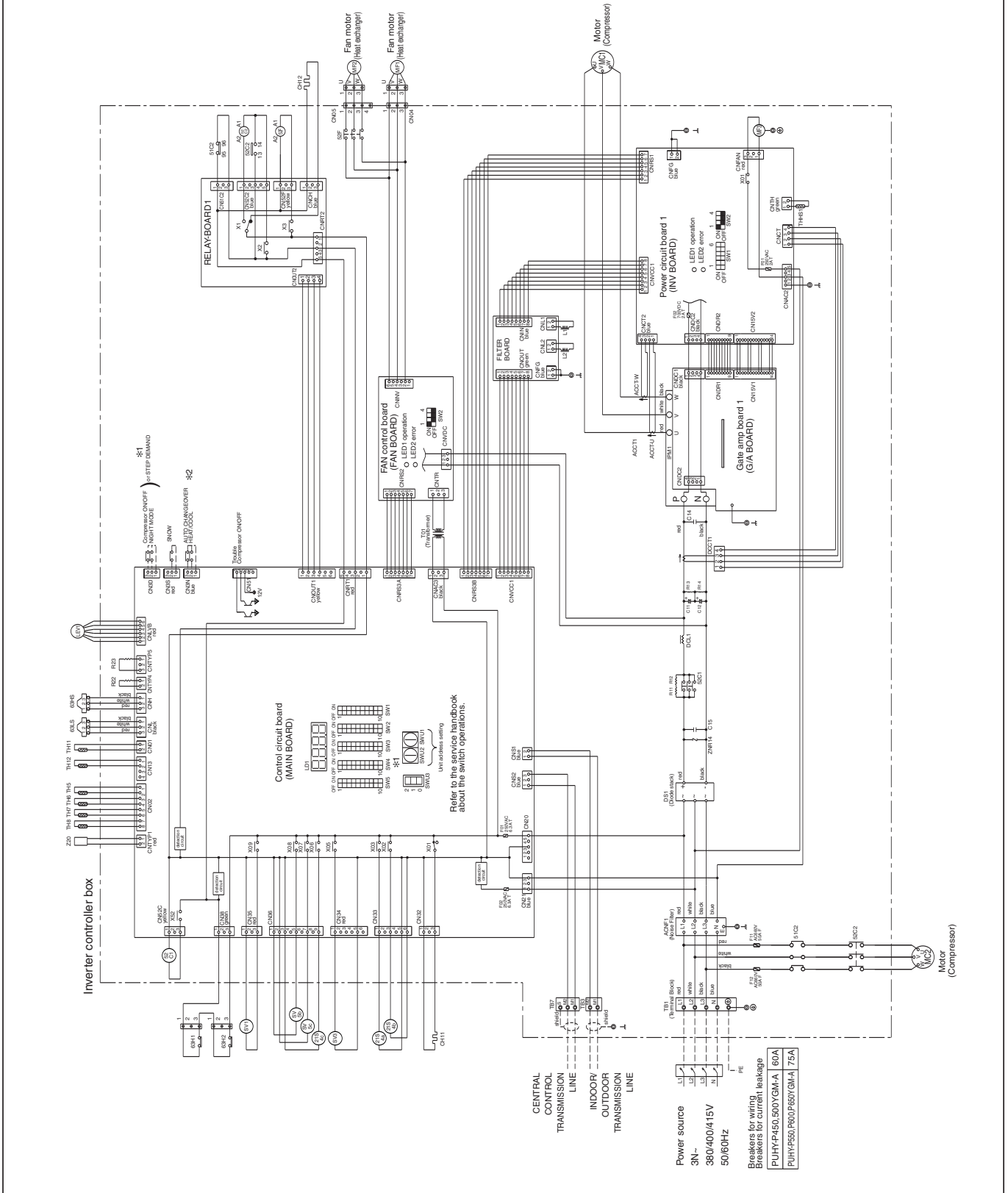
SW4-7:ON (STEP DEMAND)

| CN3D 1-2P | CN3D 1-3P | OPEN | SHORT |
|-----------|-----------|------|-------|
| OPEN | OPEN | 100% | 75% |
| SHORT | SHORT | 0% | 50% |

*2:Auto changeover (CN3M 1-2P;1-3P)

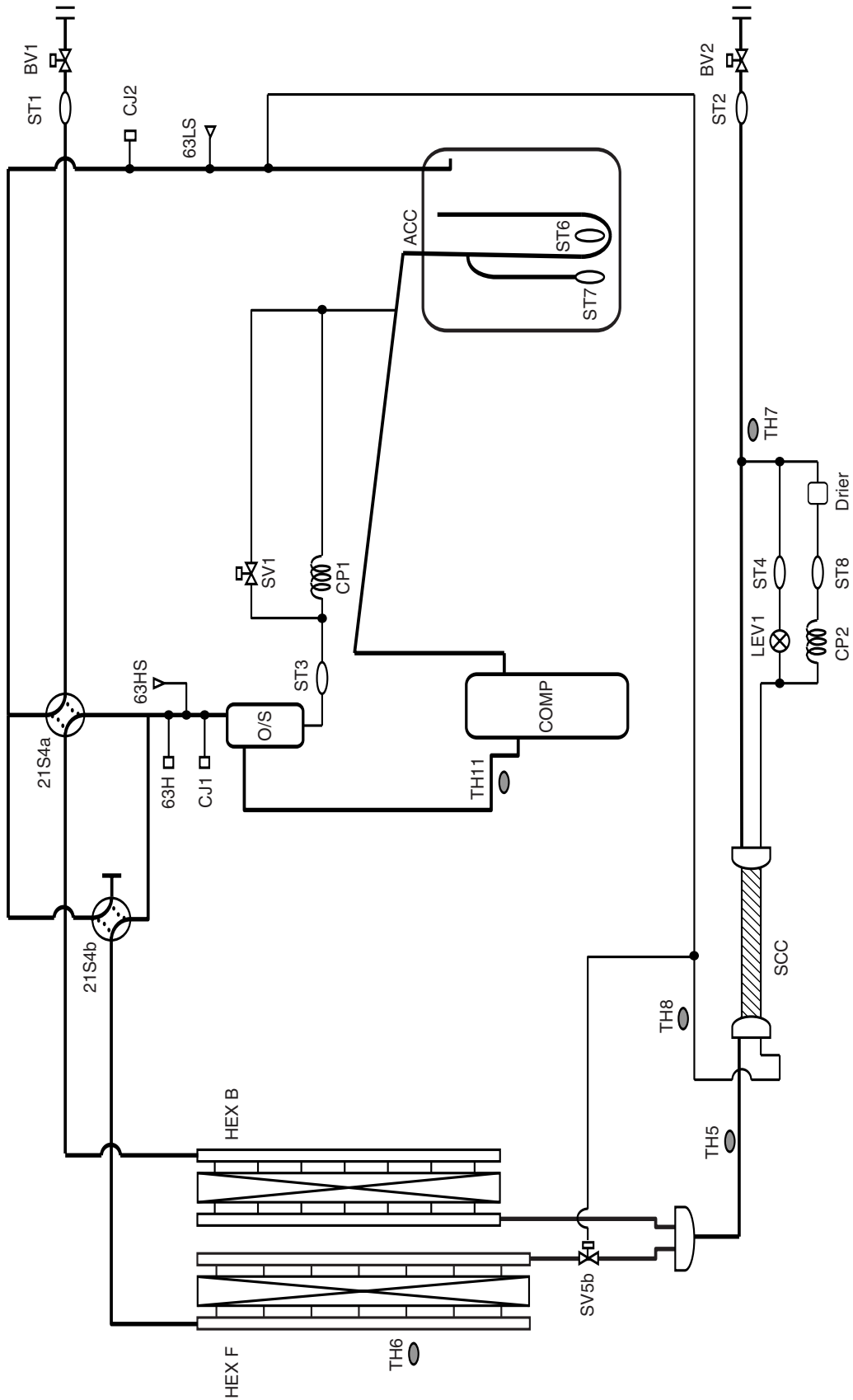
| CN3M 1-3P | CN3M 1-2P | OPEN | SHORT |
|-----------|---------------------|------|-------|
| OPEN | Auto changeover:OFF | - | - |
| SHORT | Auto changeover:ON | COOL | HEAT |

NOTE:The broken lines indicate field wiring.



PUY-P200,250,300,350YGM-A(-BS)

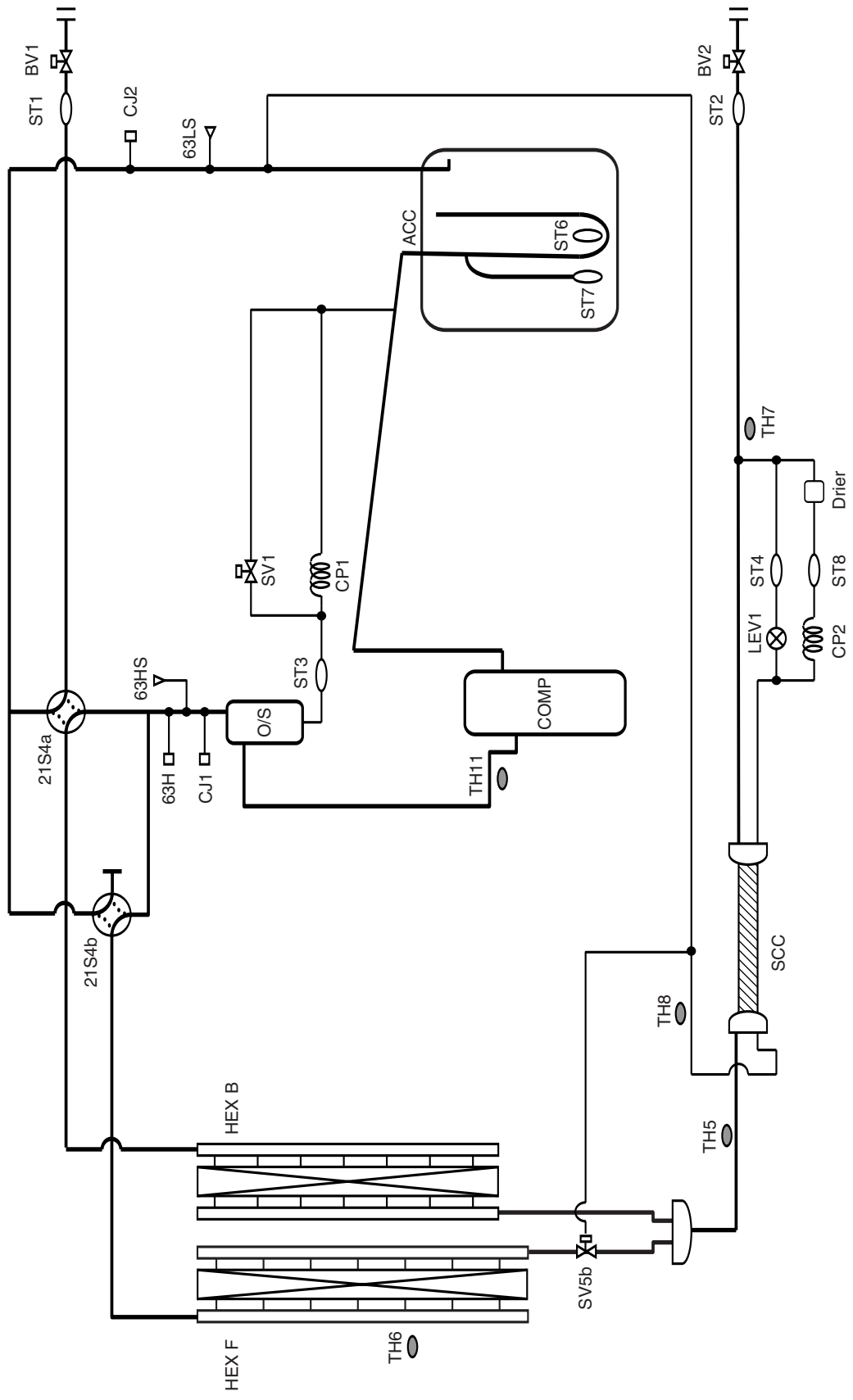
Drv. : YGM-rcd-200-350ygm



- Y
- R2
- WY
- WR2
- S
- OP

PUHY-P200,250,300,350YGM-A(-BS)

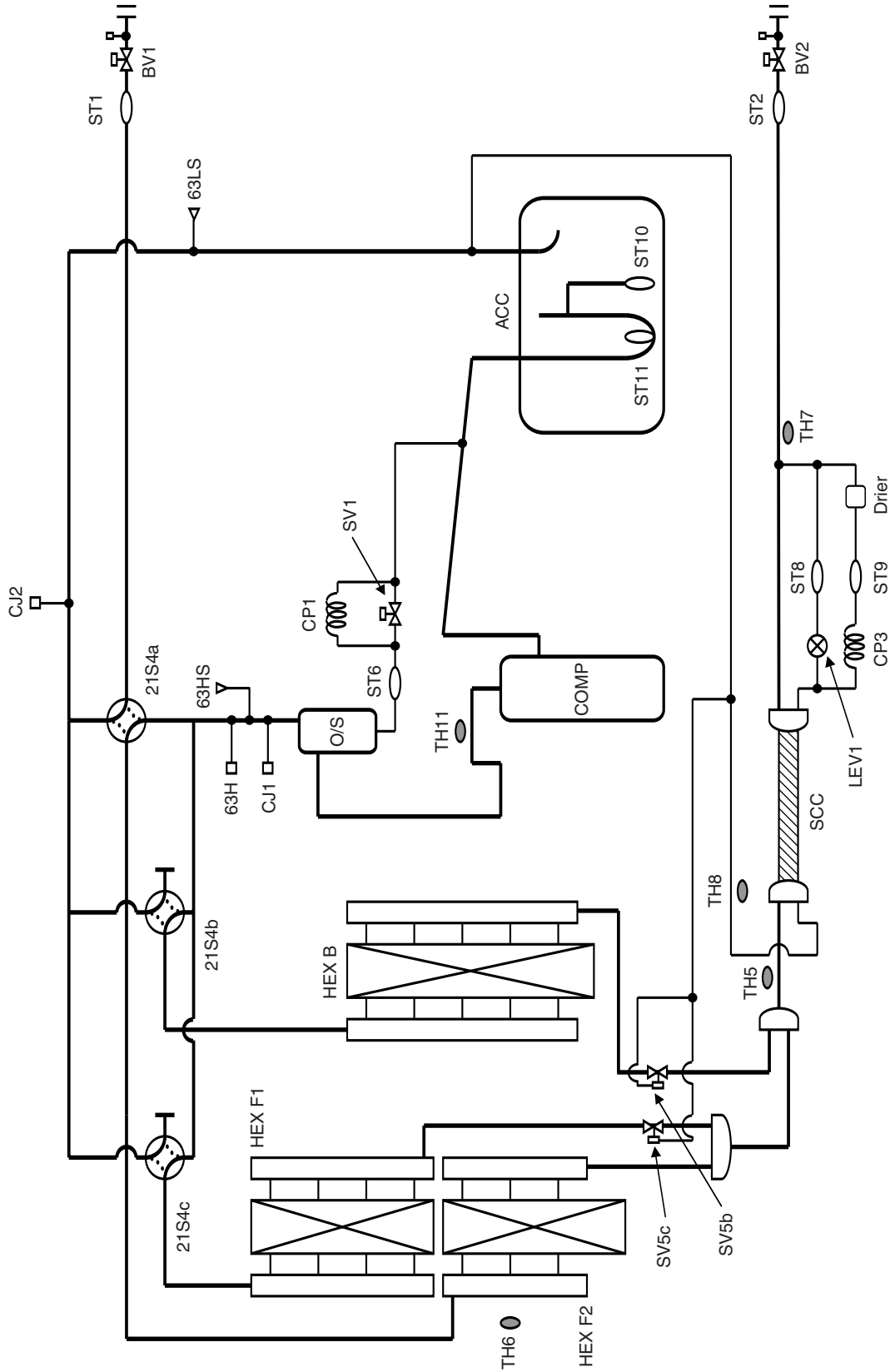
Drw. : YGM-rccd-200-350ygmhp



Y
R2
WY
WR2
S
OP

PUHY-P400YGM-A(-BS)

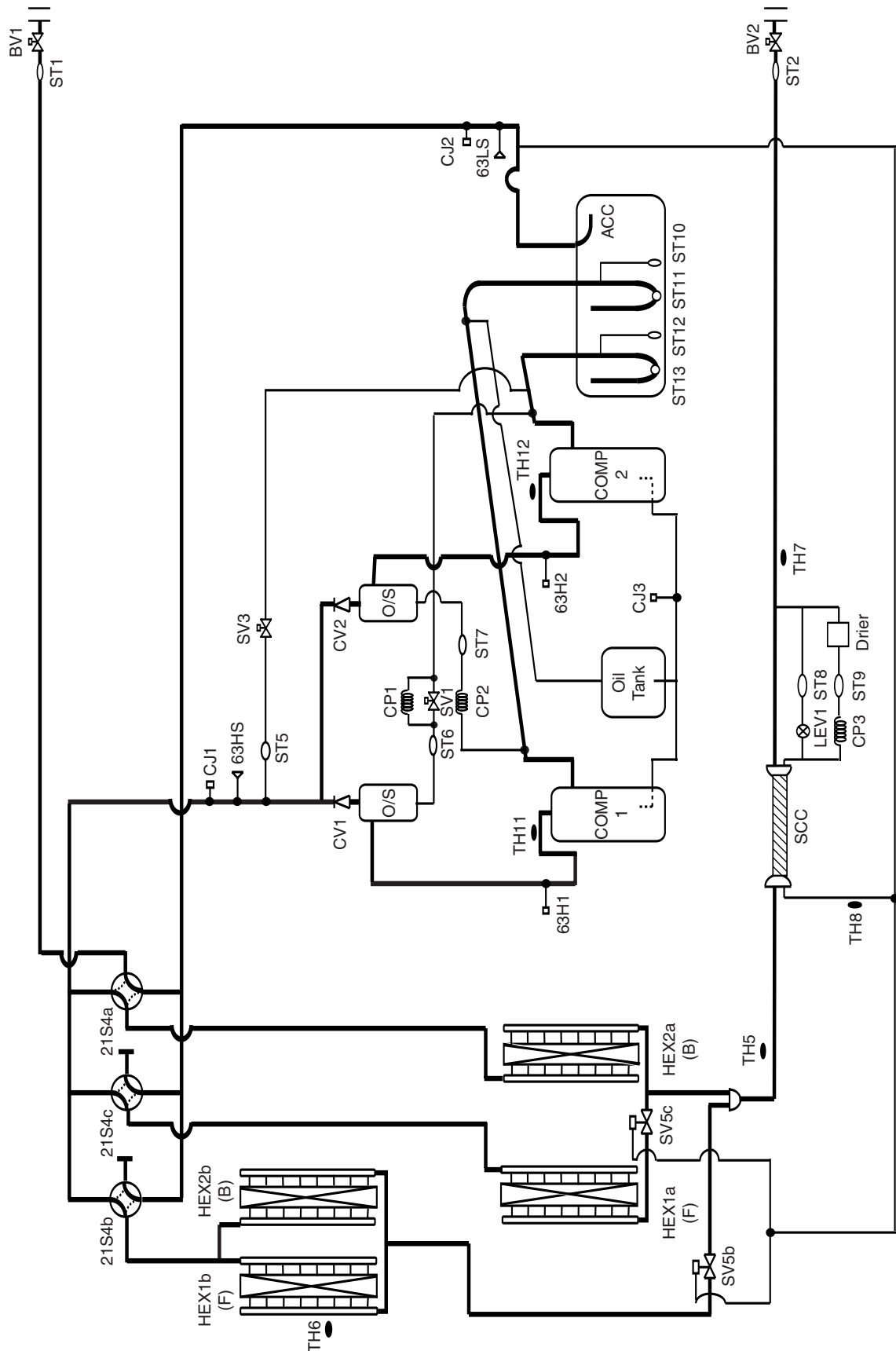
Drw. : YGM-rcd-400ygmhp



- Y
- R2
- WY
- WR2
- S
- OP

PUHY-P450,500,550,600,650YGM-A(-BS)

Drw. : YGM-rccd-450-650ygmhp



CITY MULTI™ OUTDOOR UNITS

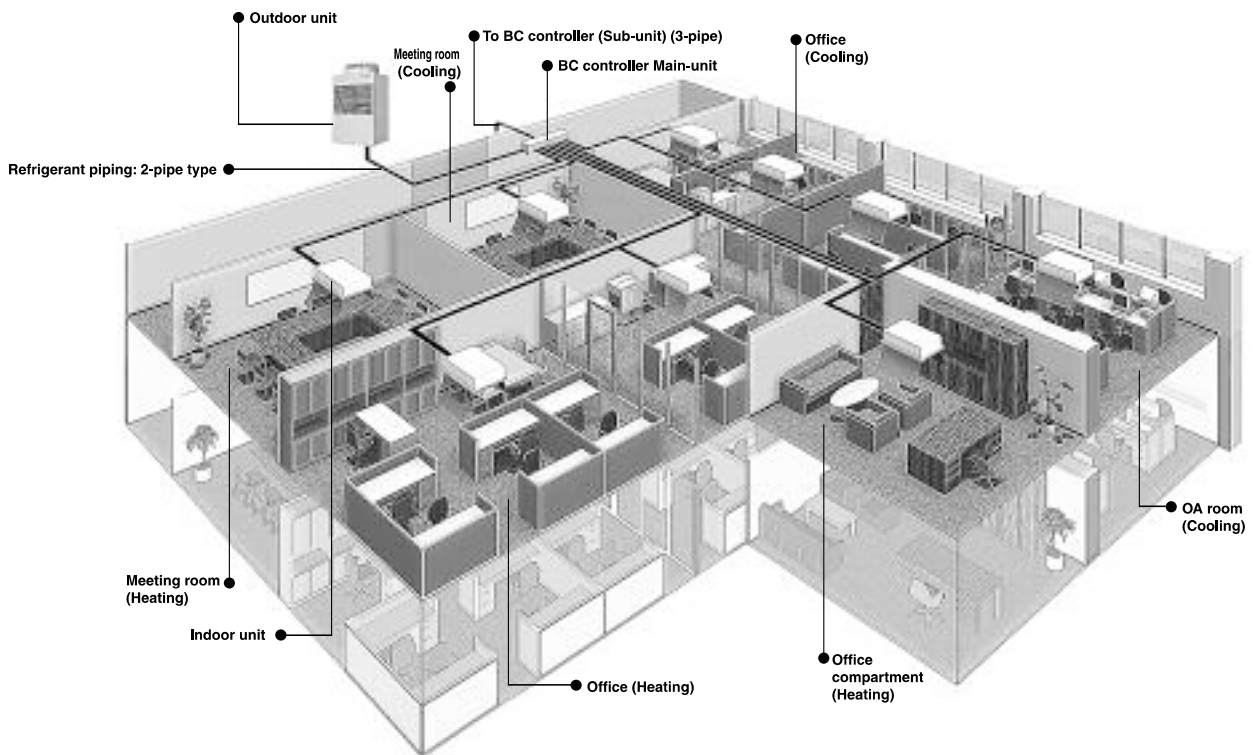
R2 SERIES

R2 SERIES

1. SPECIFICATIONS
2. CAPACITY TABLES
 - 2.1 Correction by temperature
 - 2.2 Correction by total indoor
 - 2.3 Correction by refrigerant piping length
 - 2.4 Correction at frosting and defrosting
 - 2.5 Temp. range of running
3. SOUND LEVELS
4. EXTERNAL DIMENSIONS
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6. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS

- R2-2
- R2-7
- R2-7
- R2-10
- R2-13
- R2-15
- R2-15
- R2-16
- R2-18
- R2-24
- R2-26

- Y
- R2**
- WY
- WR2
- S
- OP



Heat recovery: PURY-P-YGM-A(-BS)

| | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP | 34HP | 36HP | 38HP | 40HP | 42HP | 44HP | 46HP | 48HP | 50HP | |
| R2 Heat recovery | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PURY-P200YGM-A(-BS) | PURY-P250YGM-A(-BS) | |
|---|----------------------|----------|---------------------------------------|-----------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.0 | |
| | *1 | kcal / h | 19,300 | 24,100 | |
| | *1 | Btu / h | 76,400 | 95,500 | |
| | *2 | kcal / h | 20,000 | 25,000 | |
| | Power input | | kW | 6.14 | 7.72 |
| | Current input | | A | 10.3 / 9.8 / 9.4 | 13.0 / 12.3 / 11.9 |
| COP (kW / kW) | | | 3.65 | 3.63 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| Heating capacity (Nominal) | *3 | kW | 25.0 | 31.5 | |
| | *3 | kcal / h | 21,500 | 27,100 | |
| | *3 | Btu / h | 85,300 | 107,500 | |
| | Power input | | kW | 5.98 | 7.62 |
| | Current input | | A | 10.0 / 9.5 / 9.2 | 12.8 / 12.2 / 11.7 |
| | COP (kW / kW) | | | 4.18 | 4.13 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 150% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 15 | P20 ~ P250 / 1 ~ 16 | |
| Noise level (measured in anechoic room) | | dB <A> | 56 / 56 | 57 / 57 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø15.88 (ø5/8") Brazed | ø19.05 (ø3/4") Brazed | |
| | Gas (Low press.) | mm (in.) | ø19.05 (ø3/4") Brazed | ø22.2 (ø7/8") Brazed | |

| | | | | | |
|---------------------------------------|--------------------------------|----------------------|--|-----------------------------|-----------------------------|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | |
| External dimension H x W x D | mm | | 1,840 x 990 x 840 | 1,840 x 990 x 840 | |
| | in. | | 72-1/2" x 39" x 33-1/8" | 72-1/2" x 39" x 33-1/8" | |
| Net weight | | kg (lb) | 236 (521) | 251 (554) | |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | | |
| Compressor | Type | | Inverter scroll hermetic comp. | | |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | | Inverter | | |
| | Motor output | | kW | 4.7 | 6.7 |
| | Case heater | | kW | 0.045 x 1 (240V) | 0.045 x 1 (240V) |
| | Lubricant | | | MEL56 | MEL32 |
| FAN | Air flow rate | m ³ / min | 200 | 200 | |
| | | L / s | 3,333 | 3,333 | |
| | | cfm | 7,063 | 7,063 | |
| | External static press. | | | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) |
| | Type x Quantity | | Propeller fan x 1 | | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | |
| Motor output | | kW | 0.38 | 0.38 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | | |
| | Compressor | | Over-heat protection | | |
| | Fan motor | | Thermal switch | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | | |
| Refrigerant | Type x Original charge | | R410A x 10.5 kg (24 lb) | R410A x 13.0 kg (29 lb) | |
| | Control | | Indoor LEV and BC controller | | |
| Drawing | External | | YGM-W656-809 1/2 | | |
| | Wiring | | YGM-W274-614 | | |
| | Refrigerant circle | | YGM-rcd-200-400ygm-R2 | | |
| Standard attachment | Document | | Installation Manual | | |
| | Accessory | | Details refer to External Drw YGM-W656-809 1/2 | | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S-G, CMY-R160-J BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016-G Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

1. SPECIFICATIONS

| Model | | | PURY-P300YGM-A-(BS) | PURY-P350YGM-A-(BS) | |
|---|----------------------|--------------------|---------------------------------------|---------------------|------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 33.5 | 40.0 | |
| | | kcal / h | 28,800 | 34,400 | |
| | | Btu / h | 114,300 | 136,500 | |
| | *2 | kcal / h | 30,000 | 35,000 | |
| | | Power input kW | 9.57 | 11.39 | |
| | Current input A | 16.1 / 15.3 / 14.7 | | 19.2 / 18.2 / 17.6 | |
| COP (kW / kW) | | 3.50 | | 3.51 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| Heating capacity (Nominal) | *3 | kW | 37.5 | 45.0 | |
| | | kcal / h | 32,300 | 38,700 | |
| | | Btu / h | 128,000 | 153,500 | |
| | Power input kW | 9.10 | | 11.02 | |
| | Current input A | 15.3 / 14.5 / 14.0 | | 18.6 / 17.6 / 17.0 | |
| | COP (kW / kW) | | 4.12 | | 4.08 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 150% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 16 | P20 ~ P250 / 1 ~ 20 | |
| Noise level (measured in anechoic room) | dB <A> | | 59 / 59 | | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø19.05 (ø3/4") Brazed | | |
| | Gas (Low press.) | mm (in.) | ø22.2 (ø7/8") Brazed | | |

| | | | | |
|---------------------------------------|--------------------------------|----------------------|--|-------------------------|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | | 1,840 x 990 x 840 | 1,840 x 990 x 840 |
| | in. | | 72-1/2" x 39" x 33-1/8" | 72-1/2" x 39" x 33-1/8" |
| Net weight | kg (lb) | | 251 (554) | |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | | Inverter scroll hermetic comp. | |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter | |
| | Motor output | kW | 8.0 | 9.6 |
| | Case heater | kW | 0.045 x 1 (240V) | |
| | Lubricant | | MEL32 | |
| FAN | Air flow rate | m ³ / min | 200 | 200 |
| | | L / s | 3,333 | 3,333 |
| | | cfm | 7,063 | 7,063 |
| | External static press. | | 0 Pa (0 mmH ₂ O) | |
| | Type x Quantity | | Propeller fan x 1 | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | |
| Motor output | kW | 0.38 | | |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | |
| | Compressor | | Over-heat protection | |
| | Fan motor | | Thermal switch | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | | R410A x 13.0 kg (29 lb) | R410A x 13.0 kg (29 lb) |
| | Control | | Indoor LEV and BC controller | |
| Drawing | External | | YGM-W656-809 1/2 | |
| | Wiring | | YGM-W274-614 | |
| | Refrigerant circle | | YGM-rcd-200-400ygm-R2 | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw YGM-W656-809 1/2 | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S-G, CMY-R160-J BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016-G Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *1 Nominal cooling conditions | *2 Nominal cooling conditions | *3 Nominal heating conditions | Unit converter |
|--|-------------------------------|---------------------------------|-------------------------------|---|
| Indoor : | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| Outdoor : | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| Pipe length : | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *1, *3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PURY-P400YGM-A(-BS) | PURY-P450YGM-A(-BS) | |
|---|----------------------|----------|---------------------------------------|-------------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 45.0 | 50.0 | |
| | *1 | kcal / h | 38,700 | 43,000 | |
| | *1 | Btu / h | 153,500 | 170,600 | |
| | *2 | kcal / h | 40,000 | 45,000 | |
| | Power input | | kW | 13.42 | 13.61 |
| | Current input | | A | 22.6 / 21.5 / 20.7 | 22.9 / 21.8 / 21.0 |
| COP (kW / kW) | | | 3.35 | 3.67 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| Heating capacity (Nominal) | *3 | kW | 50.0 | 56.0 | |
| | *3 | kcal / h | 43,000 | 48,200 | |
| | *3 | Btu / h | 170,600 | 191,100 | |
| | Power input | | kW | 12.43 | 13.86 |
| | Current input | | A | 20.9 / 19.9 / 19.2 | 23.3 / 22.2 / 21.4 |
| | COP (kW / kW) | | | 4.02 | 4.04 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 150% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 24 | P20 ~ P250 / 1 ~ 24 | |
| Noise level (measured in anechoic room) | | dB <A> | 61 / 61 | 60 / 61 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø22.2 (ø7/8") Brazed | ø22.2 (ø7/8") Brazed | |
| | Gas (Low press.) | mm (in.) | ø28.58 (ø1-1/8") Brazed | ø28.58 (ø1-1/8") Brazed | |

| | | | | | |
|---------------------------------------|--------------------------------|----------------------|--|--|------------------|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | | |
| External dimension H x W x D | mm | | 1,840 x 1,290 x 840 | 1,840 x 1,990 x 840 | |
| | in. | | 72-1/2" x 50-13/16" x 33-1/8" | 72-1/2" x 78-3/8" x 33-1/8" | |
| Net weight | | kg (lb) | 291 (642) | 481 (1061) | |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | | |
| Compressor | Type | | Inverter scroll hermetic comp. | Inverter scroll hermetic comp. + Scroll hermetic comp. | |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | | Inverter | | |
| | Motor output | | kW | 9.7 | 6.8 + 5.3 |
| | Case heater | | kW | 0.045 x 1 (240V) | 0.045 x 2 (240V) |
| | Lubricant | | MEL32 | | |
| FAN | Air flow rate | m ³ / min | 240 | 400 | |
| | | L / s | 4,000 | 6,667 | |
| | | cfm | 8,476 | 14,126 | |
| | External static press. | | 0 Pa (0 mmH ₂ O) | | |
| | Type x Quantity | | Propeller fan x 1 | | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | |
| Motor output | | kW | 0.64 | 0.38 x 2 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | | |
| | Compressor | | Over-heat protection | | |
| | Fan motor | | Thermal switch | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | | |
| Refrigerant | Type x Original charge | | R410A x 16.0 kg (36 lb) | R410A x 22.0 kg (49 lb) | |
| | Control | | Indoor LEV and BC controller | | |
| Drawing | External | | YGM-W656-810 1/2 | YGM-W656-811 1/2 | |
| | Wiring | | YGM-W274-614 | YGM-W274-616 | |
| | Refrigerant circle | | YGM-rcc-200-400ygm-R2 | YGM-rcc-450-650ygm-R2 | |
| Standard attachment | Document | | Installation Manual | | |
| | Accessory | | Details refer to External Drw YGM-W656-810 1/2 | | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S-G, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PURY-P500YGM-A(-BS) | PURY-P550YGM-A(-BS) | |
|---|----------------------|------------------------------------|---------------------------------------|---------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *:1 | kW | 56.0 | 63.0 | |
| | *:1 | kcal / h | 48,200 | 54,200 | |
| | *:1 | Btu / h | 191,100 | 215,000 | |
| | *:2 | kcal / h | 50,000 | 55,000 | |
| | | Power input | kW | 15.59 | 17.08 |
| | | Current input | A | 26.3 / 25.0 / 24.0 | 28.8 / 27.3 / 26.4 |
| COP (kW / kW) | | | 3.59 | 3.69 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| Heating capacity (Nominal) | *:3 | kW | 63.0 | 67.0 | |
| | *:3 | kcal / h | 54,200 | 57,600 | |
| | *:3 | Btu / h | 215,000 | 228,600 | |
| | | Power input | kW | 15.89 | 16.37 |
| | | Current input | A | 26.8 / 25.4 / 24.5 | 27.6 / 26.2 / 25.3 |
| | COP (kW / kW) | | | 3.96 | 4.09 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | 50 ~ 150% of outdoor unit capacity | | | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 24 | | P20 ~ P250 / 2 ~ 24 | |
| Noise level (measured in anechoic room) | dB <A> | 60 / 61 | | 61 / 62 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø22.2 (ø7/8") Brazed | | |
| | Gas (Low press.) | mm (in.) | ø28.58 (ø1-1/8") Brazed | | |

| | | | | |
|---------------------------------------|--------------------------------|---|--|--|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | 1,840 x 1,990 x 840 | | 1,840 x 1,990 x 840 |
| | in. | 72-1/2" x 78-3/8" x 33-1/8" | | 72-1/2" x 78-3/8" x 33-1/8" |
| Net weight | kg (lb) | 481 (1061) | | 481 (1061) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | Inverter scroll hermetic comp. + Scroll hermetic comp. | | Inverter scroll hermetic comp. + Scroll hermetic comp. |
| | Manufacturer | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | Inverter + Direct | | |
| | Motor output | kW | 8.2 + 5.3 | 9.3 + 5.3 |
| | Case heater | kW | 0.045 x 2 (240V) | |
| | Lubricant | MEL32 | | |
| FAN | Air flow rate | m ³ / min | 400 | |
| | | L / s | 6,667 | |
| | | cfm | 14,126 | |
| | External static press. | 0 Pa (0 mmH ₂ O) | | 0 Pa (0 mmH ₂ O) |
| | Type x Quantity | Propeller fan x 2 | | Propeller fan x 2 |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor |
| | Motor output | kW | 0.38 x 2 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | |
| Protection | High pressure protection | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit (COMP. / FAN) | Over-current protection, Over-heat protection | | |
| | Compressor | Over-heat protection | | |
| | Fan motor | Thermal switch | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | R410A x 22.0 kg (49 lb) | | R410A x 22.0 kg (49 lb) |
| | Control | Indoor LEV and BC controller | | |
| Drawing | External | YGM-W656-811 1/2 | | |
| | Wiring | YGM-W274-616 | | |
| | Refrigerant circle | YGM-rcd-450-650ygm-R2 | | |
| Standard attachment | Document | Installation Manual | | |
| | Accessory | Details refer to External Drw YGM-W656-811 1/2 | | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S-G, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PURY-P600YGM-A(-BS) | PURY-P650YGM-A(-BS) | |
|---|----------------------|----------|---------------------------------------|-------------------------|--------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 67.4 | 73.0 | |
| | *1 | kcal / h | 58,000 | 62,800 | |
| | *1 | Btu / h | 230,000 | 249,100 | |
| | *2 | kcal / h | 60,000 | 65,000 | |
| | Power input | | kW | 17.59 | 19.65 |
| | Current input | | A | 29.6 / 28.2 / 27.1 | 33.1 / 31.5 / 30.3 |
| COP (kW / kW) | | | 3.83 | 3.72 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 43°C (23 ~ 109°F) | | |
| Heating capacity (Nominal) | *3 | kW | 75.0 | 81.5 | |
| | *3 | kcal / h | 64,500 | 70,100 | |
| | *3 | Btu / h | 255,900 | 278,100 | |
| | Power input | | kW | 17.73 | 19.82 |
| | Current input | | A | 29.9 / 28.4 / 27.4 | 33.4 / 31.7 / 30.6 |
| | COP (kW / kW) | | | 4.23 | 4.11 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | - 20 ~ 15.5°C (- 4 ~ 60°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 150% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 2 ~ 32 | P20 ~ P250 / 2 ~ 32 | |
| Noise level (measured in anechoic room) | | dB <A> | 61 / 62 | 62 / 62.5 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø28.58 (ø1-1/8") Brazed | ø28.58 (ø1-1/8") Brazed | |
| | Gas (Low press.) | mm (in.) | ø28.58 (ø1-1/8") Brazed | ø28.58 (ø1-1/8") Brazed | |

| | | | | |
|---------------------------------------|--------------------------------|----------------------|--|--|
| External finish | | | Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension H x W x D | mm | | 1,840 x 1,990 x 840 | 1,840 x 1,990 x 840 |
| | in. | | 72-1/2" x 78-3/8" x 33-1/8" | 72-1/2" x 78-3/8" x 33-1/8" |
| Net weight | | kg (lb) | 481 (1061) | 481 (1061) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | | Inverter scroll hermetic comp. + Scroll hermetic comp. | Inverter scroll hermetic comp. + Scroll hermetic comp. |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter + Direct | |
| | Motor output | kW | 10.1 + 5.3 | 10.9 + 5.3 |
| | Case heater | kW | 0.045 x 2 (240V) | 0.045 x 2 (240V) |
| | Lubricant | | MEL32 | |
| FAN | Air flow rate | m ³ / min | 400 | 400 |
| | | L / s | 6,667 | 6,667 |
| | | cfm | 14,126 | 14,126 |
| | External static press. | | 0 Pa (0 mmH ₂ O) | |
| | Type x Quantity | | Propeller fan x 2 | |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.38 x 2 | 0.38 x 2 |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP. / FAN) | | Over-current protection, Over-heat protection | |
| | Compressor | | Over-heat protection | |
| | Fan motor | | Thermal switch | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | | R410A x 22.0 kg (49 lb) | R410A x 22.0 kg (49 lb) |
| | Control | | Indoor LEV and BC controller | |
| Drawing | External | | YGM-W656-811 1/2 | |
| | Wiring | | YGM-W274-616 | |
| | Refrigerant circle | | YGM-rcd-450-650ygm-R2 | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw YGM-W656-811 1/2 | |
| Optional parts | | | High static pressure motor : PAC-KBU04MT-F (60 Pa) Joint : CMY-Y102S/L-G, CMY-Y202/302-G Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

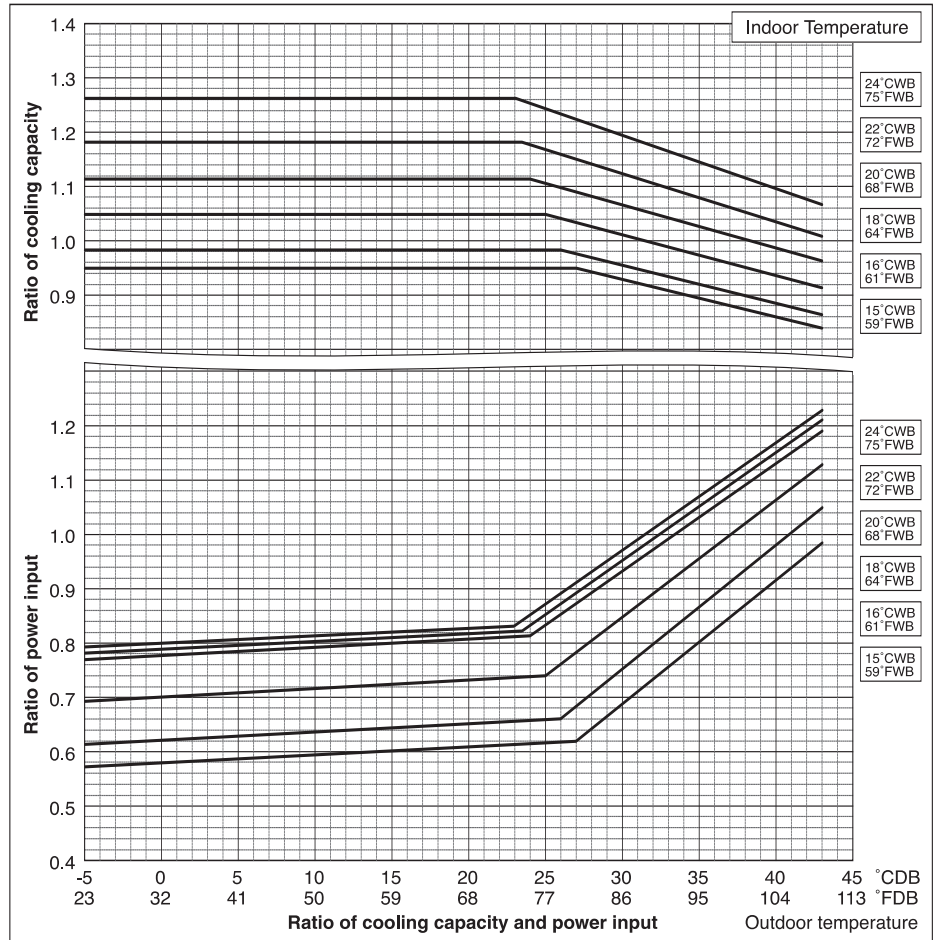
| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

2. CAPACITY TABLES

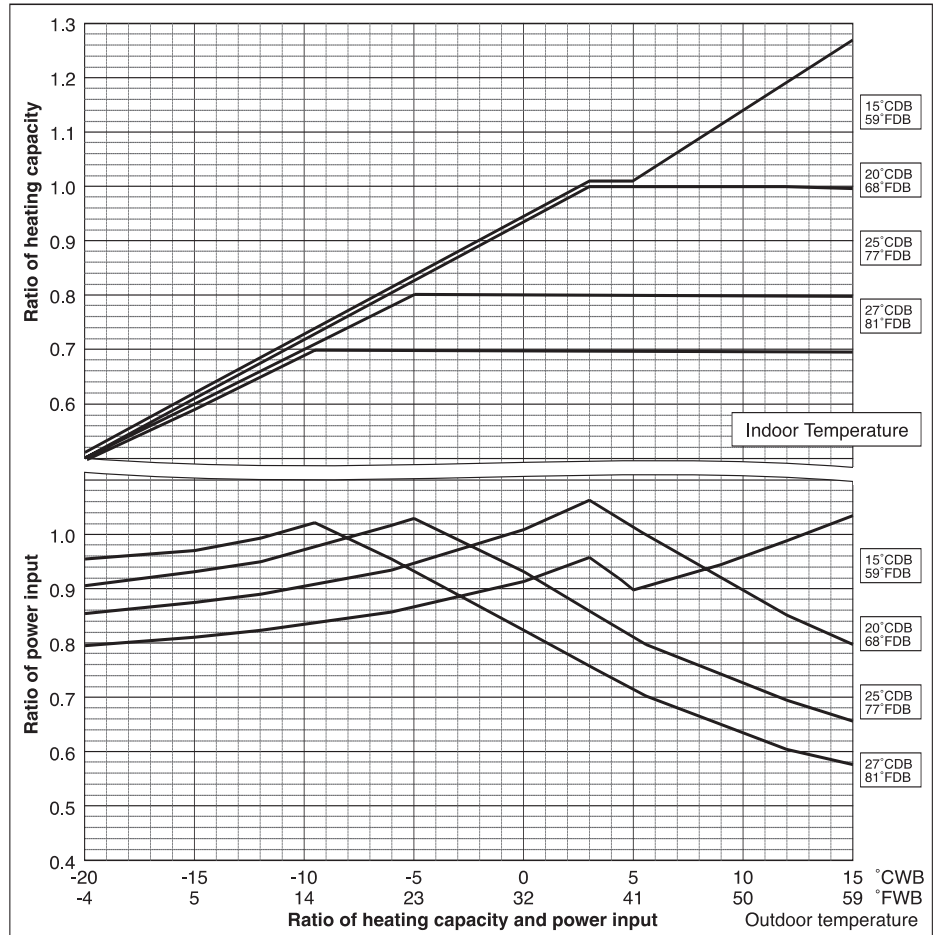
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| | PURY- | P200YGM | P250YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 22.4 | 28.0 |
| | kcal/h | 19,300 | 24,100 |
| | Btu/h | 76,400 | 95,500 |
| Input | kW | 6.14 | 7.72 |



| | PURY- | P200YGM | P250YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 25.0 | 31.5 |
| | kcal/h | 21,500 | 27,100 |
| | Btu/h | 85,300 | 107,500 |
| Input | kW | 5.98 | 7.62 |



Ref.cbt_p200-250

2. CAPACITY TABLES

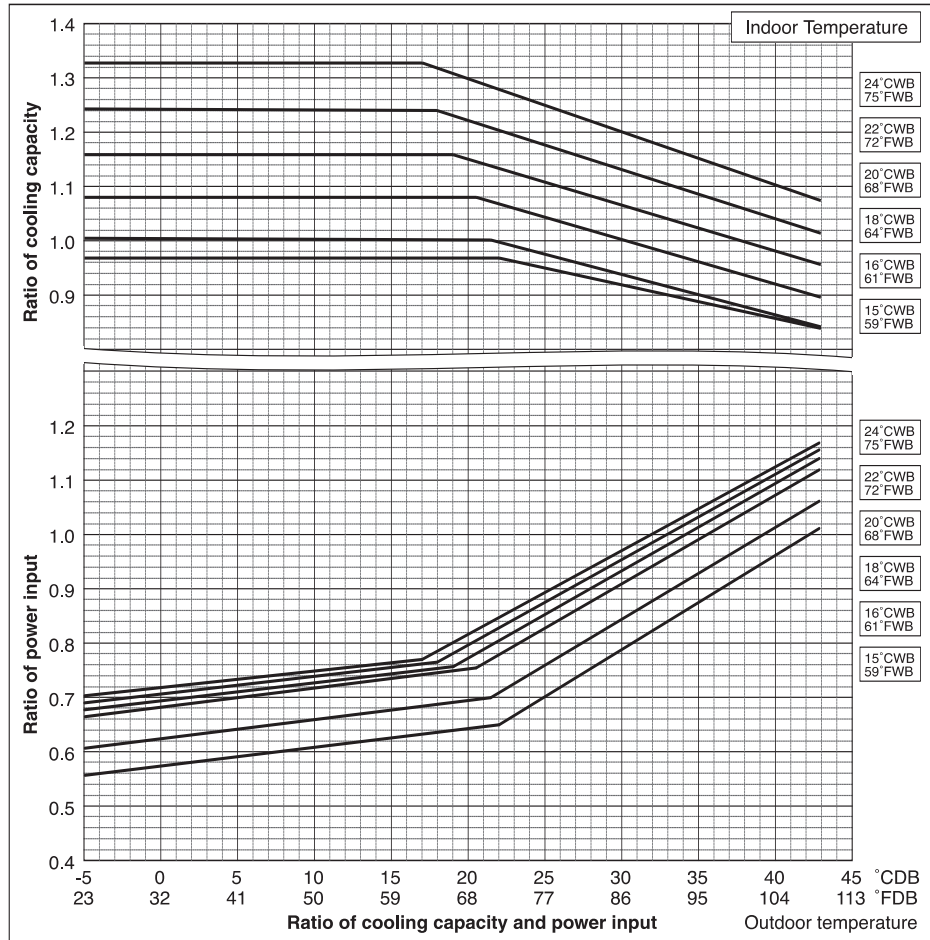
R410A Data G2

2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

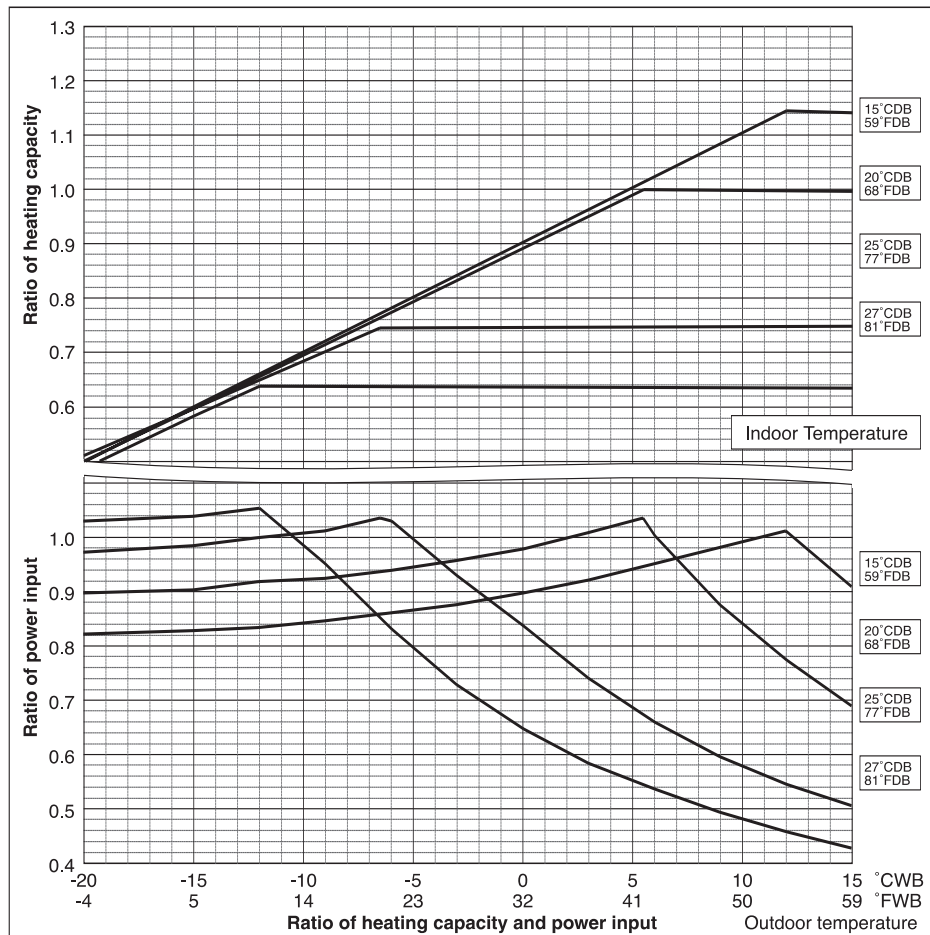
| PURY- | | P300YGM | P350YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 33.5 | 40.0 |
| | kcal/h | 28,800 | 34,400 |
| | Btu/h | 114,300 | 136,500 |
| Input | kW | 9.57 | 11.39 |

| PURY- | | P400YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 45.0 |
| | kcal/h | 38,700 |
| | Btu/h | 153,500 |
| Input | kW | 13.42 |



| PURY- | | P300YGM | P350YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 37.5 | 45.0 |
| | kcal/h | 32,300 | 38,700 |
| | Btu/h | 128,000 | 153,500 |
| Input | kW | 9.10 | 11.02 |

| PURY- | | P400YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 50.0 |
| | kcal/h | 43,000 |
| | Btu/h | 170,600 |
| Input | kW | 12.43 |



Ref:cbt_p300-400

2. CAPACITY TABLES

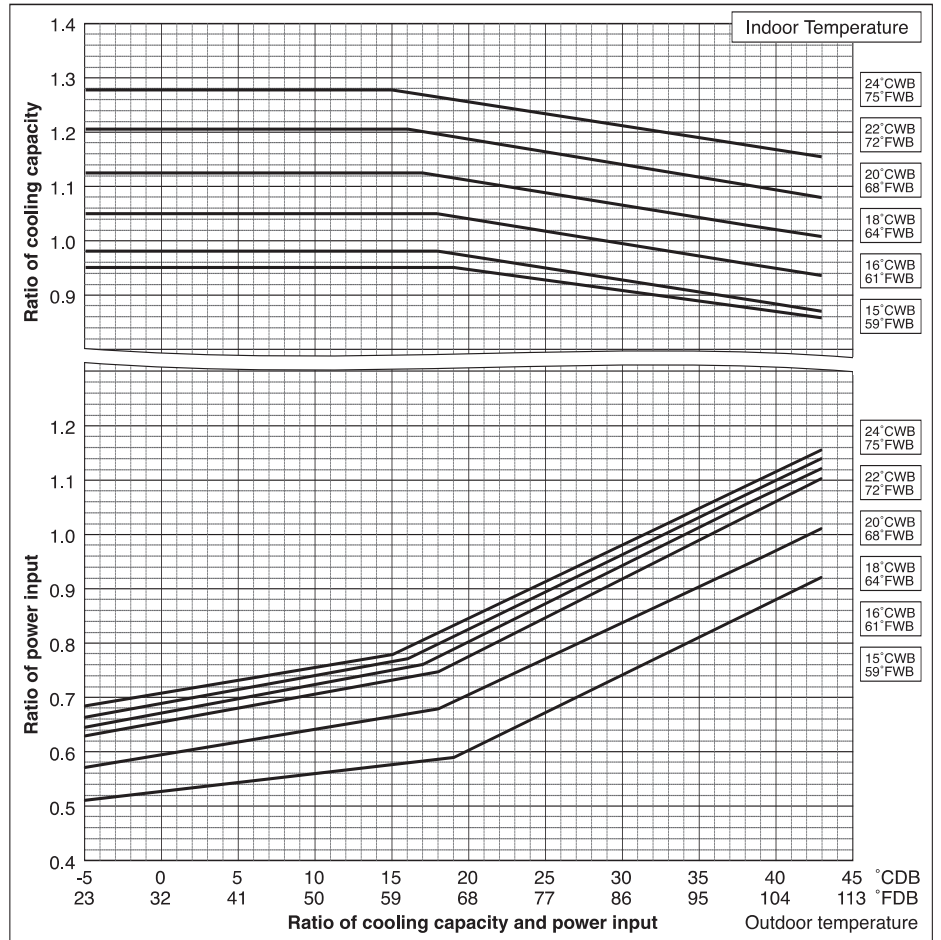
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PURY- | | P450YGM | P500YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 50.0 | 56.0 |
| | kcal/h | 43,000 | 48,200 |
| | Btu/h | 170,600 | 191,100 |
| Input | kW | 13.61 | 15.59 |

| PURY- | | P550YGM | P600YGM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 63.0 | 67.4 |
| | kcal/h | 54,200 | 58,000 |
| | Btu/h | 215,000 | 230,000 |
| Input | kW | 17.08 | 17.59 |

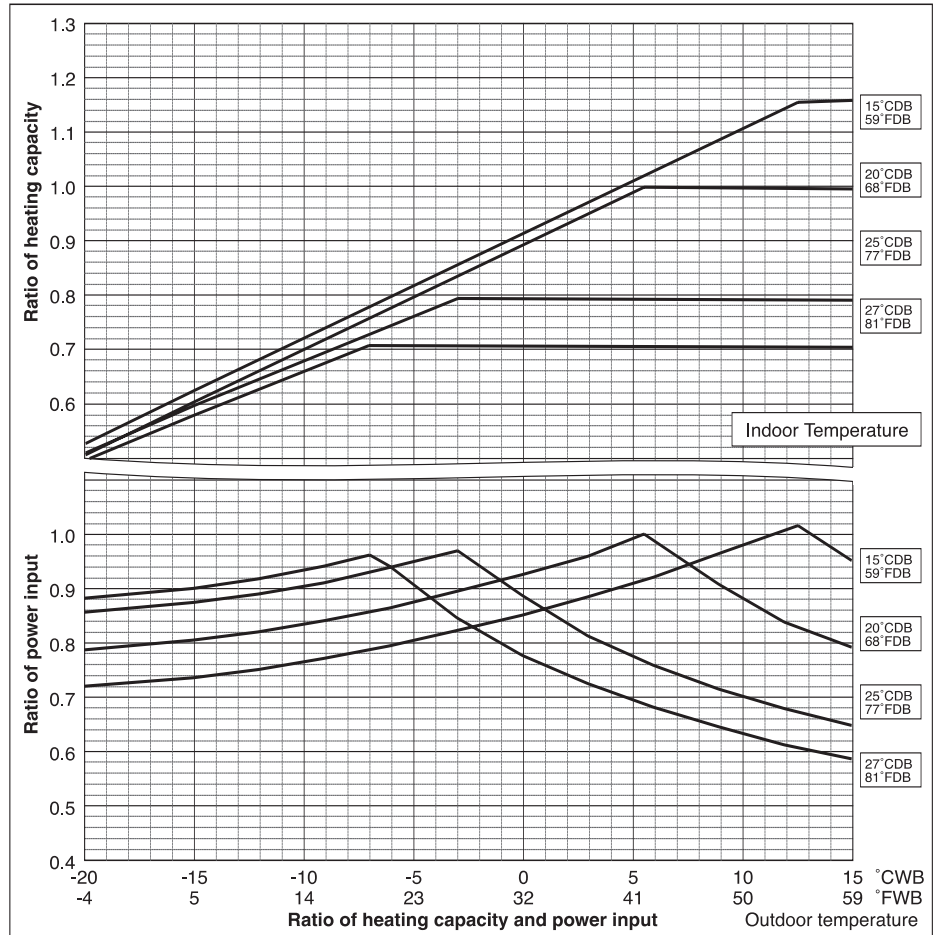
| PURY- | | P650YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 73.0 |
| | kcal/h | 62,800 |
| | Btu/h | 249,100 |
| Input | kW | 19.65 |



| PURY- | | P450YGM | P500YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 56.0 | 63.0 |
| | kcal/h | 48,200 | 54,200 |
| | Btu/h | 191,100 | 215,000 |
| Input | kW | 13.86 | 15.89 |

| PURY- | | P550YGM | P600YGM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 67.0 | 75.0 |
| | kcal/h | 57,600 | 64,500 |
| | Btu/h | 228,600 | 255,900 |
| Input | kW | 16.37 | 17.73 |

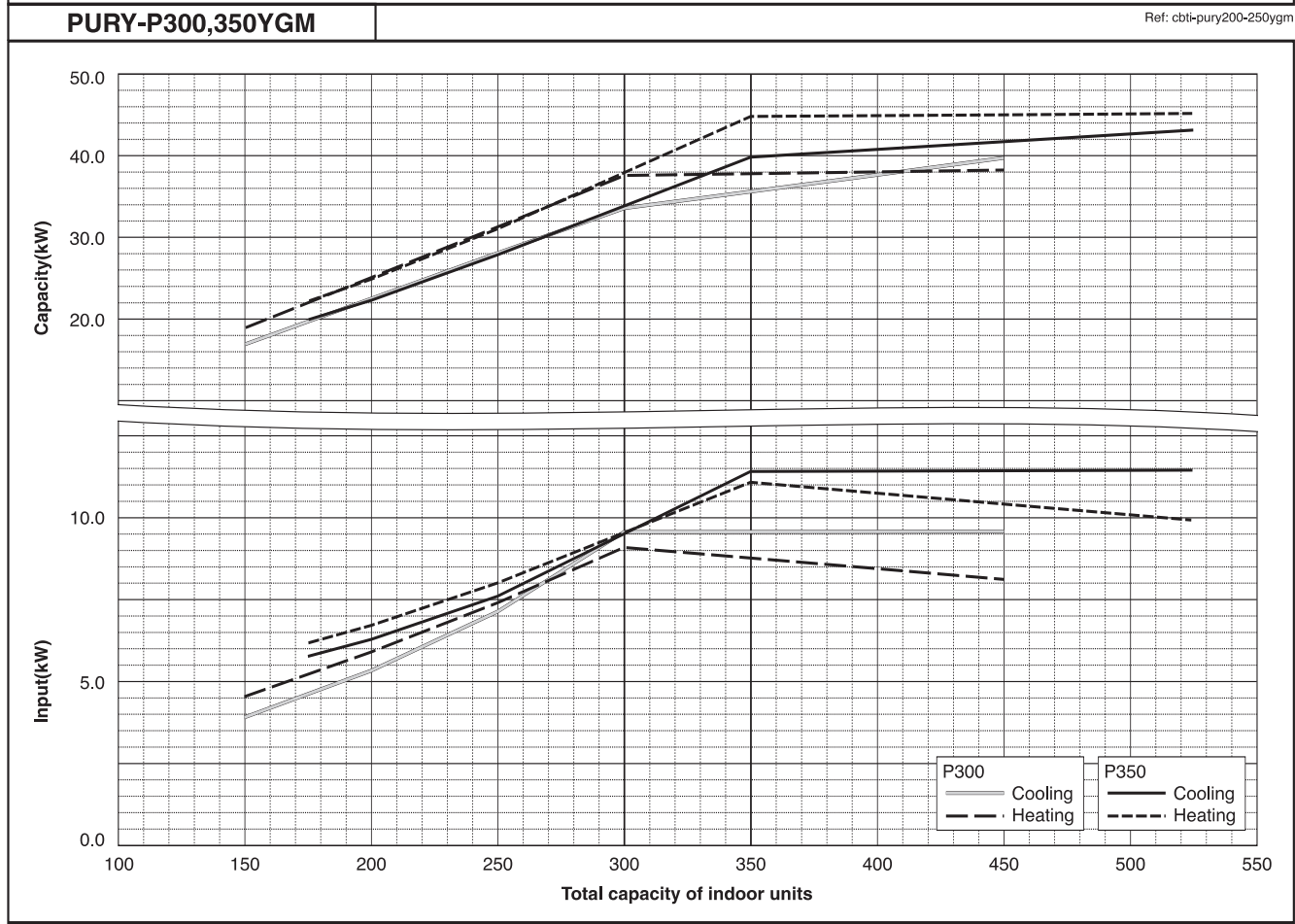
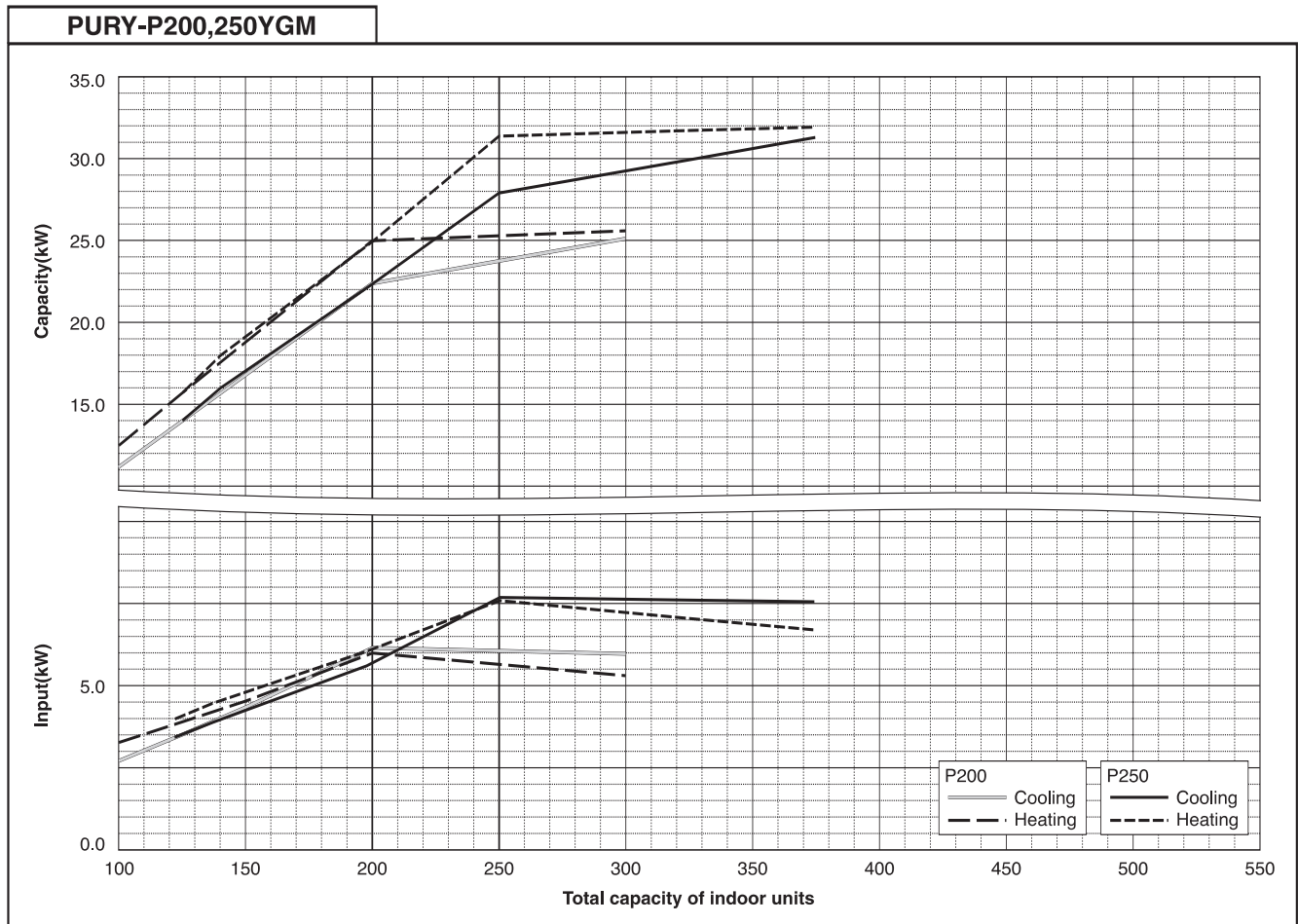
| PURY- | | P650YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 81.5 |
| | kcal/h | 70,100 |
| | Btu/h | 278,100 |
| Input | kW | 19.82 |



Ref.cbt_p450-650

2-2. Correction by total indoor

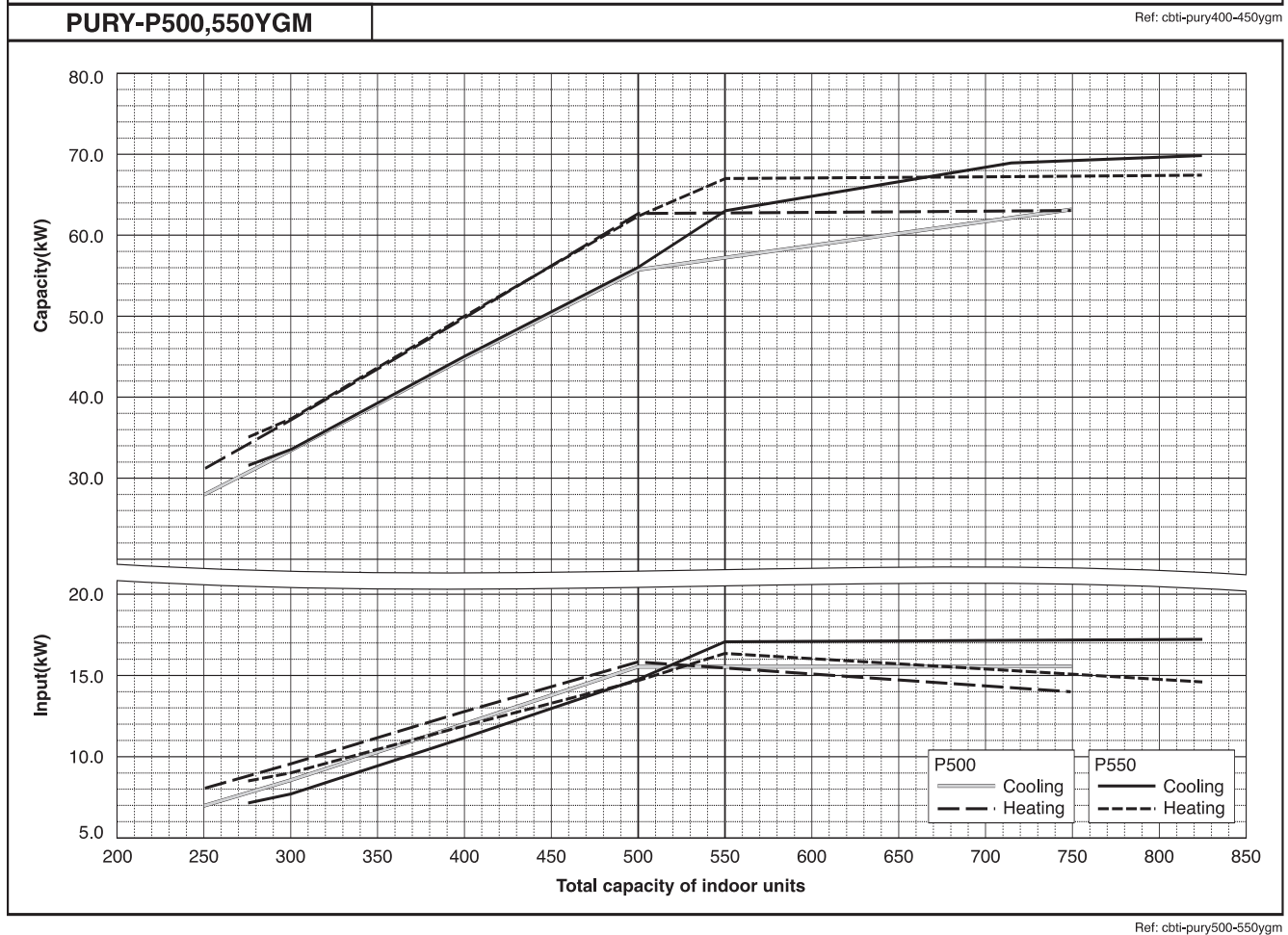
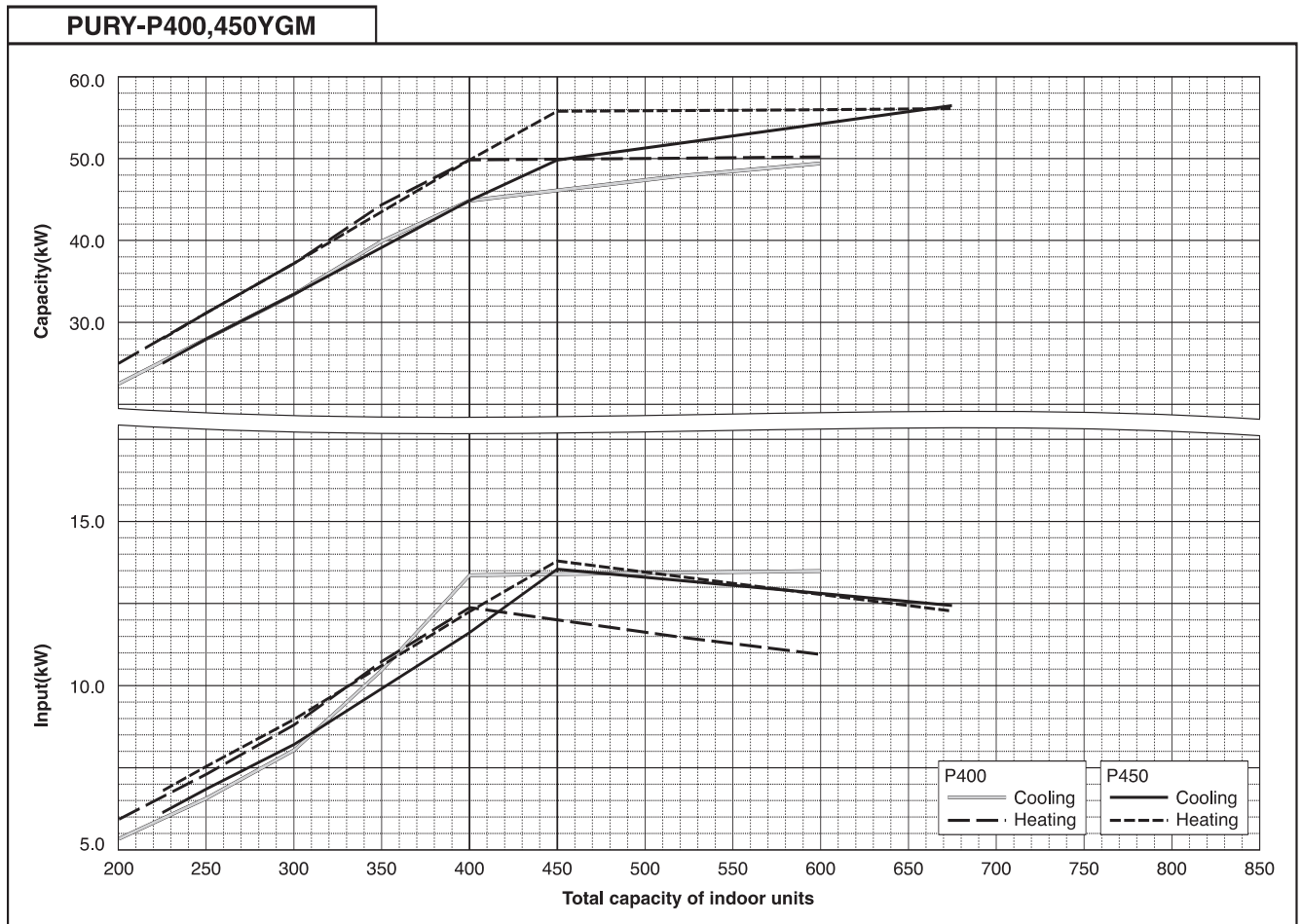
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



2. CAPACITY TABLES

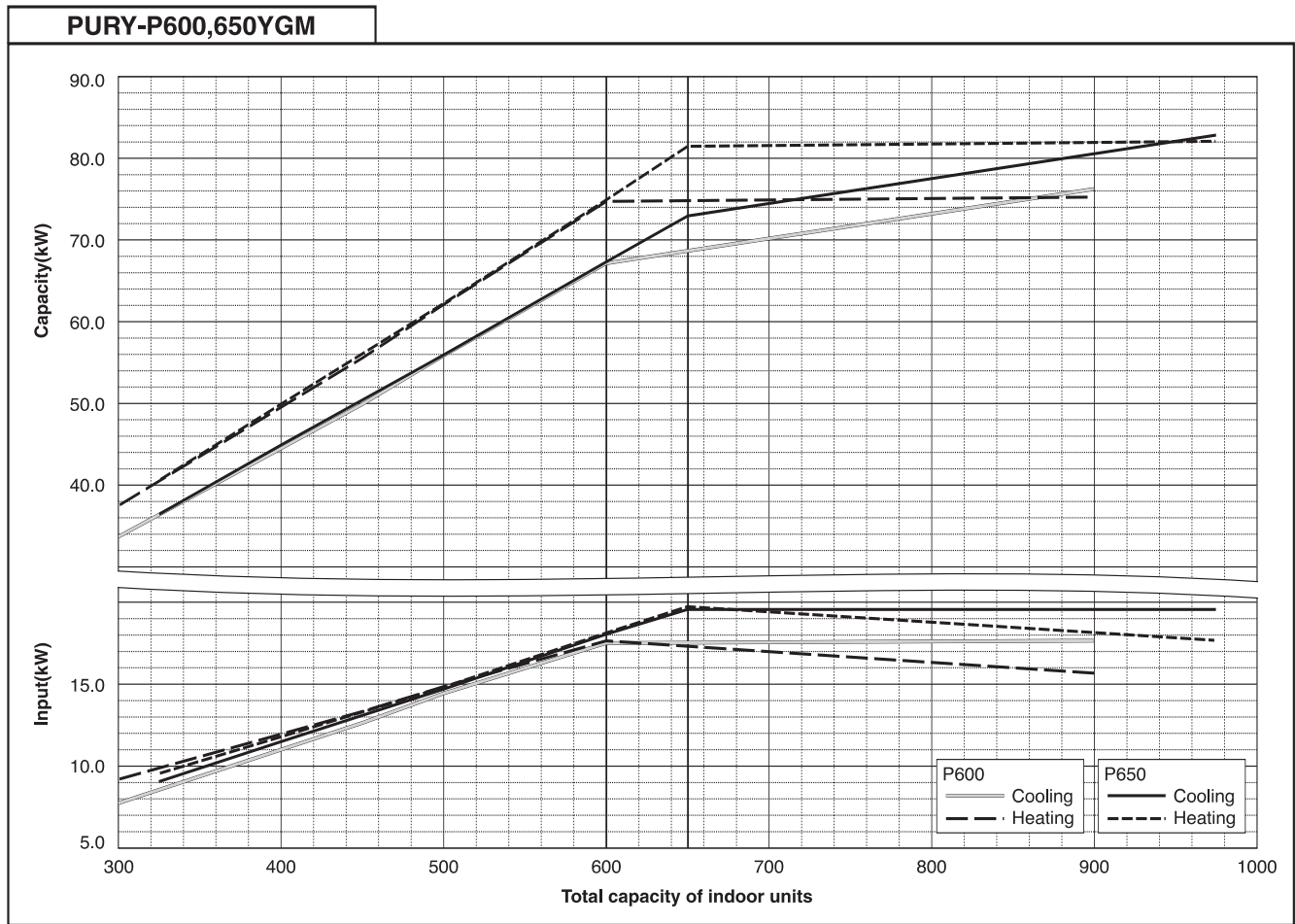
2-2. Correction by total indoor

CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



2-2. Correction by total indoor

CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.

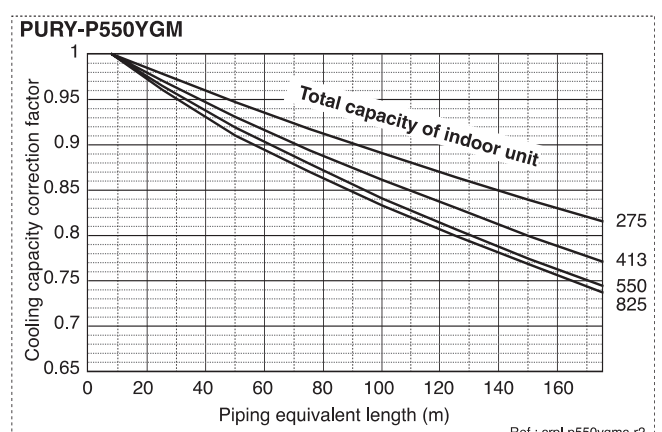
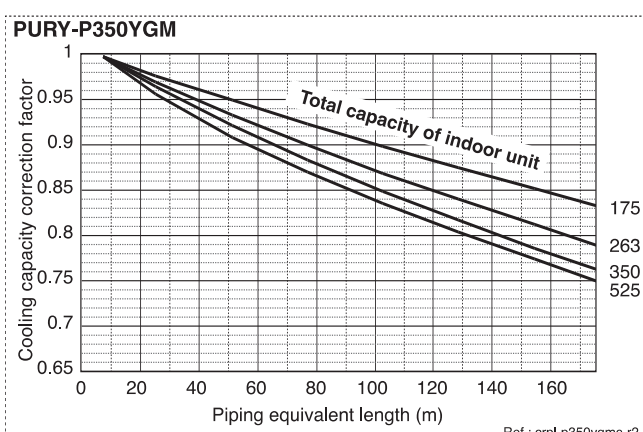
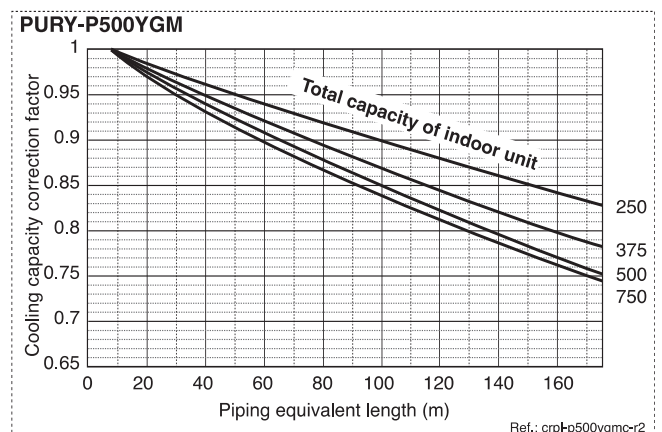
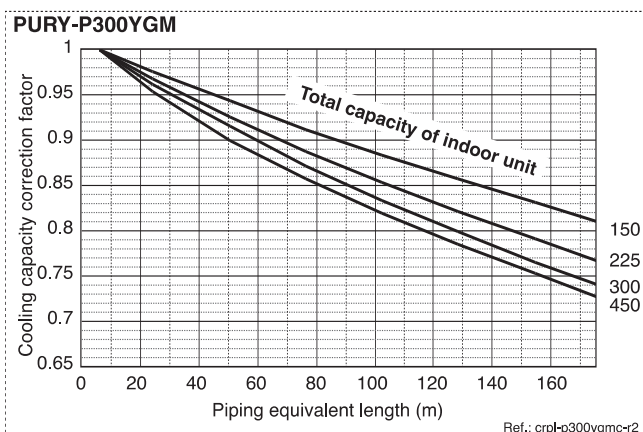
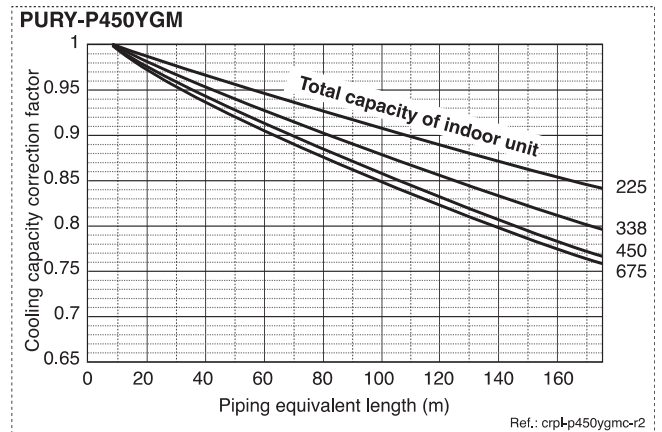
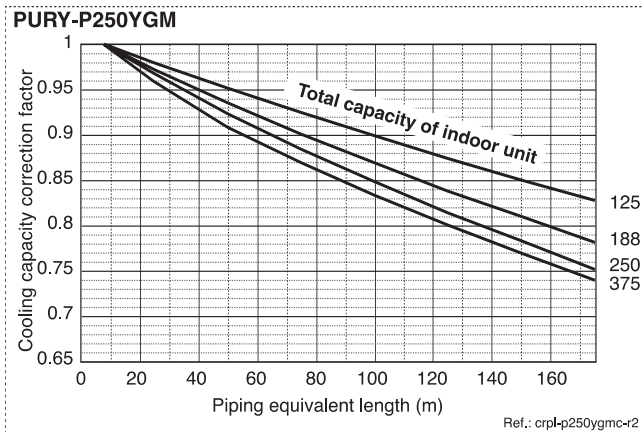
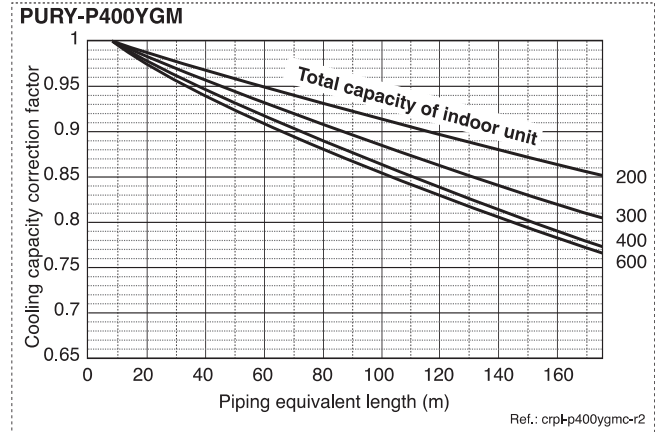
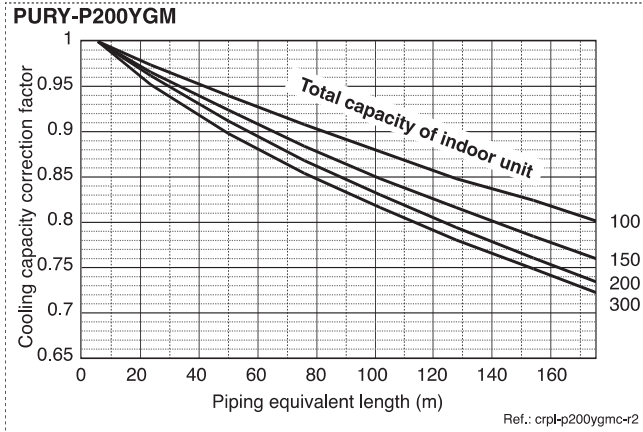


Ref: cbtl-pury600-650ygm

2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

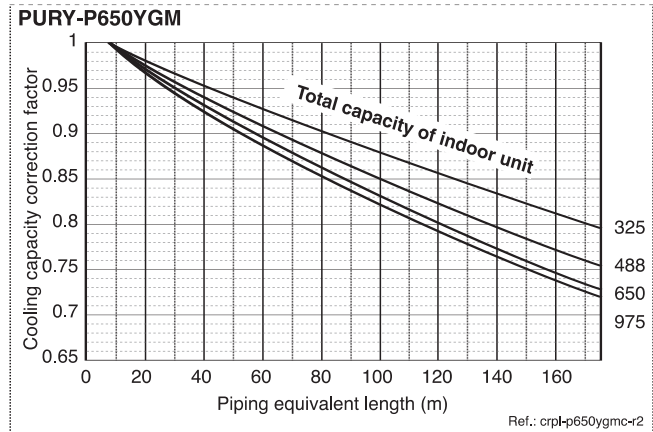
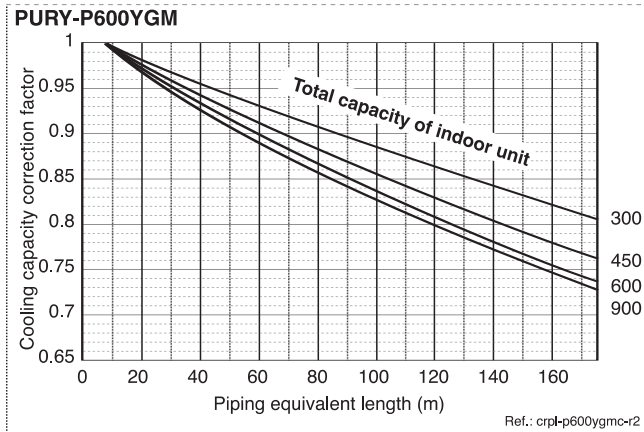
2-3a. Cooling capacity correction



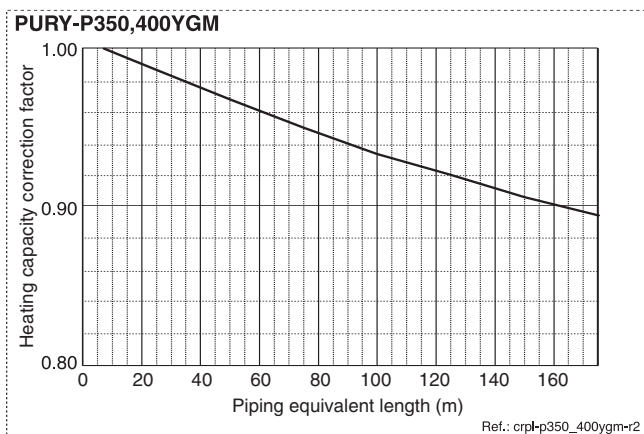
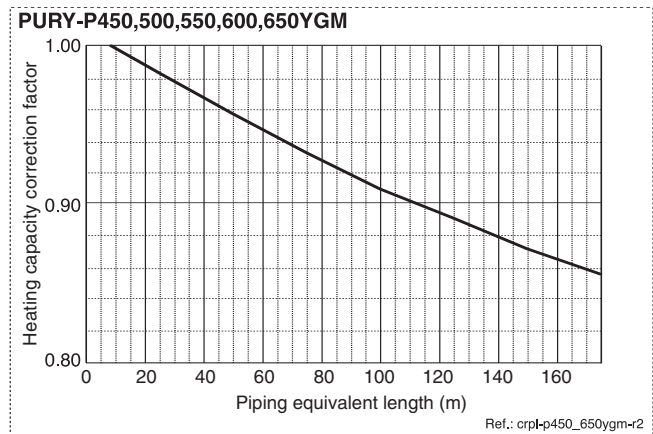
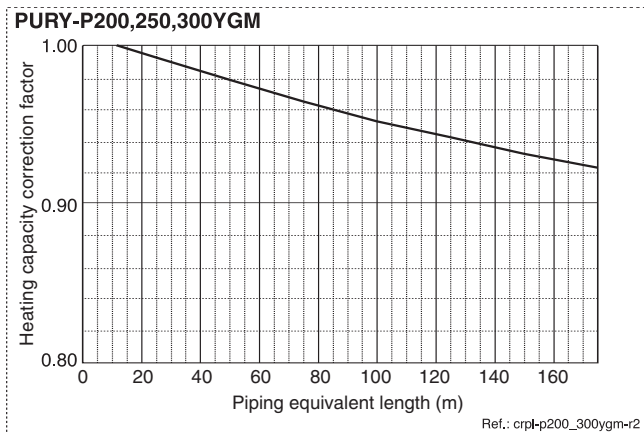
2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

2-3a. Cooling capacity correction



2-3b. Heating capacity correction



2-3c. How to obtain the equivalent length of piping

- 1 **PU(H)Y, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m
- 2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m
- 3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 4 **PUHY, PURY-P400,450,500,550,600,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m
- 5 **PUHY-P700,750,800YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) m
- 6 **PUHY-P850,900,950,1000,1050,1100,1150,1200,1250YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.95 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

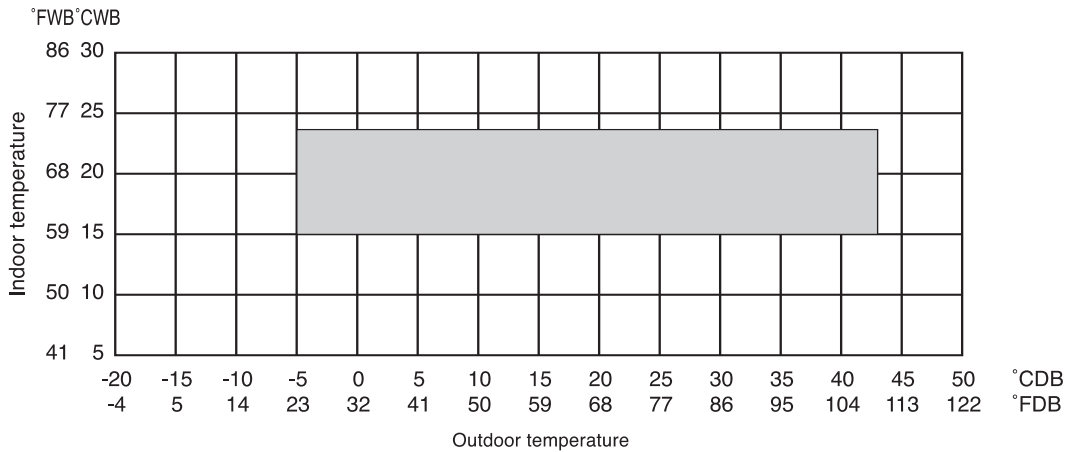
Due to frosting at the outdoor heat exchanger and the automatic defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor at frosting and defrosting

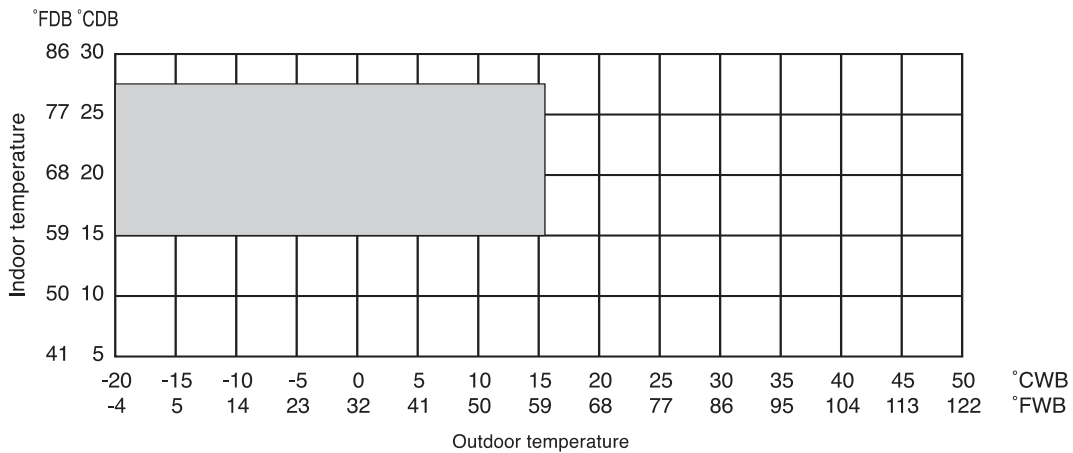
| Outdoor inlet air temp. °C | 6 | 4 | 2 | 1 | 0 | -2 | -4 | -6 | -8 | -10 | -20 |
|------------------------------------|-----|------|------|-------|------|------|------|------|------|------|------|
| Outdoor inlet air temp. °F | 43 | 39 | 36 | 34 | 32 | 28 | 25 | 21 | 18 | 14 | -4 |
| PUHY,PUY,PURY-P200,250YGM | 1.0 | 0.95 | 0.84 | 0.83 | 0.83 | 0.87 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY,PUY,PURY-P300YGM | 1.0 | 0.93 | 0.82 | 0.80 | 0.82 | 0.86 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 |
| PUHY,PUY,PURY-P350YGM | 1.0 | 0.93 | 0.85 | 0.83 | 0.84 | 0.86 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 |
| PUHY,PURY-P400YGM | 1.0 | 0.95 | 0.90 | 0.87 | 0.88 | 0.89 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY,PURY-P450,500YGM | 1.0 | 0.98 | 0.89 | 0.86 | 0.89 | 0.90 | 0.92 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY,PURY-P550,600,650YGM | 1.0 | 0.94 | 0.87 | 0.86 | 0.87 | 0.88 | 0.90 | 0.90 | 0.93 | 0.93 | 0.93 |
| PUHY,PURY-P700,750,800YSGM | 1.0 | 0.98 | 0.89 | 0.879 | 0.89 | 0.90 | 0.92 | 0.95 | 0.95 | 0.95 | 0.95 |
| PUHY-P850,900,950,1000YSGM | 1.0 | 0.94 | 0.87 | 0.86 | 0.87 | 0.88 | 0.90 | 0.90 | 0.93 | 0.93 | 0.93 |
| PUHY-P1050,1100,1150,1200,1250YSGM | 1.0 | 0.94 | 0.87 | 0.86 | 0.87 | 0.88 | 0.90 | 0.90 | 0.93 | 0.93 | 0.93 |

2-5. Temp. range of running

• Cooling

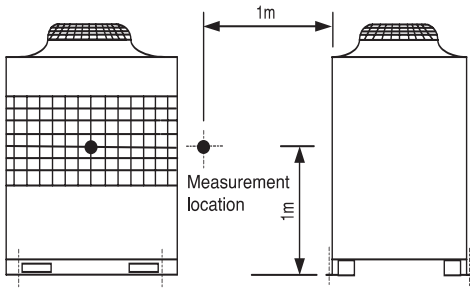


• Heating



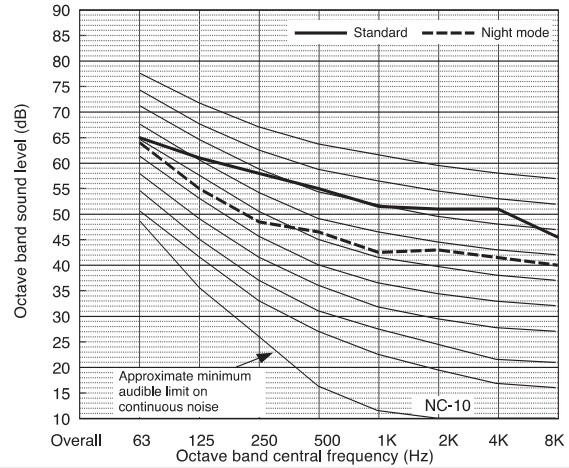
Ref.: tr-ygm-r2

Measurement condition PURY-P200,250,300,350,400YGM



Sound level of PURY-P300YGM-A(-BS)

Ref. : P300YGM-WYNB0-3635

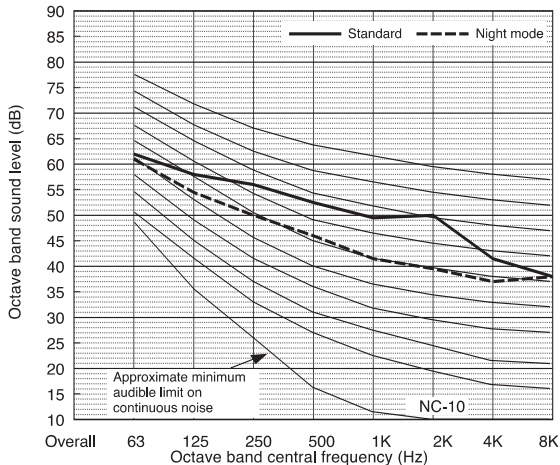


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 65 | 61 | 58 | 55 | 51.5 | 51 | 51 | 45.5 | 59 |
| | 60Hz | 65 | 61 | 58 | 55 | 51.5 | 51 | 51 | 45.5 | 59 |
| Night mode | 50/60Hz | 64 | 55 | 48.5 | 46.5 | 42.5 | 43 | 41.5 | 40 | 51 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P200YGM-A(-BS)

Ref. : P200YGM-WYNB0-3633

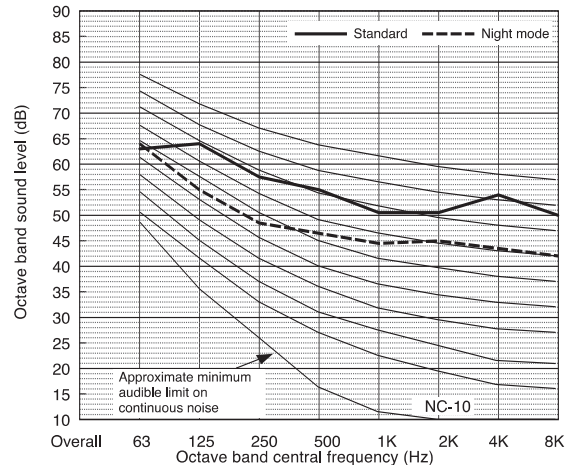


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 62 | 58 | 56 | 52.5 | 49.5 | 50 | 41.5 | 38 | 56 |
| | 60Hz | 62 | 58 | 56 | 52.5 | 49.5 | 50 | 41.5 | 38 | 56 |
| Night mode | 50/60Hz | 61 | 54.5 | 50 | 46 | 41.5 | 39.5 | 37 | 38 | 49 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P350YGM-A(-BS)

Ref. : P350YGM-WYNB0-3636

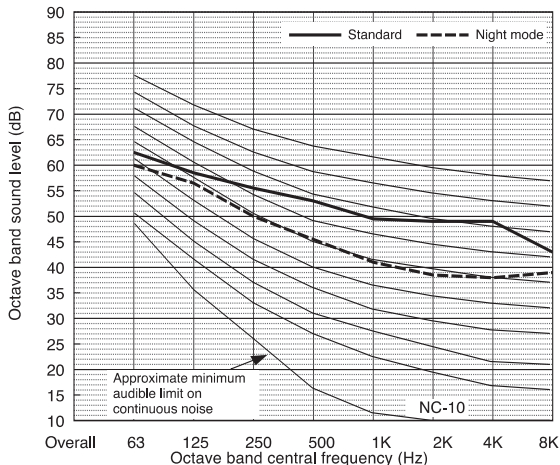


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 63 | 64 | 57.5 | 55 | 50.5 | 50.5 | 54 | 50 | 60 |
| | 60Hz | 63 | 64 | 57.5 | 55 | 50.5 | 50.5 | 54 | 50 | 60 |
| Night mode | 50/60Hz | 64 | 55 | 48.5 | 46.5 | 44.5 | 45 | 43.5 | 42 | 52 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P250YGM-A(-BS)

Ref. : P250YGM-WYNB0-3634

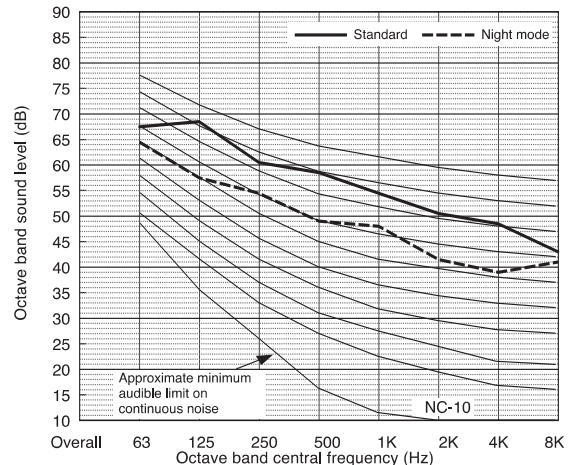


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 62.5 | 58.5 | 55.5 | 53 | 49.5 | 49 | 49 | 43 | 57 |
| | 60Hz | 62.5 | 58.5 | 55.5 | 53 | 49.5 | 49 | 49 | 43 | 57 |
| Night mode | 50/60Hz | 60 | 56.5 | 50 | 45.5 | 41 | 38.5 | 38 | 39 | 49 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P400YGM-A(-BS)

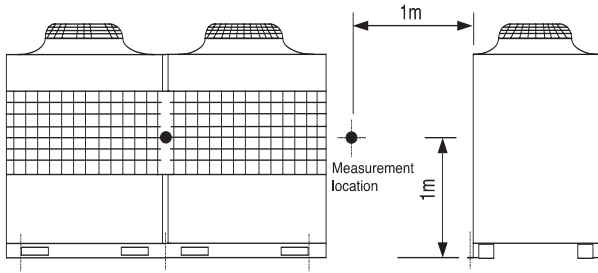
Ref. : P400YGM-WYNB0-3637



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 67.5 | 68.5 | 60.5 | 58.5 | 54.5 | 50.5 | 48.5 | 43 | 61 |
| | 60Hz | 67.5 | 68.5 | 60.5 | 58.5 | 54.5 | 50.5 | 48.5 | 43 | 61 |
| Night mode | 50/60Hz | 64.5 | 57.5 | 54.5 | 49 | 48 | 41.5 | 39 | 41 | 53 |

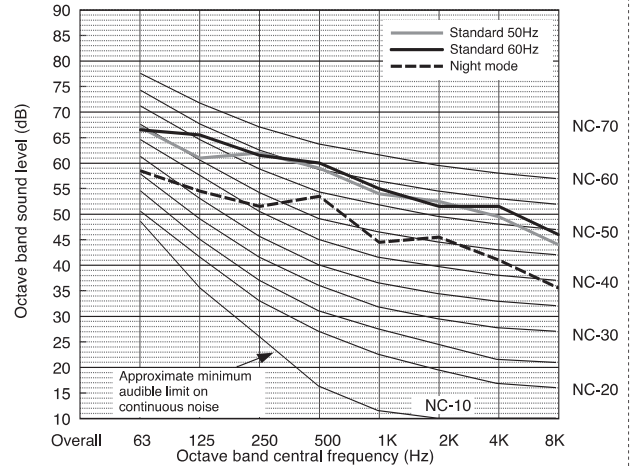
* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Measurement condition PURY-P450,500,550,600,650YGM



Sound level of PURY-P550YGM-A(-BS)

Ref. : P550YGM-WYNB0-3640

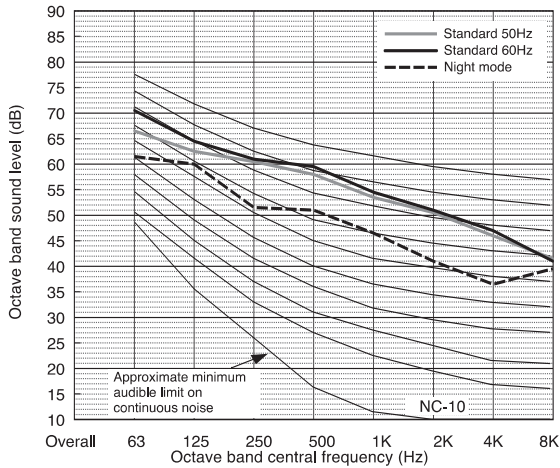


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 67 | 61 | 62 | 59 | 54 | 52.5 | 49.5 | 44 | 61 |
| | 60Hz | 66.5 | 65.5 | 61.5 | 60 | 55 | 51.5 | 51.5 | 46 | 62 |
| Night mode | 50/60Hz | 58.5 | 54.5 | 51.5 | 53.5 | 44.5 | 45.5 | 41 | 35.5 | 54 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P450YGM-A(-BS)

Ref. : P450YGM-WYNB0-3638

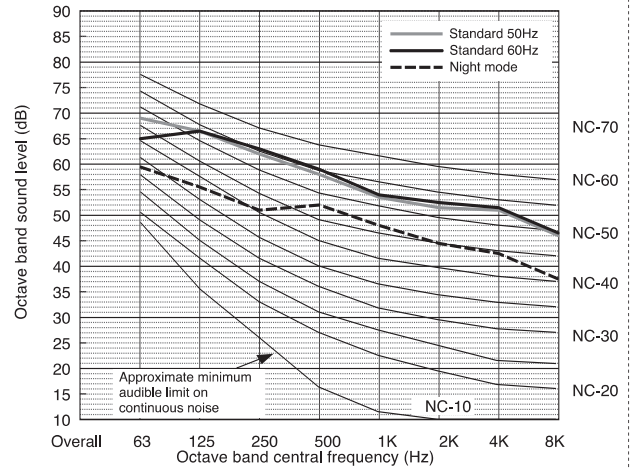


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 66.5 | 62.5 | 60.5 | 58 | 53.5 | 50.5 | 46 | 41.5 | 60 |
| | 60Hz | 70.5 | 64.5 | 61 | 59.5 | 54.5 | 51 | 47 | 41 | 61 |
| Night mode | 50/60Hz | 61.5 | 60 | 51.5 | 51 | 46.5 | 41 | 36.5 | 39.5 | 53 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P600YGM-A(-BS)

Ref. : P600YGM-WYNB0-3641

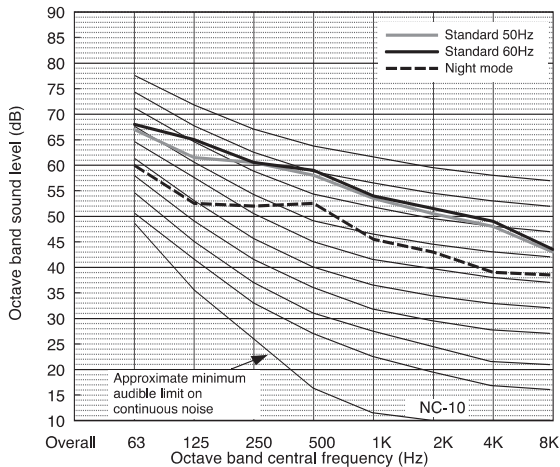


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 69 | 66.5 | 62 | 58 | 53.5 | 51.5 | 51 | 46 | 61 |
| | 60Hz | 65 | 66.5 | 63 | 59 | 54 | 52.5 | 51.5 | 46.5 | 62 |
| Night mode | 50/60Hz | 59.5 | 55.5 | 51 | 52 | 48 | 44.5 | 42.5 | 37.5 | 54 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P500YGM-A(-BS)

Ref. : P500YGM-WYNB0-3639

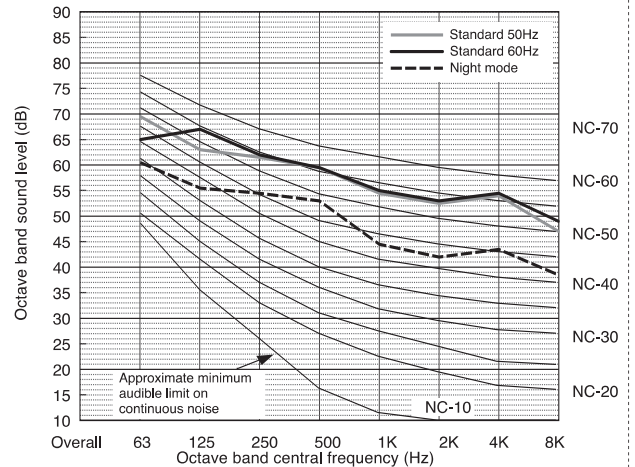


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 67 | 61.5 | 60.5 | 58 | 53.5 | 50.5 | 48 | 43 | 60 |
| | 60Hz | 68 | 65 | 60.5 | 59 | 54 | 51.5 | 49 | 43.5 | 61 |
| Night mode | 50/60Hz | 60 | 52.5 | 52 | 52.5 | 45.5 | 43 | 39 | 38.5 | 53 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PURY-P650YGM-A(-BS)

Ref. : P650YGM-WYNB0-3642

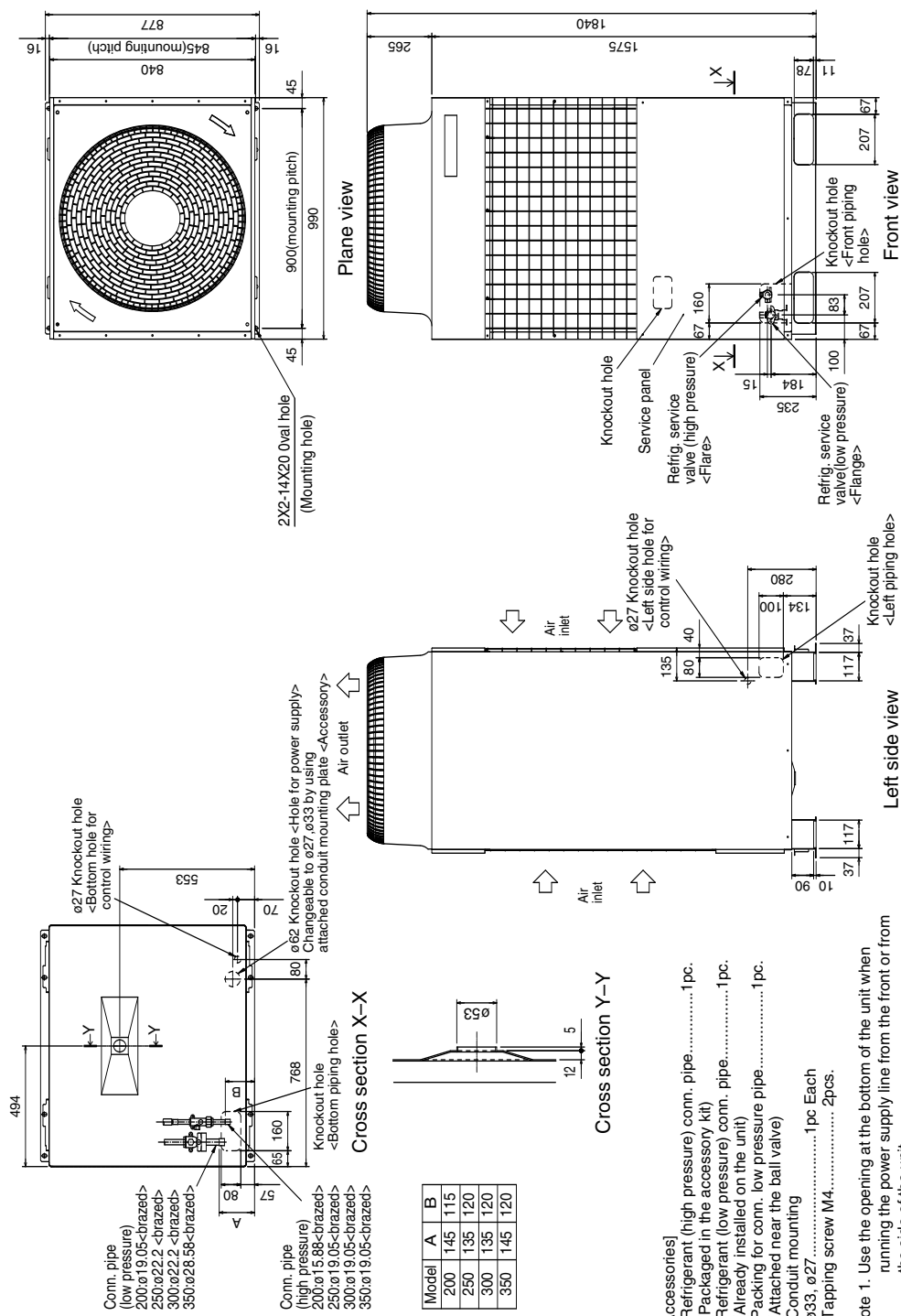


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 69.5 | 63 | 61.5 | 59.5 | 54.5 | 52.5 | 54 | 47 | 62 |
| | 60Hz | 65 | 67 | 62 | 59.5 | 55 | 53 | 54.5 | 49 | 62.5 |
| Night mode | 50/60Hz | 60.5 | 55.5 | 54.5 | 53 | 44.5 | 42 | 43.5 | 38.5 | 54 |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

PURY-P200,250,300,350YGM-A(-BS)

Draw. : YGM-W656-809 1/2
Unit : mm



Spacing PURY-P200,250,300,350YGM-A(-BS)

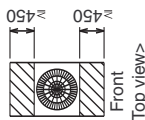
Drw. : YGM-W656-809 2/2
Unit : mm

1.Space required around unit

* In case of single installation

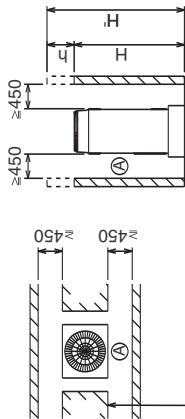
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



[When inlet air enters from right and left sides of unit]

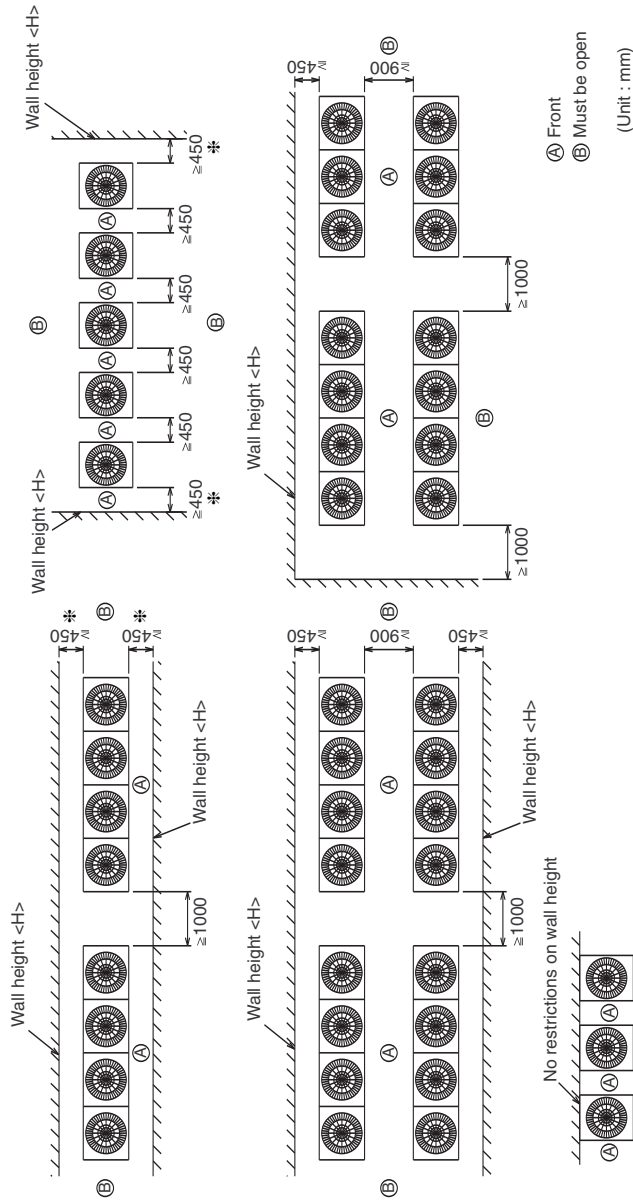
- ① Wall heights <H> of the front and the back sides shall be within total height of unit.
- ② When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure. h=wall height <H>-total height of unit.



No restrictions on wall height <left and right>

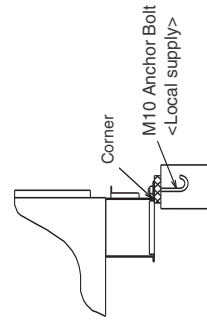
* In case of collective installation and continuous installation

- ① Space required for collective installation and continuous installation: When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H>-total height of unit) to # marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



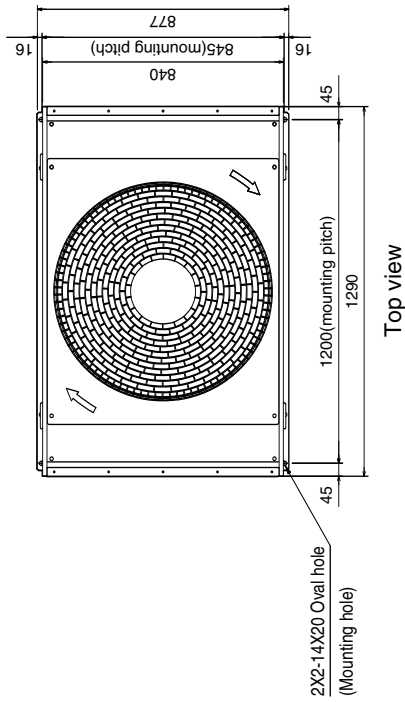
2.Foundation work

- ① When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- ③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.

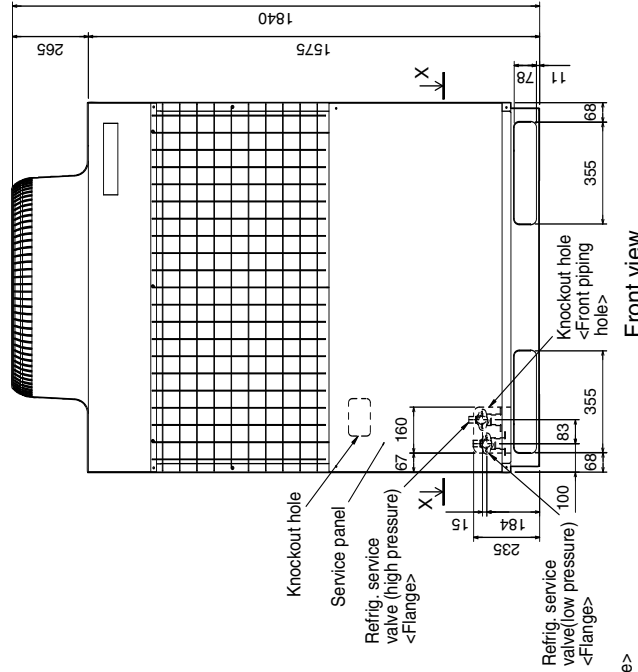


PURY-P400YGM-A(-BS)

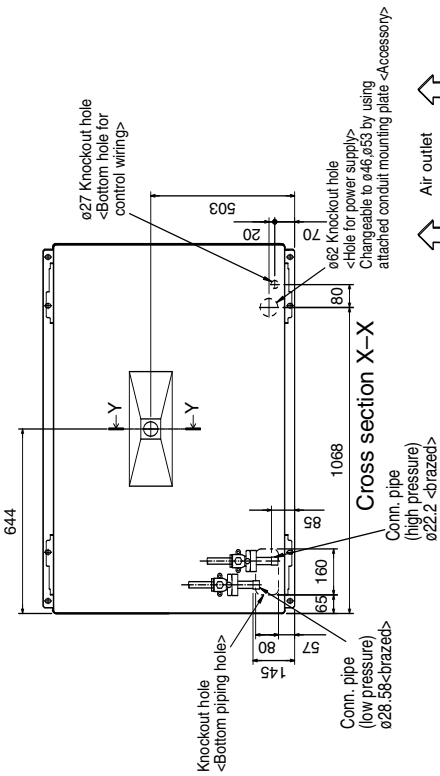
Drw. : YGM-W656-810 1/2
Unit : mm



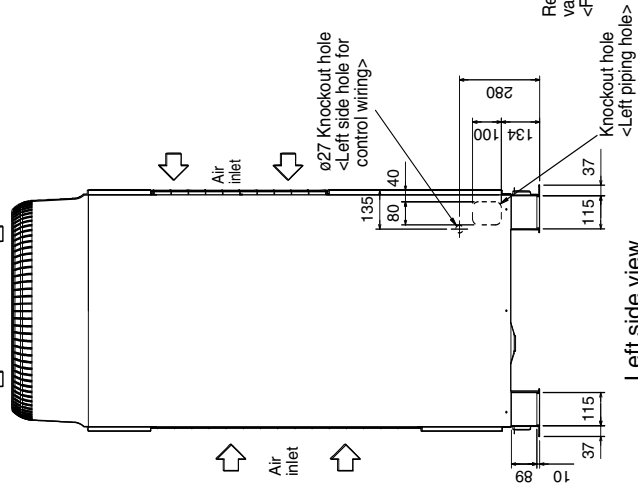
Top view



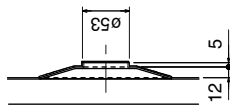
Front view



Cross section X-X



Left side view



Cross section Y-Y

- [Accessories]
- Refrigerant (high pressure) conn. pipe..... 2pcs.
(Conn. pipe for front piping..... 1pc.
: Already installed on the unit)
 - (Conn. pipe for bottom piping..... 1pc.
: Packaged in the accessory kit)
 - Refrigerant (low pressure) conn. pipe..... 1pc.
(Already installed on the unit)
 - Packing for conn. high pressure pipe..... 1pc.
(Attached near the ball valve)
 - Packing for conn. low pressure pipe..... 1pc.
(Attached near the ball valve)
 - Conduit mounting plate
ø53, ø46..... 1pc. Each
 - Tapping screw M4..... 2pcs.

Notes1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.
Notes2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PURY-P400YGM-A(-BS)

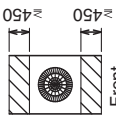
Drw. : YGM-W656-810 2/2
Unit : mm

1.Space required around unit

* In case of single installation

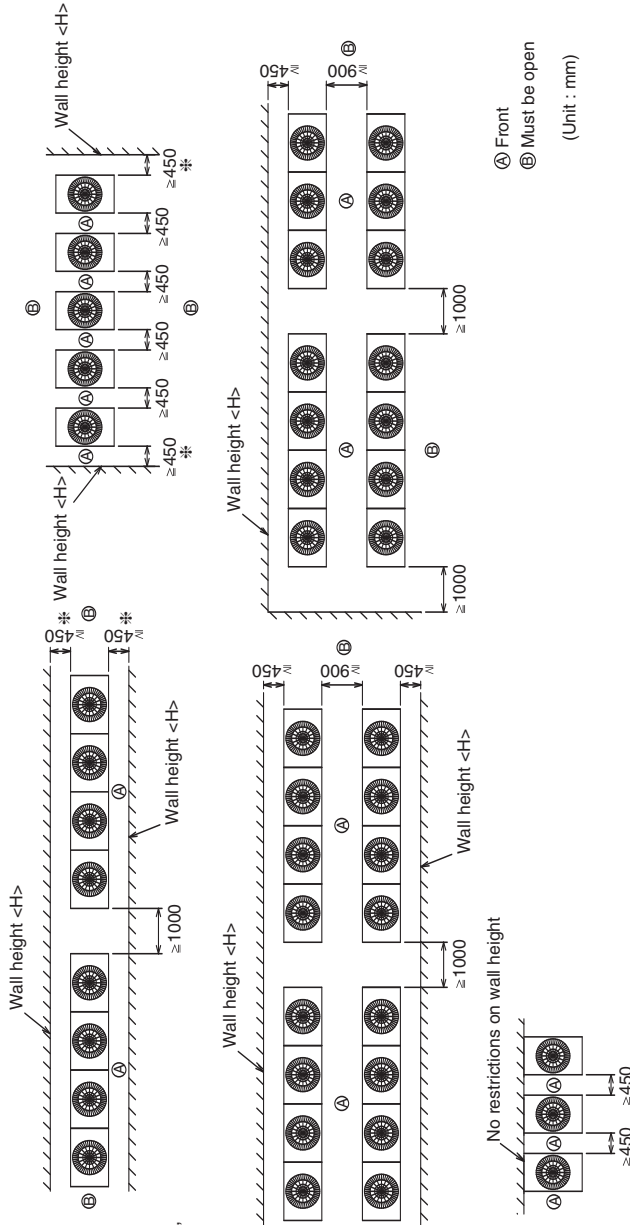
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



* In case of collective installation and continuous installation

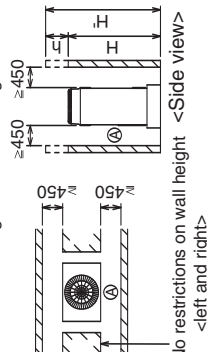
- ① Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height h exceeds total height of unit, add h dimension
(h =wall height <math><H>-total height of unit) to $\#$ marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



Ⓐ Front
Ⓑ Must be open
(Unit : mm)

[When inlet air enters from right and left sides of unit]

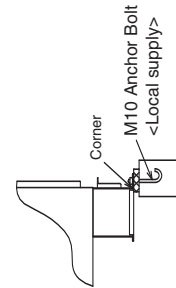
- ① Wall heights H of the front and the back sides shall be within total height of unit.
- ② When wall height H exceeds total height of unit, add h dimension to 450 of the following figure.
 h =wall height H-total height of unit.



No restrictions on wall height <math><Left><Right></math>

2.Foundation work

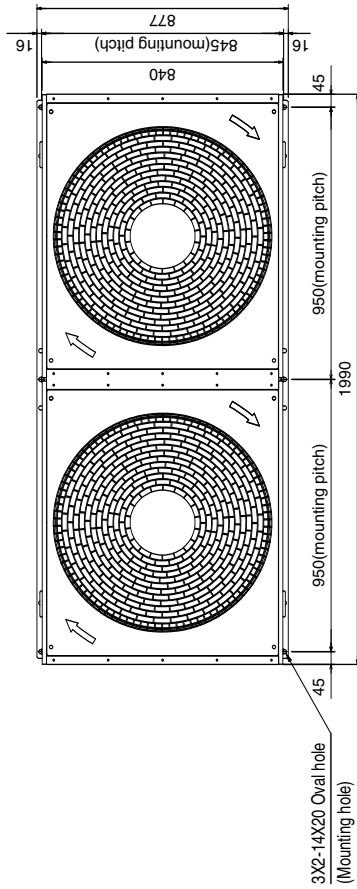
- ① When building the foundation, give full attention to the floor strength, drain water disposal <math><Drain\ water\ flows\ out\ of\ the\ unit,\ during\ operation></math>, piping and wiring routes.
- ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- ③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



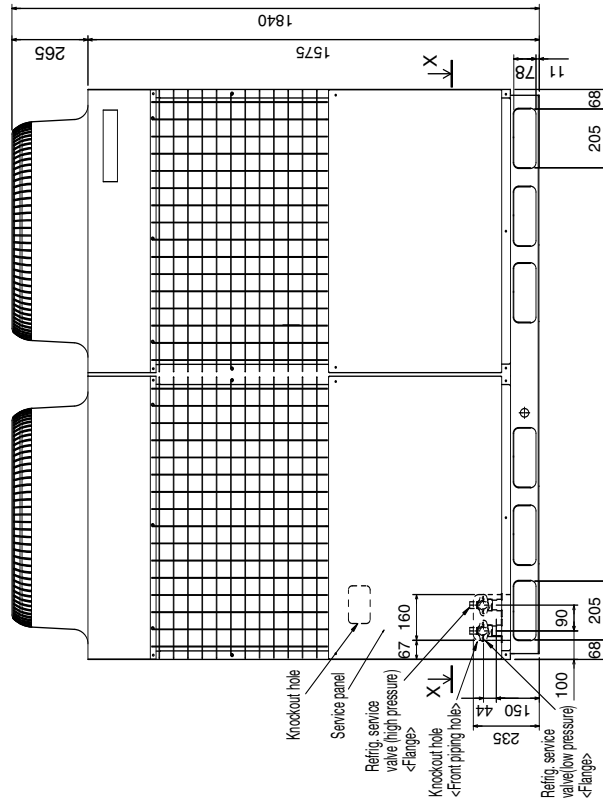
Y
R2
WY
WR2
S
OP

PURY-P450,500,550,600,650YGM-A(-BS)

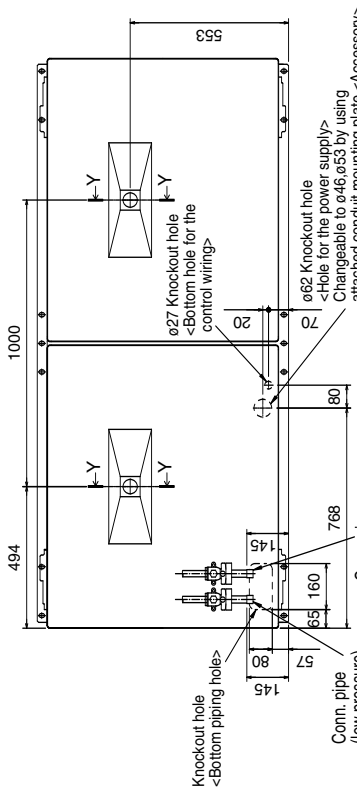
Drw. : YGM-W656-811 1/2
Unit : mm



Top view

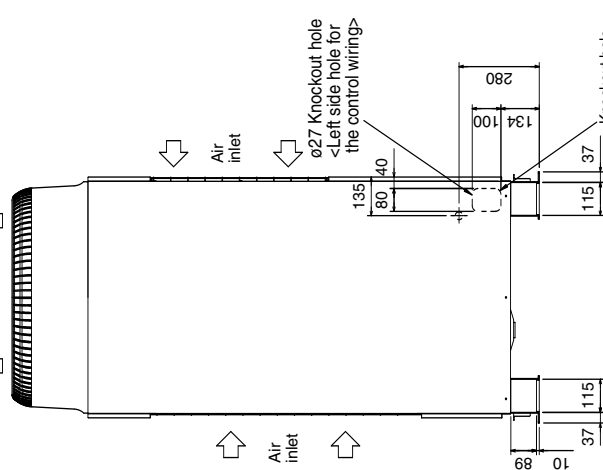


Front view



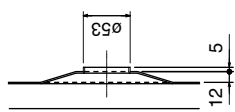
Cross section X-X

- Conn. pipe (low pressure) ø28.58-<brazed>
- Conn. pipe (high pressure) 450ø22.2-<brazed>
500ø22.2-<brazed>
550ø28.58-<brazed>
600ø28.58-<brazed>
650ø28.58-<brazed>



Left side view

Cross section Y-Y



- [Accessories]
- Refrigerant (high pressure) conn. pipe..... 1 pc. (Already installed on the unit)
 - Refrigerant (low pressure) conn. pipe..... 1 pc. (Already installed on the unit)
 - Packing for conn. high pressure pipe..... 1 pc. (Attached near the ball valve)
 - Packing for conn. low pressure pipe..... 1 pc. (Attached near the ball valve)
 - Conduit mounting plate ø53, ø46..... 1 pc. Each
 - Tapping screw M4..... 2 pcs.

Notes1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Notes2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PURY-P450,500,550,600,650YGM-A-(BS)

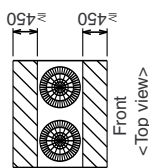
Drw. : YGM-W656-811 2/2
Unit : mm

1.Space required around unit

* In case of single installation

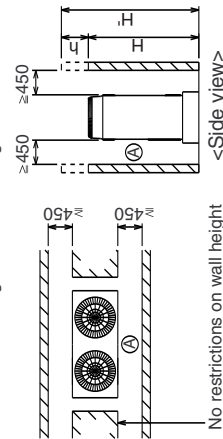
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



[When inlet air enters from right and left sides of unit]

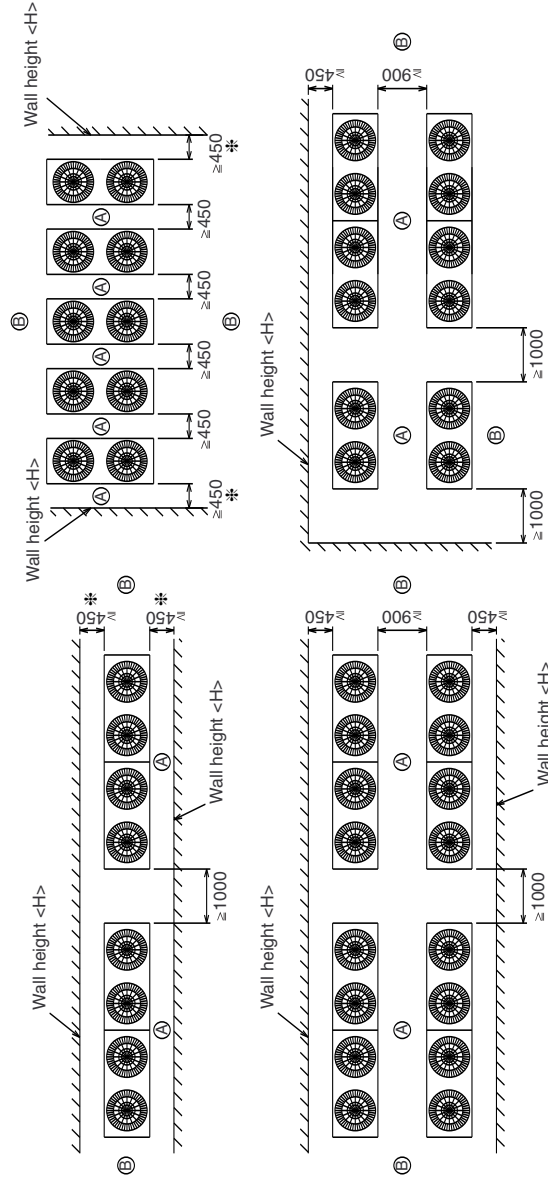
- ① Wall heights <H> of the front and the back sides shall be within total height of unit.
- ② When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.



No restrictions on wall height
<left and right>

* In case of collective installation and continuous installation

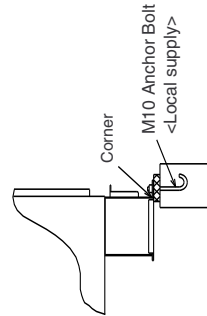
- ① Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height <h> exceeds total height of unit, add <h> dimension (h=wall height <H>-total height of unit) to * marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each three units.



Ⓐ Front
Ⓑ Must be open
(Unit : mm)

2.Foundation work

- ① When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- ③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



PURY-P200,250,300,350,400YGM-A(-BS)

Draw. : YGM-W274-614

< Symbol explanation >

| Symbol | Name |
|----------|--|
| ACCT1 | AC Current Sensor |
| DCCT1 ~3 | DC Current Sensor |
| DCL1 | DC reactor (Power factor improvement) |
| SEC1 | Magnetic contactor (Inverter main circuit) |
| MF1 | Fan motor (Radiator panel) |
| CH11 | Crank case heater (Compressor) |
| 21S4a | 4-way valve |
| SV1, 2 | Solenoid valve (Discharge-suction bypass) |
| SV4a-d | Solenoid valve (Heat exchanger capacity control) |
| TH11 | Discharge pipe temp. detect |
| TH5 | Pipe temp.detect. (Hex outlet) |
| TH6 | OA temp.detect |
| TH7 | Liquid outlet temp.detect at Sub-cool coil |
| THHS1 | Radiator panel temp. detect |
| 63H1 | High pressure switch |
| 63HS | High pressure sensor |
| 63LS | Low pressure sensor |
| L1, L2 | Choke coil (Transmission) |
| Z20 | Function device |
| ⊕ | Earth terminal |

< Difference of appliance >

| Model name | Appliance |
|-------------------------------|--------------------|
| PURY-P200YGM-A | "-R3" do not exist |
| PURY-P250, 300, 350, 400YGM-A | All exists |

*1: Function according to switch operation. (SW4-7, CN3D 1-2P, and CN3D 1-3P)

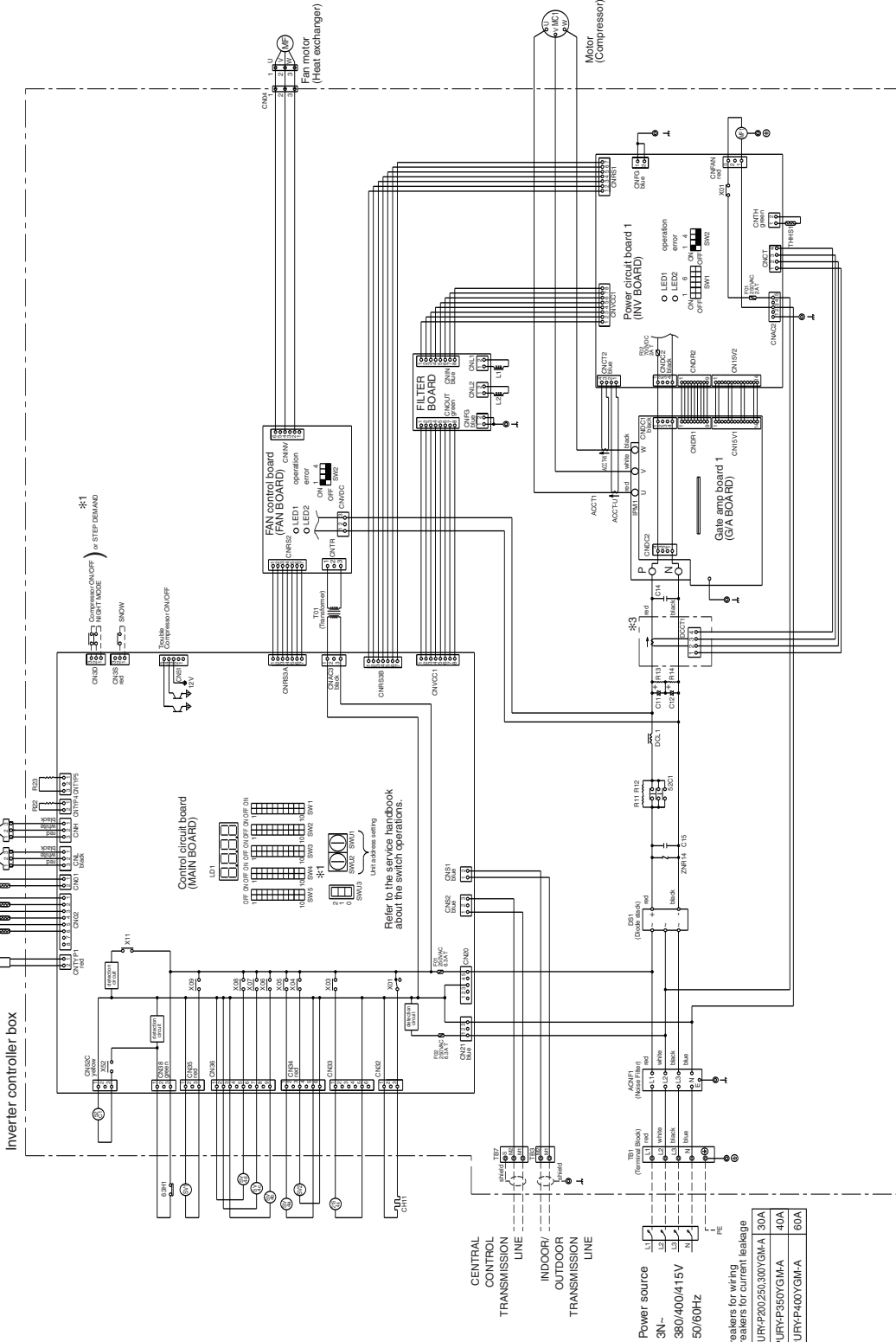
SW4-7: OFF (Compressor ON/OFF and NIGHT MODE)

| CN3D 1-3P | Compressor | CN3D 1-2P MODE |
|-----------|------------|----------------|
| OPEN | ON | OPEN |
| SHORT | OFF | SHORT ON |

SW4-7: ON (STEP DEMAND)

| CN3D 1-3P | OPEN | SHORT |
|-----------|------|-------|
| CN3D 1-2P | 100% | 75% |
| | 0% | 50% |

NOTE: The broken lines indicate field wiring.



Power source
3N~
380/400/415V
50/60Hz

Breakers for wiring
Breakers for current leakage

| | |
|------------------------|-----|
| PURY-P200,250,300YGM-A | 30A |
| PURY-P350YGM-A | 40A |
| PURY-P400YGM-A | 60A |

PURY-P450,500,550,600,650YGM-A(-BS)

Drw. : YGM-W274-616

< Symbol explanation >

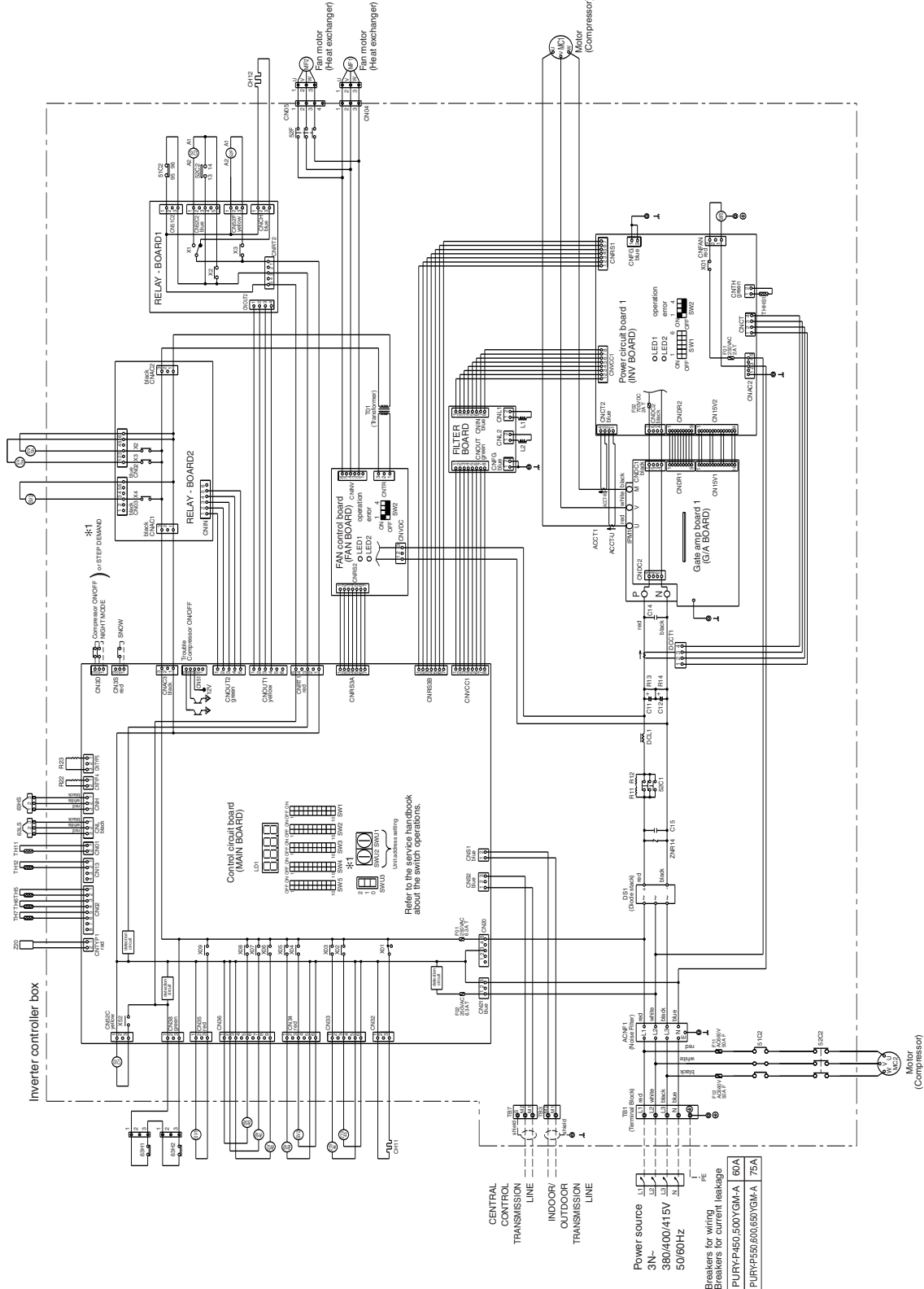
| Symbol | Name |
|-----------|--|
| ACCT1 | AC Current Sensor |
| DCCT1 | DC Current Sensor |
| DCL1 | DC reactor (Power factor improvement) |
| 52C1 | Magnetic contactor (Inverter main circuit) |
| 52C2 | Magnetic contactor (No.2 Compressor) |
| 51C2 | Overload relay (No.2 Compressor) |
| 52F | Magnetic contactor (Fan motor) |
| MF3 | Fan motor (Radiator panel) |
| CH11,12 | Crank case heater (Compressor) |
| 21S4a, b | 4-way valve |
| SV1, 2, 3 | Solenoid valve (Discharge-suction bypass) |
| SV4a-d | Solenoid valve (Heat exchanger capacity control) |
| SV5a, b | Discharge pipe temp. detect |
| TH11,12 | Pipe temp.detect (Hex outlet) |
| TH5 | OA temp.detect |
| TH6 | liquid outlet temp.detect |
| TH7 | at Sub-cool coil |
| THS1 | Radiator panel temp. detect |
| 63H1, 2 | High pressure switch |
| 63HS | High pressure sensor |
| 63LS | Low pressure sensor |
| L1, L2 | Choke coil (Transmission) |
| Z20 | Function device |
| ⊕ | Earth terminal |

*1: Function according to switch operation.
(SW4-7, CN3D 1-2P, and CN3D 1-3P)
SW4-7: OFF (Compressor ON/OFF and NIGHT MODE)

| CN3D 1-3P | Compressor | CN3D NIGHT MODE |
|-----------|------------|-----------------|
| OPEN | ON | MODE OFF |
| SHORT | OFF | SHORT ON |

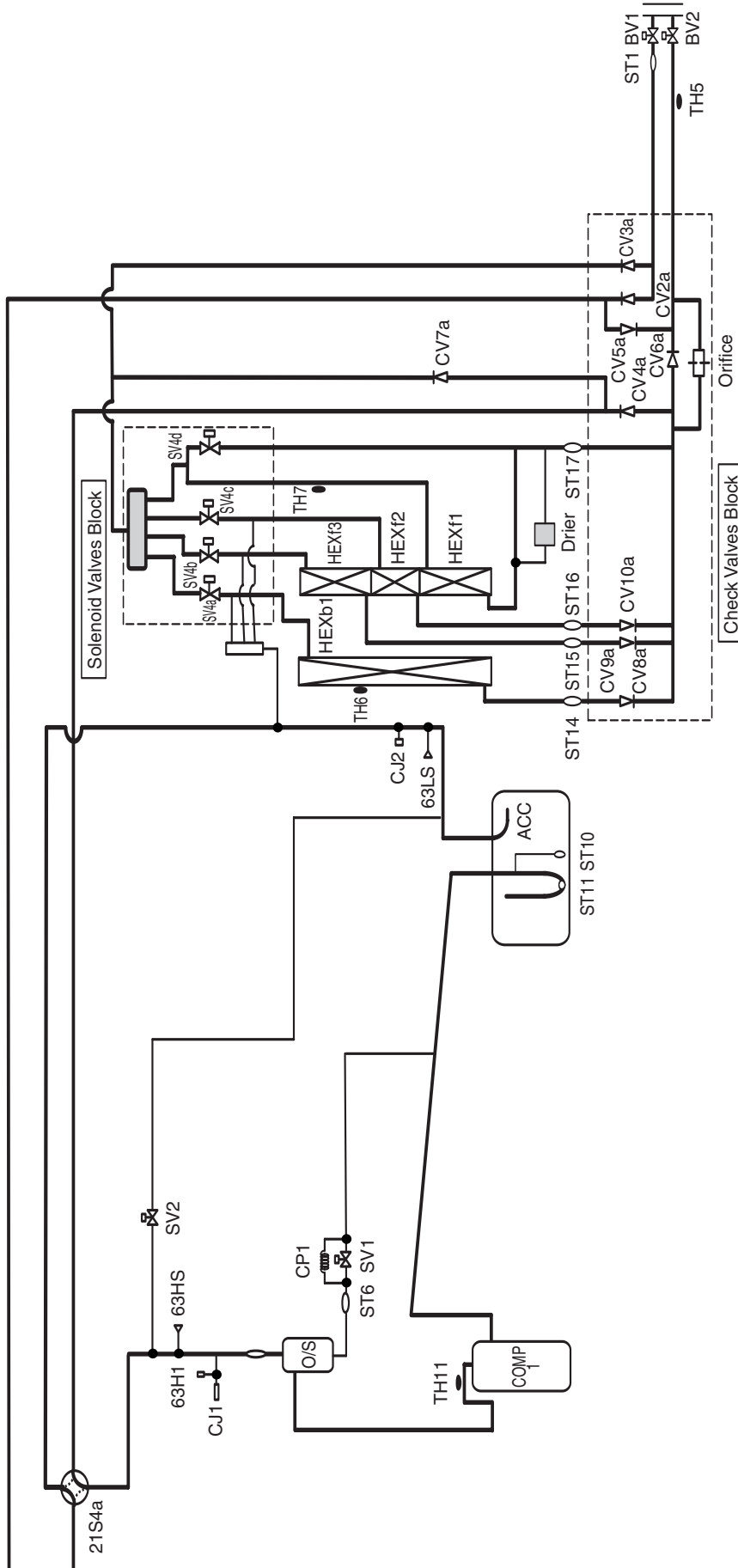
| SW4-7: ON (STEP DEMAND) | |
|-------------------------|-----------------------|
| CN3D 1-2P | OPEN SHORT |
| CN3D 1-3P | OPEN 100% SHORT 0% |
| | 75% 50% |

NOTE: The broken lines indicate field wiring.



PURY-P200,250,300,350,400YGM-A(-BS)

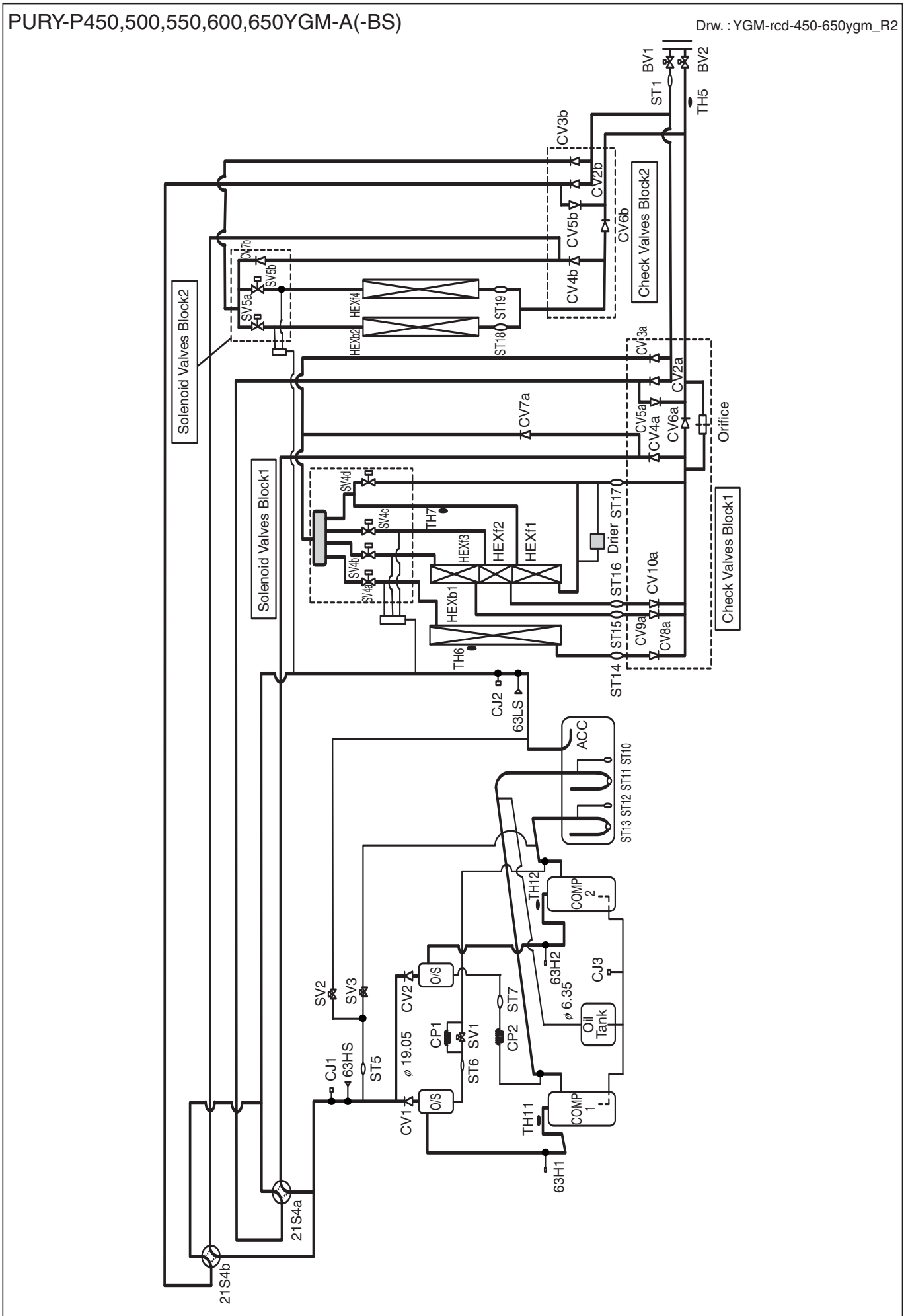
Draw. : YGM-rcd-200-400ygm_R2



Y
R2
WY
WR2
S
OP

PURY-P450,500,550,600,650YGM-A(-BS)

Drw. : YGM-rcd-450-650ygm_R2



Y

R2

WY

WR2

S

OP

CITY MULTI™ HEAT SOURCE UNITS

WY SERIES

WY SERIES

1. SPECIFICATIONS
2. CAPACITY TABLES
 - 2.1 Correction by temperature
 - 2.2 Correction by total indoor
 - 2.3 Correction by refrigerant piping length
 - 2.4 Temp. range of running
3. SOUND LEVELS
4. EXTERNAL DIMENSIONS
5. ELECTRICAL WIRING DIAGRAMS
6. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS
7. SYSTEM DESIGN GUIDE

- WY-2
- WY-5
- WY-5
- WY-9
- WY-10
- WY-12
- WY-13
- WY-14
- WY-16
- WY-17
- WY-19

- Y
- R2
- WY**
- WR2
- S
- OP

Heat pump: PQHY-P-Y(S)GM-A

| | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|--------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP | 34HP | 36HP | 38HP | 40HP | 42HP | 44HP | 46HP | 48HP | 50HP |
| WY Heat pump | ● | ● | | | ● | | ● | | | | | | | | | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PQHY-P200YGM-A | PQHY-P250YGM-A | |
|---|----------------------|----------|--|---|------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.0 | |
| | | kcal / h | 19,300 | 24,100 | |
| | | Btu / h | 76,400 | 95,500 | |
| | Power input | | kW | 4.79 | 5.95 |
| | Current input | | A | 8.0 - 7.6 - 7.4 | 10.0 - 9.5 - 9.1 |
| | COP (kW / kW) | | | 4.68 | 4.71 |
| Temp. range of cooling | Indoor | | 15 ~ 24°C CWB (59 ~ 75°F WB) | | |
| | Circulating water | | 10 ~ 45°C (50 ~ 113°F) | | |
| Heating capacity (Nominal) | *2 | kW | 25.0 | 31.5 | |
| | | kcal / h | 21,500 | 27,100 | |
| | | Btu / h | 85,300 | 107,500 | |
| | Power input | | kW | 4.69 | 5.8 |
| | Current input | | A | 7.9 - 7.5 - 7.2 | 9.7 - 9.3 - 8.9 |
| | COP (kW / kW) | | | 5.33 | 5.43 |
| Temp. range of heating | Indoor | | 15 ~ 27°C DB (59 ~ 81°F DB) | | |
| | Circulating water | | 10 ~ 45°C (50 ~ 113°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 130% of Heat source unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 13 | P20 ~ P250 / 1 ~ 16 | |
| Noise level (measured in anechoic room) | dB <A> | | 46 / 46 | 47 / 47 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare (ø12.7 (ø1/2") Flare, total length >= 90m) | |
| | Gas (Low press.) | mm (in.) | ø19.05 (ø3/4") Brazed | ø22.2 (ø7/8") Brazed | |

| | | | | |
|---------------------------------------|--------------------------|--------------------|---|---|
| External finish | | | Acrylic painted steel plate | |
| External dimension H x W x D | mm | | 1,800 x 990 x 550 | 1,800 x 990 x 550 |
| | in. | | 70-7/8" x 39" x 21-5/8" | 70-7/8" x 39" x 21-5/8" |
| Net weight | kg (lb) | | 272 (600) | 275 (607) |
| Heat exchanger | | | Pipe-in-pipe coil | Pipe-in-pipe coil |
| | Water volume in coil | l | 9.5 | 10.5 |
| | Water pressure Max. | MPa | 1.0 | 1.0 |
| Compressor | Type | | Inverter scroll hermetic comp. | Inverter scroll hermetic comp. |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter | |
| | Motor output | kW | 5 | 6 |
| | Case heater | kW | 0.045 x 1 (240V) | 0.045 x 1 (240V) |
| | Lubricant | | MEL32 | |
| Circulating water | Water flow rate | m ³ / h | 4.56 | 5.76 |
| | | L / min | 76 | 96 |
| | | cfm | 2.7 | 3.4 |
| | Pressure drop | kPa | 16.5 | 19.5 |
| | Operating volume range | m ³ / h | 3.9 - 6.0 | 4.5 - 7.2 |
| HIC circuit (HIC: Heat Inter-Changer) | | | Pipe-in-pipe structure | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit | | Over-current protection, Thermal protection | |
| | Compressor | | Over-current protection, Over-heat protection | |
| Refrigerant | Type x Original charge | | R410A x 7.0 kg (16 lb) | R410A x 9.5 kg (21 lb) |
| | Control | | LEV and HIC circuit | |
| Drawing | External | | OU-W663145 | |
| | Wiring | | OU-W274643 | |
| | Refrigerant circle | | RC_WYNA1-1133-13 | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw. YGM-CM04EU4-C_P18(W663145) | |
| Optional parts | | | Joint : CMY-Y102S-G Header : CMY-Y104/108/1010-G | Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G |
| Remark | | | <p>a. The ambient temperature of the Heat Source Unit PQHY-P-YGM-A needs to be kept below 40°C DB.</p> <p>b. The ambient relative humidity of the Heat Source Unit PQHY-P-YGM-A needs to be kept below 80%.</p> <p>c. The Heat Source Unit PQHY-P-YGM-A should not be installed at outdoor.</p> <p>d. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> | |

Note : *1 Nominal cooling conditions *2 Nominal heating conditions

| | | |
|---------------------|------------------------------------|--------------------|
| Indoor : | 27°C DB/19°C CWB (81°F DB/66°F WB) | 20°C DB (68°F DB) |
| Water temperature : | 30°C (86°F) | 20°C (68°F) |
| Pipe length : | 7.5 m (24-9/16 ft) | 7.5 m (24-9/16 ft) |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) |

Unit converter

kcal/h = kW x 860
 Btu/h = kW x 3,412
 cfm = m³/min x 35.31
 lb = kg / 0.4536

* Nominal conditions *1, *2 are subject to JIS B8615-1.

* Due to continuing improvement, above specifications may be subject to change without notice.

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

| Model (Set name) | | PQHY-P400YSGM-A | |
|---|-------------------------------|--|--|
| Power source | | 3-phase 4-wire 380-400-415V 50 / 60Hz | |
| Cooling capacity (Nominal) | *:1 kW | 45.0 | |
| | *:1 kcal / h | 38,700 | |
| | *:1 Btu / h | 153,500 | |
| | Power input kW | 11.35 | |
| | Current input A | 19.1 - 18.2 - 17.5 | |
| COP (kW / kW) | | 3.96 | |
| Temp. range of cooling | Indoor | 15 ~ 24°CWB (59 ~ 75°FWB) | |
| | Circulating water | 10 ~ 45°C (50 ~ 113°F) | |
| Heating capacity (Nominal) | *:2 kW | 50.0 | |
| | *:2 kcal / h | 43,000 | |
| | *:2 Btu / h | 170,600 | |
| | Power input kW | 11.01 | |
| | Current input A | 18.5 - 17.6 - 17.0 | |
| COP (kW / kW) | | 4.54 | |
| Temp. range of heating | Indoor | 15 ~ 27°CDB (59 ~ 81°FDB) | |
| | Circulating water | 10 ~ 45°C (50 ~ 113°F) | |
| Indoor unit connectable | Total capacity | 50 ~ 130% of Heat source unit capacity | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 22 | |
| Noise level (measured in anechoic room) | dB <A> | 50 / 50 | |
| Diameter of refrigerant pipe | Liquid (High press.) mm (in.) | ø12.7 (ø1/2") Flare | |
| | Gas (Low press.) mm (in.) | ø28.58 (ø1-1/8") Brazed | |

The Set model is a combination of Compressor unit and Sub unit as follows.

| Model (Compressor unit and Sub unit) | | PQY-P01YGM-A (Compressor unit) | | PQHY-P400YGM-A (Sub unit) | |
|---|--------------------------|---|---|---------------------------|-------------------|
| External finish | | Acrylic painted steel plate | | | |
| External dimension H x W x D | mm | 1,800 x 990 x 550 | | 1,800 x 990 x 550 | |
| | in. | 70-7/8" x 39" x 21-5/8" | | 70-7/8" x 39" x 21-5/8" | |
| Net weight | kg (lb) | 208 (459) | | 244 (538) | |
| Heat exchanger | | | - | | Pipe-in-pipe coil |
| | Water volume in coil | l | - | | 17.5 |
| | Water pressure Max. | MPa | - | | 1.0 |
| Compressor | Type | | Inverter scroll hermetic comp. | | |
| | Manufacturer | kW | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | kW | Inverter | | |
| | Motor output | | 9.7 | | |
| | Case heater | | 0.045 x 1 (240V) | | |
| | Lubricant | | MEL32 | | |
| Circulating water | Water flow rate | m ³ / h | 9.12 | | |
| | | L / min | 152 | | |
| | | cfm | 5.4 | | |
| | Pressure drop | kPa | 16.5 | | |
| Operating volume range | m ³ / h | 7.8 - 12.0 | | | |
| HIC circuit (HIC: Heat Inter-Changer) | | - | | Pipe-in-pipe structure | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit | | Over-current protection, Thermal protection | | |
| | Compressor | | Over-current protection, Over-heat protection | | |
| Refrigerant | Type x Original charge | | R410A x 7.0 kg (16 lb) | R410A x 9.5 kg (21 lb) | |
| | Control | | LEV and HIC circuit | | |
| Refrigerant piping diameter (between comp. & sub) | | ø9.52 (ø3/8") Flare / ø19.05 (ø3/4") Flare / ø28.58 (ø1-1/8") Brazed | | | |
| Drawing | External | | OU-W663147 | | |
| | Wiring | | OU-W274643 | | |
| | Refrigerant circle | | RC_WYNA3-1133-14 | | |
| Standard attachment | Document | | Installation Manual | | |
| | Accessory | | Details refer to External Drw. YSGM-CM04EU4-C_P19/W663 | | |
| Optional parts | | Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G | | | |
| Remark | | <p>a. The ambient temperature of the Heat Source Unit PQHY-P-YSGM-A needs to be kept below 40°CDB.</p> <p>b. The ambient relative humidity of the Heat Source Unit PQHY-P-YSGM-A needs to be kept below 80%.</p> <p>c. The Heat Source Unit PQHY-P-YSGM-A should not be installed at outdoor.</p> <p>d. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> | | | |

Note : *:1 Nominal cooling conditions *:2 Nominal heating conditions

| | | |
|--------------------|-------------------------------|--------------------|
| Indoor : | 27°CDB/19°CWB (81°FDB/66°FWB) | 20°CDB (68°FDB) |
| Water temperature: | 30°C (86°F) | 20°C (68°F) |
| Pipe length : | 7.5 m (24-9/16 ft) | 7.5 m (24-9/16 ft) |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) |

Unit converter

kcal/h = kW x 860
 Btu/h = kW x 3,412
 cfm = m³/min x 35.31
 lb = kg / 0.4536

* Nominal conditions *:1, *:2 are subject to JIS B8615-1.
 * Due to continuing improvement, above specifications may be subject to change without notice.

*Above specification data is subject to rounding variation.
 Ref. : Spec_wy_p400ysgm

1. SPECIFICATIONS

R410A Data G2

| Model (Set name) | | | PQHY-P500YSGM-A | | |
|---|----------------------|----------|---|--------------------|--|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 56.0 | | |
| | *1 | kcal / h | 48,200 | | |
| | *1 | Btu / h | 191,100 | | |
| | Power input | | kW | 15.06 | |
| | Current input | | A | 25.4 - 24.2 - 23.3 | |
| COP (kW / kW) | | | 3.72 | | |
| Temp. range of cooling | Indoor | | 15 ~ 24°CWB (59 ~ 75°FWB) | | |
| | Circulating water | | 10 ~ 45°C (50 ~ 113°F) | | |
| Heating capacity (Nominal) | *2 | kW | 63.0 | | |
| | *2 | kcal / h | 54,200 | | |
| | *2 | Btu / h | 215,000 | | |
| | Power input | | kW | 13.60 | |
| | Current input | | A | 22.9 - 21.8 - 21.0 | |
| COP (kW / kW) | | | 4.63 | | |
| Temp. range of heating | Indoor | | 15 ~ 27°CDB (59 ~ 81°FDB) | | |
| | Circulating water | | 10 ~ 45°C (50 ~ 113°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 130% of Heat source unit capacity | | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 24 | | |
| Noise level (measured in anechoic room) | | dB <A> | 53 / 53 | | |
| Diameter of refrigerant pipe | Liquid (High press.) | | mm (in.) | | |
| | Gas (Low press.) | | mm (in.) | | |
| | | | ø15.88 (ø5/8") Flare ø28.58 (ø1-1/8") Brazed | | |

The Set model is a combination of Compressor unit and Sub unit as follows.

| Model (Compressor unit and Sub unit) | | | PQY-P01YGM-A (Compressor unit) | | | PQHY-P500YGM-A (Sub unit) | | |
|---|--------------------------|--------------------|---|------------|---|---------------------------|------|---|
| External finish | | | Acrylic painted steel plate | | | | | |
| External dimension H x W x D | mm | | 1,800 x 990 x 550 | | | 1,800 x 990 x 550 | | |
| | in. | | 70-7/8" x 39" x 21-5/8" | | | 70-7/8" x 39" x 21-5/8" | | |
| Net weight | | kg (lb) | 208 (459) | | | 248 (547) | | |
| Heat exchanger | | | - | | | Pipe-in-pipe coil | | |
| | Water volume in coil | | l | | - | | 19.5 | |
| | Water pressure Max. | | MPa | | - | | 1.0 | |
| Compressor | Type | | Inverter scroll hermetic comp. | | | - | | |
| | Manufacturer | | kW | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | | - |
| | Starting method | | kW | | Inverter | | | - |
| | Motor output | | | | 9.7 | | | - |
| | Case heater | | | | 0.045 x 1 (240V) | | | - |
| | Lubricant | | | | MEL32 | | | - |
| Circulating water | Water flow rate | m ³ / h | | 11.52 | | | | |
| | | L / min | | 192 | | | | |
| | | cfm | | 6.8 | | | | |
| | Pressure drop | | kPa | | 19.5 | | | |
| Operating volume range | | m ³ / h | | 9.0 - 14.4 | | | | |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | | | Pipe-in-pipe structure | | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | | | | |
| | Inverter circuit | | Over-current protection, Thermal protection | | | | | |
| | Compressor | | Over-current protection, Over-heat protection | | | | | |
| Refrigerant | Type x Original charge | | R410A x 7.0 kg (16 lb) | | | R410A x 9.5 kg (21 lb) | | |
| | Control | | LEV and HIC circuit | | | | | |
| Refrigerant piping diameter (between comp. & sub) | | | ø9.52 (ø3/8") Flare / ø19.05 (ø3/4") Flare / ø28.58 (ø1-1/8") Brazed | | | | | |
| Drawing | External | | OU-W663147 | | | | | |
| | Wiring | | OU-W274643 | | | | | |
| | Refrigerant circle | | RC_WYNA3-1133-14 | | | | | |
| Standard attachment | Document | | Installation Manual | | | | | |
| | Accessory | | Details refer to External Drw. YSGM-CM04EU4-C_P19(W663 | | | | | |
| Optional parts | | | Joint : CMY-Y102S/L-G Header : CMY-Y104/108/1010-G | | | | | |
| Remark | | | <p>a. The ambient temperature of the Heat Source Unit PQHY-P-YSGM-A needs to be kept below 40°CDB.</p> <p>b. The ambient relative humidity of the Heat Source Unit PQHY-P-YSGM-A needs to be kept below 80%.</p> <p>c. The Heat Source Unit PQHY-P-YSGM-A should not be installed at outdoor.</p> <p>d. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> | | | | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal heating conditions | Unit converter |
|--|--|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Water temperature : 30°C (86°F) | 20°C (68°F) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:2 are subject to JIS B8615-1. | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | |

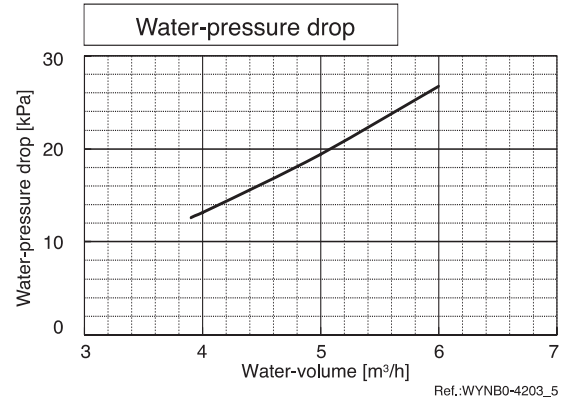
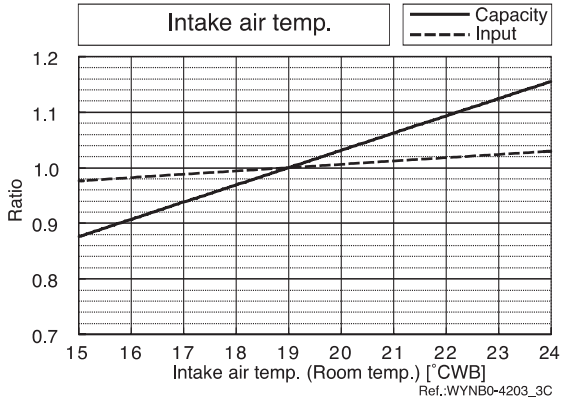
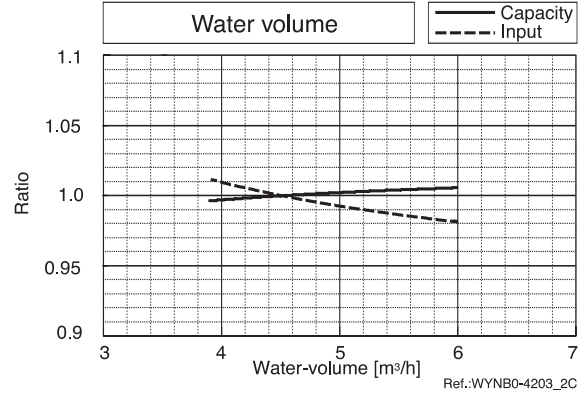
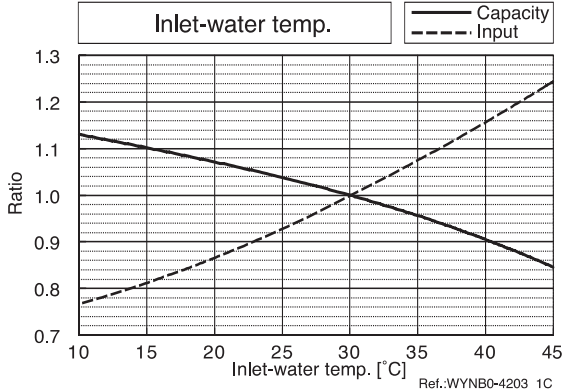
Ref. : Spec_wy_p500ysgm

2. CAPACITY TABLES

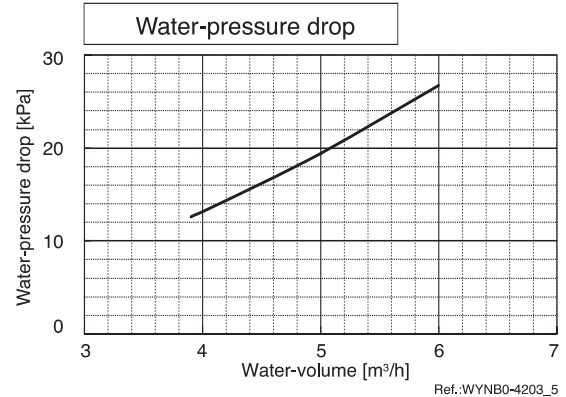
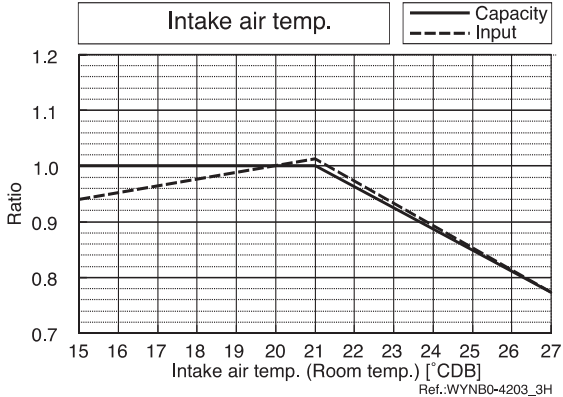
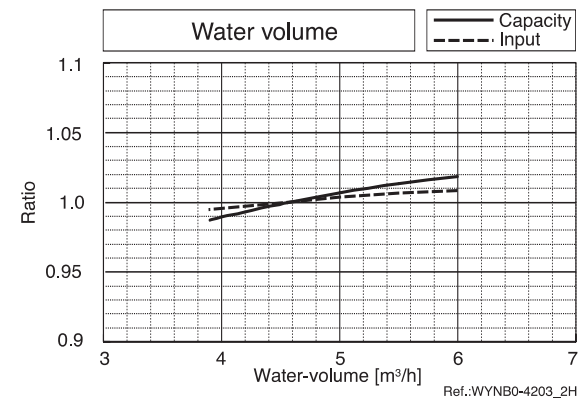
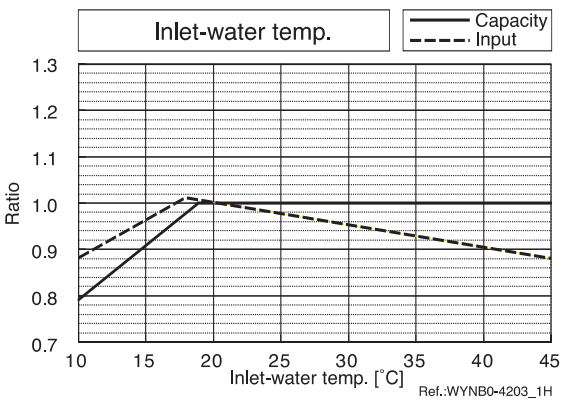
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQHY- | | P200YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 22.4 |
| | kcal/h | 19,300 |
| | Btu/h | 76,400 |
| Input | kW | 4.79 |



| PQHY- | | P200YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 25.0 |
| | kcal/h | 21,500 |
| | Btu/h | 85,300 |
| Input | kW | 4.69 |

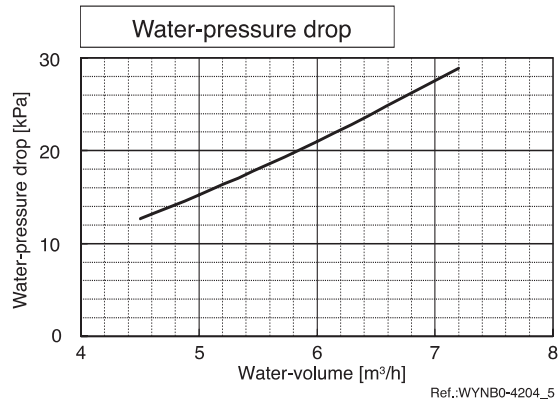
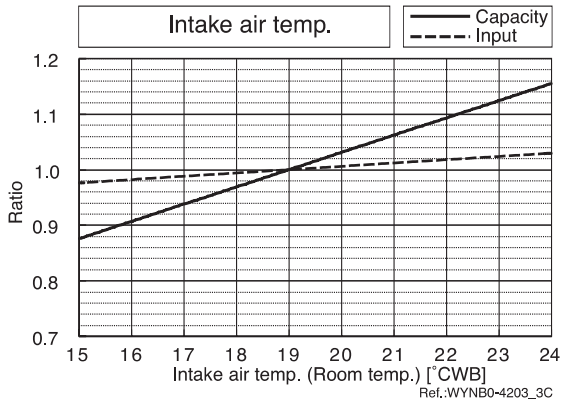
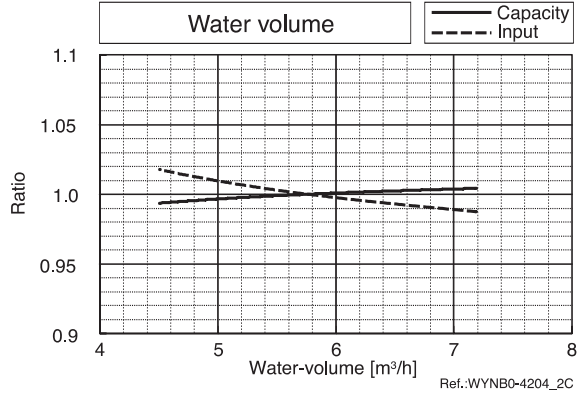
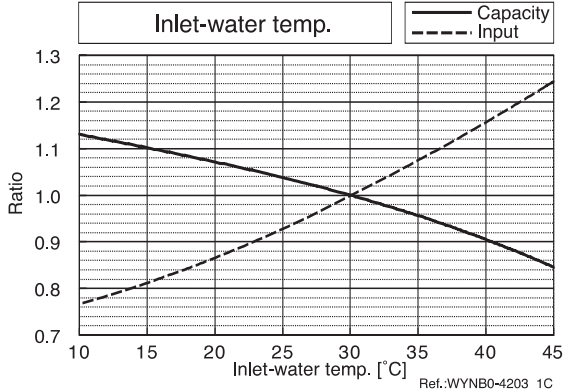


2. CAPACITY TABLES

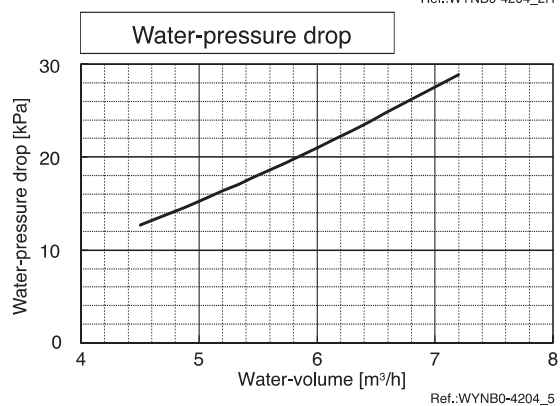
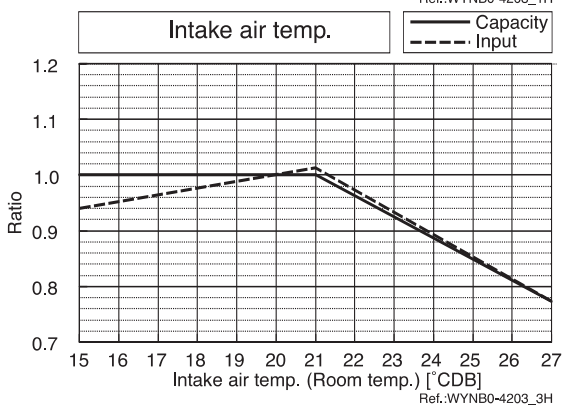
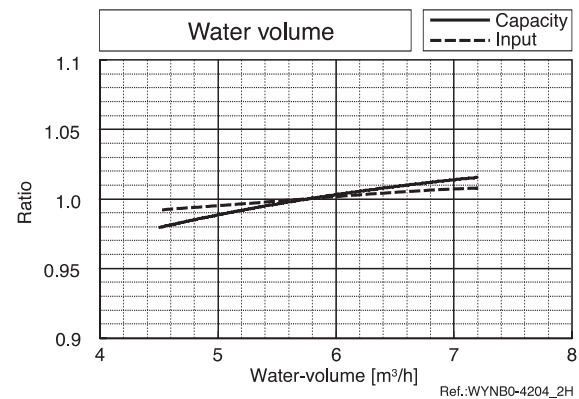
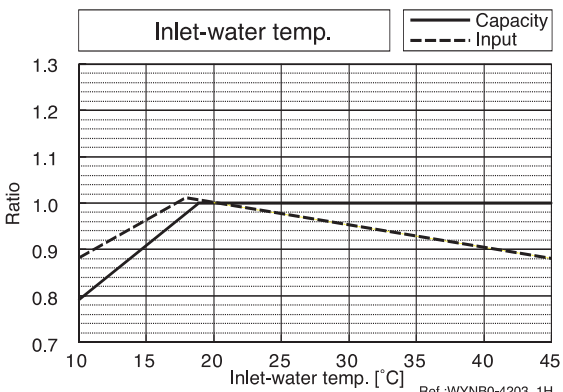
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQHY- | | P250YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 28.0 |
| | kcal/h | 24,100 |
| | Btu/h | 95,500 |
| Input | kW | 5.95 |



| PQHY- | | P250YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 31.5 |
| | kcal/h | 27,100 |
| | Btu/h | 107,500 |
| Input | kW | 5.8 |

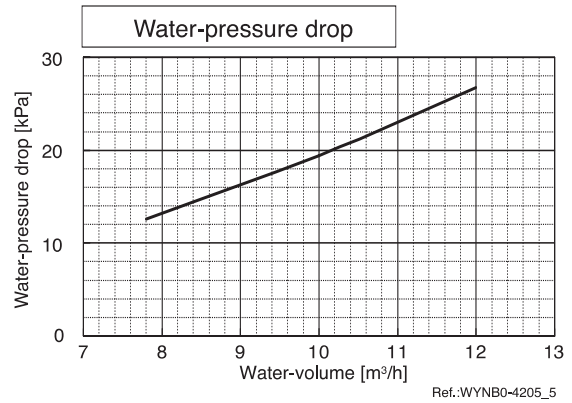
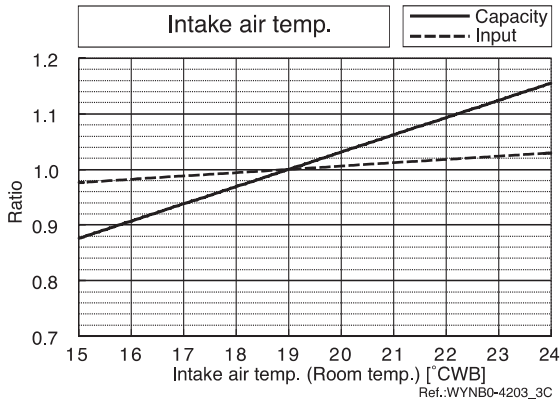
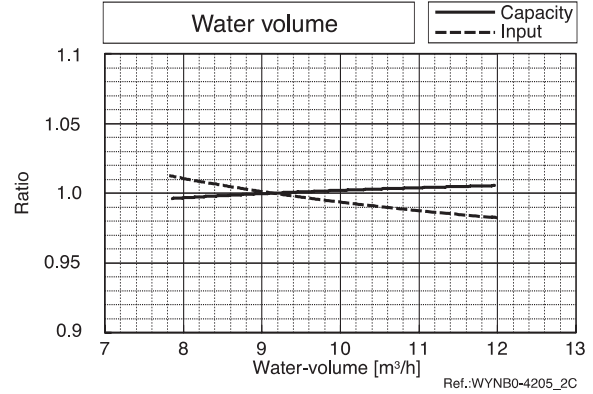
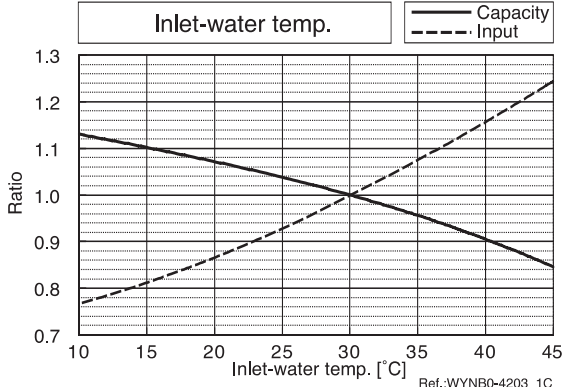


2. CAPACITY TABLES

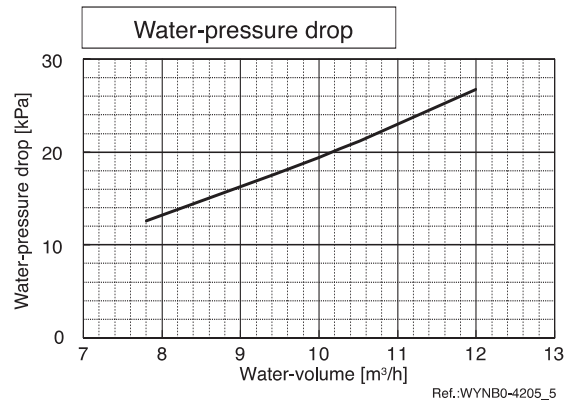
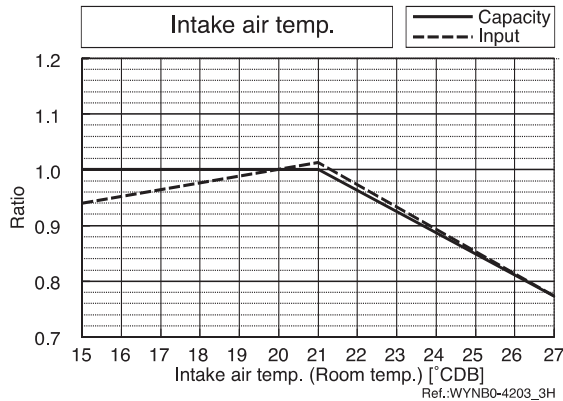
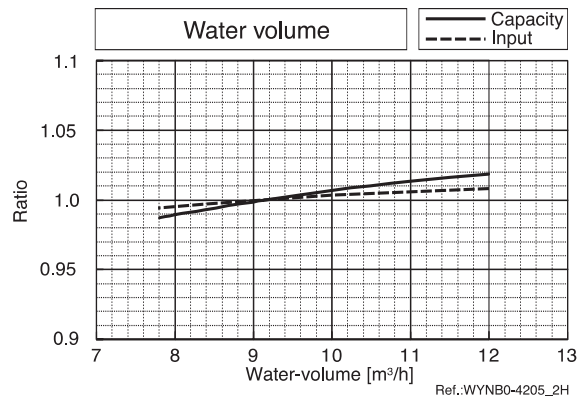
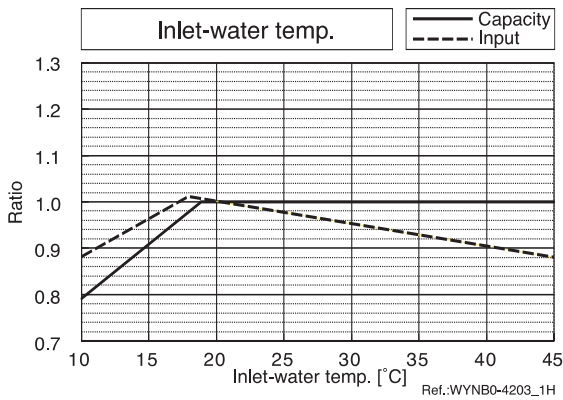
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQHY- | | P400YSGM |
|--------------------------|--------|----------|
| Nominal Cooling Capacity | kW | 45.0 |
| | kcal/h | 38,700 |
| | Btu/h | 153,500 |
| Input | kW | 11.35 |



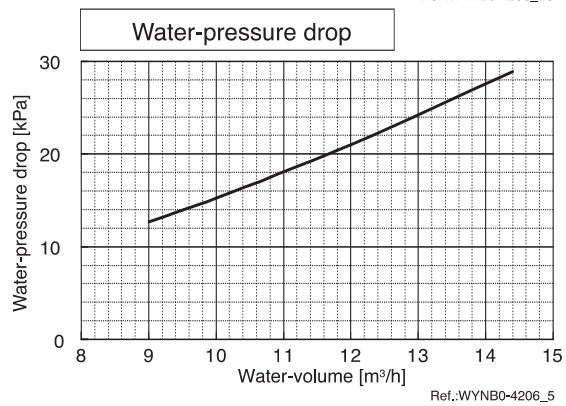
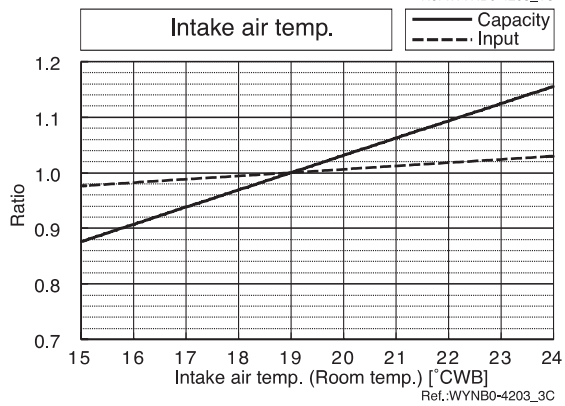
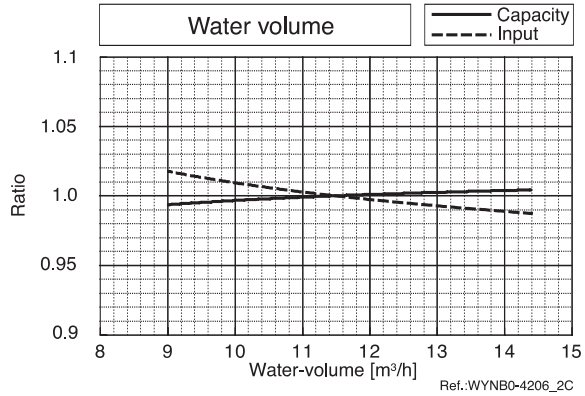
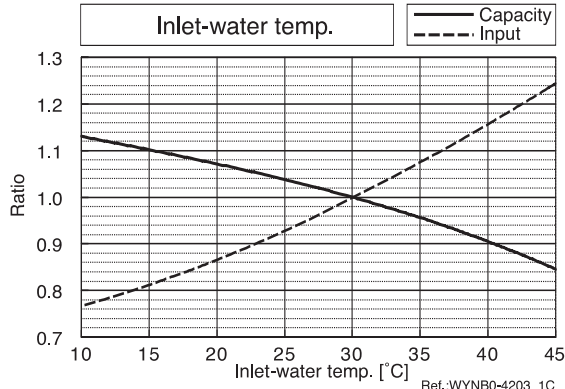
| PQHY- | | P400YSGM |
|--------------------------|--------|----------|
| Nominal Heating Capacity | kW | 50.0 |
| | kcal/h | 43,000 |
| | Btu/h | 170,600 |
| Input | kW | 11.01 |



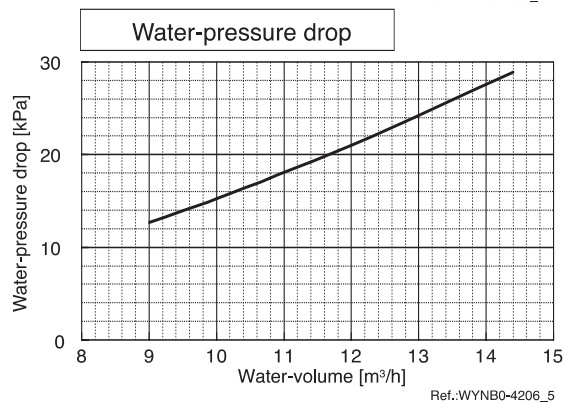
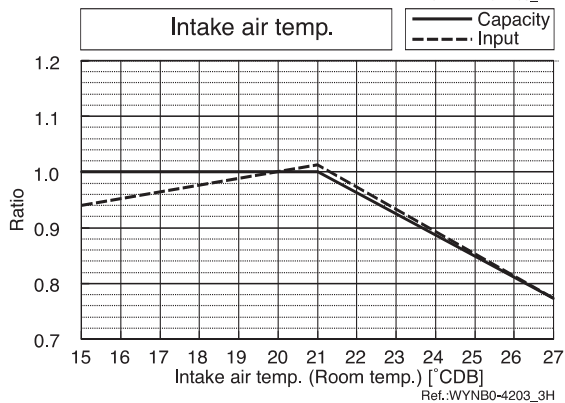
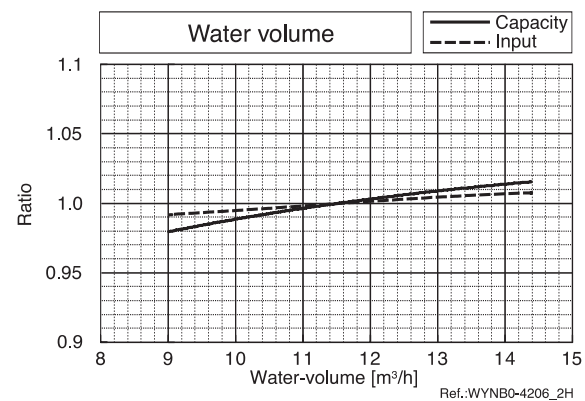
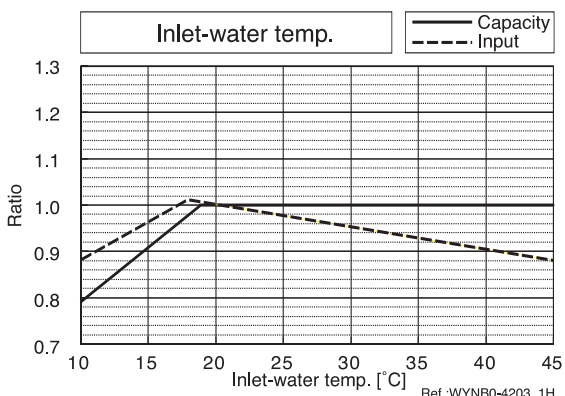
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQHY- | | P500YSGM |
|--------------------------|--------|----------|
| Nominal Cooling Capacity | kW | 56.0 |
| | kcal/h | 48,200 |
| | Btu/h | 191,100 |
| Input | kW | 15.06 |



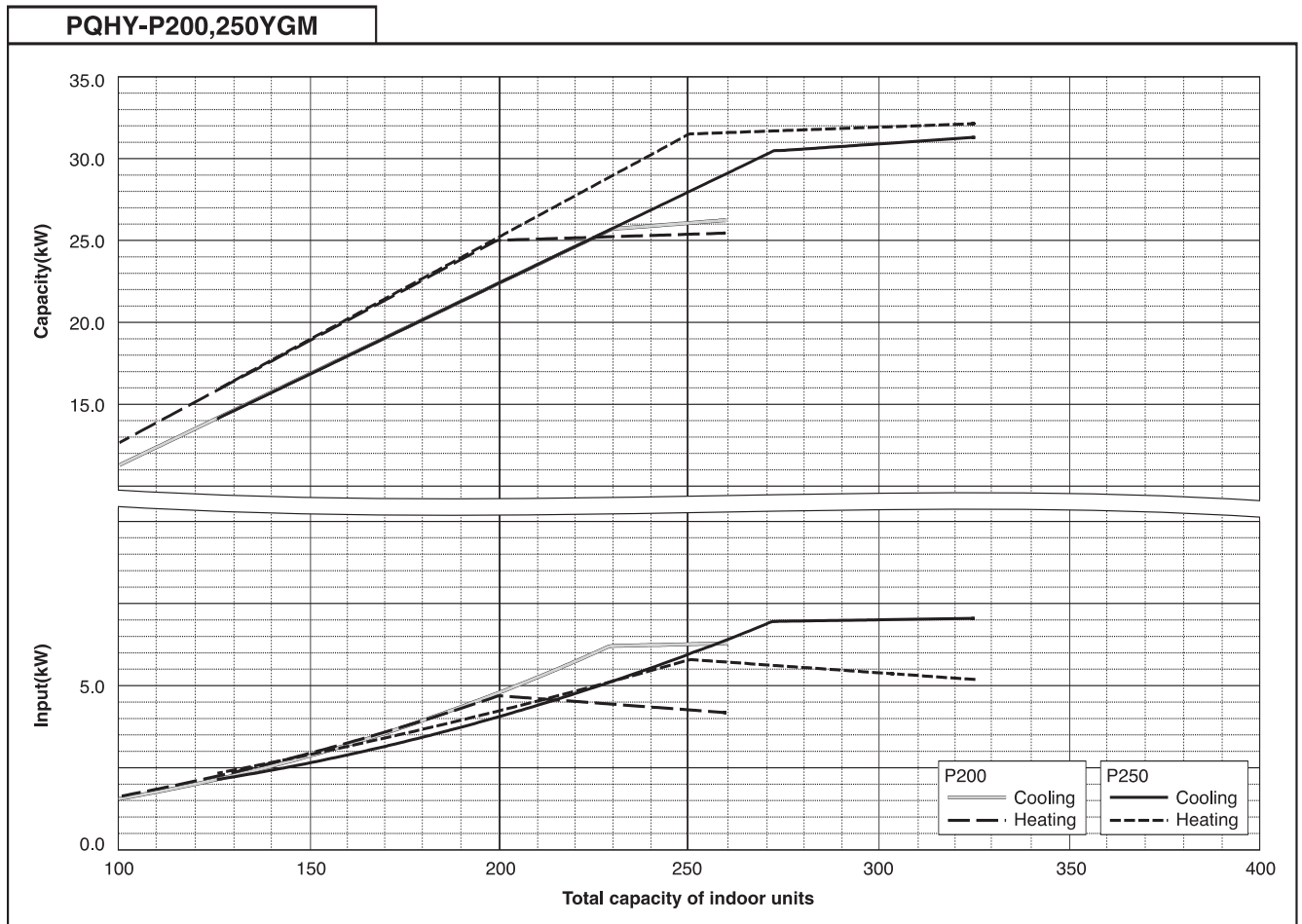
| PQHY- | | P500YSGM |
|--------------------------|--------|----------|
| Nominal Heating Capacity | kW | 63.0 |
| | kcal/h | 54,200 |
| | Btu/h | 215,000 |
| Input | kW | 13.60 |



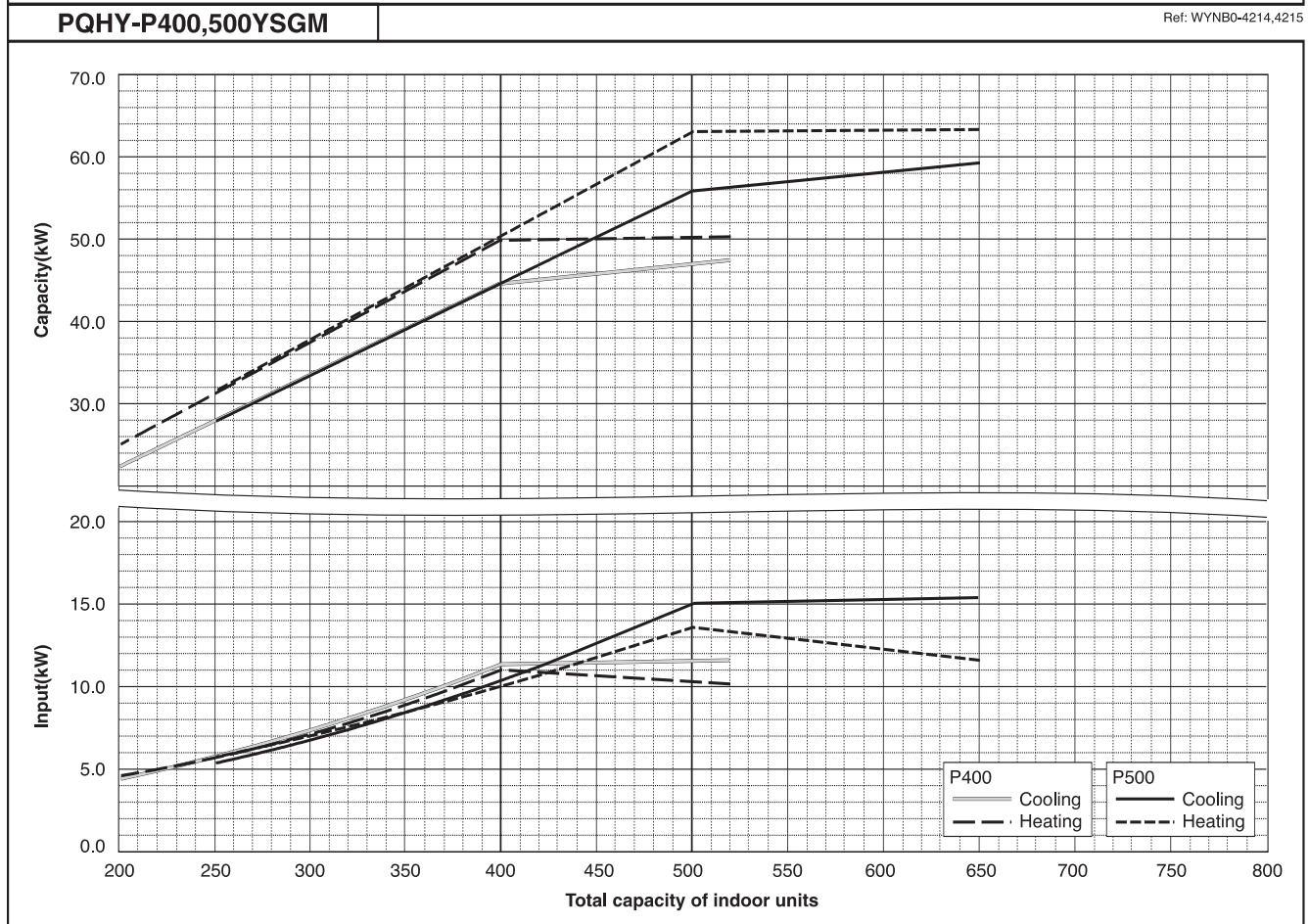
2. CAPACITY TABLES

2-2. Correction by total indoor

CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



Ref: WYNB0-4214,4215

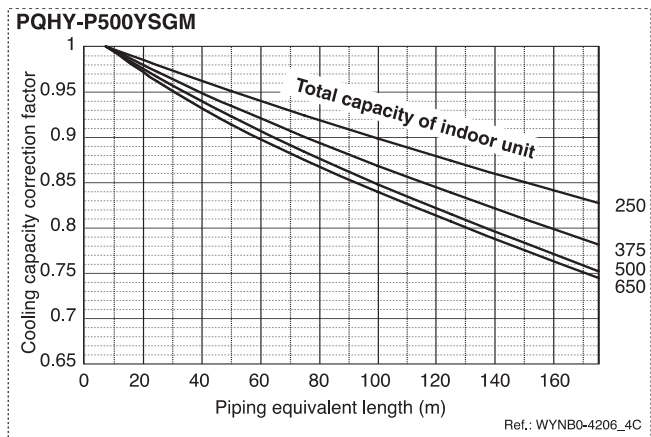
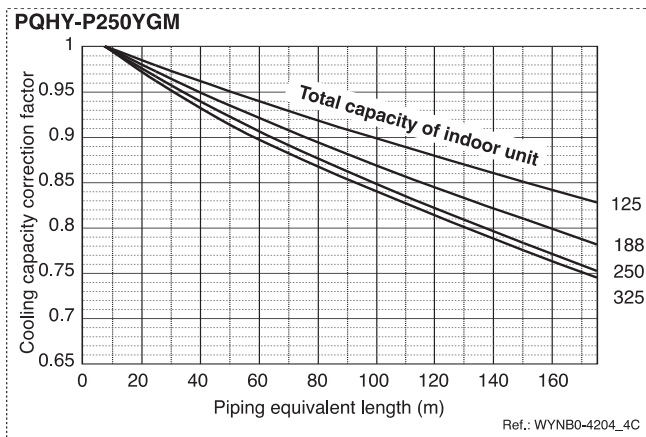
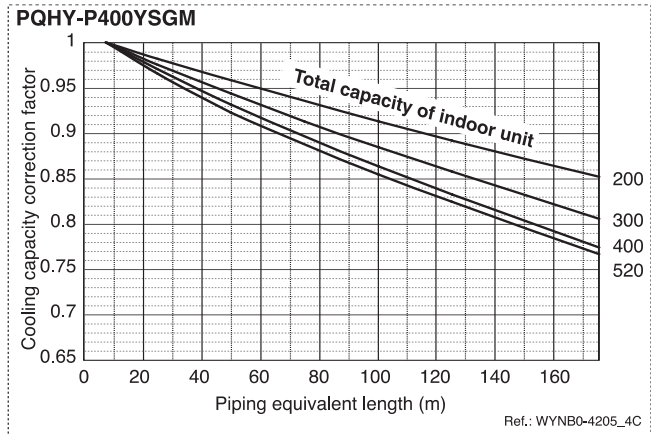
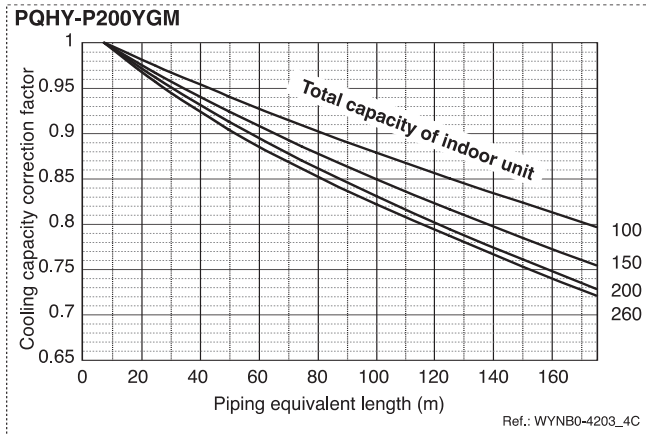


Ref: WYNB0-4216,4217

2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

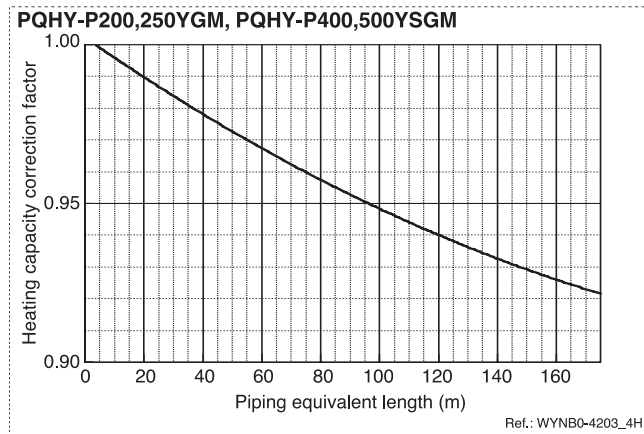
2-3a. Cooling capacity correction



2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

2-3b. Heating capacity correction



2-3c. How to obtain the equivalent length of piping

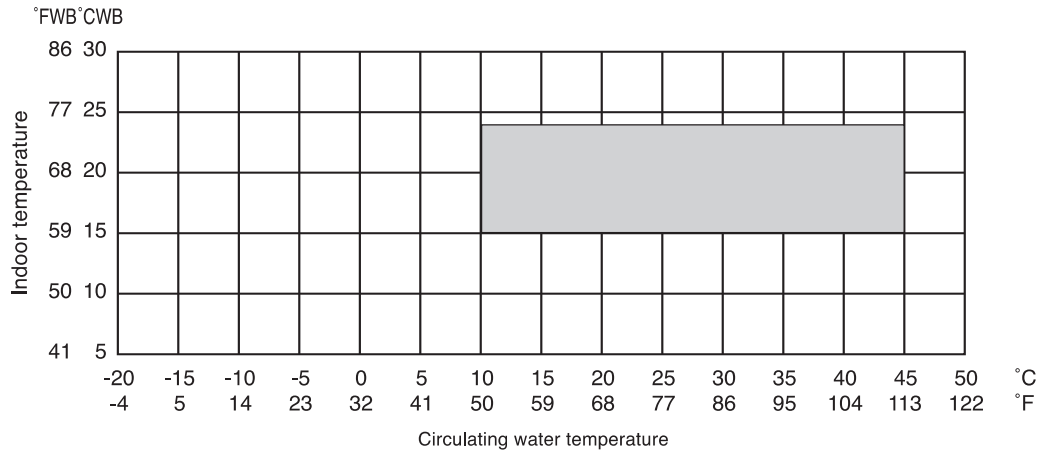
- 1 **PQHY, PQRYP-200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 2 **PQHY, PQRYP-250YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m
- 3 **PQHY, PQRYP-400YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m
- 4 **PQHY, PQRYP-500YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

2. CAPACITY TABLES

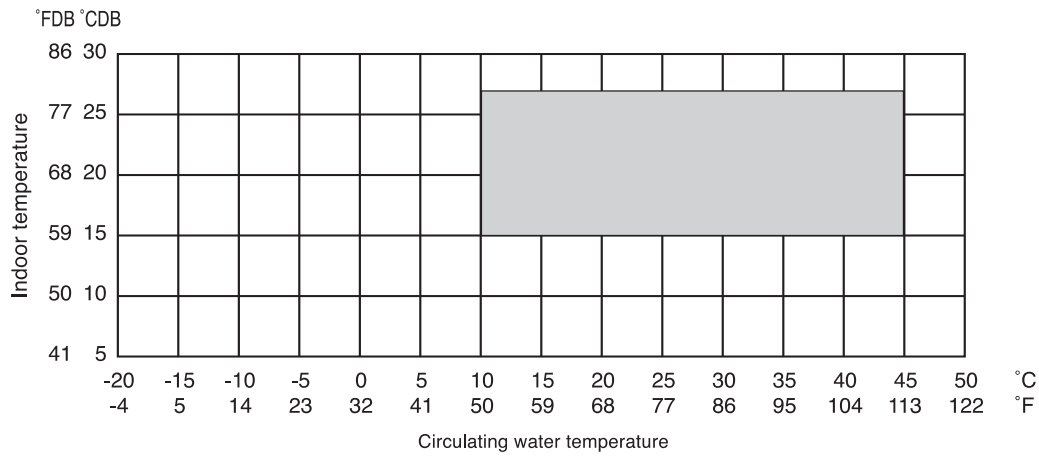
R410A Data G2

2-4. Temp. range of running

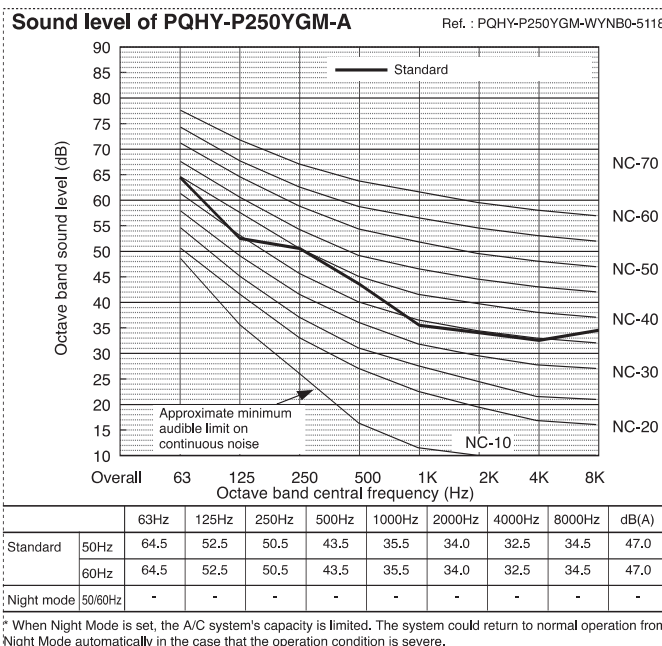
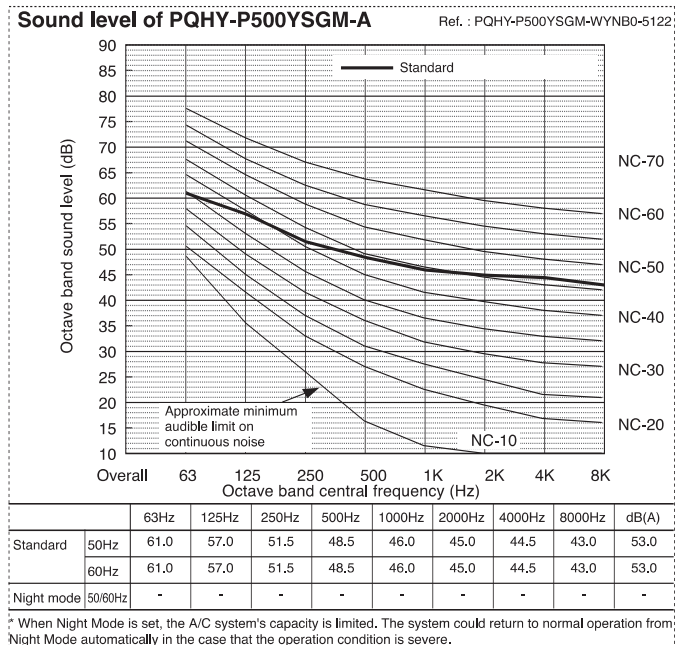
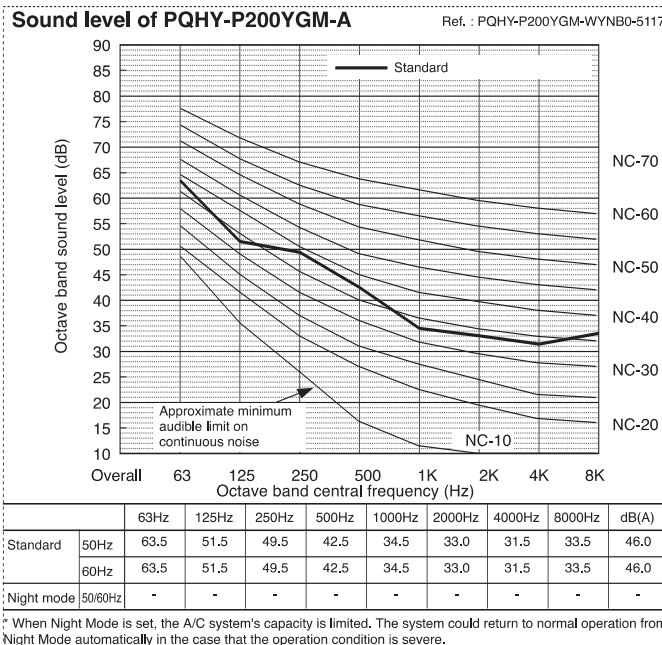
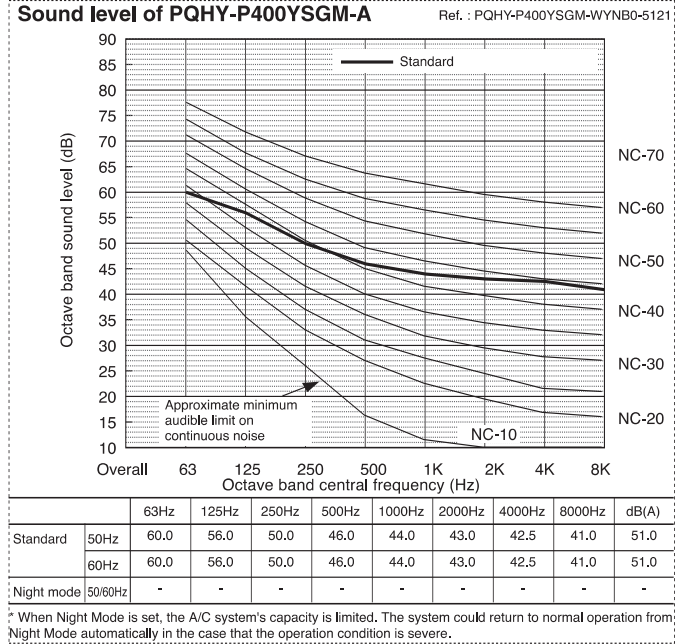
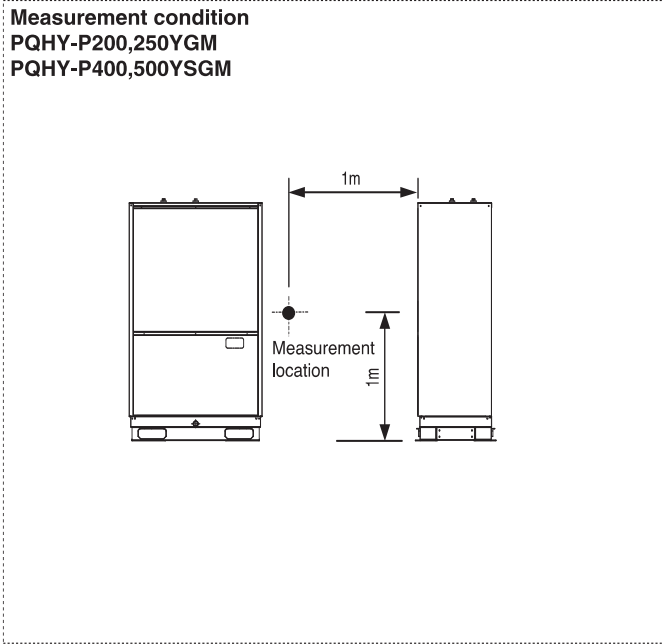
• Cooling



• Heating

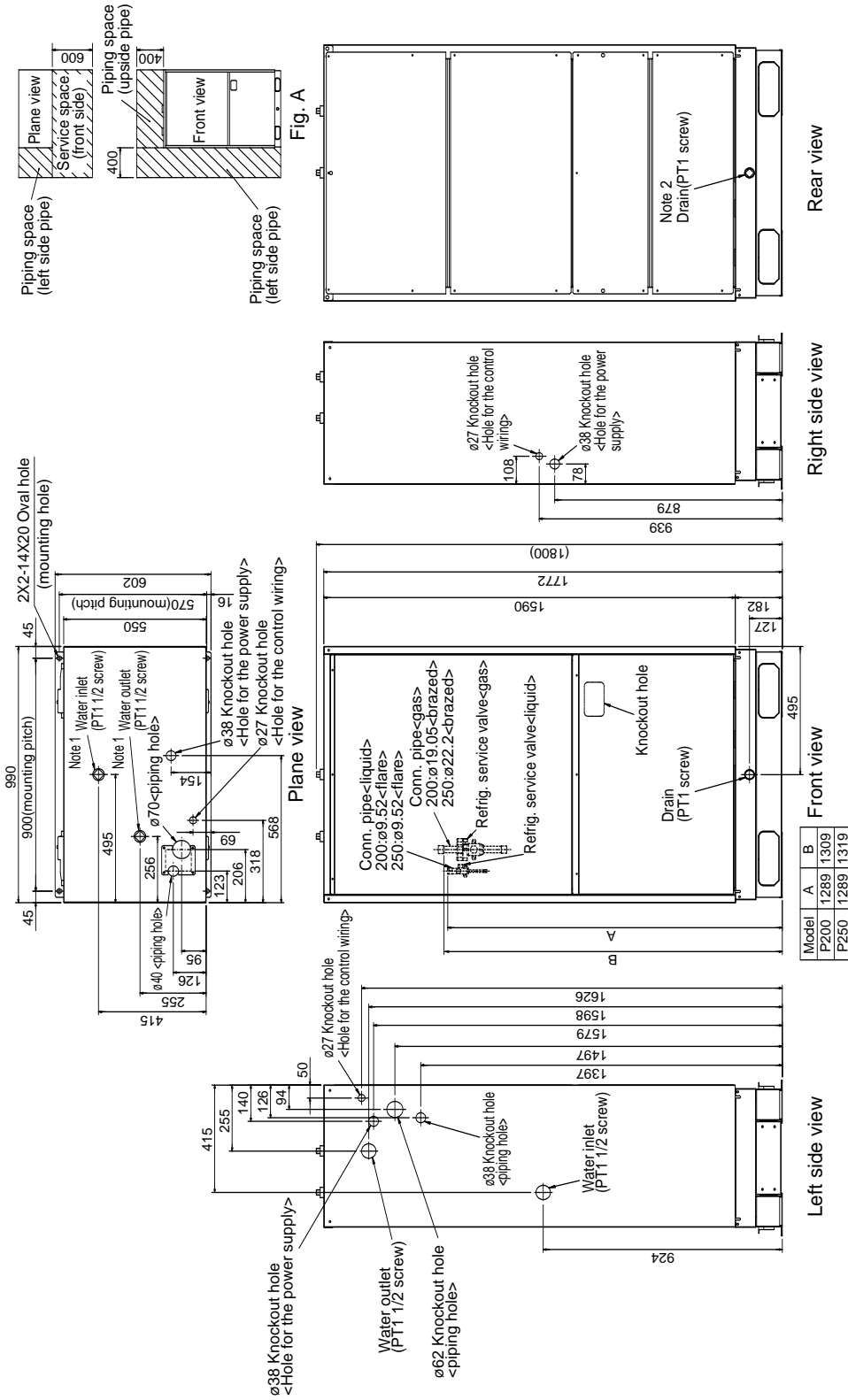


Ref.: tr-ygm-w



PQHY-P200,250YGM-A

Drw. : OU-W663145
Unit : mm



- [Accessories]
- Refrigerant (gas) conn. pipe..... 1pc. (Already installed on the unit)
 - Packing for conn. pipe..... 1pc. (Attached near the ball valve)
 - Bushing..... 2pcs.
- Note 1. Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc. so as not to infiltrate rain water etc. (field erection work).
2. At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.
3. Take notice of service space as Fig. A. (In case of single installation, 600mm or more of back space as front space makes easier access when servicing the unit from rear side.)
4. In case the temperature around the Heat source unit has possibility to drop under 0°C, be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
 -Circulate the water all the time even if the Heat source unit is not in operation.
 -Drain the water from inside of the Heat source unit when the Heat source unit will not operate for a long term.

PQHY-P400,500YSGM-A

Draw. : OU-W663147
Unit : mm

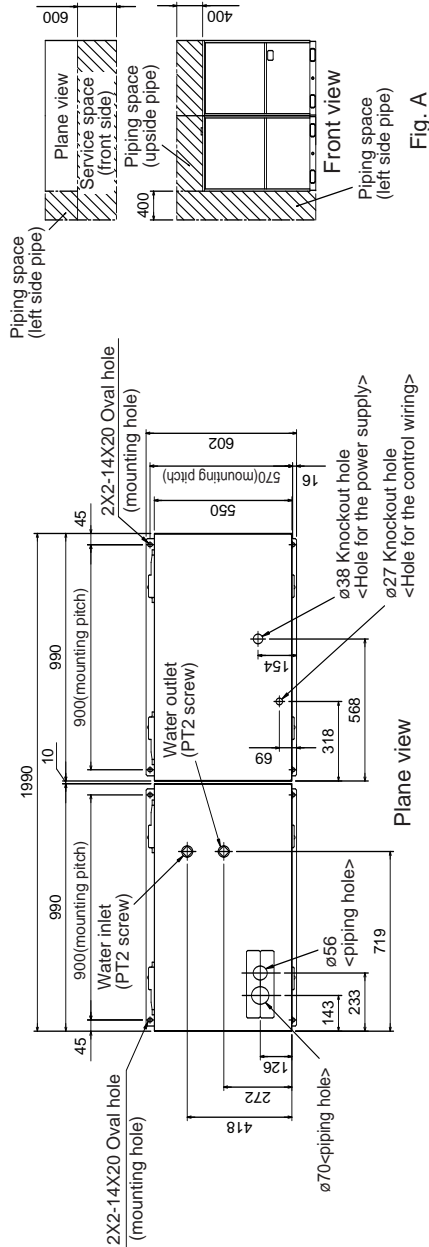
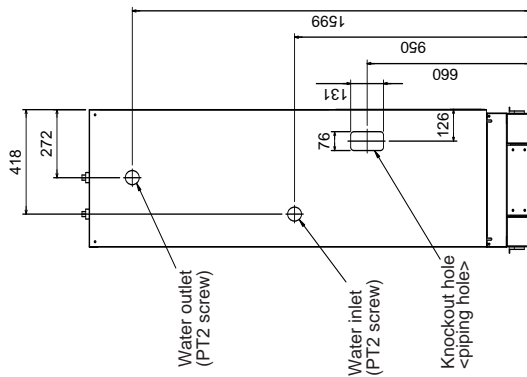
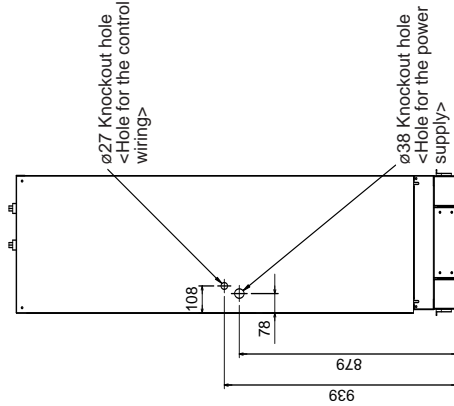


Fig. A

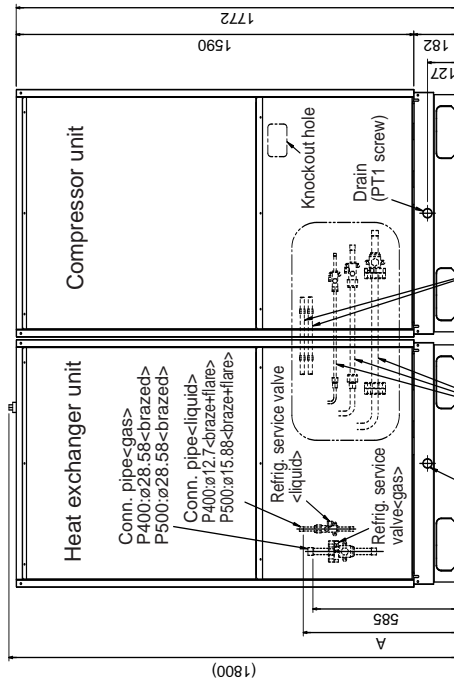


Left side view

- [Accessories]
- Refrigerant (gas) conn. pipe.....1pc.
 - (Already installed on the unit)
 - Refrigerant (liquid) conn. pipe.....1pc.
 - (P400 Only : Packaged in the accessory kit)
 - Refrigerant conn. pipe between Heat exchanger unit and Compressor unit ø9.52.....2pcs.
 - (Packaged in the accessory kit) ø19.05.....2pcs.
 - (Packaged in the accessory kit) ø28.58.....2pcs.
 - (Already installed on the unit)
 - Packing for conn. pipe.....3pcs.
 - (Attached near the ball valve)
 - Bushing.....2pcs.
 - External heater adapter.....1set



Right side view



Front view

| Model | A |
|-------|-----|
| 400 | 624 |
| 500 | 569 |

Connecting pipes are not provided with the 500 models.

- Note 1. Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc. so as not to infiltrate rain water etc. (field erection work).
2. At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.
3. Take notice of service space as Fig. A. (In case of single installation, 600mm or more of back space as front space makes easier access when servicing the unit from rear side.)
4. In case the temperature around the Heat source unit has possibility to drop under 0°C, be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
-Circulate the water all the time even if the Heat source unit is not in operation.
-Drain the water from inside of the Heat source unit when the Heat source unit will not operate for a long term
5. Use the external heater adapter for water Heat source (option) to take length (more than 2m) between Heat exchanger unit and Compressor unit.

PQHY-P200,250YGM-A,P400,500YSGM-A

Drw. : OU-W274643

<Symbol explanation>

| Symbol | Name |
|------------|--|
| ACCT | AC Current Sensor |
| DCCT | DC Current Sensor |
| DCL | DC reactor (Power factor improvement) |
| 52C | Magnetic contactor (Inverter main circuit) |
| MF1 | Fan motor (Radiator panel) |
| 21S4a | Case heater (Compressor) |
| SV1 | Solenoid valve (Discharge-suction bypass) |
| SV4a,b,c,d | Solenoid valve (Heat exchanger capacity control) |
| SV5a,b | Solenoid valve (Superheating capacity control) |
| SV7a,b,c | Solenoid valve (Heat exchanger capacity control) |
| LEV1 | Electronic expansion valve (Sub-cool coil bypass) |
| LEV2 | Electronic expansion valve (Heat exchanger for inverter) |
| TH11 | Thermistor (Discharge pipe temp. detect) |
| TH5 | Pipe temp.detect |
| TH6 | Water temp.detect |
| TH7 | Liquid outlet temp.detect at sub-cool |
| TH8 | Bypass outlet temp.detect at sub-cool |
| TH9 | Freeze prevention sensor (Radiator panel temp. detect) |
| TH10 | Outlet temp.detect On/Off (Compressor) |
| THHS1 | Radiator panel temp. detect |
| 63H | High pressure switch |
| 63HS | High pressure sensor |
| 63LS | Low pressure sensor |
| L1,L2 | Choke coil (Transmission) |
| Z20 | Function device |
| ⊕ | Earth terminal |

<Difference of appliance>

| Model name | ※2 | ※3 |
|----------------------|----|----|
| PQHY-P200/P250YGM-A | X | X |
| PQHY-P400/P500YSGM-A | ○ | ○ |
| PQHY-P200/P250YGM-A | ○ | X |
| PQHY-P400/P500YSGM-A | ○ | ○ |

※1: Function according to switch operation.
 (SW4-7:CN3D 1-2P and CN3D 1-3P, SW3-3:CN51 3-5P)
 SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

| CN3D | Compressor | CN3D | NIGHT MODE |
|-------|------------|-------|------------|
| 1-3P | ON/OFF | 1-2P | MODE |
| OPEN | ON | OPEN | OFF |
| SHORT | OFF | SHORT | ON |

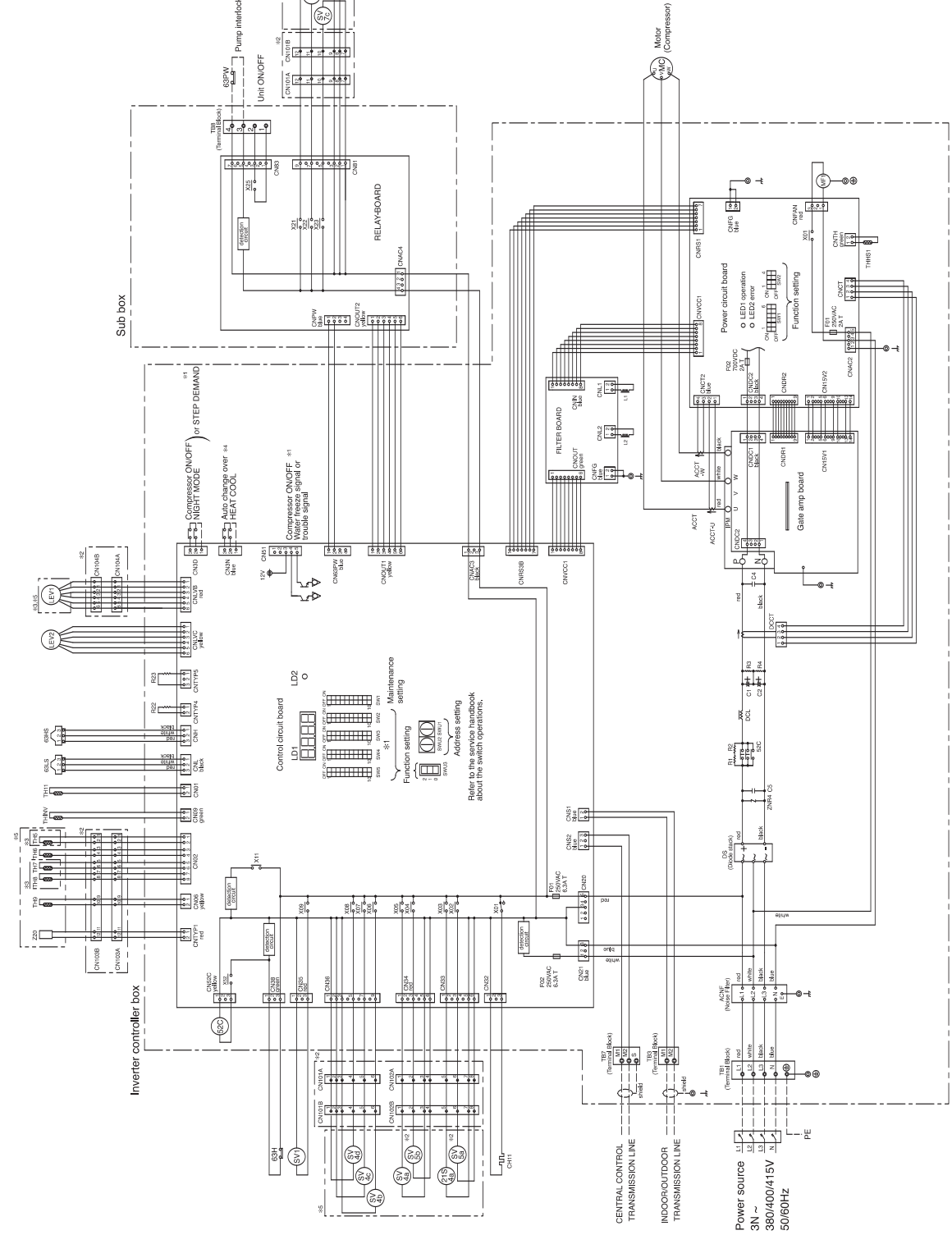
| SW4-7:ON (STEP DEMAND) | |
|------------------------|-------|
| CN3D 1-3P | OPEN |
| CN3D 1-3P | SHORT |
| CN51 3-5P | 100% |
| CN51 3-5P | 50% |

| SW3-3 | |
|-----------|---------------------|
| CN51 3-5P | water freeze signal |
| OFF | trouble signal |

※4: Auto change over (CN3N 1-2P, 1-3P); PQHY only

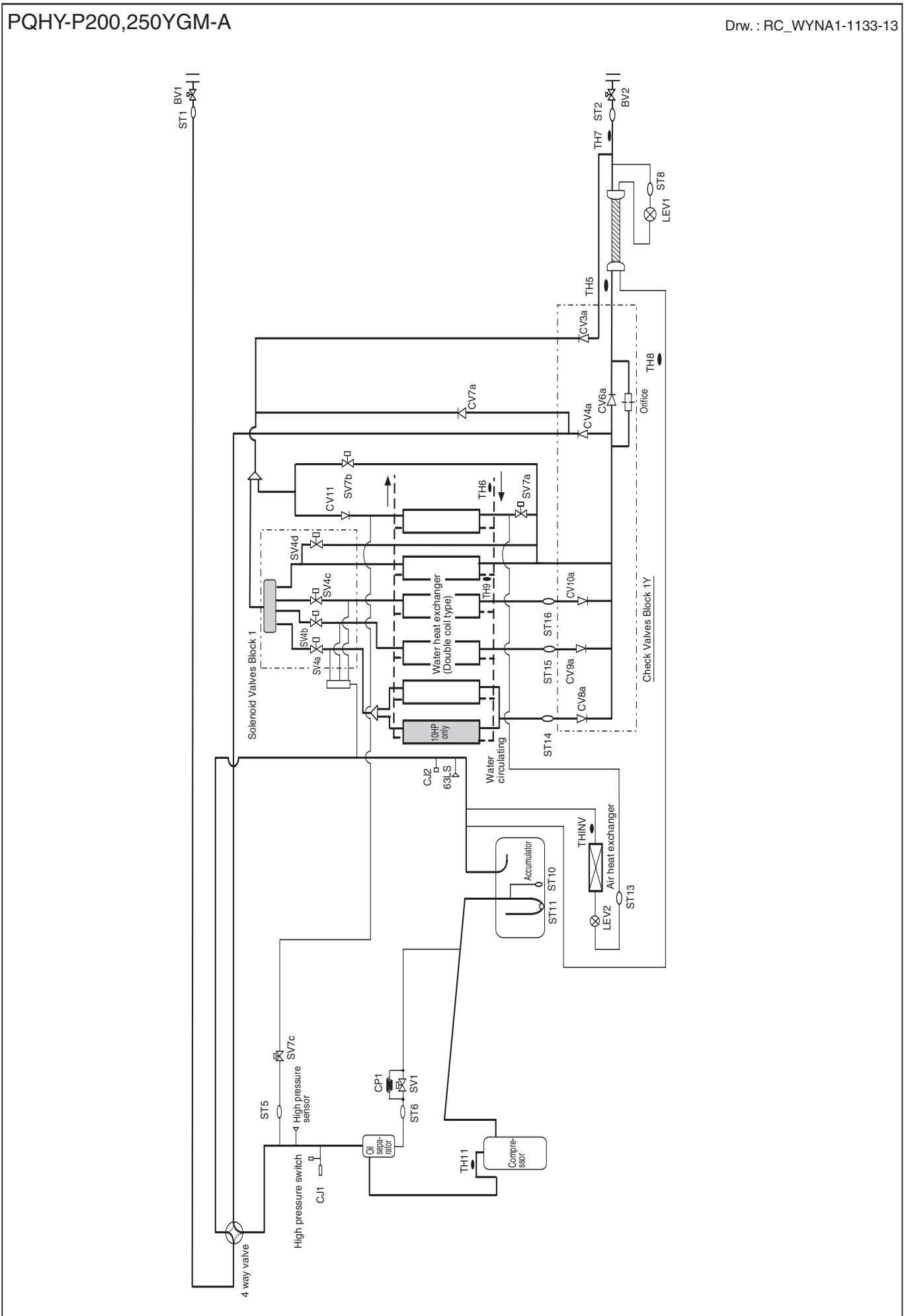
| CN3N 1-2P | CN3N 1-3P |
|----------------------|-----------|
| OPEN | SHORT |
| Auto change over/OFF | COOL |
| Auto change over/ON | HEAT |

※5: " is on the Heat exchanger unit side for P400/500 type.
 NOTE: The broken lines indicate field wiring.



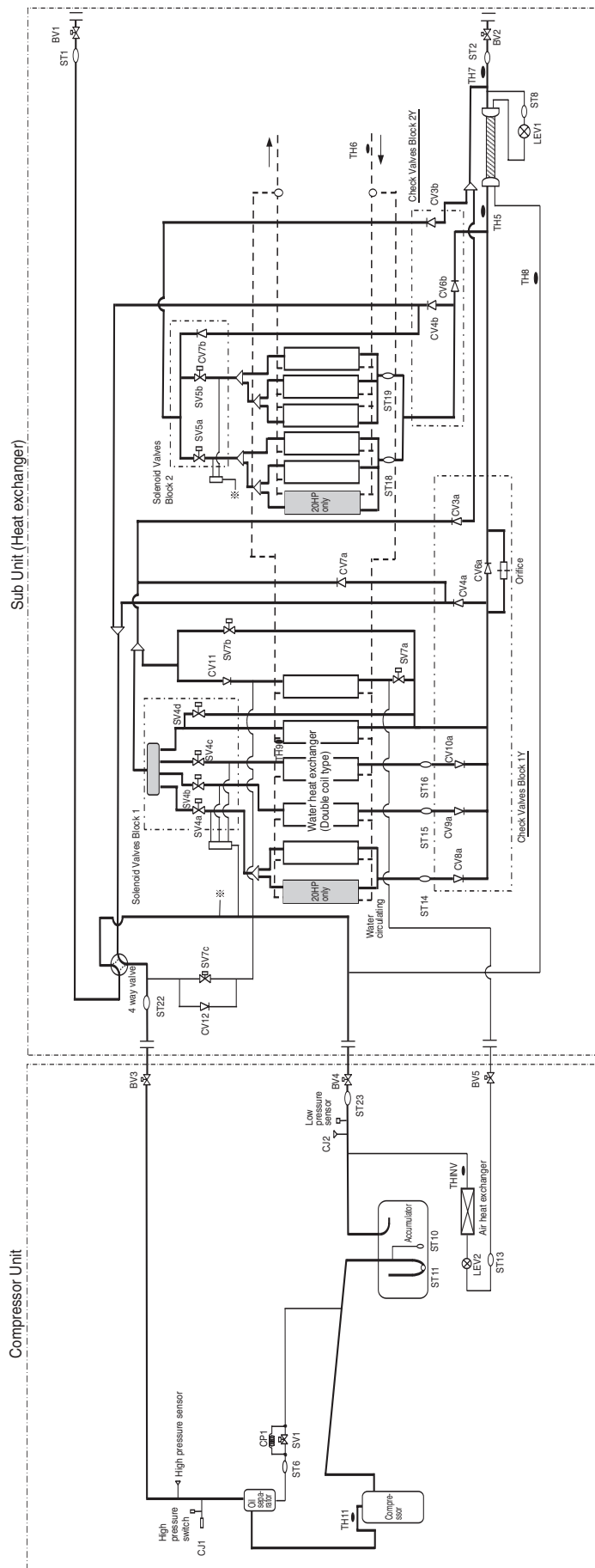
PQHY-P200,250YGM-A

Draw. : RC_WYNA1-1133-13



PQHY-P400,500YSGM-A

Drw. : RC_WYNA3-1133-14



7-1. Designing of water circuit system

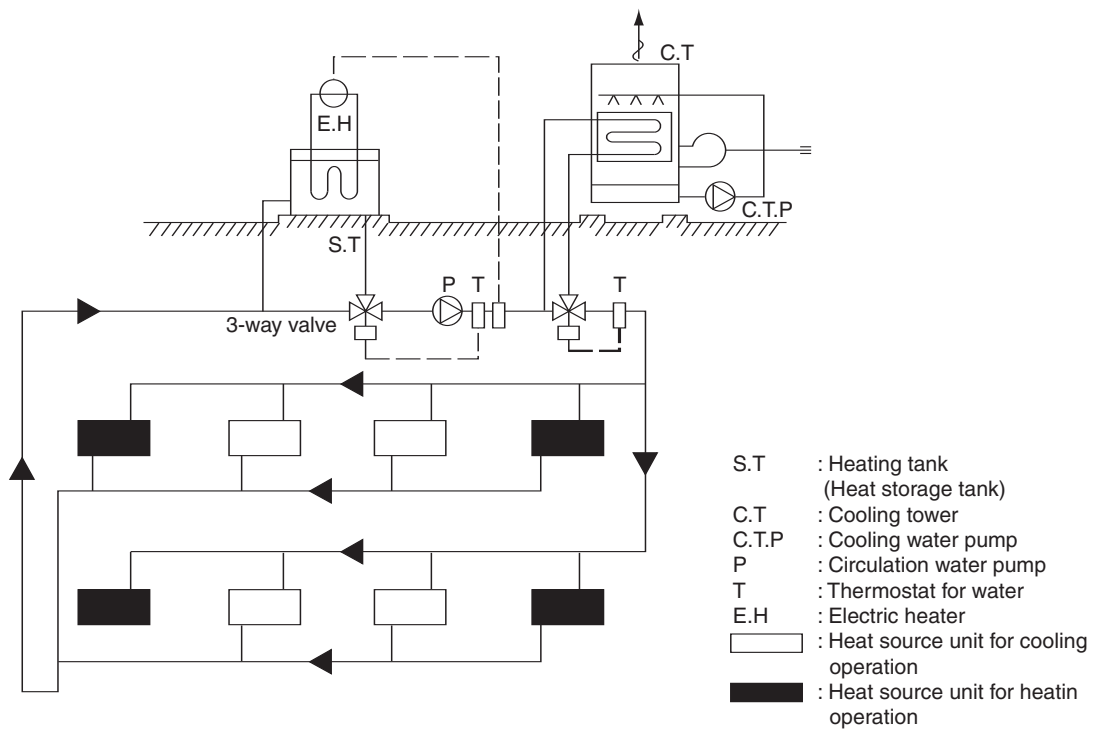
1) Example of basic water circuit

The water circuit of the water heat source CITY MULTI connects the heat source unit with the cooling tower/auxiliary heat source/heat storage tank/circulation pump with a single system water piping as shown in the figure below. The selector valve automatically controls to circulate water toward the cooling tower in the cooling season, while toward the heat storage tank in the heating season. If the circulation water temperature is kept in a range of 10~45°C* regardless of the building load, the water heat source CITY MULTI can be operated for either cooling or heating. Therefore in the summer when only cooling load exists, the temperature rise of circulation water will be suppressed by operating the cooling tower. While in the winter when heating load increases, the temperature of circulation water may be dropped below 10°C. Under such situation, the circulation water will be heated with the auxiliary heat source if it drops below a certain temperature. When the thermal balance between cooling and heating operation is in a correct proportion, the operation of the

auxiliary heat source and cooling tower is not required. In order to control the above thermal balance properly and use thermal energy effectively, utilizing of heat storage tanks, and night-time discounted electric power as a auxiliary heat source will be economical. Meantime as this system uses plural sets of heat source unit equipped with water heat exchangers, water quality control is important. Therefore it is recommended to use closed type cooling towers as much as possible to prevent the circulation water from being contaminated. When open type cooling towers are used, it is essential to provide proper maintenance control such as that to install water treatment system to prevent troubles caused by contaminated circulation water.

*10~45°C : 50%~130% of indoor units can be connected

Example of basic water circuit for water heat source CITY MULTI



The indoor unit and refrigerant piping system are excluded in this figure.

2) Cooling tower

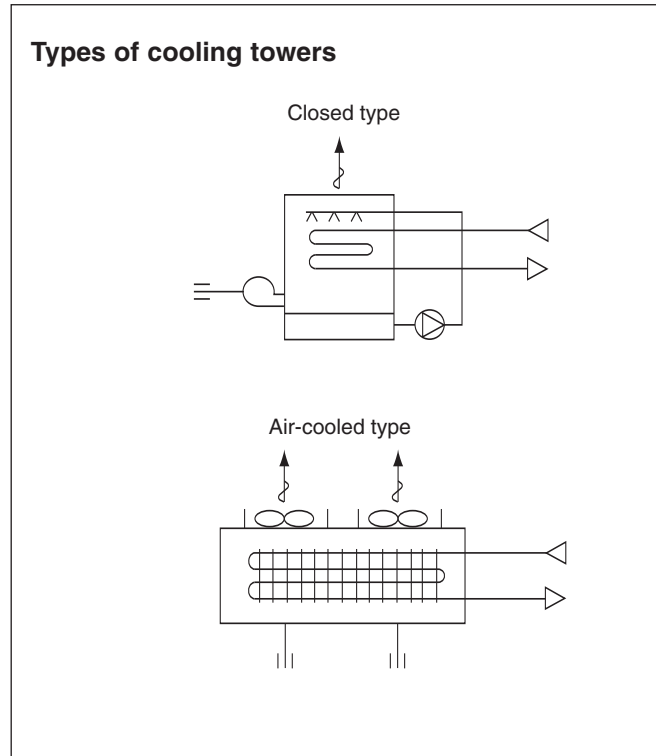
a) Types of cooling tower

The cooling towers presently used include the open type cooling tower, open type cooling tower + heat exchanger, closed type cooling tower, and air-cooled type cooling tower. However, as the quality control of circulation water is essential when units are installed in decentralized state inside a building, the closed type cooling tower is generally employed in such case.

Although the circulation water will not be contaminated by atmospheric air, it is recommended to periodically blow water inside the system and replenish fresh water instead.

In a district where the coil may be frozen in the winter, it is necessary to apply antifreeze solution to the circulation water, or take freeze protection measures such as to automatically discharge water inside the cooling coil at the stopping of the pump.

When the open type cooling tower is used, be sure to install a water quality control device in addition to the freeze protection measures, as the water may be deteriorated by atmospheric contaminants entered into the cooling tower and dissolved into the circulation water.



b) Calculation method of cooling tower capacity

All units of the water heat source CITY MULTI may possibly be in cooling operation temporarily (at pulling down) in the summer, however, it is not necessary to determine the capacity according to the total cooling capacity of all CITY MULTI units as this system has a wide operating water temperature range (10~45°C).

It is determined in accordance with the value obtained by adding the maximum cooling load of an actual building, the input heat equivalent value of all CITY MULTI units, and the cooling load of the circulating pumps. Please check for the values of the cooling water volume and circulation water volume.

$$\text{Cooling tower capacity} = \frac{Q_c + 860 \times (\sum Q_w + P_w)}{3,900} \text{ (Refrigeration ton)}$$

- Q_c : Maximum cooling load under actual state (kcal/h)
- Q_w : Total input of water heat source CITY MULTI at simultaneous operation under maximum state (kW)
- P_w : Shaft power of circulation pumps (kW)

3) Auxiliary heat source and heat storage tank

When the heating load is larger than the cooling load, the circulation water temperature lowers in accordance with the heat balance of the system. It should be heated by the auxiliary heat source in order to keep the inlet water temperature within the operating range (10°C or more) of the water heat source CITY MULTI.

Further in order to operate the water heat source CITY MULTI effectively, it is recommended to utilize the heat storage tank to cover the warming up load in the morning and the insufficient heat amount.

Effective heat utilization can be expected to cover insufficient heat at the warming up in the next morning or peak load time by storing heat by installing a heat storage tank or operating a low load auxiliary heat source at the stopping of the water heat source CITY MULTI. As it can also be possible to reduce the running cost through the heat storage by using the discounted night-time electric power, using both auxiliary heat source and heat storage tank together is recommended.

The effective temperature difference of an ordinary heat storage tank shows about 5deg. even with the storing temperature at 45°C.

However with the water heat source CITY MULTI, it can be utilized as heating heat source up to 15°C with an effective temperature of a high 30deg. approximately, thus the capacity of the heat storage tank can be minimized.

a)Auxiliary heat source

The following can be used as the auxiliary heat source.

- Boiler (Heavy oil, kerosine, gas, electricity)
- Electric heat (Insertion of electric heater into heat storage tank)
- Outdoor air (Air-heat source heat pump chiller)
- Warm discharge water (Exhaust water heat from machines inside building and hot water supply)
- Utilization of night-time lighting
- Solar heat

Please note that the auxiliary heat source should be selected after studying your operating environment and economical feasibility.

Determining the auxiliary heat source capacity

For the CITY MULTI water heat source system, a heat storage tank is recommended to use. When employment of the heat storage tank is difficult, the warming up operation should be arranged to cover the starting up heating load. Since the holding water inside the piping circuit owns heat capacity and the warming up operation can be assumed for about one hour except that in a cold region, the heat storage tank capacity is required to be that at the maximum daily heating load including the warming up load at the next morning of the holiday.

However the auxiliary heat source capacity should be determined by the daily heating load including warming up load on the week day.

For the load at the next morning of the holiday, heat storage is required by operating the auxiliary heat source even outside of the ordinary working hour.

When heat storage tank is not used

$$QH = HC_T \left(1 - \frac{1}{COP_h} \right) - 1000 \times V_w \times \Delta T - 860 \times P_w$$

| | | |
|------------------|--|-------------------|
| QH | : Auxiliary heat source capacity | (kcal/h) |
| HC _T | : Total heating capacity of each water heat source CITY MULTI | (kcal/h) |
| COP _H | : COP of water heat source CITY MULTI at heating | |
| V _w | : Holding water volume inside piping | (m ³) |
| ΔT | : Allowable water temperature drop = T _{WH} - T _{WL} | (°C) |
| T _{WH} | : Heat source water temperature at high temperature side | (°C) |
| T _{WL} | : Heat source water temperature at low temperature side | (°C) |
| P _w | : Heat source water pump shaft power | (kW) |

When heat storage tank is used;

$$QH = \frac{HQ_{1T} \left(1 - \frac{1}{COP_h} \right) - 860 \times P_w \times T_2}{T_1} \times K \quad (\text{Kcal})$$

| | | |
|------------------|---|------------|
| QH _{1T} | : Total of heating load on weekday including warming up | (kcal/day) |
| T ₁ | : Operating hour of auxiliary heat source | (h) |
| T ₂ | : Operating hour of heat source water pump | (h) |
| K | : Allowance factor (Heat storage tank, piping loss, etc.) | 1.05~1.10 |

HQ_{1T} is calculated from the result of steady state load calculation similarly by using the equation below.
 $HQ_{1T} = 1.15 \times (\sum Q'a + \sum Q'b + \sum Q'c + \sum Q'd + \sum Q'f) T_2 - \psi (\sum Q'e_1 + \sum Q'e_2 + \sum Q'e_3) (T_2 - 1)$

| | | |
|------------------|--|----------|
| Q'a | : Thermal load from external wall/roof in each zone | (kcal/h) |
| Q'b | : Thermal load from glass window in each zone | (kcal/h) |
| Q'c | : Thermal load from partition/ceiling/floor in each zone | (kcal/h) |
| Q'd | : Thermal load by infiltration in each zone | (kcal/h) |
| Q'f | : Fresh outdoor air load in each zone | (kcal/h) |
| Q'e ₁ | : Thermal load from human body in each zone | (kcal/h) |
| Q'e ₂ | : Thermal load from lighting fixture in each zone | (kcal/h) |
| Q'e ₃ | : Thermal load from equipment in each zone | (kcal/h) |
| ψ | : Radiation load rate | 0.6~0.8 |
| T ₂ | : Air conditioning hour | |

b) Heat storage tank

Heat storage tank can be classified by types into the open type heat storage tank exposed to atmosphere, and the closed type heat storage tank with structure separated from atmosphere. Although the size of the tank and its installation place should be taken into account, the closed type tank is being usually employed by con-

sidering corrosion problems.

The capacity of heat storage tanks is determined in accordance with the daily maximum heating load that includes warming up load to be applied for the day after the holiday.

When auxiliary heat source is operated during operation and even after stopping of water heat source CITY MULTI unit

$$V = \frac{HQ_{2T} \left(1 - \frac{1}{COP_h} \right) - 860 \times P_w \times T_2 - QH \times T_2}{\Delta T \times 1000 \times \eta V} \quad (\text{ton})$$

When auxiliary heat source is operated after stopping of water heat source CITY MULTI unit

$$V = \frac{HQ_{2T} \left(1 - \frac{1}{COP_h} \right) - 860 \times P_w \times T_2}{\Delta T \times 1000 \times \eta V} \quad (\text{ton})$$

| | |
|------------------|---|
| HQ _{2T} | : Maximum heating load including load required for the day after the holiday (kcal/day) |
| ΔT | : Temperature difference utilized by heat storage tank (deg) |
| ηV | : Heat storage tank efficiency |

$$HQ_{2T} : 1.3 \times (\sum Q'a + \sum Q'c + \sum Q'd + \sum Q'f) T_2 - \psi (\sum Q'e_2 + \sum Q'e_3) (T_2 - 1)$$

4) Piping system

The following items should be kept in your mind in planning / designing water circuits.

- a) All units should be constituted in a single circuit in principle.
- b) When plural numbers of the water heat source CITY MULTI unit are installed, the rated circulating water flow rate should be kept by making the piping resistance to each unit almost same value. As an example, the reverse return system as shown below may be employed.
- c) Depending on the structure of a building, the water circuit may be prefabricated by making the layout uniform.
- d) When a closed type piping circuit is constructed, install an expansion tank usable commonly for a make-up water

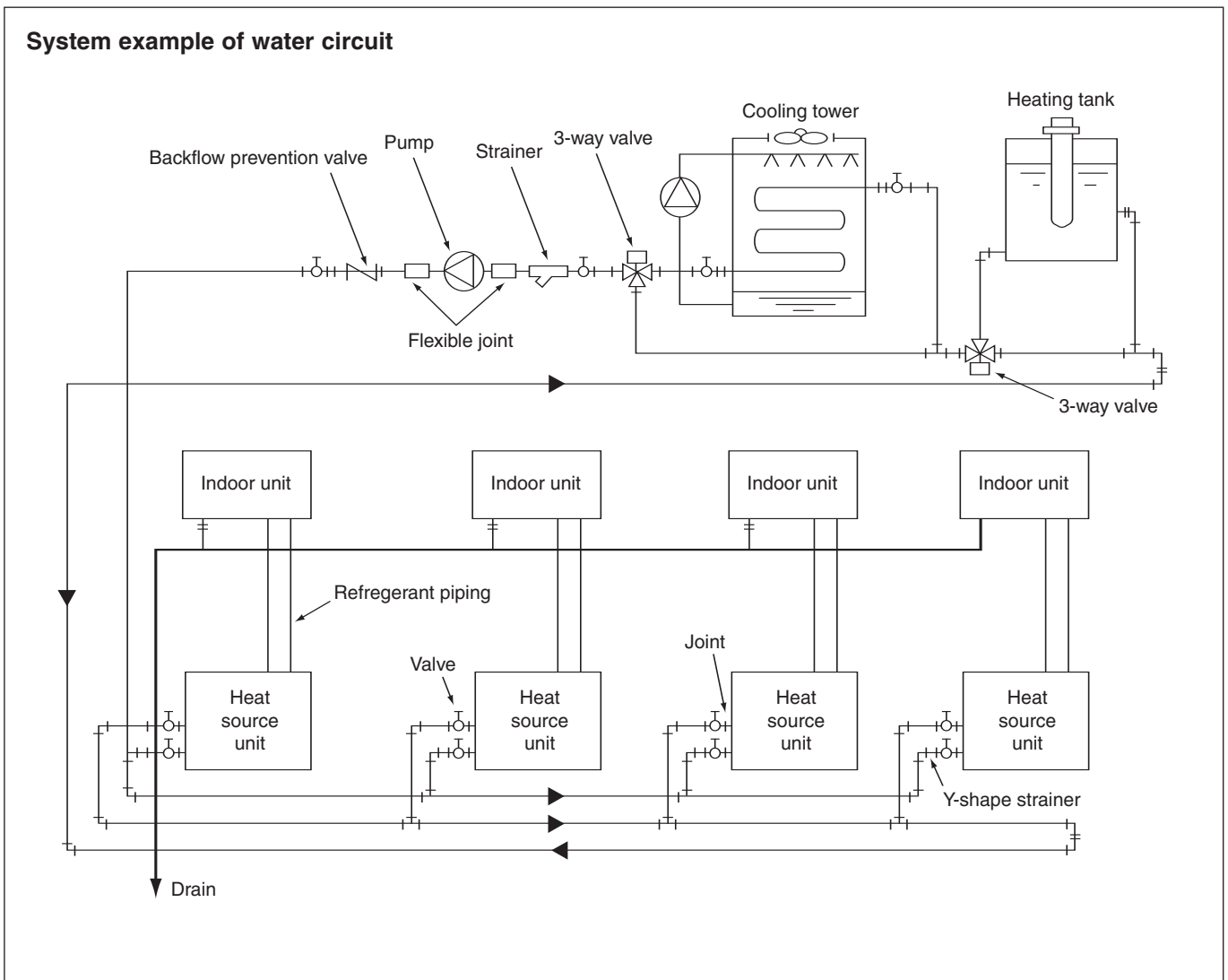
tank to absorb the expansion/contraction of water caused by temperature fluctuation.

- e) If the operating temperature range of circulation water stays within the temperature near the normal temperature (summer : 30°C, winter : 20°C), thermal insulation or anti-sweating work is not required for the piping inside buildings.

In case of the conditions below, however, thermal insulation is required.

- When well water is used for heat source water.
- When piped to outdoor or a place where freezing may be caused.
- When vapor condensation may be generated on piping due to an increase in dry bulb temperature caused by the entry of fresh outdoor air.

Y
R2
WY
WR2
S
OP



5) Cleaning of water heat exchanger

For the water heat exchanger, scale adheres in less amount generally in the case of closed type cooling towers. However in a long period of use, scale will adhere that may lower the heat exchange capacity and increase the water resistance.

In such case, conduct cleaning work under the procedure given below.

procedure given below.

The cleaning work procedure generally used is as follows. However as the cleaning agents have various differences in their cleaning effect, corrosion characteristics, processing time, and condensation for use, conduct the work after consulting the relating maker.

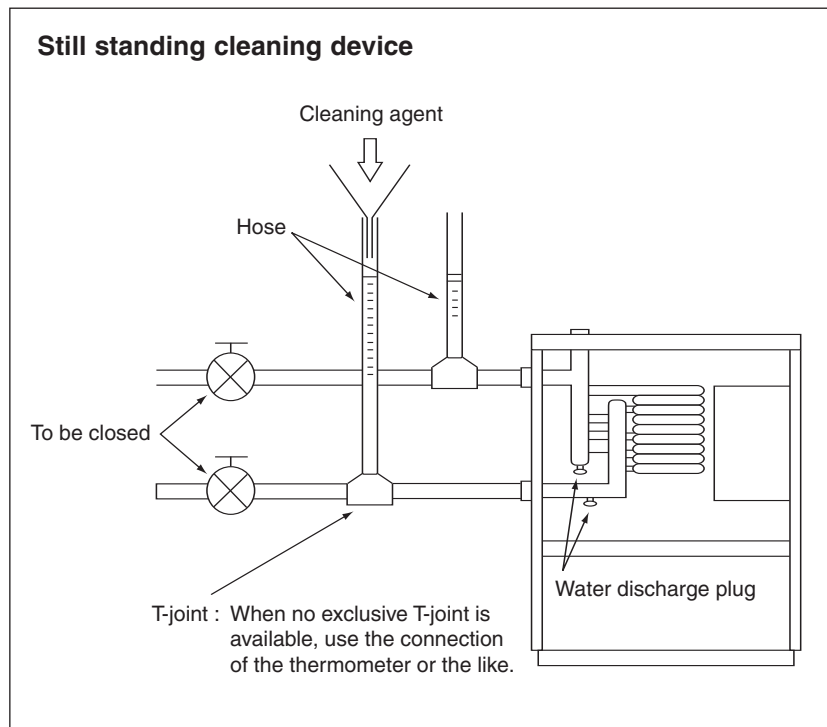


a) Still standing method

This method feeds the raw liquid or diluted solution of cleaning agent into the water circuit and leave it for a while, and requires only a simple device.

- Since the cleaning time required differs by the agent of each maker, be sufficiently careful for the time and not to exceed the time specified.

- Fully recover the cleaning liquid through the water discharge plug of the heat exchanger, and then fully clean the water circuit with clean water. If the water washing can not be made sufficiently, neutralization processing will be effective.

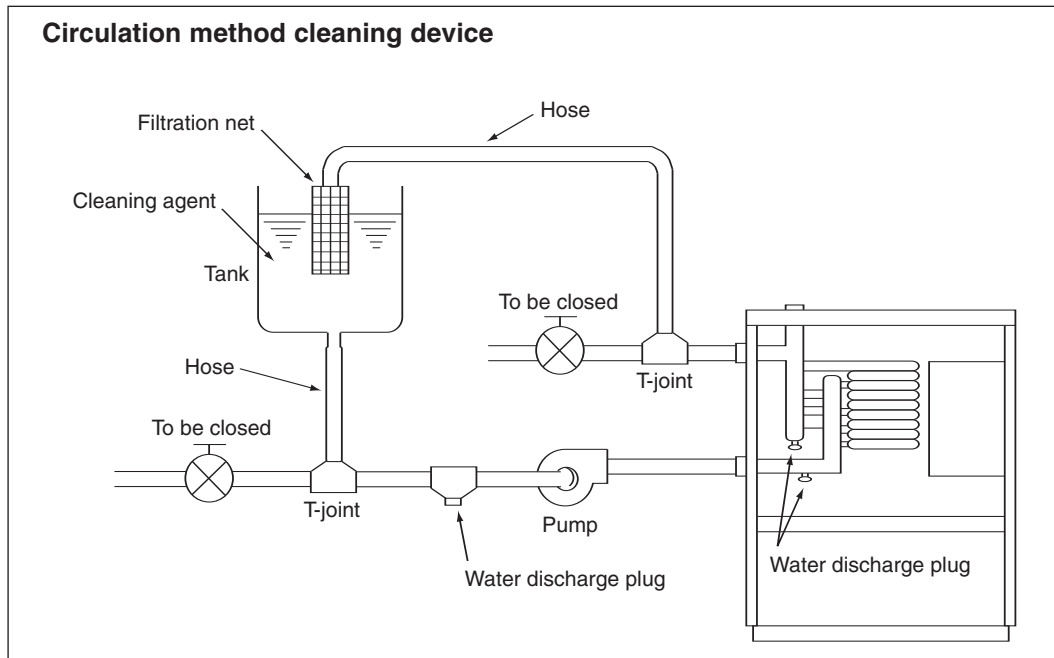


b)Circulation method

Although this method can clean in shorter time than that required by the still standing method, be careful that the circulation pump may be damaged if using cleaning agent with strong corrosive characteristics.

- After completing washing work, fully recover the washing liquid through the water discharge plug installed at the bottom of the piping and that at the heat exchanger.
- Conduct water washing for three times or more after removing cleaning agent. If this can not be made satisfactorily, apply neutralization treatment. Full replacement of water can be ascertained by measuring the PH of the water.
- Note that it may be required to control the cleaning time depending on the scale generation or water quality.
- At cleaning work, remove or shut down the instruments like water pressure gauges so that the cleaning liquid will not enter into them.

- Check for the connections of piping beforehand so that cleaning agent will not leak from the piping during cleaning work.
- Start cleaning operation after fully mixing the cleaning agent with water.
- Cleaning at the earlier timing is recommended as the removal of scale will be difficult if it has accumulated seriously. Periodical cleaning is necessary in a district with inferior water quality.
- Conduct water washing sufficiently with clear water after cleaning work as all cleaning agents own strong acidity.
- To verify the completion of cleaning, remove the hose and observe the inner wall of the piping whether it is clean.
- Be sufficiently careful for fire when using inflammable cleaning agent (GOSPEL R).



Example of cleaning agents

| Name | Shape | Condensation | Time | Makers |
|---------------|---------------|--|--------|--------------|
| CLEARLITE RK | Powder/Liquid | 10~20% | 2~3Hr. | Koei Kagaku |
| CLEARLITE ACE | Powder/Liquid | 3~5% | 1~3Hr. | Koei Kagaku |
| GOSPEL R | Liquid | 7% (Upper limit 10%, lower limit 5%) | 1~4Hr. | Gospel Kako |
| GOSPEL SR | Powder | | | Marusan |
| ADDITION DR | Powder | | | Seiwa kogyo |
| SS-100 | Liquid | | | Saver Kagaku |
| NEOLUX F | Powder | | | |
| DISCALER | Powder | 4~7% | | |

6) Practical System Examples and Circulation Water Control

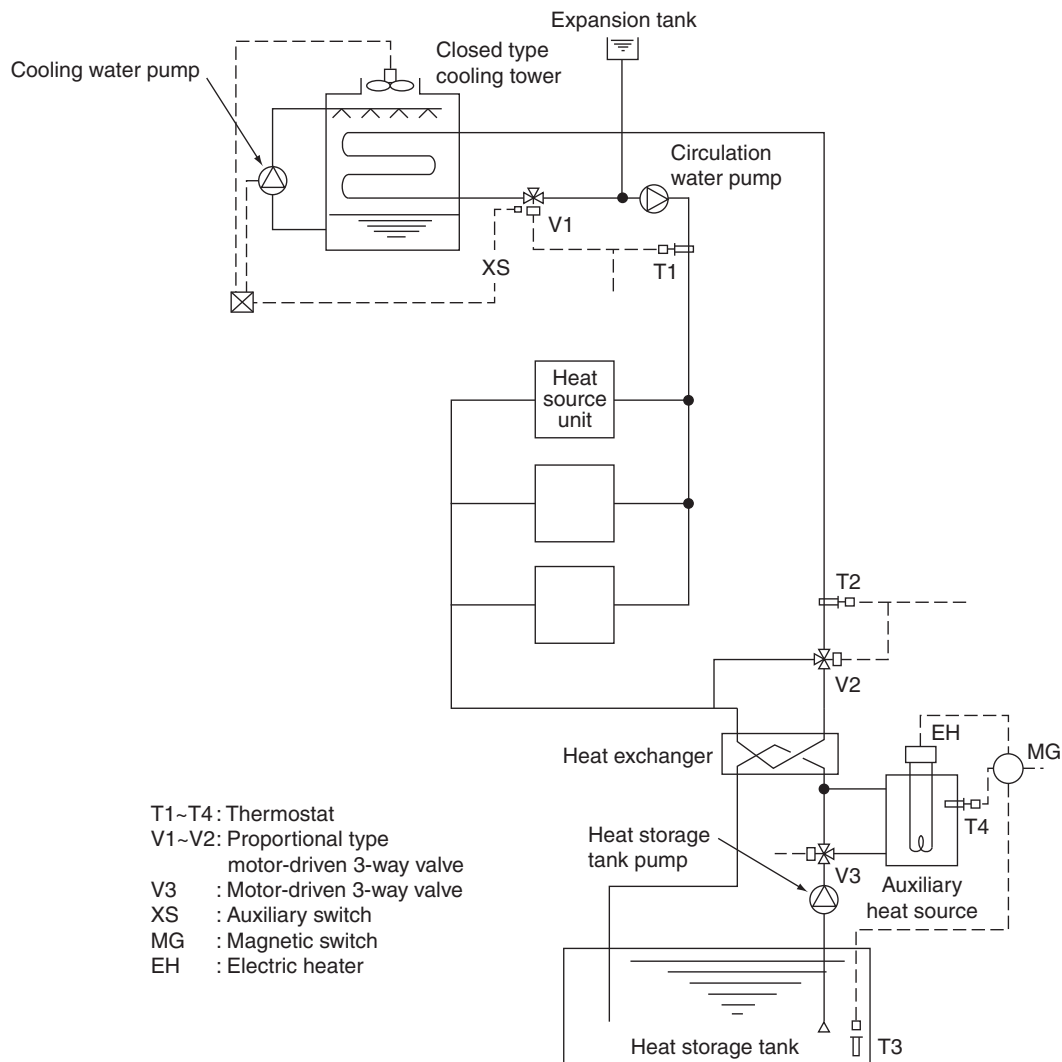
Since the water heat source CITY MULTI is of water heat source system, versatile systems can be constituted by combining it with various heat sources.

The practical system examples are given below.

Either cooling or heating operation can be performed if the circulation water temperature of the water heat

source CITY MULTI stays within a range of 10~45°C. However, the circulation water temperature near 32°C for cooling and 20°C for heating is recommended by taking the life, power consumption and capacity of the air conditioning units into consideration. The detail of the control is also shown below.

Example-1 Combination of closed type cooling tower and hot water heat storage tank (using underground hollow slab)



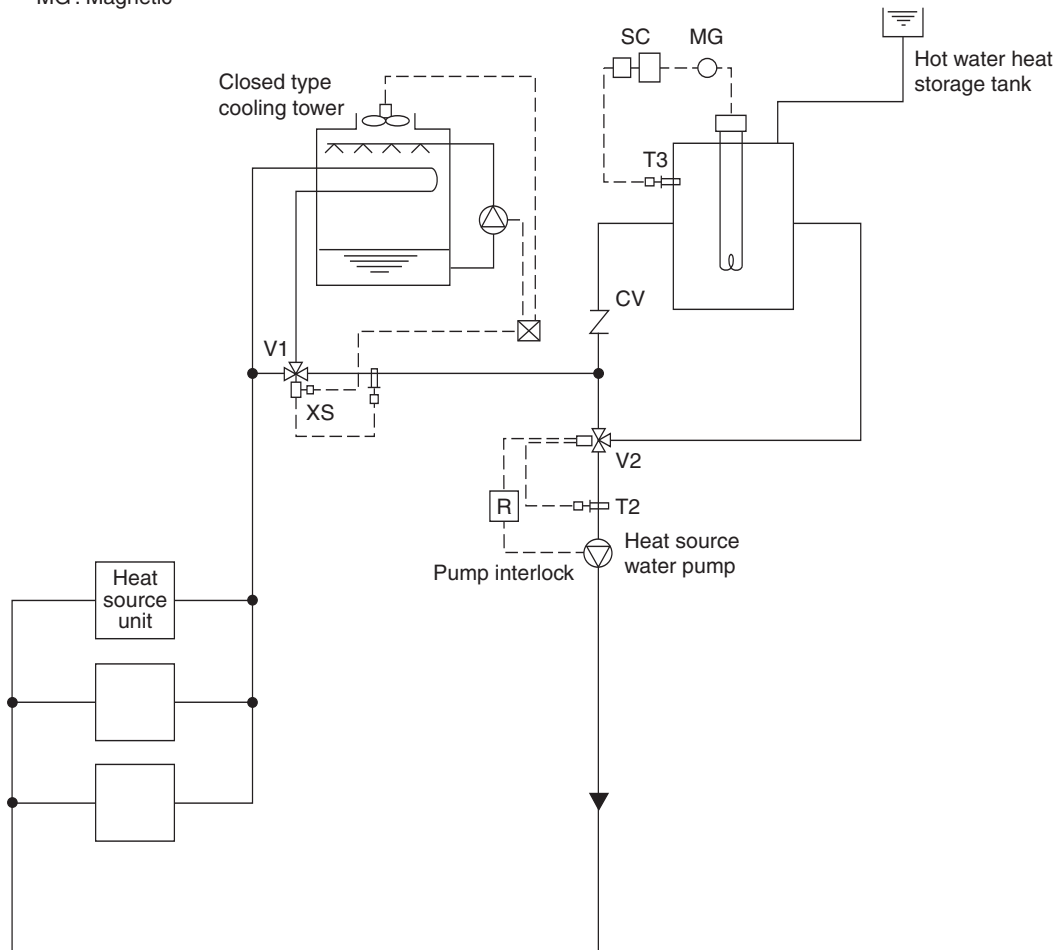
By detecting the circulation water temperature of the water heat source CITY MULTI system with T1 (around 32°C) and T2 (around 20°C), the temperature will be controlled by opening/closing V1 in the summer and V2 in the winter.

In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will open to lower the circulation water temperature. While in the winter, as the circulation water temperature drops, V2 will open following the command of T2 to rise the circulation water temperature.

The water inside the heat storage tank will be heated by the auxiliary heat source by V3 being opened with timer operation in the night-time. The electric heater of the auxiliary heat source will be controlled by T3 and the timer. The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control of the fan and pump following the command of the auxiliary switch XS of V1, that operates only the fan at the light load while the fan and pump at the maximum load thus controlling water temperature and saving motor power.

Example-2 Combination of closed type cooling tower and hot water heat storage tank

- T1 : Proportional type, insertion system thermostat
 T2 : Proportional type, insertion system thermostat
 T3 : Proportional type, insertion system thermostat
 V1 : Proportional type, motor-driven 3-way valve
 V2 : Proportional type, motor-driven 3-way valve
 XS : Auxiliary switch (Duplex switch type)
 SC : Step controller
 R : Relay
 MG : Magnetic



=In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will open to lower the circulation water temperature. In the winter, if the circulation water temperature stays below 25°C, V2 will open/close by the command of T2 to keep the circulation water temperature constant.

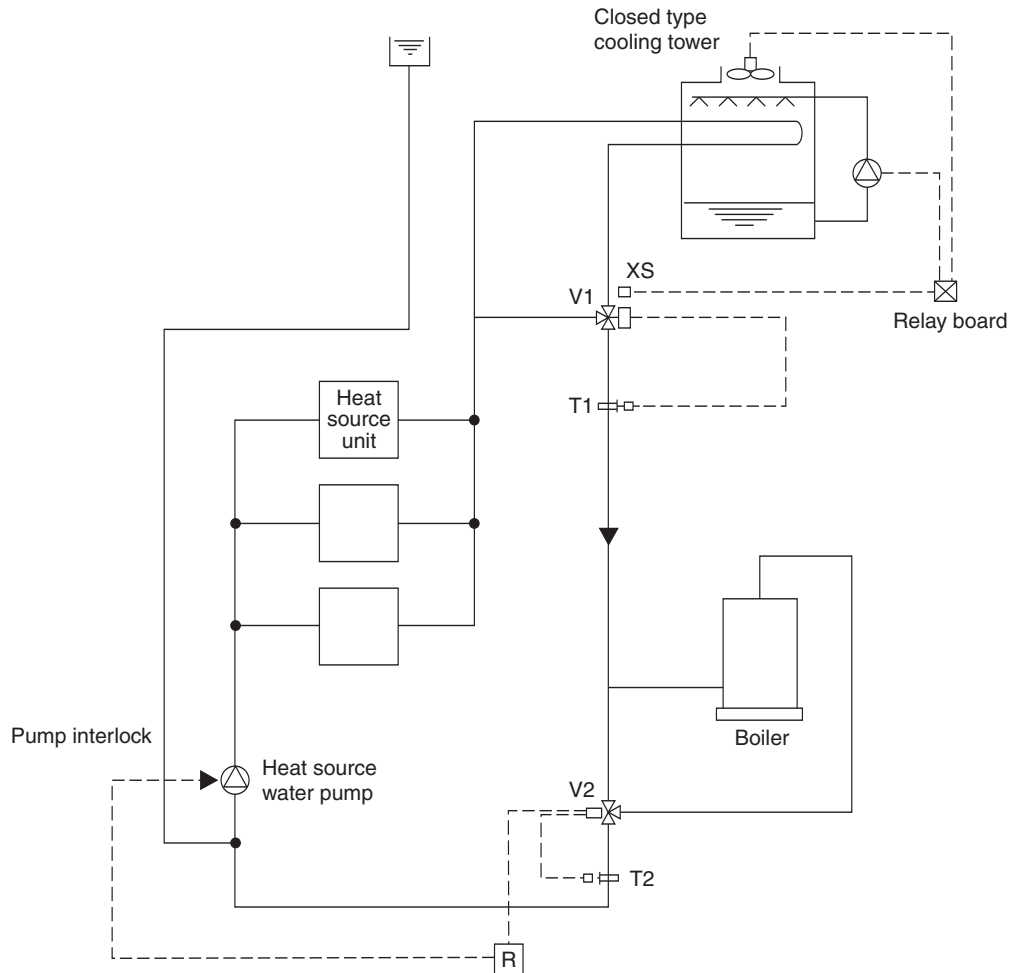
The temperature of the hot water inside the heat storage tank will be controlled through the step control of the electric heater by step controller operation following the command of T3.

During the stopping of the heat source water pump, the bypass port of V2 will be closed fully by interlocking thus preventing the high temperature water from entering into the system at the starting of the pump.

The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control of the fan and pump following the command of the auxiliary switch XS of V1, that operates only the fan at the light load while the fan and pump at the maximum load thus controlling water temperature and saving motor power.

Example-3 Combination of closed type cooling tower and boiler

- T1 : Proportional type, insertion system thermostat
- T2 : Proportional type, insertion system thermostat
- T3 : Proportional type, insertion system thermostat
- V1 : Proportional type, motor-driven 3-way valve
- S : Selector switch
- R : Relay
- XS : Auxiliary switch (Duplex switch type)



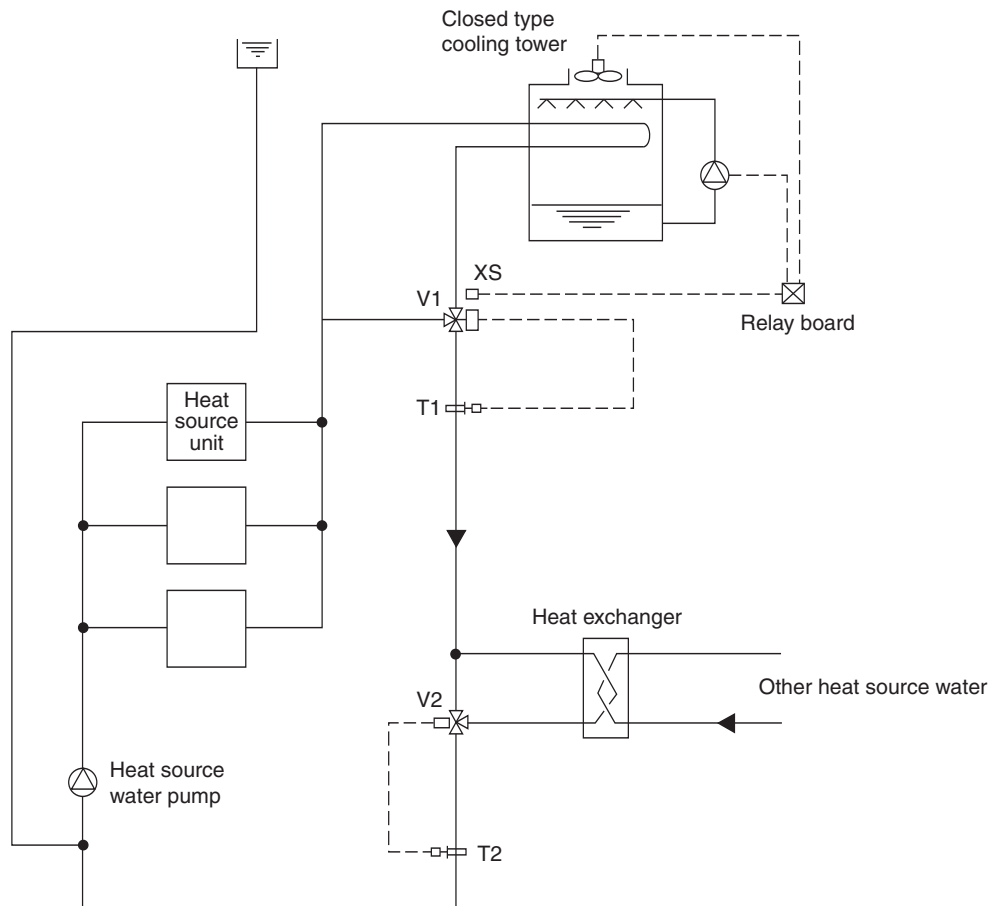
In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will close to lower the circulation water temperature. In the winter, if the circulation water temperature drops below 25°C, V2 will conduct water temperature control to keep the circulation water temperature constant.

During the stopping of the heat source water pump, the bypass port of V2 will be closed fully by interlocking.

The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control following the command of the auxiliary switch XS of V1, thus controlling water temperature and saving motor power.

Example-4 Combination of closed type cooling tower and heat exchanger (of other heat source)

- T1 : Proportional type, insertion system thermostat
 T2 : Proportional type, insertion system thermostat
 V1 : Proportional type, motor-driven 3-way valve
 V2 : Proportional type, motor-driven 3-way valve
 S : Selector switch
 R : Relay
 XS : Auxiliary switch (Duplex switch type)

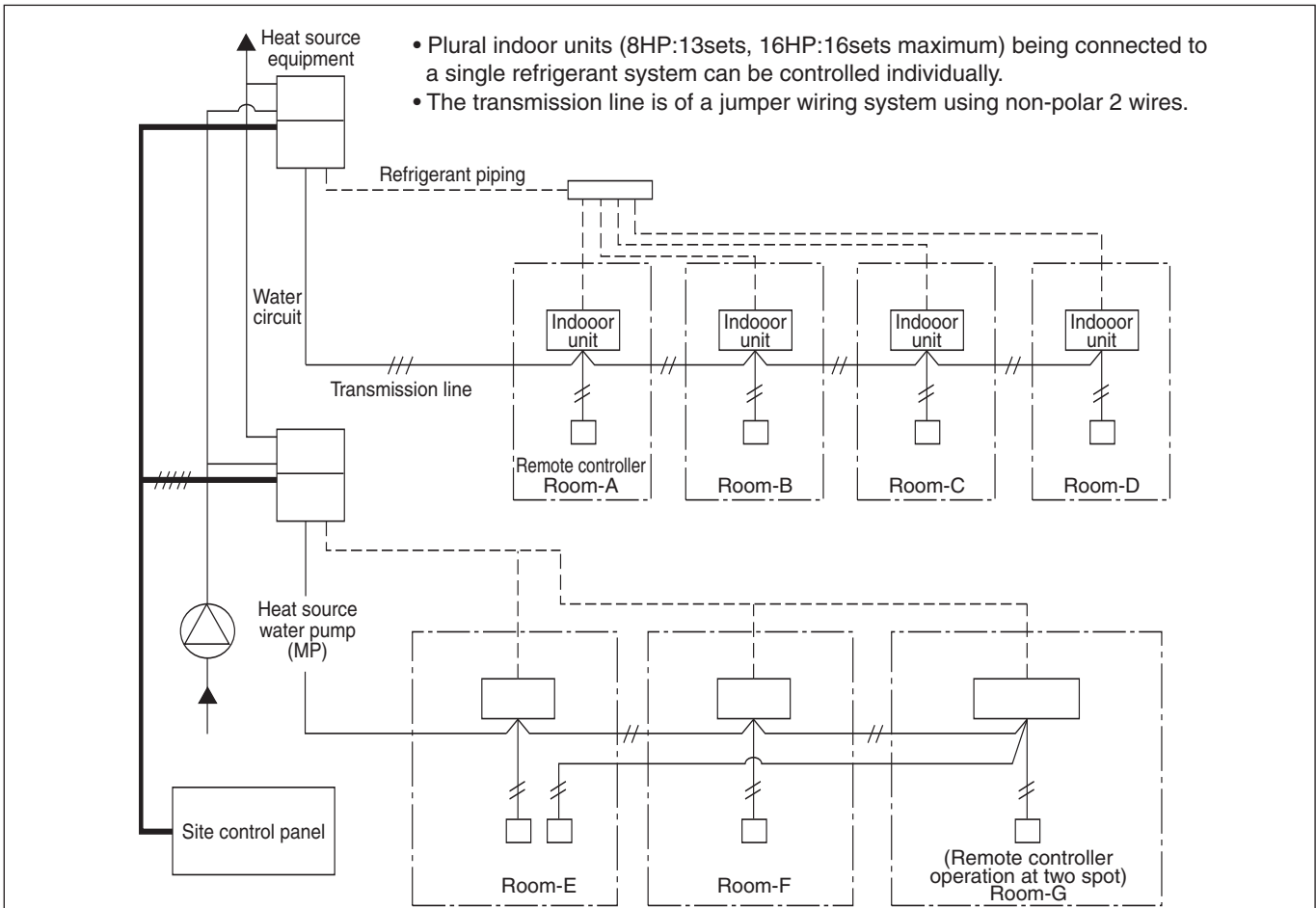


In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will close to lower the circulation water temperature. In the winter, if the circulation water temperature drops below 26°C, V2 will conduct water temperature control to keep the circulation water temperature constant.

During the stopping of the heat source water pump, the bypass port of V2 will be closed fully by interlocking.

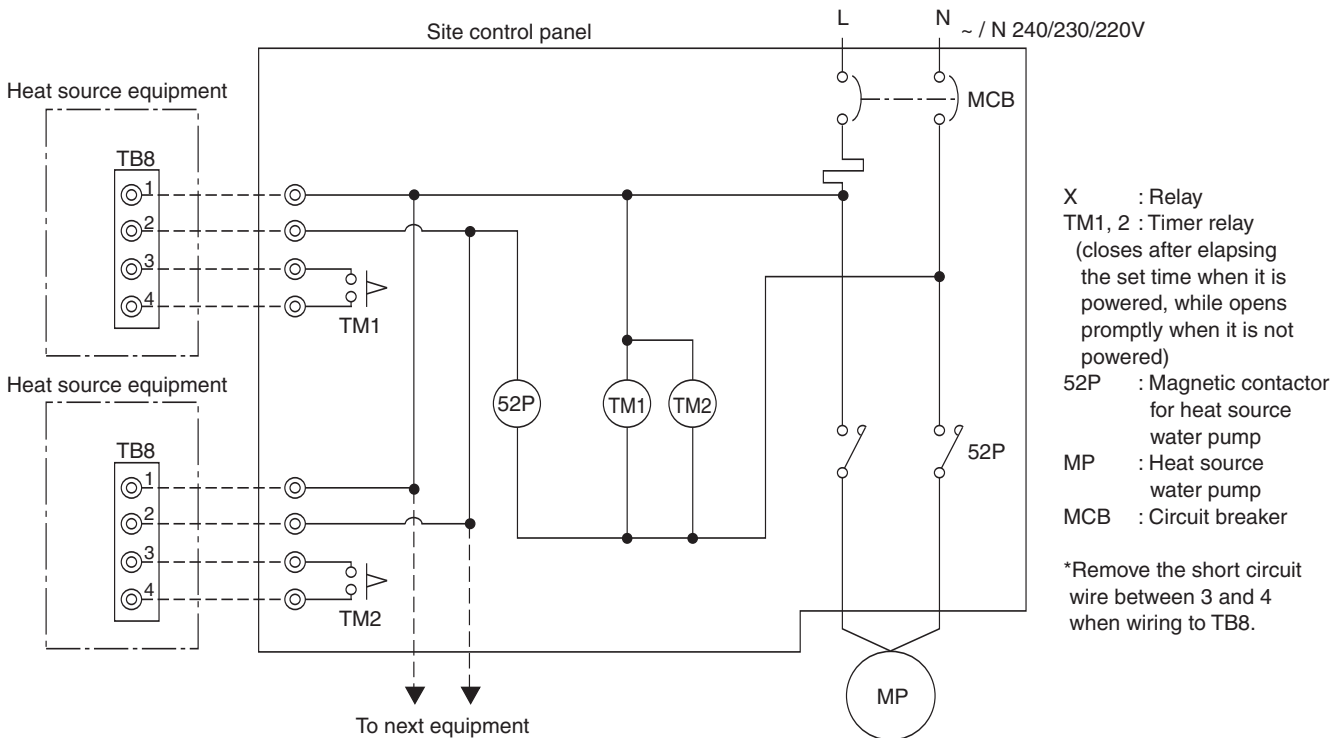
The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control following the command of the auxiliary switch XS of V1, thus controlling water temperature and saving motor power.

7) Pump interlock circuit



Wiring diagram

This circuit uses the "Terminal block for pump interlock (TB8)" inside the electrical parts box of the heat source equipment. This circuit is for interlocking of the heat source equipment operation and the heat source water pump.



Operation ON signal

| | |
|--------------|--|
| Terminal No. | TB8-1, 2 |
| Output | Relay contacts output Rated voltage : L1 - N : 220 ~ 240V Rated load : 1A |
| Operation | <ul style="list-style-type: none"> • When Dip switch 2-7 is OFF The relay closes during compressor operation. • When DIP switch 2-7 is ON. The relay closes during reception of cooling or the heating operation signal from the controller. (Note : It is output even if the thermostat is OFF (when the compressor is stopped).) |

Pump Interlock

| | |
|--------------|---|
| Terminal No. | TB8-3, 4 |
| Input | Level signal |
| Operation | If the circuit between TB8-3 and TB8-4 is open, compressor operation is prohibited. |

Y

R2

WY

WR2

S

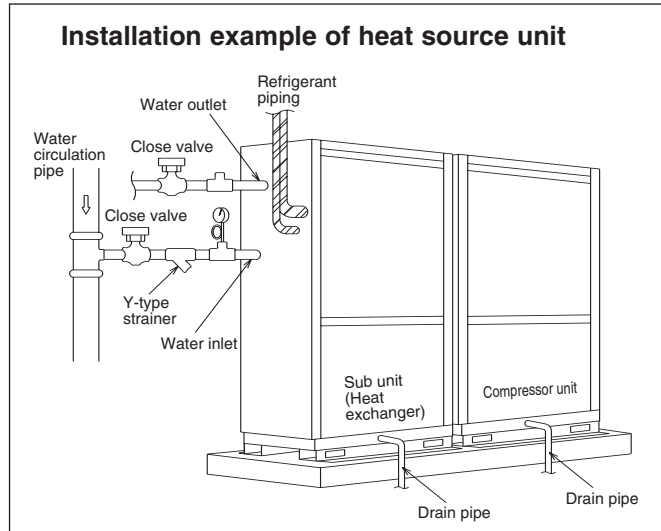
OP

7-2. WATER PIPING WORK

Although the water piping for the CITY MULTI WY system does not differ from that for ordinary air conditioning systems, pay special attention to the items below in conducting the piping work.

1) Items to be observed on installation work

- In order to equalize piping resistance for each unit, adapt the reverse return system.
- Mount a joint and a valve onto the water outlet/inlet of the unit to allow for maintenance, inspection and replacement work. Be sure to mount a strainer at the water inlet piping of the unit. (The strainer is required at the circulation water inlet to protect the heat source unit.)
- * The installation example of the heat source unit is shown right.
- Be sure to provide an air relief opening on the water piping properly, and purge air after feeding water to the piping system.
- Condensate will generate at the low temperature part inside the heat source equipment. Connect drain piping to the drain piping connection located at the bottom of the heat source equipment to discharge it outside the equipment.
- At the center of the header of the heat exchanger water inlet inside the unit, a plug for water discharge is being provided.
Use it for maintenance work or the like.
- Mount a backflow prevention valve and a flexible joint for vibration control onto the pump.
- Provide a sleeve to the penetrating parts of the wall to prevent the piping.
- Fasten the piping with metal fitting, arrange the piping not to expose to cutting or bending force, and pay sufficient care for possible vibration.
- Be careful not to erroneously judge the position of the inlet and outlet of water.
(Lower position : Inlet, Upper position : Outlet)



2) Thermal insulation work

Thermal insulation or antisweating work is not required for the piping inside buildings in the case of the CITY MULTI WY system if the operating temperature range of circulation water stays within the temperature near the normal (summer : 30°C, winter : 20°C).

In case of the conditions below, however, thermal insulation is required.

- Use of well water for heat source water
- Outdoor piping portions
- Indoor piping portions where freezing may be caused in winter
- A place where vapor condensation may be generated on piping due to an increase in dry bulb temperature inside the ceiling caused by the entry of fresh outdoor air
- Drain piping portions

3) Water treatment and water quality control

For the circulation water cooling tower of the CITY MULTI WY system, employment of the closed type is recommended to keep water quality. However, in the case that an open type cooling tower is employed or the circulating water quality is inferior, scale will adhere onto the water heat exchanger leading to the decreased heat exchange capacity or the corrosion of the heat exchanger. Be sufficiently careful for water quality control and water treatment at the installation of the circulation water system.

- Removal of impurities inside piping
Be careful not to allow impurities such as welding fragment, remaining sealing material and rust from mixing into the piping during installation work.
- Water treatment
The water quality standards have been established by the industry (Japan Refrigeration, Air Conditioning Industry Association, in case of Japan) for water treatment to be applied.

| Items | Lower mid-range temperature water system | | Tendency | |
|---|--|-----------------------------|-----------|---------------|
| | Recirculating water [20<T<60°C] | Make-up water | Corrosive | Scale-forming |
| pH (25°C) | 7.0 - 8.0 | 7.0 - 8.0 | ○ | ○ |
| Electric conductivity (mS/m) (25°C) (μs/cm) (25°C) | 30 or less [300 or less] | 30 or less [300 or less] | ○ | ○ |
| Chloride ion (mg Cl/l) | 50 or less | 50 or less | ○ | |
| Sulfate ion (mg SO ₄ ²⁻ /l) | 50 or less | 50 or less | ○ | |
| Acid consumption (pH4.8) (mg CaCO ₃ /l) | 50 or less | 50 or less | | ○ |
| Total hardness (mg CaCO ₃ /l) | 70 or less | 70 or less | | ○ |
| Calcium hardness (mg CaCO ₃ /l) | 50 or less | 50 or less | | ○ |
| Ionic silica (mg SiO ₂ /l) | 30 or less | 30 or less | | ○ |
| Iron (mg Fe/l) | 1.0 or less | 0.3 or less | ○ | ○ |
| Copper (mg Cu/l) | 1.0 or less | 0.1 or less | ○ | |
| Sulfide ion (mg S ²⁻ /l) | not to be detected | not to be detected | ○ | |
| Ammonium ion (mg NH ₄ ⁺ /l) | 0.3 or less | 0.1 or less | ○ | |
| Residual chlorine (mg Cl/l) | 0.25 or less | 0.3 or less | ○ | |
| Free carbon dioxide (mg CO ₂ /l) | 0.4 or less | 4.0 or less | ○ | |
| Ryzner stability index | - | - | ○ | ○ |

Reference : Guideline of Water Quality for Refrigeration and Air Conditioning Equipment. (JRA GL02E-1994)

In order to keep the water quality within such standards, you are kindly requested to conduct bleeding-off by overflow and periodical water quality tests, and use inhibitors to suppress condensation or corrosion. Since piping may be corroded by some kinds of inhibitor, consult an appropriate water treatment expert for proper water treatment.

(4) Pump interlock

Operating the heat source unit without circulation water inside the water piping can cause a trouble. Be sure to provide interlocking for the unit operation and water circuit. Since the terminal block is being provided inside the unit, use it as required.

Y

R2

WY

WR2

S

OP

Y

R2

WY

WR2

S

OP

**CITY MULTI™
HEAT SOURCE UNITS**

WR2 SERIES

WR2 SERIES

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3. SOUND LEVELS
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- WR2**
- S
- OP

Heat recovery: PQRV-P-Y(S)GM-A

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
| | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP | 34HP | 36HP | 38HP | 40HP | 42HP | 44HP | 46HP | 48HP | 50HP |
| WR2 Heat recovery | ● | ● | | | ● | | ● | | | | | | | | | | | | | | | |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PQRY-P200YGM-A | PQRY-P250YGM-A |
|---|----------------------|-----------------|---|-----------------------|
| Power source | | | 3-phase 4-wire 380-400-415V 50 / 60Hz | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.0 |
| | *1 | kcal / h | 19,300 | 24,100 |
| | *1 | Btu / h | 76,400 | 95,500 |
| | | Power input kW | 4.79 | 5.95 |
| | | Current input A | 8.0 - 7.6 - 7.4 | 10.0 - 9.5 - 9.1 |
| COP (kW / kW) | | | 4.68 | 4.71 |
| Temp. range of cooling | Indoor | | 15 ~ 24°C CWB (59 ~ 75°F WB) | |
| | Circulating water | | 10 ~ 45°C (50 ~ 113°F) | |
| Heating capacity (Nominal) | *2 | kW | 25.0 | 31.5 |
| | *2 | kcal / h | 21,500 | 27,100 |
| | *2 | Btu / h | 85,300 | 107,500 |
| | | Power input kW | 4.69 | 5.8 |
| | | Current input A | 7.9 - 7.5 - 7.2 | 9.7 - 9.3 - 8.9 |
| COP (kW / kW) | | | 5.33 | 5.43 |
| Temp. range of heating | Indoor | | 15 ~ 27°C CDB (59 ~ 81°F FDB) | |
| | Circulating water | | 10 ~ 45°C (50 ~ 113°F) | |
| | | | 15 ~ 45°C (59 ~ 113°F) (when total indoor unit capacity exceeds 130% of the PQRY-P-YGM) | |
| Indoor unit connectable | Total capacity | | 50 ~ 150% of Heat source unit capacity | |
| | Model / Quantity | | P20 ~ P250 / 1 ~ 15 | P20 ~ P250 / 1 ~ 19 |
| Noise level (measured in anechoic room) | | dB <A> | 46 / 46 | 47 / 47 |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø15.88 (ø5/8") Brazed | ø19.05 (ø3/4") Brazed |
| | Gas (Low press.) | mm (in.) | ø19.05 (ø3/4") Brazed | ø22.2 (ø7/8") Brazed |

| | | | | |
|---------------------------------------|--------------------------|--------------------|--|--------------------------------|
| External finish | | | Acrylic painted steel plate | |
| External dimension H x W x D | mm | | 1,800 x 990 x 550 | 1,800 x 990 x 550 |
| | in. | | 70-7/8" x 39" x 21-5/8" | 70-7/8" x 39" x 21-5/8" |
| Net weight | kg (lb) | | 263 (580) | 266 (587) |
| Heat exchanger | | | Pipe-in-pipe coil | Pipe-in-pipe coil |
| | Water volume in coil | l | 9.5 | 10.5 |
| | Water pressure Max. | MPa | 1.0 | 1.0 |
| Compressor | Type | | Inverter scroll hermetic comp. | Inverter scroll hermetic comp. |
| | Manufacturer | | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | | Inverter | |
| | Motor output | kW | 5 | 6 |
| | Case heater | kW | 0.045 x 1 (240V) | 0.045 x 1 (240V) |
| | Lubricant | | MEL32 | MEL32 |
| Circulating water | Water flow rate | m ³ / h | 4.56 | 5.76 |
| | | L / min | 76 | 96 |
| | | cfm | 2.7 | 3.4 |
| | Pressure drop | kPa | 16.5 | 19.5 |
| | Operating volume range | m ³ / h | 3.9 - 6.0 | 4.5 - 7.2 |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | |
| | Inverter circuit | | Over-current protection, Thermal protection | |
| | Compressor | | Over-current protection, Over-heat protection | |
| Refrigerant | Type x Original charge | | R410A x 7.0 kg (16 lb) | R410A x 9.5 kg (21 lb) |
| | Control | | LEV + BC | |
| Drawing | External | | OU-W663144 | |
| | Wiring | | OU-W274643 | |
| | Refrigerant circle | | RC_WYNA1-1132-13 | |
| Standard attachment | Document | | Installation Manual | |
| | Accessory | | Details refer to External Drw. YGM-CM04EU4-C_P20(W663144) | |
| Optional parts | | | Joint : CMY-Y102S-G, CMY-R160-J BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016-G Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | |
| Remark | | | a. The ambient temperature of the Heat Source Unit PQRY-P-YGM-A needs to be kept below 40°C DB. b. The ambient relative humidity of the Heat Source Unit PQRY-P-YGM-A needs to be kept below 80%. c. The Heat Source Unit PQRY-P-YGM-A should not be installed at outdoor. d. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

Note : *1 Nominal cooling conditions *2 Nominal heating conditions

| | | |
|--------------------|------------------------------------|--------------------|
| Indoor : | 27°C DB/19°C CWB (81°F DB/66°F WB) | 20°C DB (68°F FDB) |
| Water temperature: | 30°C (86°F) | 20°C (68°F) |
| Pipe length : | 7.5 m (24-9/16 ft) | 7.5 m (24-9/16 ft) |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) |

Unit converter

| | |
|--------|-------------------------------|
| kcal/h | = kW x 860 |
| Btu/h | = kW x 3,412 |
| cfm | = m ³ /min x 35.31 |
| lb | = kg / 0.4536 |

* Nominal conditions *1, *2 are subject to JIS B8615-1.

* Due to continuing improvement, above specifications may be subject to change without notice.

*Above specification data is subject to rounding variation.
Ref. : Spec_wr2_p200_250ygm

1. SPECIFICATIONS

| Model (Set name) | | PQRY-P400YSGM-A | |
|---|-------------------------------|---|--|
| Power source | | 3-phase 4-wire 380-400-415V 50 / 60Hz | |
| Cooling capacity (Nominal) | *:1 kW | 45.0 | |
| | *:1 kcal / h | 38,700 | |
| | *:1 Btu / h | 153,500 | |
| | Power input kW | 11.35 | |
| | Current input A | 19.1 - 18.2 - 17.5 | |
| COP (kW / kW) | | 3.96 | |
| Temp. range of cooling | Indoor | 15 ~ 24°CWB (59 ~ 75°FWB) | |
| | Circulating water | 10 ~ 45°C (50 ~ 113°F) | |
| Heating capacity (Nominal) | *:2 kW | 50.0 | |
| | *:2 kcal / h | 43,000 | |
| | *:2 Btu / h | 170,600 | |
| | Power input kW | 11.01 | |
| | Current input A | 18.5 - 17.6 - 17.0 | |
| COP (kW / kW) | | 4.54 | |
| Temp. range of heating | Indoor | 15 ~ 27°CDB (59 ~ 81°FDB) | |
| | Circulating water | 10 ~ 45°C (50 ~ 113°F) | |
| | | 15 ~ 45°C (59 ~ 113°F) (when total indoor unit capacity exceeds 130% of the PQRY-P-YGM) | |
| Indoor unit connectable | Total capacity | 50 ~ 150% of Heat source unit capacity | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 24 | |
| Noise level (measured in anechoic room) | dB <A> | 50 / 50 | |
| Diameter of refrigerant pipe | Liquid (High press.) mm (in.) | ø22.2 (ø7/8") Brazed | |
| | Gas (Low press.) mm (in.) | ø28.58 (ø1-1/8") Brazed | |

The Set model is a combination of Compressor unit and Sub unit as follows.

| Model (Compressor unit and Sub unit) | | PQY-P01YGM-A (Compressor unit) | | PQRY-P400YGM-A (Sub unit) | |
|---|--------------------------|---|---|---------------------------|-------------------|
| External finish | | Acrylic painted steel plate | | | |
| External dimension H x W x D | mm | 1,800 x 990 x 550 | | 1,800 x 990 x 550 | |
| | in. | 70-7/8" x 39" x 21-5/8" | | 70-7/8" x 39" x 21-5/8" | |
| Net weight | kg (lb) | 208 (459) | | 232 (512) | |
| Heat exchanger | | | - | | Pipe-in-pipe coil |
| | Water volume in coil | l | - | | 17.5 |
| | Water pressure Max. | MPa | - | | 1.0 |
| Compressor | Type | | Inverter scroll hermetic comp. | | - |
| | Manufacturer | kW | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | - |
| | Starting method | kW | Inverter | | - |
| | Motor output | | 9.7 | | - |
| | Case heater | | 0.045 x 1 (240V) | | - |
| | Lubricant | | MEL32 | | - |
| Circulating water | Water flow rate | m ³ / h | 9.12 | | |
| | | L / min | 152 | | |
| | | cfm | 5.4 | | |
| | Pressure drop | kPa | 16.5 | | |
| Operating volume range | m ³ / h | 7.8 - 12.0 | | | |
| HIC circuit (HIC: Heat Inter-Changer) | | - | | Pipe-in-pipe structure | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | |
| | Inverter circuit | | Over-current protection, Thermal protection | | |
| | Compressor | | Over-current protection, Over-heat protection | | |
| Refrigerant | Type x Original charge | | R410A x 7.0 kg (16 lb) | R410A x 9.5 kg (21 lb) | |
| | Control | | LEV and HIC circuit | | |
| Refrigerant piping diameter (between comp. & sub) | | ø9.52 (ø3/8") Flare / ø19.05 (ø3/4") Flare / ø28.58 (ø1-1/8") Brazed | | | |
| Drawing | External | | OU-W663146 | | |
| | Wiring | | OU-W274643 | | |
| | Refrigerant circle | | RC_WYNA1-1132-14 | | |
| Standard attachment | Document | | Installation Manual | | |
| | Accessory | | Details refer to External Drw. YSGM-CM04EU4-C_P21(W663 | | |
| Optional parts | | Joint : CMY-Y102S-G, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | | | |
| Remark | | <p>a. The ambient temperature of the Heat Source Unit PQRY-P-YSGM-A needs to be kept below 40°CDB.</p> <p>b. The ambient relative humidity of the Heat Source Unit PQRY-P-YSGM-A needs to be kept below 80%.</p> <p>c. The Heat Source Unit PQRY-P-YSGM-A should not be installed at outdoor.</p> <p>d. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> | | | |

Note : *:1 Nominal cooling conditions *:2 Nominal heating conditions

| | | |
|--------------------|-------------------------------|--------------------|
| Indoor : | 27°CDB/19°CWB (81°FDB/66°FWB) | 20°CDB (68°FDB) |
| Water temperature: | 30°C (86°F) | 20°C (68°F) |
| Pipe length : | 7.5 m (24-9/16 ft) | 7.5 m (24-9/16 ft) |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) |

Unit converter

kcal/h = kW x 860
 Btu/h = kW x 3,412
 cfm = m³/min x 35.31
 lb = kg / 0.4536

* Nominal conditions *:1, *:2 are subject to JIS B8615-1.
 * Due to continuing improvement, above specifications may be subject to change without notice.

*Above specification data is subject to rounding variation.
 Ref. : Spec_wr2_p400ysgm

1. SPECIFICATIONS

R410A Data G2

| Model (Set name) | | PQRY-P500YSGM-A | |
|---|-------------------------------|---|--|
| Power source | | 3-phase 4-wire 380-400-415V 50 / 60Hz | |
| Cooling capacity (Nominal) | *1 kW | 56.0 | |
| | *1 kcal / h | 48,200 | |
| | *1 Btu / h | 191,100 | |
| | Power input kW | 15.06 | |
| | Current input A | 25.4 - 24.2 - 23.3 | |
| COP (kW / kW) | | 3.72 | |
| Temp. range of cooling | Indoor | 15 ~ 24°CWB (59 ~ 75°FWB) | |
| | Circulating water | 10 ~ 45°C (50 ~ 113°F) | |
| Heating capacity (Nominal) | *2 kW | 63.0 | |
| | *2 kcal / h | 54,200 | |
| | *2 Btu / h | 215,000 | |
| | Power input kW | 13.60 | |
| | Current input A | 22.9 - 21.8 - 21.0 | |
| COP (kW / kW) | | 4.63 | |
| Temp. range of heating | Indoor | 15 ~ 27°CDB (59 ~ 81°FDB) | |
| | Circulating water | 10 ~ 45°C (50 ~ 113°F) 15 ~ 45°C (59 ~ 113°F) (when total indoor unit capacity exceeds 130% of the PQRY-P-YGM) | |
| Indoor unit connectable | Total capacity | 50 ~ 150% of Heat source unit capacity | |
| | Model / Quantity | P20 ~ P250 / 1 ~ 24 | |
| Noise level (measured in anechoic room) | dB <A> | 53 / 53 | |
| Diameter of refrigerant pipe | Liquid (High press.) mm (in.) | ø22.2 (ø7/8") Brazed | |
| | Gas (Low press.) mm (in.) | ø28.58 (ø1-1/8") Brazed | |

The Set model is a combination of Compressor unit and Sub unit as follows.

| Model (Compressor unit and Sub unit) | | PQY-P01YGM-A (Compressor unit) | | PQRY-P500YGM-A (Sub unit) | |
|---|--------------------------|--|-------|---------------------------|--|
| External finish | | Acrylic painted steel plate | | | |
| External dimension H x W x D | mm | 1,800 x 990 x 550 | | 1,800 x 990 x 550 | |
| | in. | 70-7/8" x 39" x 21-5/8" | | 70-7/8" x 39" x 21-5/8" | |
| Net weight | kg (lb) | 208 (459) | | 236 (521) | |
| Heat exchanger | | - | | Pipe-in-pipe coil | |
| | Water volume in coil l | - | | 19.5 | |
| | Water pressure Max. MPa | - | | 1.0 | |
| Compressor | Type | Inverter scroll hermetic comp. | | - | |
| | Manufacturer kW | AC&R Works, MITSUBISHI ELECTRIC CORPORATION | | - | |
| | Starting method kW | Inverter | | - | |
| | Motor output | 9.7 | | - | |
| | Case heater | 0.045 x 1 (240V) | | - | |
| | Lubricant | MEL32 | | - | |
| Circulating water | Water flow rate | m ³ / h | 11.52 | | |
| | | L / min | 192 | | |
| | | cfm | 6.8 | | |
| | Pressure drop kPa | 19.5 | | | |
| Operating volume range | m ³ / h | 9.0 - 14.4 | | | |
| HIC circuit (HIC: Heat Inter-Changer) | | - | | Pipe-in-pipe structure | |
| Protection | High pressure protection | High pressure sensor, High pressure switch 4.15 MPa (601 psi) | | | |
| | Inverter circuit | Over-current protection, Thermal protection | | | |
| | Compressor | Over-current protection, Over-heat protection | | | |
| Refrigerant | Type x Original charge | R410A x 7.0 kg (16 lb) | | R410A x 9.5 kg (21 lb) | |
| | Control | LEV and HIC circuit | | | |
| Refrigerant piping diameter (between comp. & sub) | | ø9.52 (ø3/8") Flare / ø19.05 (ø3/4") Flare / ø28.58 (ø1-1/8")?Braze | | | |
| Drawing | External | OU-W663146 | | | |
| | Wiring | OU-W274643 | | | |
| | Refrigerant circle | RC_WYNA1-1132-14 | | | |
| Standard attachment | Document | Installation Manual | | | |
| | Accessory | Details refer to External Drw. YSGM-CM04EU4-C_P21(W663 | | | |
| Optional parts | | Joint : CMY-Y102S-G, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016-GA Sub BC controller: CMP-P104, 108V-GB | | | |
| Remark | | a. The ambient temperature of the Heat Source Unit PQRY-P-YSGM-A needs to be kept below 40°CDB. b. The ambient relative humidity of the Heat Source Unit PQRY-P-YSGM-A needs to be kept below 80%. c. The Heat Source Unit PQRY-P-YSGM-A should not be installed at outdoor. d. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal heating conditions | Unit converter |
|--|--|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Water temperature : 30°C (86°F) | 20°C (68°F) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:2 are subject to JIS B8615-1. | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | |

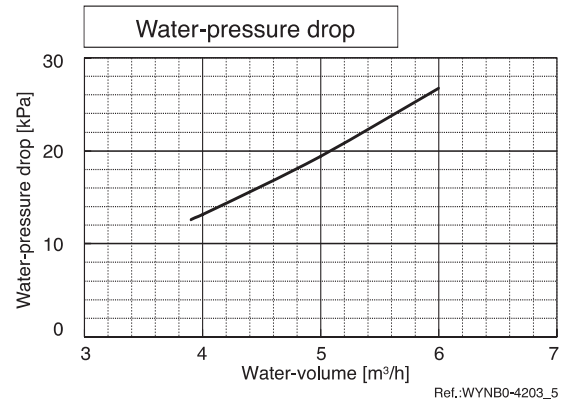
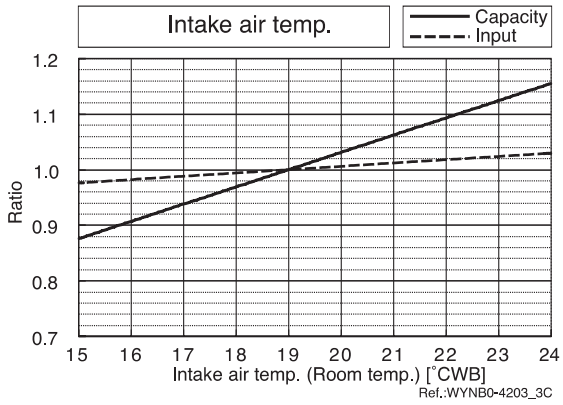
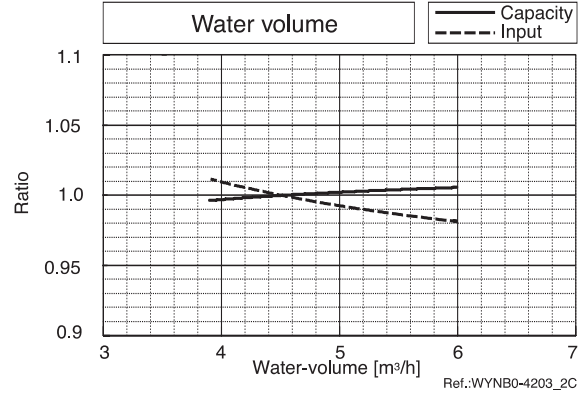
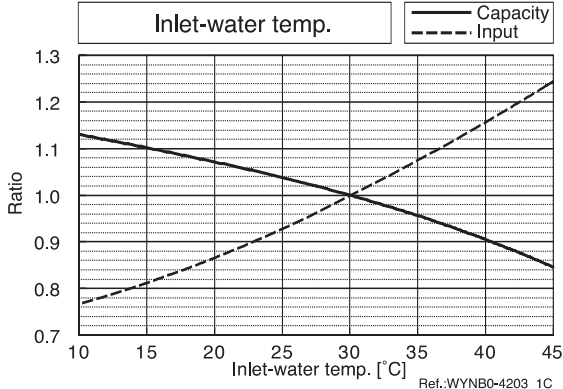
Ref. : Spec_wr2_p500ysgm

2. CAPACITY TABLES

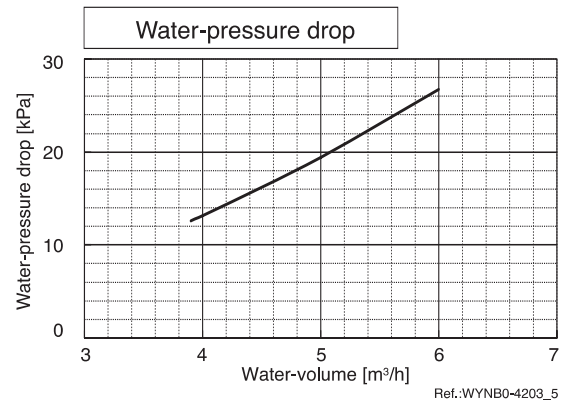
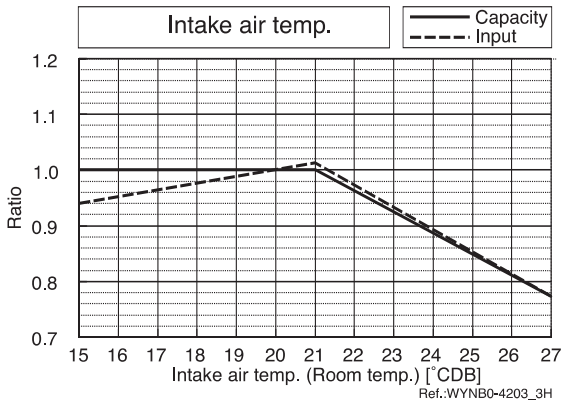
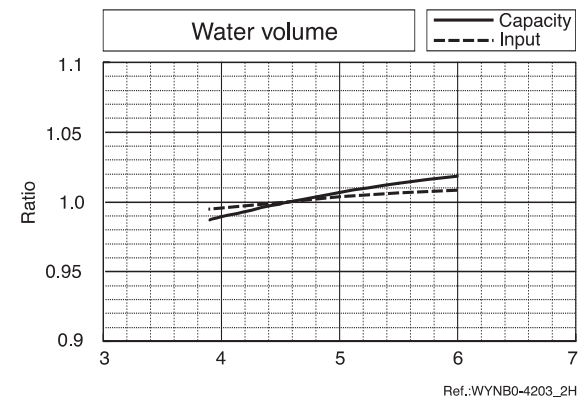
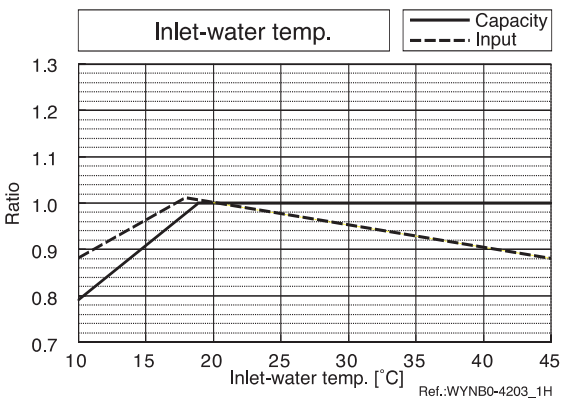
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQRY- | | P200YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 22.4 |
| | kcal/h | 19,300 |
| | Btu/h | 76,400 |
| Input | kW | 4.79 |



| PQRY- | | P200YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 25.0 |
| | kcal/h | 21,500 |
| | Btu/h | 85,300 |
| Input | kW | 4.69 |

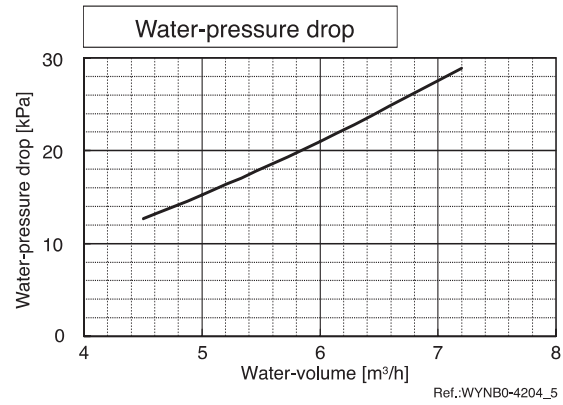
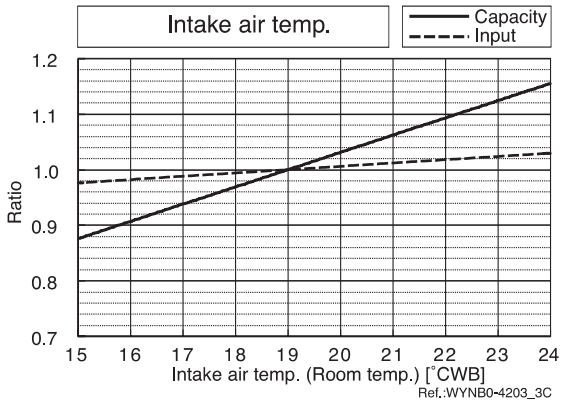
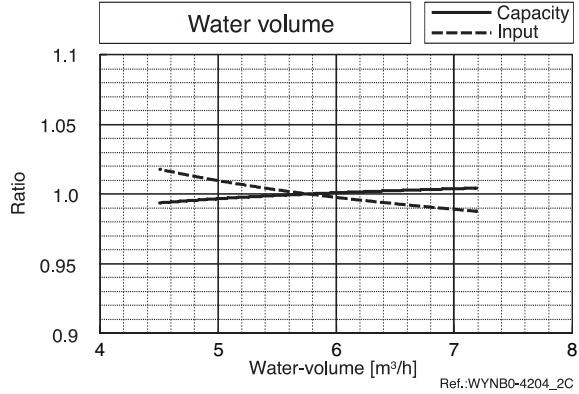
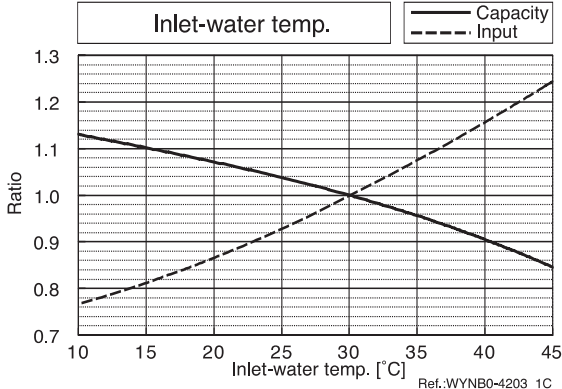


2. CAPACITY TABLES

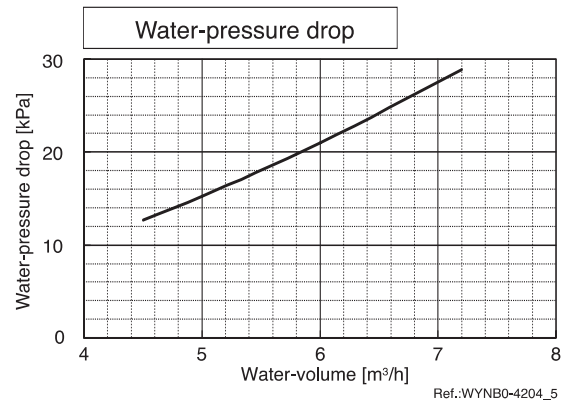
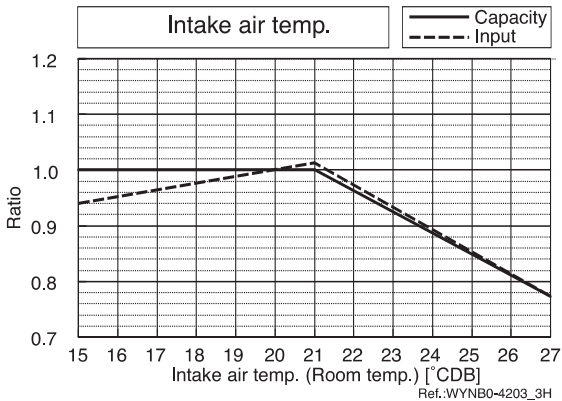
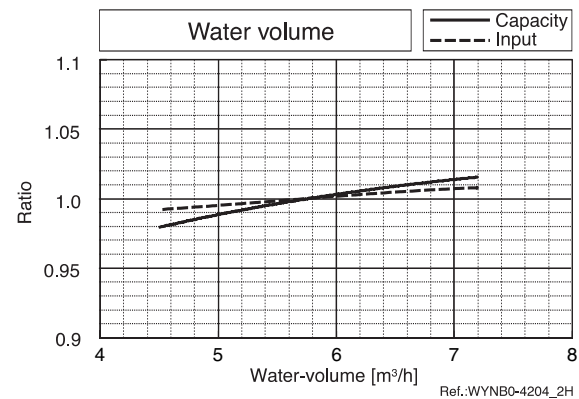
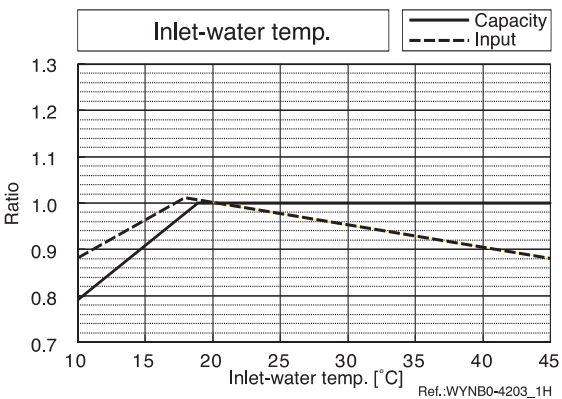
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQRY- | | P250YGM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 28.0 |
| | kcal/h | 24,100 |
| | Btu/h | 95,500 |
| Input | kW | 5.95 |



| PQRY- | | P250YGM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 31.5 |
| | kcal/h | 27,100 |
| | Btu/h | 107,500 |
| Input | kW | 5.8 |

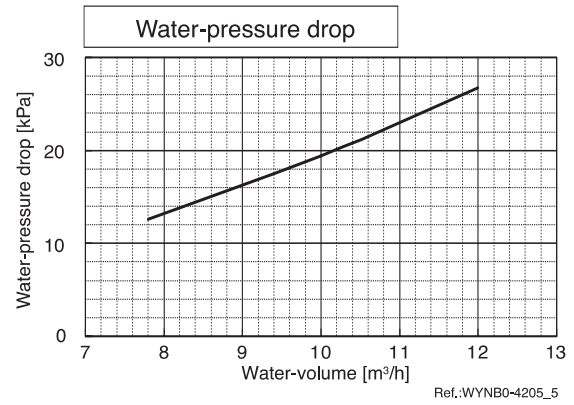
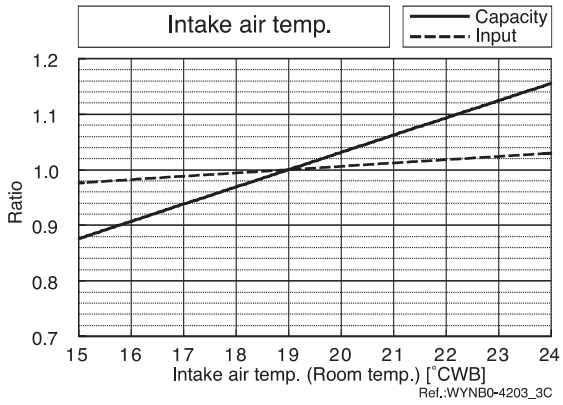
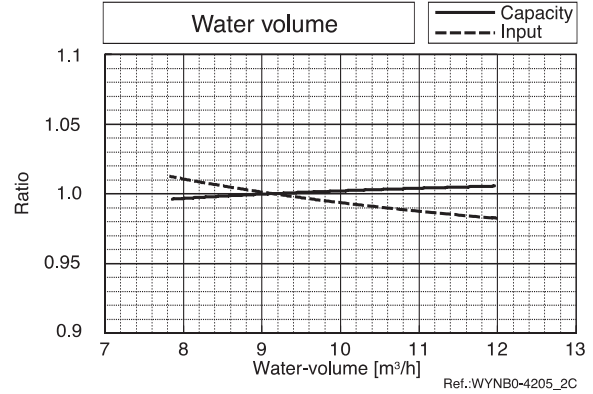
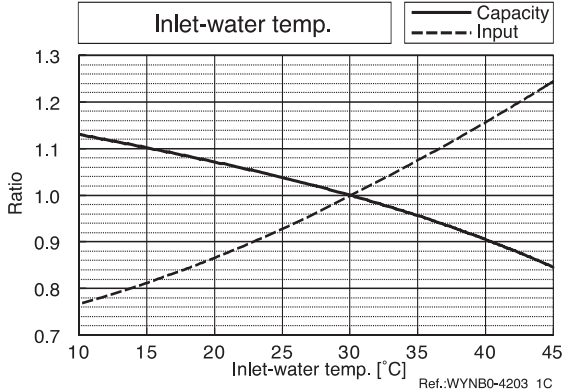


2. CAPACITY TABLES

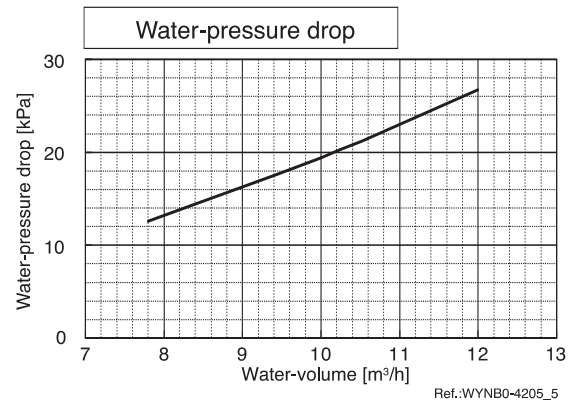
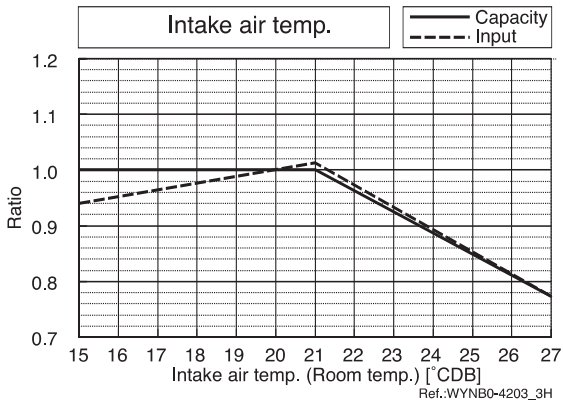
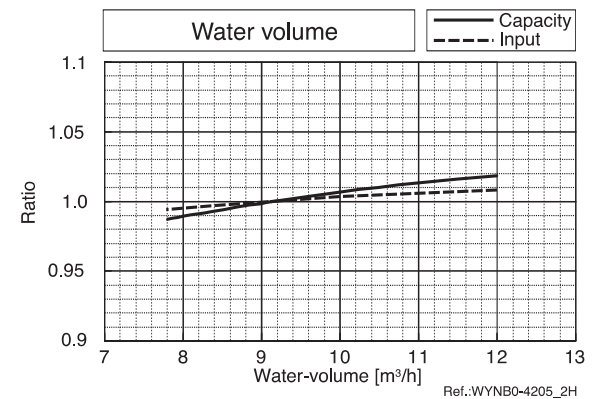
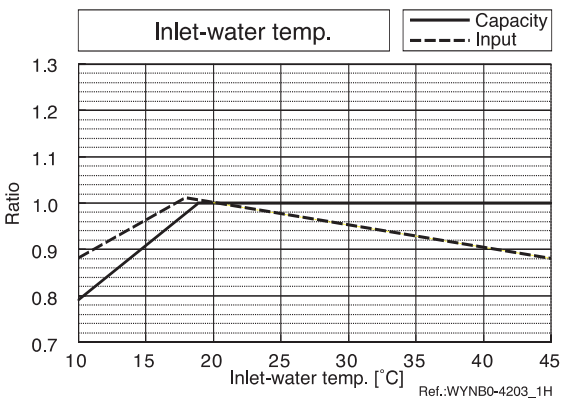
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQRV- | | P400YSGM |
|--------------------------|--------|----------|
| Nominal Cooling Capacity | kW | 45.0 |
| | kcal/h | 38,700 |
| | Btu/h | 153,500 |
| Input | kW | 11.35 |



| PQRV- | | P400YSGM |
|--------------------------|--------|----------|
| Nominal Heating Capacity | kW | 50.0 |
| | kcal/h | 43,000 |
| | Btu/h | 170,600 |
| Input | kW | 11.01 |

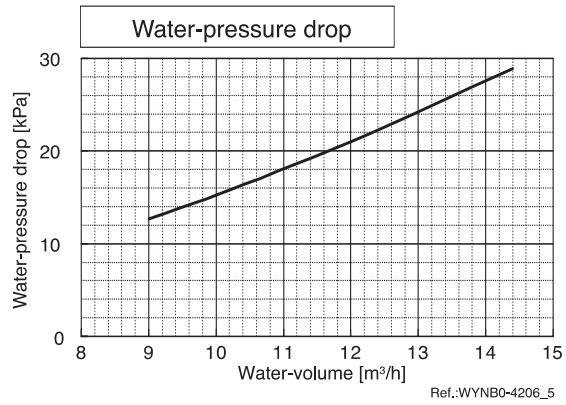
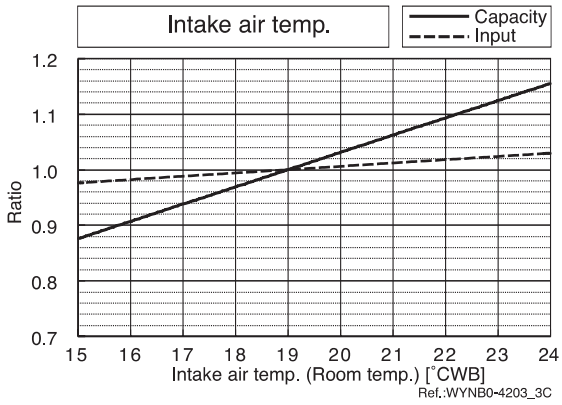
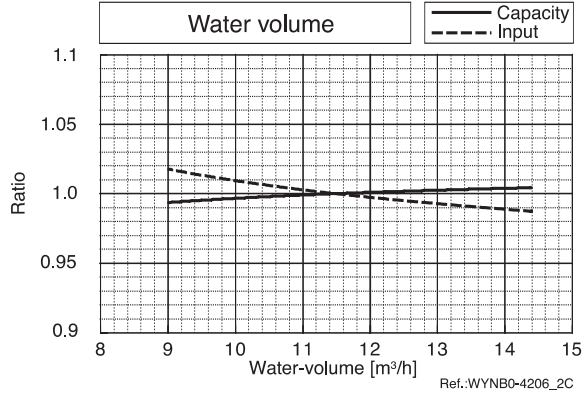
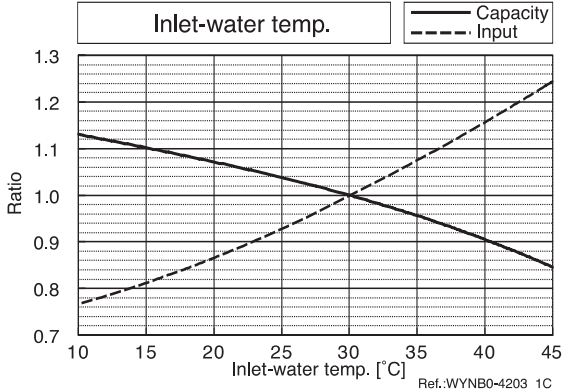


2. CAPACITY TABLES

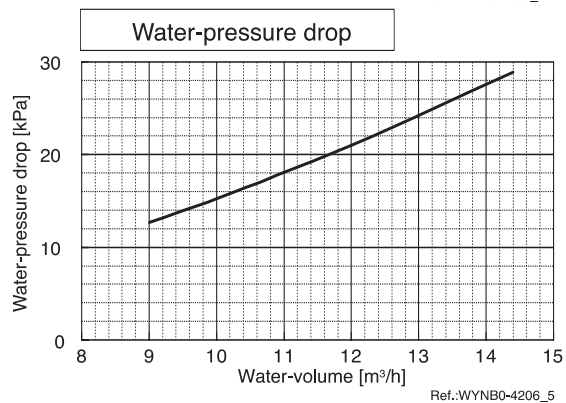
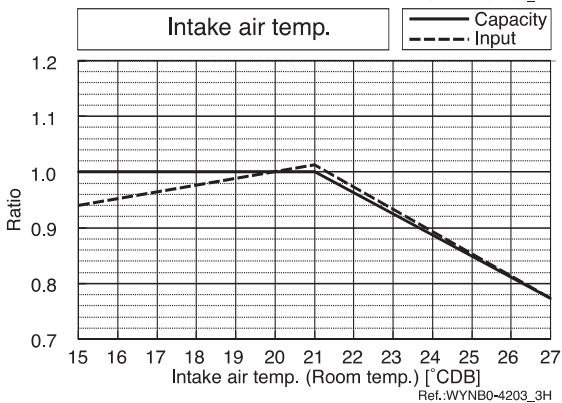
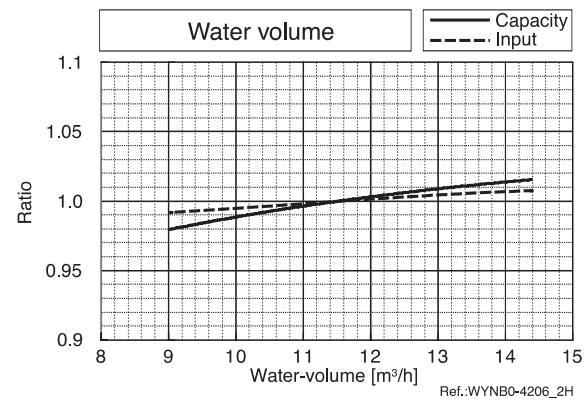
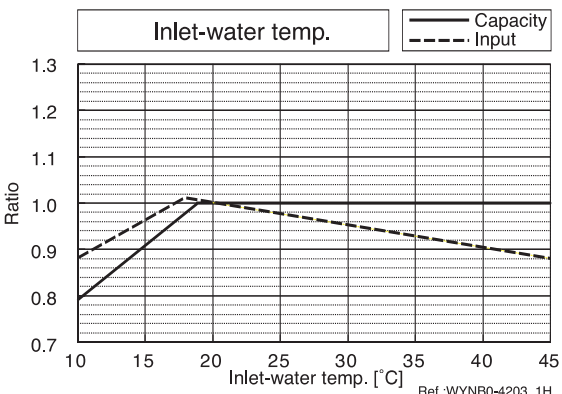
2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

| PQRY- | | P500YSGM |
|--------------------------|--------|----------|
| Nominal Cooling Capacity | kW | 56.0 |
| | kcal/h | 48,200 |
| | Btu/h | 191,100 |
| Input | kW | 15.06 |



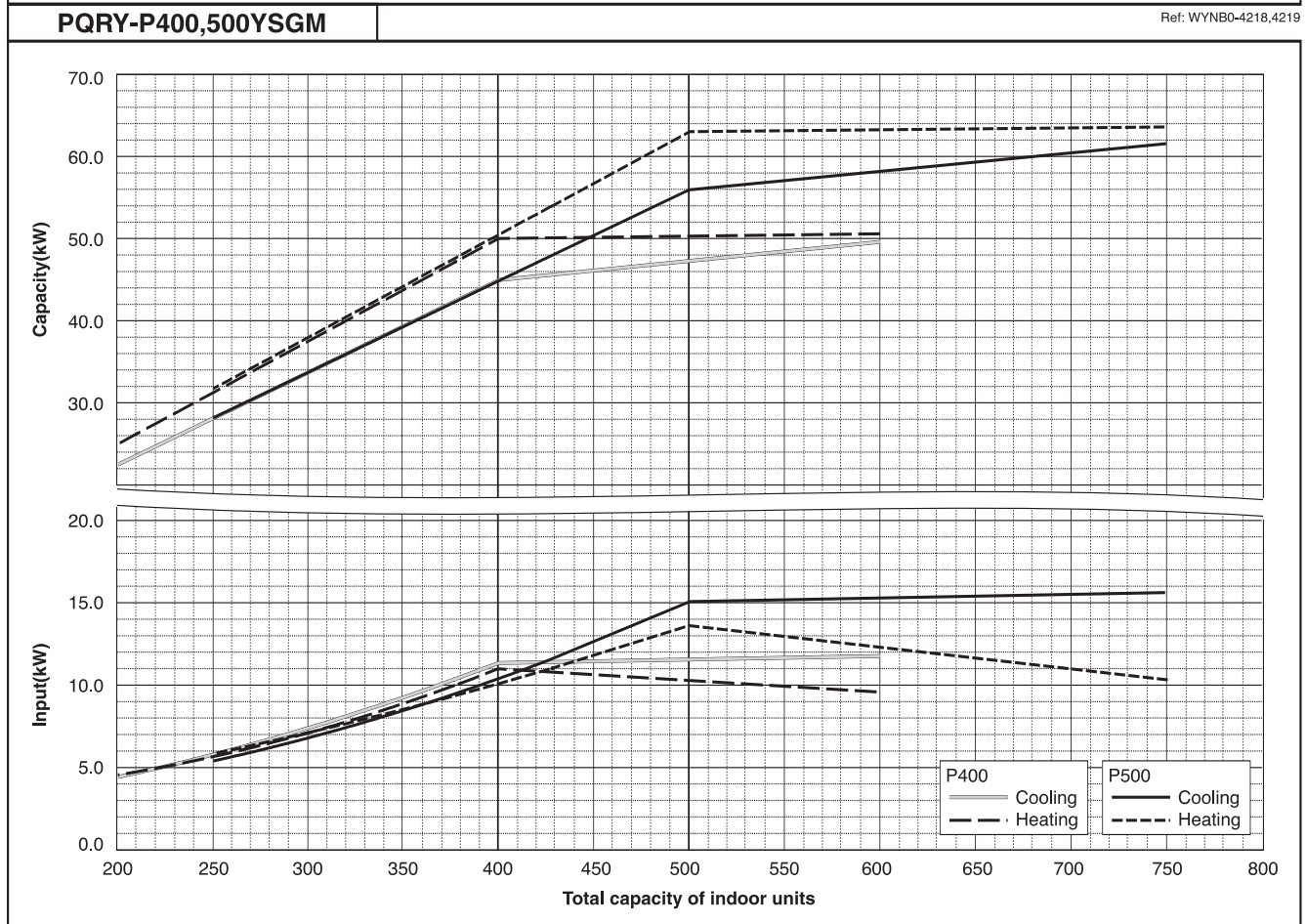
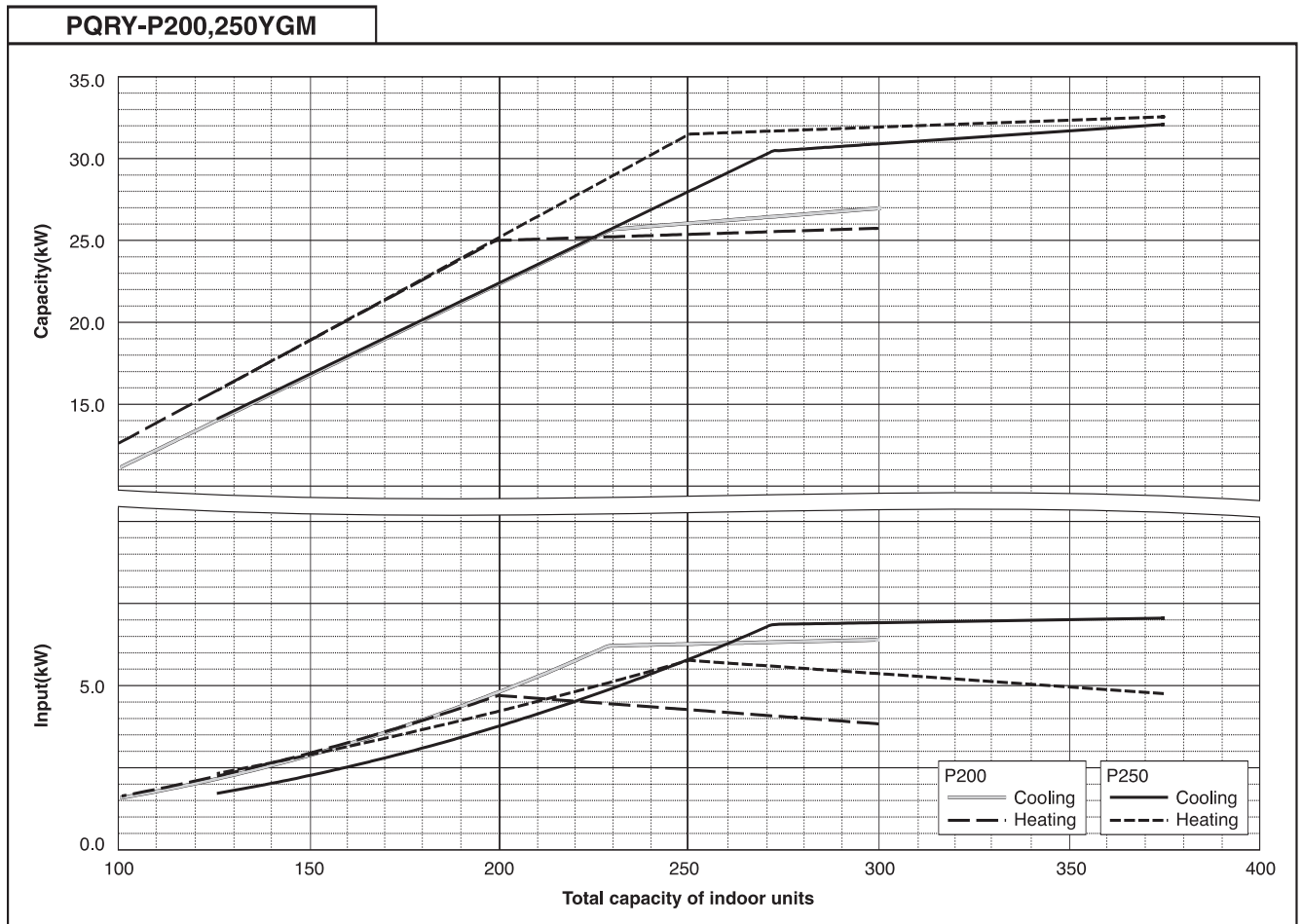
| PQRY- | | P500YSGM |
|--------------------------|--------|----------|
| Nominal Heating Capacity | kW | 63.0 |
| | kcal/h | 54,200 |
| | Btu/h | 215,000 |
| Input | kW | 13.60 |



2. CAPACITY TABLES

2-2. Correction by total indoor

CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.

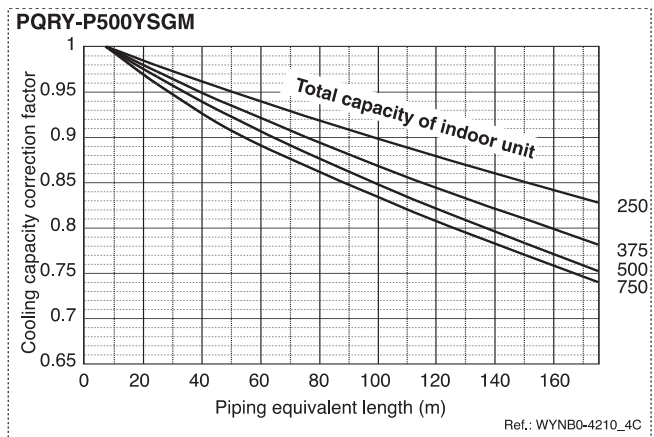
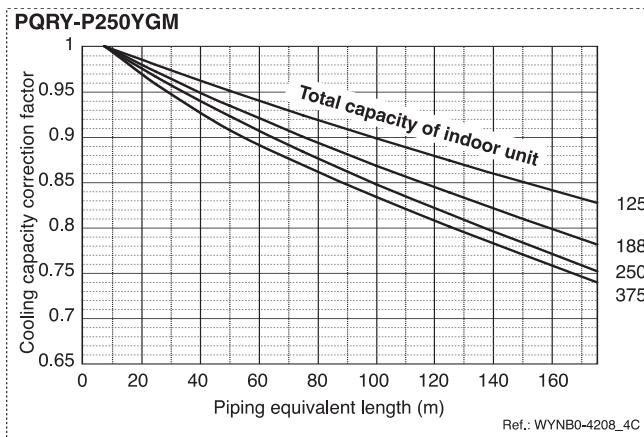
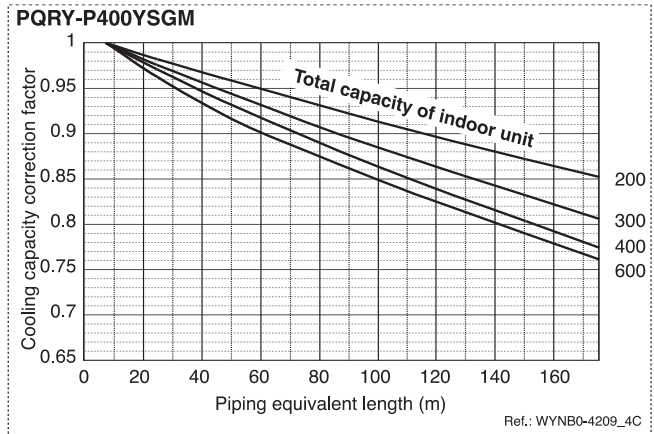
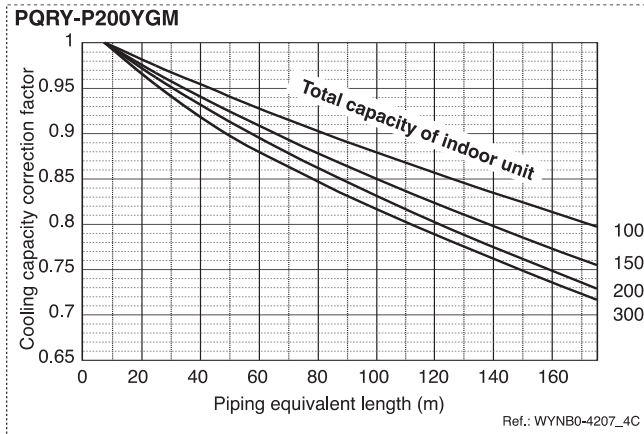


Ref: WYNB0-4220,4221

2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

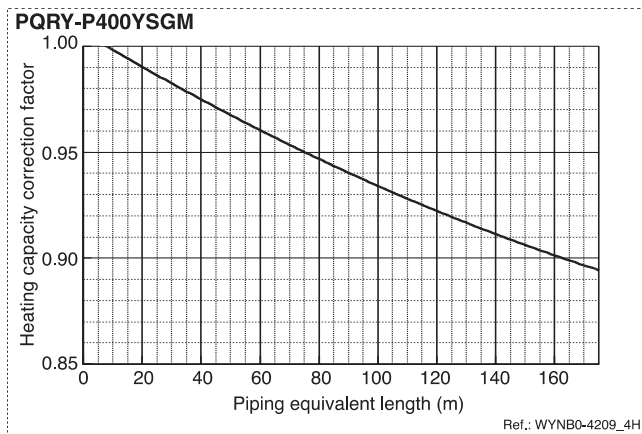
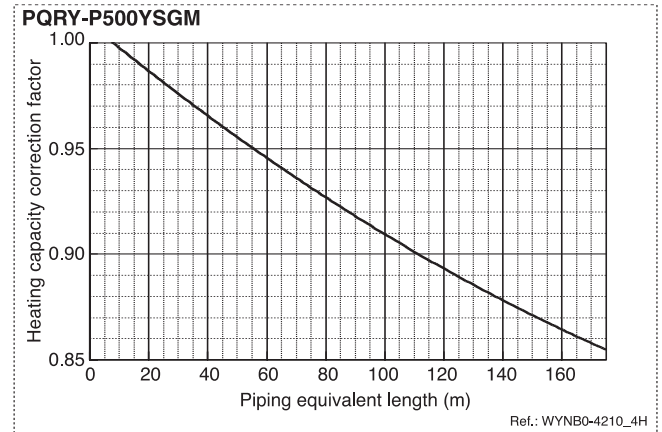
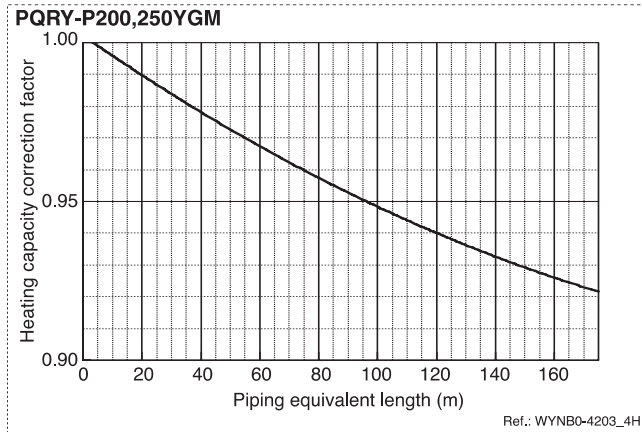
2-3a. Cooling capacity correction



2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

2-3b. Heating capacity correction



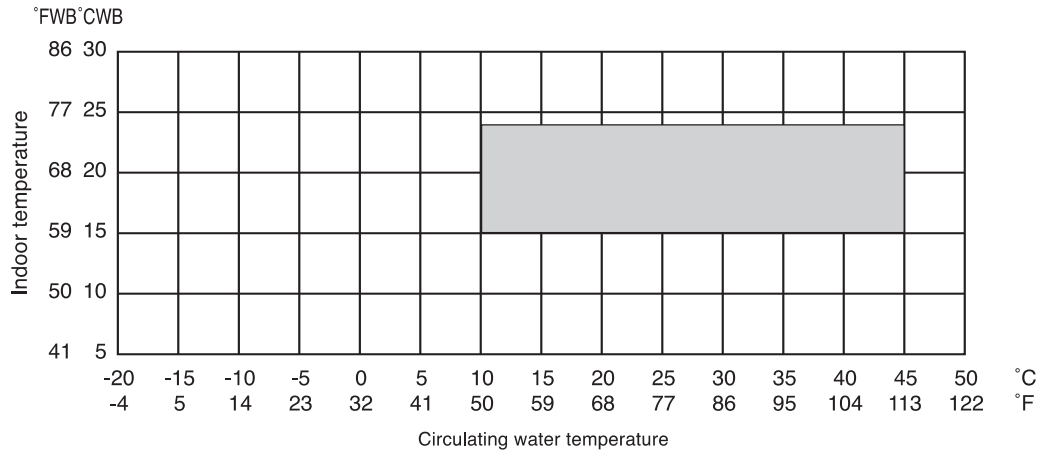
2-3c. How to obtain the equivalent length of piping

- 1 **PQHY, PQRY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 2 **PQHY, PQRY-P250YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m
- 3 **PQHY, PQRY-P400YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m
- 4 **PQHY, PQRY-P500YSGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

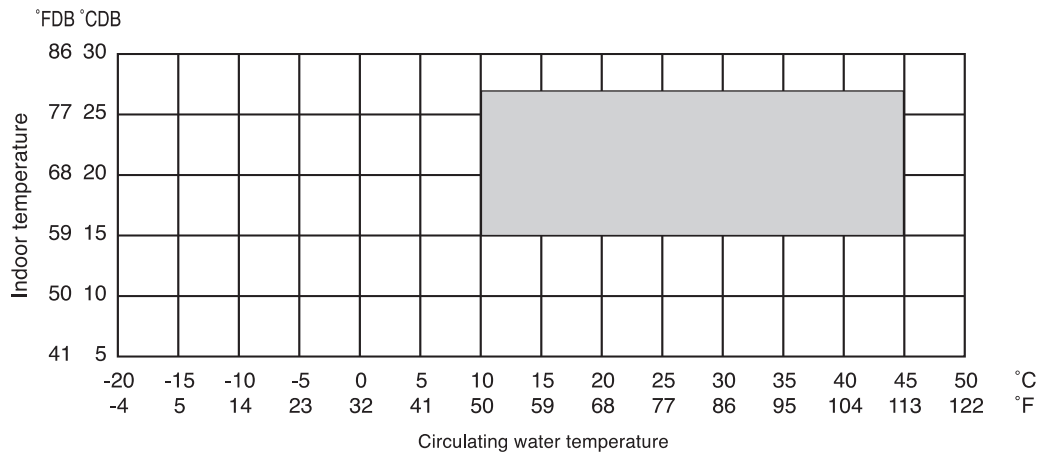
2. CAPACITY TABLES

2-4. Temp. range of running

• Cooling

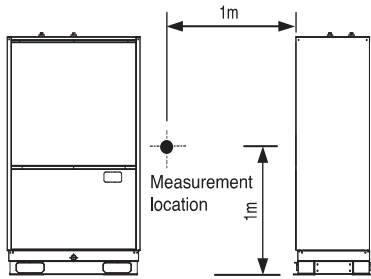


• Heating

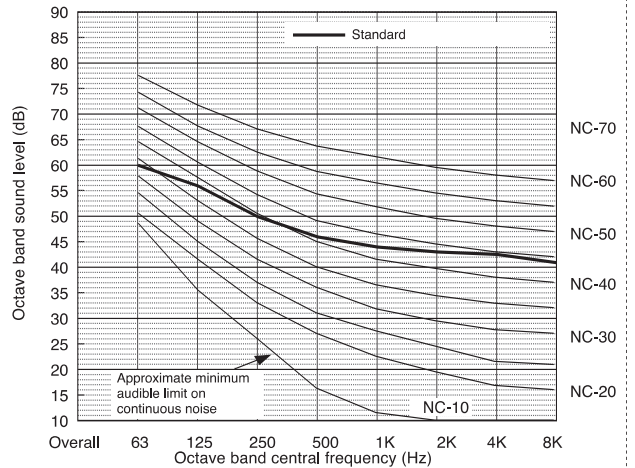


Ref.: tr-ygm-w

Measurement condition
PQRY-P200,250YGM
PQRY-P400,500YSGM



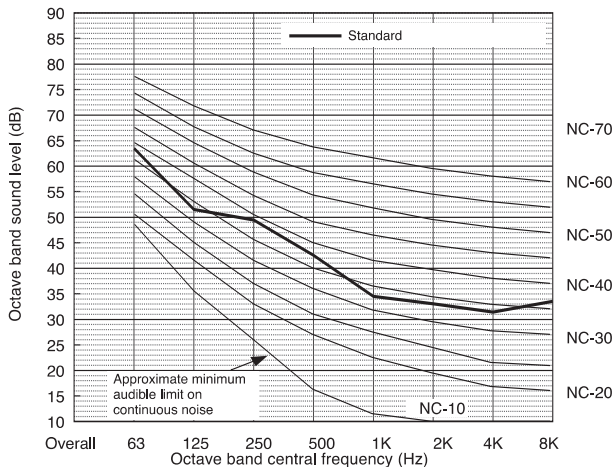
Sound level of PQRY-P400YSGM-A Ref. : PQRY-P400YSGM-WYNB0-5119



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 60.0 | 56.0 | 50.0 | 46.0 | 44.0 | 43.0 | 42.5 | 41.0 | 51.0 |
| | 60Hz | 60.0 | 56.0 | 50.0 | 46.0 | 44.0 | 43.0 | 42.5 | 41.0 | 51.0 |
| Night mode | 50/60Hz | - | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

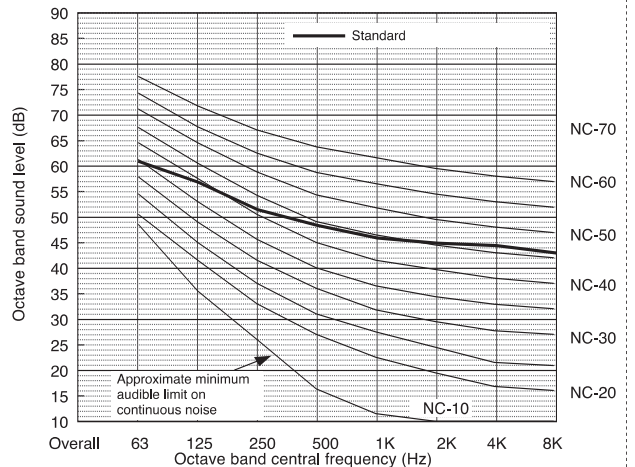
Sound level of PQRY-P200YGM-A Ref. : PQRY-P200YGM-WYNB0-5115



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 63.5 | 51.5 | 49.5 | 42.5 | 34.5 | 33.0 | 31.5 | 33.5 | 46.0 |
| | 60Hz | 63.5 | 51.5 | 49.5 | 42.5 | 34.5 | 33.0 | 31.5 | 33.5 | |
| Night mode | 50/60Hz | 46.0 | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

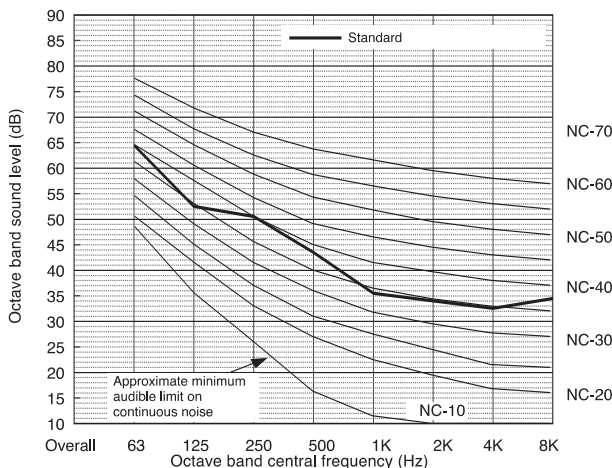
Sound level of PQRY-P500YSGM-A Ref. : PQRY-P500YSGM-WYNB0-5120



| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 61.0 | 57.0 | 51.5 | 48.5 | 46.0 | 45.0 | 44.5 | 43.0 | 53.0 |
| | 60Hz | 61.0 | 57.0 | 51.5 | 48.5 | 46.0 | 45.0 | 44.5 | 43.0 | 53.0 |
| Night mode | 50/60Hz | - | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PQRY-P250YGM-A Ref. : PQRY-P250YGM-WYNB0-5116

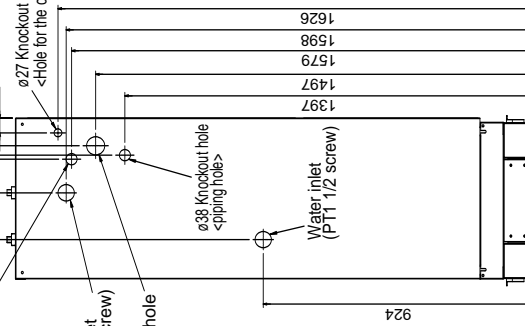
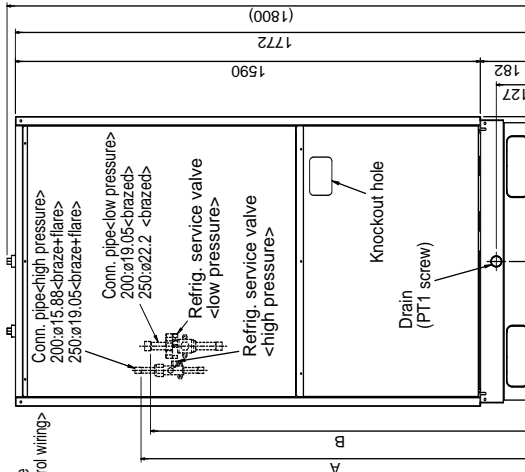
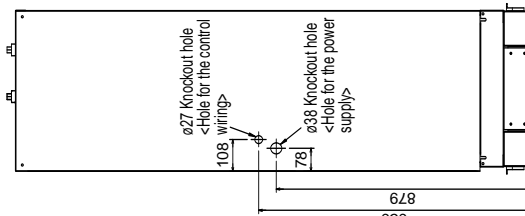
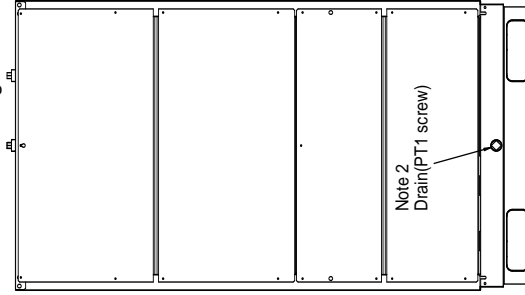
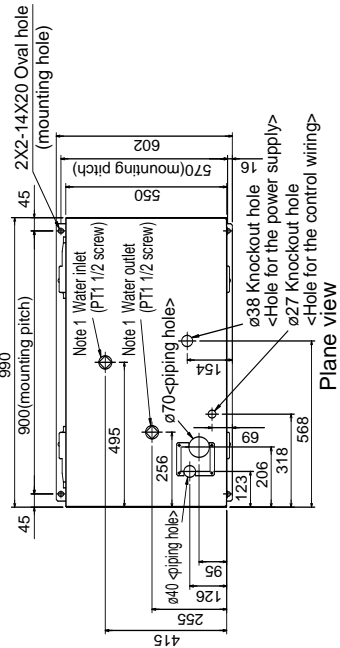
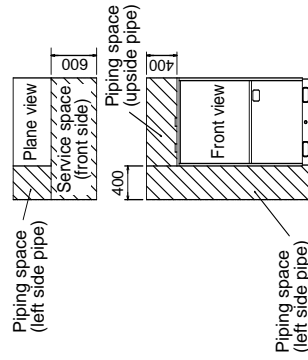


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 64.5 | 52.5 | 50.5 | 43.5 | 35.5 | 34.0 | 32.5 | 34.5 | 47.0 |
| | 60Hz | 64.5 | 52.5 | 50.5 | 43.5 | 35.5 | 34.0 | 32.5 | 34.5 | |
| Night mode | 50/60Hz | 47.0 | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

PQR-Y-P200,250YGM-A

Draw. : OU-W663144
Unit : mm



| Model | A | B |
|-------|------|------|
| P200 | 1347 | 1309 |
| P250 | 1342 | 1319 |

- [Accessories]
- Refrigerant (low pressure) conn. pipe..... 1pc.
(Already installed on the unit)
 - Refrigerant (high pressure) conn. pipe..... 1pc.
(Packaged in the accessory kit)
 - Packing for conn. pipe..... 1pc.
(Attached near the ball valve)
 - Bushing..... 2pcs.

Note 1. Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc. so as not to infiltrate rain water etc. (field erection work).

2. At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.

3. Take notice of service space as Fig. A. (In case of single installation, 600mm or more of back space as front space makes easier access when servicing the unit from rear side.)

4. In case the temperature around the Heat source unit has possibility to drop under 0°C, be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
-Circulate the water all the time even if the Heat source unit is not in operation.
-Drain the water from inside of the Heat source unit when the Heat source unit will not operate for a long term.

PQRY-P400,500YSGM-A

Draw. : OU-W663146
Unit : mm

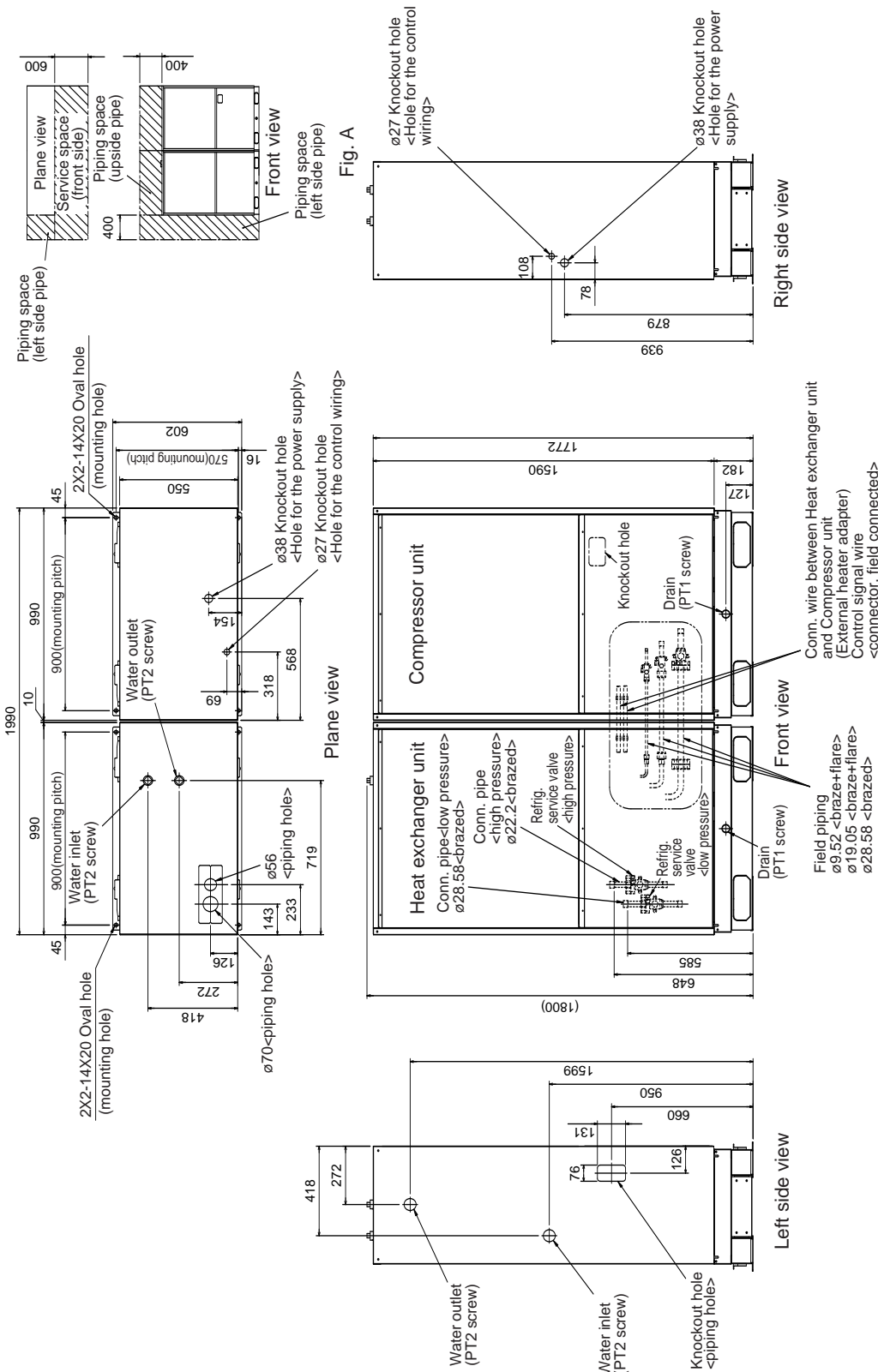


Fig. A

- Note 1. Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knock-out holes with the putty etc. so as not to infiltrate rain water etc. (field erection work).
2. At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.
3. Take notice of service space as Fig. A. (In case of single installation, 600mm or more of back space as front space makes easier access when servicing the unit from rear side.)
4. In case the temperature around the Heat source unit has possibility to drop under 0°C, be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
 - Circulate the water all the time even if the Heat source unit is not in operation.
 - Drain the water from inside of the Heat source unit when the Heat source unit will not operate for a long term
5. Use the external heater adapter for water Heat source (option) to take length (more than 2m) between Heat exchanger unit and Compressor unit.

[Accessories]

| | |
|---|-------------|
| • Refrigerant conn. pipe (Already installed on the unit) | 2pcs. |
| • Refrigerant conn. pipe between Heat exchanger unit and Compressor unit | 2pcs. |
| • ø9.52 <braze+flare> | 2pcs. |
| • ø19.05 <braze+flare> | 2pcs. |
| • ø28.58 <braze+flare> | 2pcs. |
| • ø28.58 <braze+flare> | 4pcs. |
| • Packing for conn. pipe (Attached near the ball valve) | 2pcs. |
| • Bushing | 1set |
| • External heater adapter | 1set |

PQRY-P200,250YGM-A,P400,500YSGM-A

Drw. : OU-W274643

<Symbol explanation>

| Symbol | Name |
|------------|--|
| ACCT | AC Current Sensor |
| DCCT | DC Current Sensor |
| DCL | DC reactor (Power factor improvement) |
| 52C | Magnetic contactor (Inverter main circuit) |
| MF1 | Fan motor (Radiator panel) |
| CH11 | Case heater (Compressor) |
| 21S4a | 4-way valve |
| SV1 | Solenoid valve (Discharge-suction bypass) |
| SV4a,b,c,d | Solenoid valve (Heat exchanger capacity control) |
| SV5a,b | Solenoid valve (Heat exchanger capacity control) |
| SV7a,b,c | Solenoid valve (Heat exchanger capacity control) |
| LEV1 | Electronic expansion valve (Sub-cool coil bypass) |
| LEV2 | Electronic expansion valve (Heat exchanger for inverter) |
| TH11 | Thermistor (Discharge pipe temp. detect) |
| TH5 | Pipe temp.detect |
| TH6 | Water temp.detect |
| TH7 | Liquid outlet temp.detect at sub-cool |
| TH8 | Bypass outlet temp.detect at sub-cool |
| TH9 | Freeze prevention sensor |
| TH10 | Outlet temp.detect of heat exchanger for inverter |
| TH11 | Radiator panel temp. detect |
| 63H | High pressure switch |
| 63HS | High pressure sensor |
| 63LS | Low pressure sensor |
| L1,L2 | Choke coil (Transmission) |
| Z20 | Function device |
| ⊕ | Earth terminal |

<Difference of appearance>

| Model name | #2 | #3 |
|----------------------|----|----|
| PQRY-P200/P250YGM-A | X | X |
| PQRY-P400/P500YSGM-A | ○ | ○ |
| POHY-P200/P250YGM-A | X | ○ |
| POHY-P400/P500YSGM-A | ○ | ○ |

*1: Function according to switch operation.
 (SW4-7:CN3D 1-2P and CN3D 1-3P,
 SW5-3:CN51 3-5P)
 SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

| CN3D | Compressor | CN3D | NIGHT |
|-------|------------|-------|-------|
| 1-3P | ON/OFF | 1-2P | MODE |
| ON | ON | OPEN | OFF |
| SHORT | OFF | SHORT | ON |

| SW4-7:ON (STEP DEMAND) | | |
|------------------------|------|-------|
| CN3D 1-3P | OPEN | SHORT |
| CN3D 1-3P | OPEN | 75% |
| SHORT | 0% | 50% |

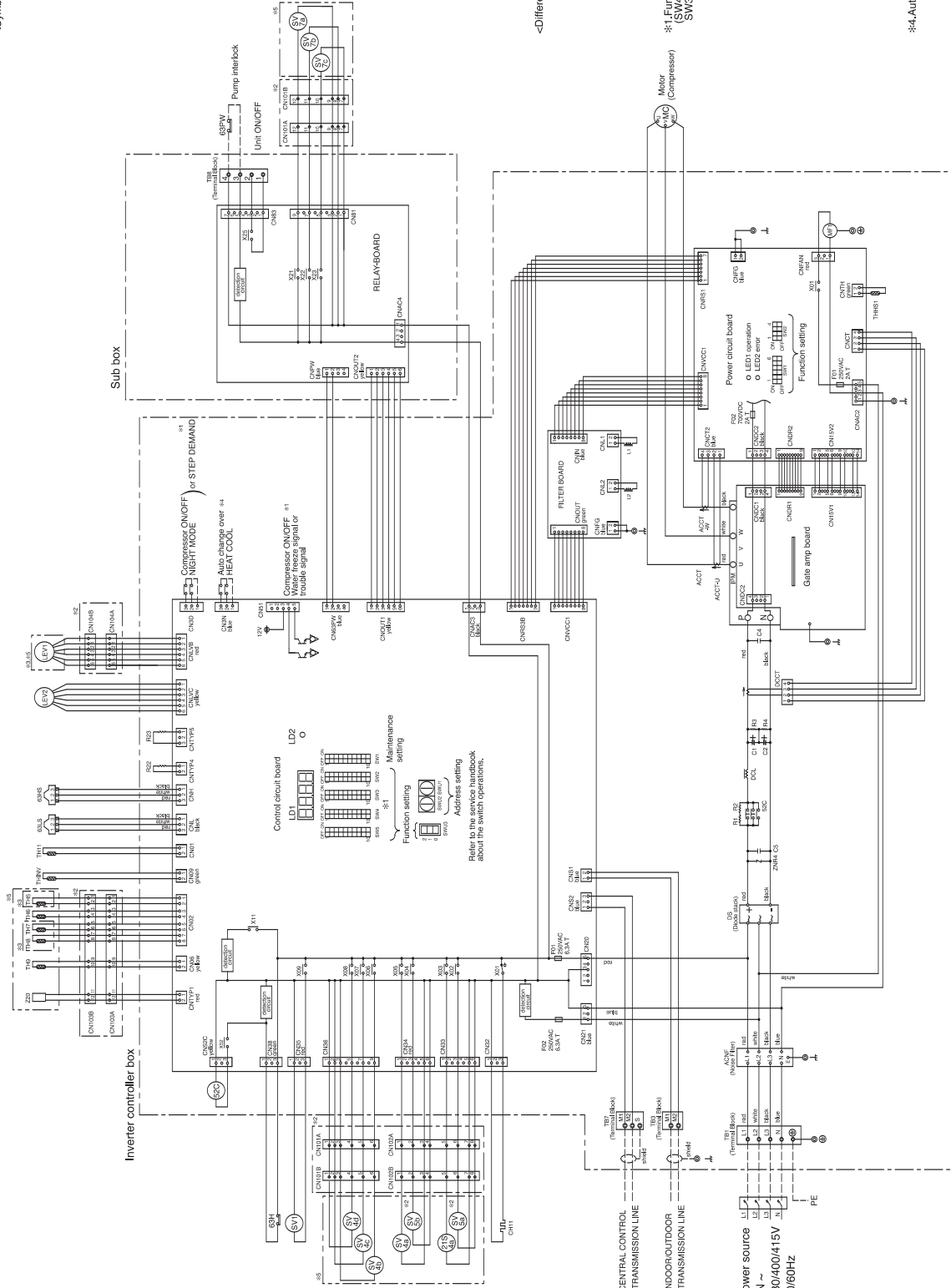
| SW5-3 | |
|-----------|---------------------|
| CN51 3-5P | water freeze signal |
| ON | water freeze signal |
| OFF | trouble signal |

*4: Auto change over (CN3N 1-2P, 1-3P):POHY only

| CN3N 1-3P | |
|-----------|----------------------|
| CN3N 1-3P | OPEN |
| OPEN | Auto change over/OFF |
| SHORT | Auto change over/ON |

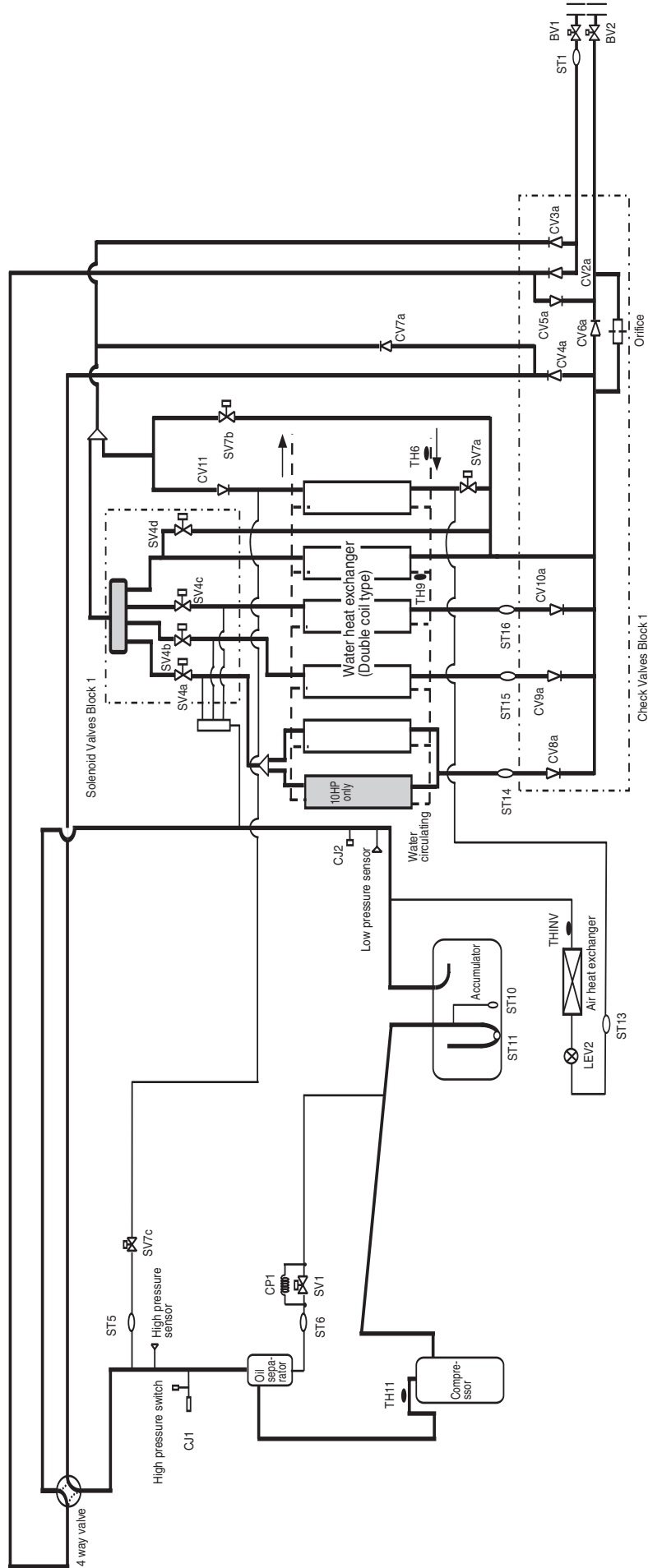
*5: " is on the Heat exchanger unit side for P400/500 type.

NOTE: The broken lines indicate field wiring.



PQRY-P200,250YGM-A

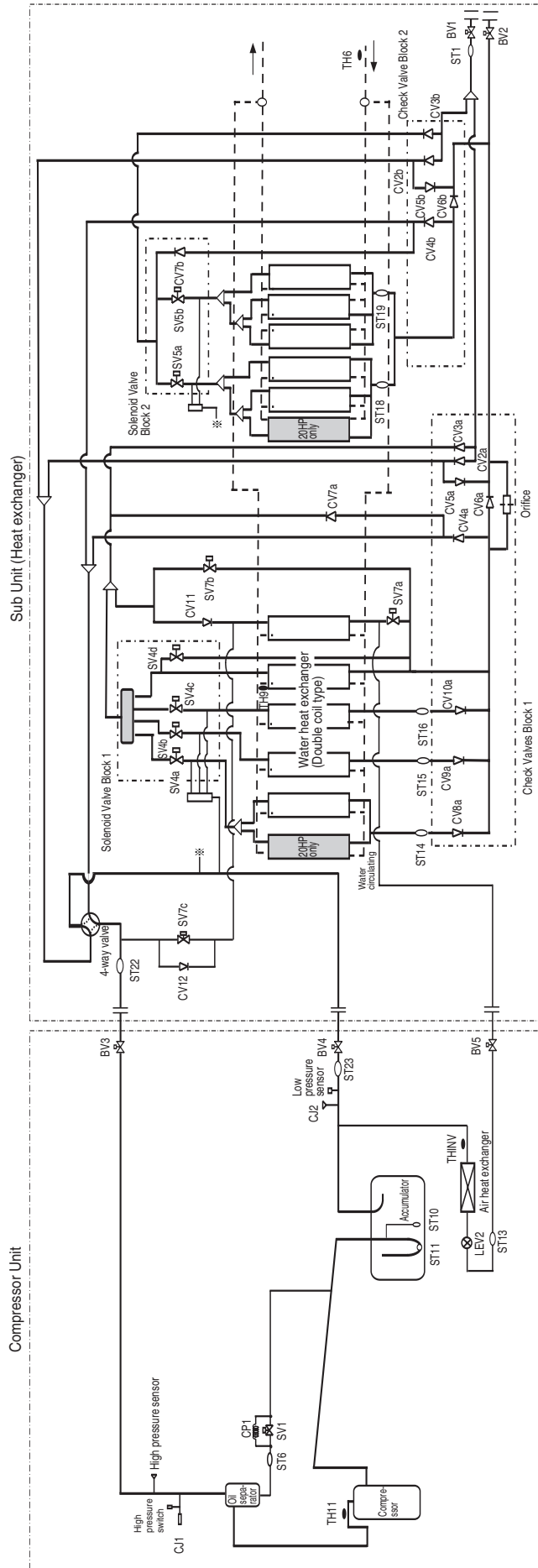
Drw.: RC_WYNA1-1132-13



Y
R2
WY
WR2
S
OP

PQRY-P400,500YSGM-A

Drw. : RC_WYNA1-1132-14



7-1. Designing of water circuit system

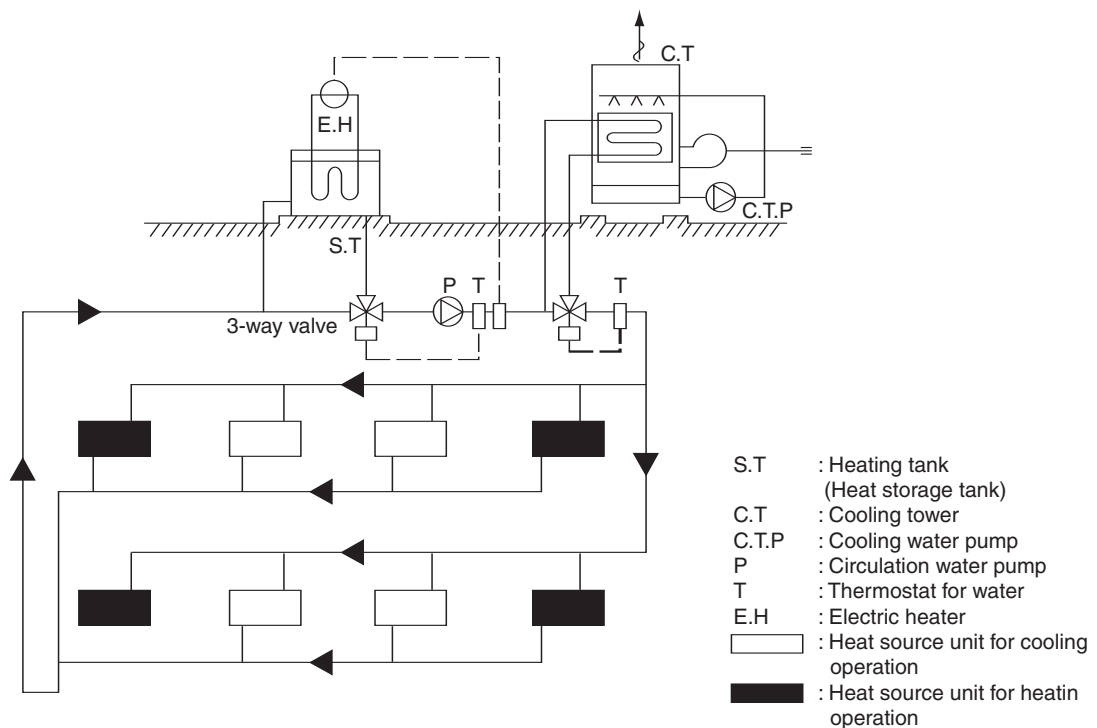
1) Example of basic water circuit

The water circuit of the water heat source CITY MULTI connects the heat source unit with the cooling tower/auxiliary heat source/heat storage tank/circulation pump with a single system water piping as shown in the figure below. The selector valve automatically controls to circulate water toward the cooling tower in the cooling season, while toward the heat storage tank in the heating season. If the circulation water temperature is kept in a range of 10~45°C* regardless of the building load, the water heat source CITY MULTI can be operated for either cooling or heating. Therefore in the summer when only cooling load exists, the temperature rise of circulation water will be suppressed by operating the cooling tower. While in the winter when heating load increases, the temperature of circulation water may be dropped below 10°C. Under such situation, the circulation water will be heated with the auxiliary heat source if it drops below a certain temperature. When the thermal balance between cooling and heating operation is in a correct proportion, the operation of the

auxiliary heat source and cooling tower is not required. In order to control the above thermal balance properly and use thermal energy effectively, utilizing of heat storage tanks, and night-time discounted electric power as a auxiliary heat source will be economical. Meantime as this system uses plural sets of heat source unit equipped with water heat exchangers, water quality control is important. Therefore it is recommended to use closed type cooling towers as much as possible to prevent the circulation water from being contaminated. When open type cooling towers are used, it is essential to provide proper maintenance control such as that to install water treatment system to prevent troubles caused by contaminated circulation water.

*15~45°C : 50%~150% of indoor units can be connected
 *10~40°C : 50%~130% of indoor units can be connected

Example of basic water circuit for water heat source CITY MULTI



The indoor unit and refrigerant piping system are excluded in this figure.

2) Cooling tower

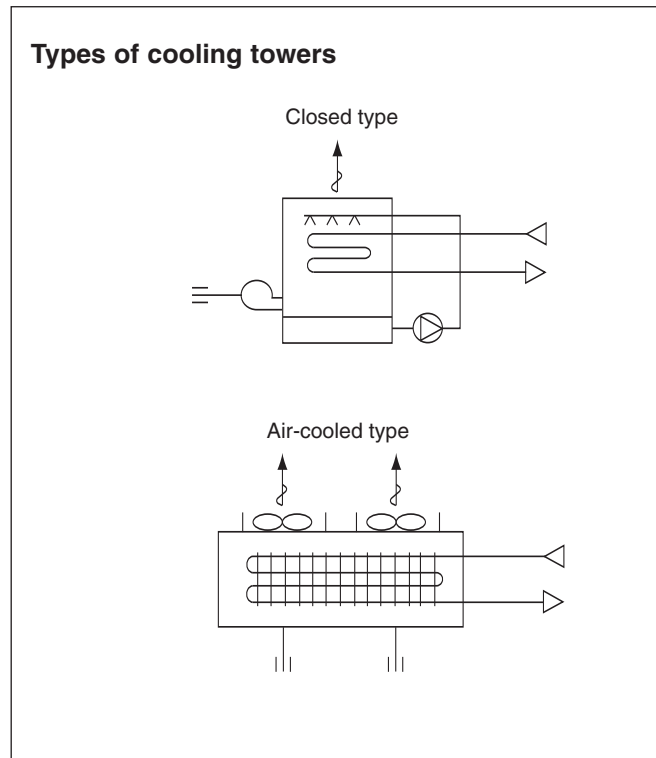
a) Types of cooling tower

The cooling towers presently used include the open type cooling tower, open type cooling tower + heat exchanger, closed type cooling tower, and air-cooled type cooling tower. However, as the quality control of circulation water is essential when units are installed in decentralized state inside a building, the closed type cooling tower is generally employed in such case.

Although the circulation water will not be contaminated by atmospheric air, it is recommended to periodically blow water inside the system and replenish fresh water instead.

In a district where the coil may be frozen in the winter, it is necessary to apply antifreeze solution to the circulation water, or take freeze protection measures such as to automatically discharge water inside the cooling coil at the stopping of the pump.

When the open type cooling tower is used, be sure to install a water quality control device in addition to the freeze protection measures, as the water may be deteriorated by atmospheric contaminants entered into the cooling tower and dissolved into the circulation water.



b) Calculation method of cooling tower capacity

All units of the water heat source CITY MULTI may possibly be in cooling operation temporarily (at pulling down) in the summer, however, it is not necessary to determine the capacity according to the total cooling capacity of all CITY MULTI units as this system has a wide operating water temperature range

(15~45°C : 130% over
10~45°C : 130% or less).

It is determined in accordance with the value obtained by adding the maximum cooling load of an actual building, the input heat equivalent value of all CITY MULTI units, and the cooling load of the circulating pumps. Please check for the values of the cooling water volume and circulation water volume.

$$\text{Cooling tower capacity} = \frac{Q_c + 860 \times (\sum Q_w + P_w)}{3,900} \text{ (Refrigeration ton)}$$

- Q_c : Maximum cooling load under actual state (kcal/h)
- Q_w : Total input of water heat source CITY MULTI at simultaneous operation under maximum state (kW)
- P_w : Shaft power of circulation pumps (kW)

3) Auxiliary heat source and heat storage tank

When the heating load is larger than the cooling load, the circulation water temperature lowers in accordance with the heat balance of the system. It should be heated by the auxiliary heat source in order to keep the inlet water temperature within the operating range

$$\left(\begin{array}{l} 15^{\circ}\text{C or more : 130\% over} \\ 10^{\circ}\text{C or more : 130\% or less} \end{array} \right)$$

of the water heat source CITY MULTI.
Further in order to operate the water heat source CITY MULTI effectively, it is recommended to utilize the heat storage tank to cover the warming up load in the morning and the insufficient heat amount.
Effective heat utilization can be expected to cover insufficient heat at the warming up in the next morning or peak load time by storing heat by installing a heat storage tank or operating a low load auxiliary heat source at the stopping of the water heat source CITY MULTI. As it can also be possible to reduce the running cost through the heat storage by using the discounted night-time electric power, using both auxiliary heat source and heat storage tank together is recommended.

Determining the auxiliary heat source capacity

For the CITY MULTI water heat source system, a heat storage tank is recommended to use. When employment of the heat storage tank is difficult, the warming up operation should be arranged to cover the starting up heating load. Since the holding water inside the piping circuit owns heat capacity and the warming up operation can be assumed for about one hour except that in a cold region, the heat storage tank capacity is required to be that at the maximum daily heating load including the warming up load at the next morning of the holiday.

The effective temperature difference of an ordinary heat storage tank shows about 5deg. even with the storing temperature at 45°C.
However with the water heat source CITY MULTI, it can be utilized as heating heat source up to 15°C with an effective temperature of a high 30deg. approximately, thus the capacity of the heat storage tank can be minimized.

a)Auxiliary heat source

- The following can be used as the auxiliary heat source.
- Boiler (Heavy oil, kerosine, gas, electricity)
 - Electric heat (Insertion of electric heater into heat storage tank)
 - Outdoor air (Air-heat source heat pump chiller)
 - Warm discharge water (Exhaust water heat from machines inside building and hot water supply)
 - Utilization of night-time lighting
 - Solar heat
- Please note that the auxiliary heat source should be selected after studying your operating environment and economical feasibility.

However the auxiliary heat source capacity should be determined by the daily heating load including warming up load on the week day.
For the load at the next morning of the holiday, heat storage is required by operating the auxiliary heat source even outside of the ordinary working hour.

When heat storage tank is not used

$$QH = HC_T \left(1 - \frac{1}{COP_h} \right) - 1000 \times V_w \times \Delta T - 860 \times P_w$$

| | | |
|------------------|--|-------------------|
| QH | : Auxiliary heat source capacity | (kcal/h) |
| HC _T | : Total heating capacity of each water heat source CITY MULTI | (kcal/h) |
| COP _H | : COP of water heat source CITY MULTI at heating | |
| V _w | : Holding water volume inside piping | (m ³) |
| ΔT | : Allowable water temperature drop = T _{WH} - T _{WL} | (°C) |
| T _{WH} | : Heat source water temperature at high temperature side | (°C) |
| T _{WL} | : Heat source water temperature at low temperature side | (°C) |
| P _w | : Heat source water pump shaft power | (kW) |

When heat storage tank is used;

$$QH = \frac{HQ_{1T} \left(1 - \frac{1}{COP_h} \right) - 860 \times P_w \times T_2}{T_1} \times K \quad (\text{Kcal})$$

- QH_{1T} : Total of heating load on weekday including warming up (kcal/day)
- T₁ : Operating hour of auxiliary heat source (h)
- T₂ : Operating hour of heat source water pump (h)
- K : Allowance factor (Heat storage tank, piping loss, etc.) 1.05~1.10

HQ_{1T} is calculated from the result of steady state load calculation similarly by using the equation below.
 $HQ_{1T} = 1.15 \times (\sum Q'a + \sum Q'b + \sum Q'c + \sum Q'd + \sum Q'f) T_2 - \psi (\sum Q'e_1 + \sum Q'e_2 + \sum Q'e_3) (T_2 - 1)$

- Q'a : Thermal load from external wall/roof in each zone (kcal/h)
- Q'b : Thermal load from glass window in each zone (kcal/h)
- Q'c : Thermal load from partition/ceiling/floor in each zone (kcal/h)
- Q'd : Thermal load by infiltration in each zone (kcal/h)
- Q'f : Fresh outdoor air load in each zone (kcal/h)
- Q'e₁ : Thermal load from human body in each zone (kcal/h)
- Q'e₂ : Thermal load from lighting fixture in each zone (kcal/h)
- Q'e₃ : Thermal load from equipment in each zone (kcal/h)
- ψ : Radiation load rate 0.6~0.8
- T₂ : Air conditioning hour

b) Heat storage tank

Heat storage tank can be classified by types into the open type heat storage tank exposed to atmosphere, and the closed type heat storage tank with structure separated from atmosphere. Although the size of the tank and its installation place should be taken into account, the closed type tank is being usually employed by con-

sidering corrosion problems.

The capacity of heat storage tanks is determined in accordance with the daily maximum heating load that includes warming up load to be applied for the day after the holiday.

When auxiliary heat source is operated during operation and even after stopping of water heat source CITY MULTI unit

$$V = \frac{HQ_{2T} \left(1 - \frac{1}{COP_h} \right) - 860 \times P_w \times T_2 - QH \times T_2}{\Delta T \times 1000 \times \eta V} \quad (\text{ton})$$

When auxiliary heat source is operated after stopping of water heat source CITY MULTI unit

$$V = \frac{HQ_{2T} \left(1 - \frac{1}{COP_h} \right) - 860 \times P_w \times T_2}{\Delta T \times 1000 \times \eta V} \quad (\text{ton})$$

- HQ_{2T} : Maximum heating load including load required for the day after the holiday (kcal/day)
- ΔT : Temperature difference utilized by heat storage tank (deg)
- ηV : Heat storage tank efficiency

$$HQ_{2T} : 1.3 \times (\sum Q'a + \sum Q'c + \sum Q'd + \sum Q'f) T_2 - \psi (\sum Q'e_2 + \sum Q'e_3) (T_2 - 1)$$

4) Piping system

The following items should be kept in your mind in planning / designing water circuits.

- a) All units should be constituted in a single circuit in principle.
- b) When plural numbers of the water heat source CITY MULTI unit are installed, the rated circulating water flow rate should be kept by making the piping resistance to each unit almost same value. As an example, the reverse return system as shown below may be employed.
- c) Depending on the structure of a building, the water circuit may be prefabricated by making the layout uniform.
- d) When a closed type piping circuit is constructed, install an expansion tank usable commonly for a make-up water

tank to absorb the expansion/contraction of water caused by temperature fluctuation.

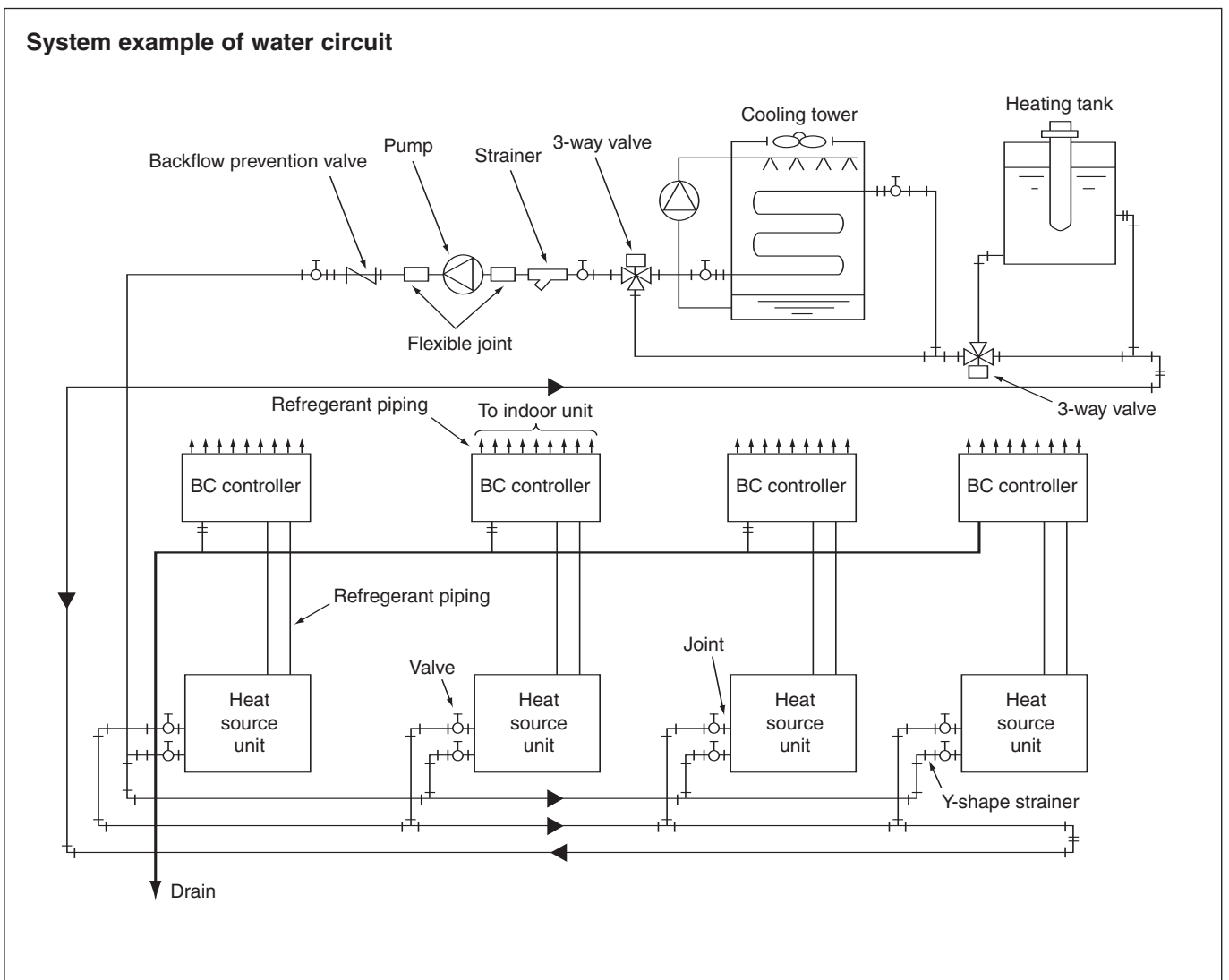
- e) If the operating temperature range of circulation water stays within the temperature near the normal temperature (summer : 30°C, winter : 20°C), thermal insulation or anti-sweating work is not required for the piping inside buildings.

In case of the conditions below, however, thermal insulation is required.

- When well water is used for heat source water.
- When piped to outdoor or a place where freezing may be caused.
- When vapor condensation may be generated on piping due to an increase in dry bulb temperature caused by the entry of fresh outdoor air.

Y
R2
WY
WR2
S
OP

System example of water circuit



5) Cleaning of water heat exchanger

For the water heat exchanger, scale adheres in less amount generally in the case of closed type cooling towers. However in a long period of use, scale will adhere that may lower the heat exchange capacity and increase the water resistance.

In such case, conduct cleaning work under the procedure given below.

procedure given below.

The cleaning work procedure generally used is as follows. However as the cleaning agents have various differences in their cleaning effect, corrosion characteristics, processing time, and condensation for use, conduct the work after consulting the relating maker.

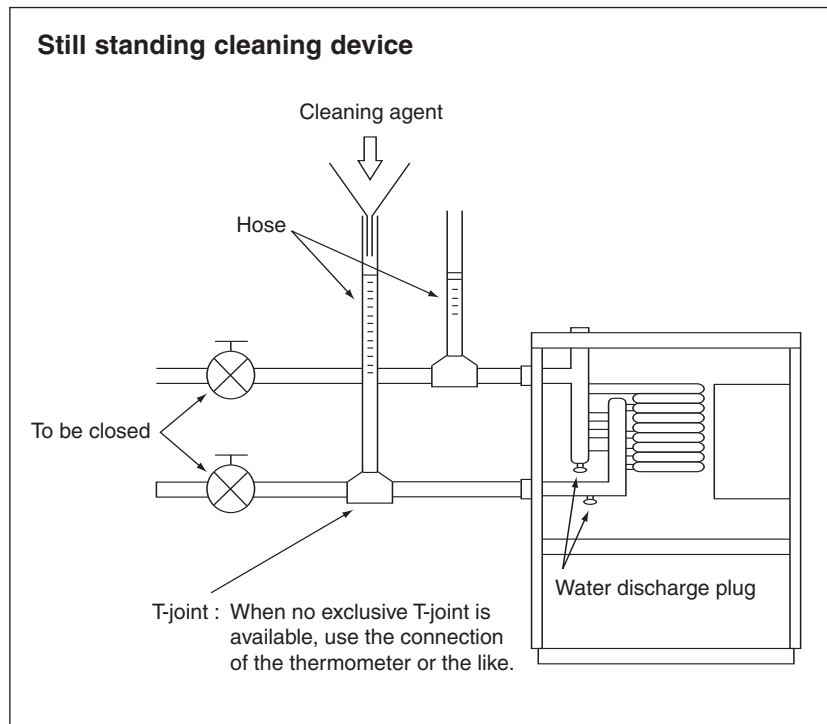


a) Still standing method

This method feeds the raw liquid or diluted solution of cleaning agent into the water circuit and leave it for a while, and requires only a simple device.

- Since the cleaning time required differs by the agent of each maker, be sufficiently careful for the time and not to exceed the time specified.

- Fully recover the cleaning liquid through the water discharge plug of the heat exchanger, and then fully clean the water circuit with clean water. If the water washing can not be made sufficiently, neutralization processing will be effective.

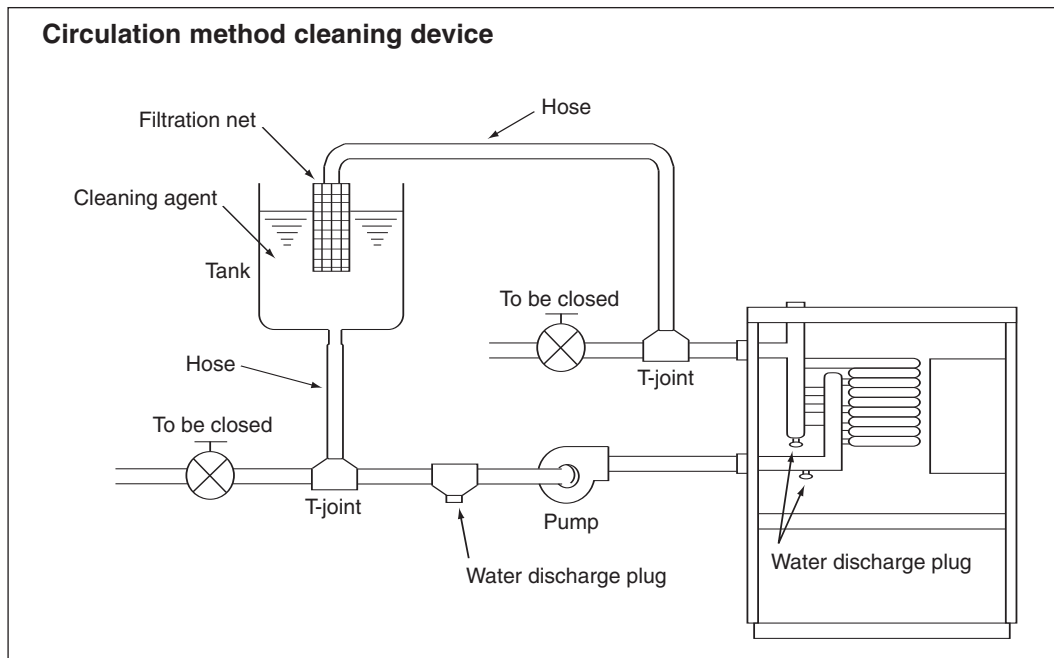


b)Circulation method

Although this method can clean in shorter time than that required by the still standing method, be careful that the circulation pump may be damaged if using cleaning agent with strong corrosive characteristics.

- After completing washing work, fully recover the washing liquid through the water discharge plug installed at the bottom of the piping and that at the heat exchanger.
- Conduct water washing for three times or more after removing cleaning agent. If this can not be made satisfactorily, apply neutralization treatment. Full replacement of water can be ascertained by measuring the PH of the water.
- Note that it may be required to control the cleaning time depending on the scale generation or water quality.
- At cleaning work, remove or shut down the instruments like water pressure gauges so that the cleaning liquid will not enter into them.

- Check for the connections of piping beforehand so that cleaning agent will not leak from the piping during cleaning work.
- Start cleaning operation after fully mixing the cleaning agent with water.
- Cleaning at the earlier timing is recommended as the removal of scale will be difficult if it has accumulated seriously. Periodical cleaning is necessary in a district with inferior water quality.
- Conduct water washing sufficiently with clear water after cleaning work as all cleaning agents own strong acidity.
- To verify the completion of cleaning, remove the hose and observe the inner wall of the piping whether it is clean.
- Be sufficiently careful for fire when using inflammable cleaning agent (GOSPEL R).



Example of cleaning agents

| Name | Shape | Condensation | Time | Makers |
|---------------|---------------|--|--------|--------------|
| CLEARLITE RK | Powder/Liquid | 10~20% | 2~3Hr. | Koei Kagaku |
| CLEARLITE ACE | Powder/Liquid | 3~5% | 1~3Hr. | Koei Kagaku |
| GOSPEL R | Liquid | 7% (Upper limit 10%, lower limit 5%) | 1~4Hr. | Gospel Kako |
| GOSPEL SR | Powder | | | Marusan |
| ADDITION DR | Powder | | | Seiwa kogyo |
| SS-100 | Liquid | | | Saver Kagaku |
| NEOLUX F | Powder | | | |
| DISCALER | Powder | 4~7% | | |

6) Practical System Examples and Circulation Water Control

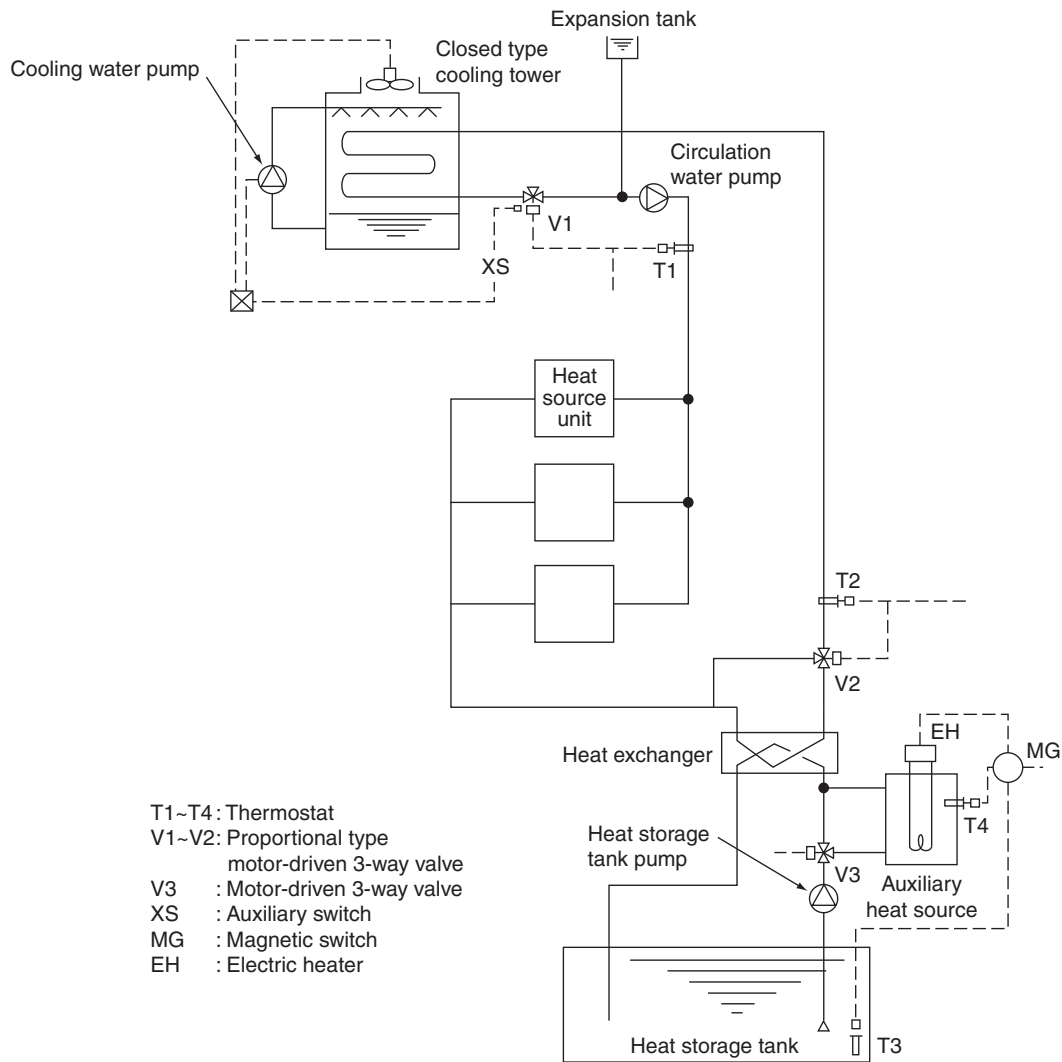
Since the water heat source CITY MULTI is of water heat source system, versatile systems can be constituted by combining it with various heat sources.

The practical system examples are given below.

Either cooling or heating operation can be performed if the circulation water temperature of the water heat

source CITY MULTI stays within a range of 15~45°C. However, the circulation water temperature near 32°C for cooling and 20°C for heating is recommended by taking the life, power consumption and capacity of the air conditioning units into consideration. The detail of the control is also shown below.

Example-1 Combination of closed type cooling tower and hot water heat storage tank (using underground hollow slab)



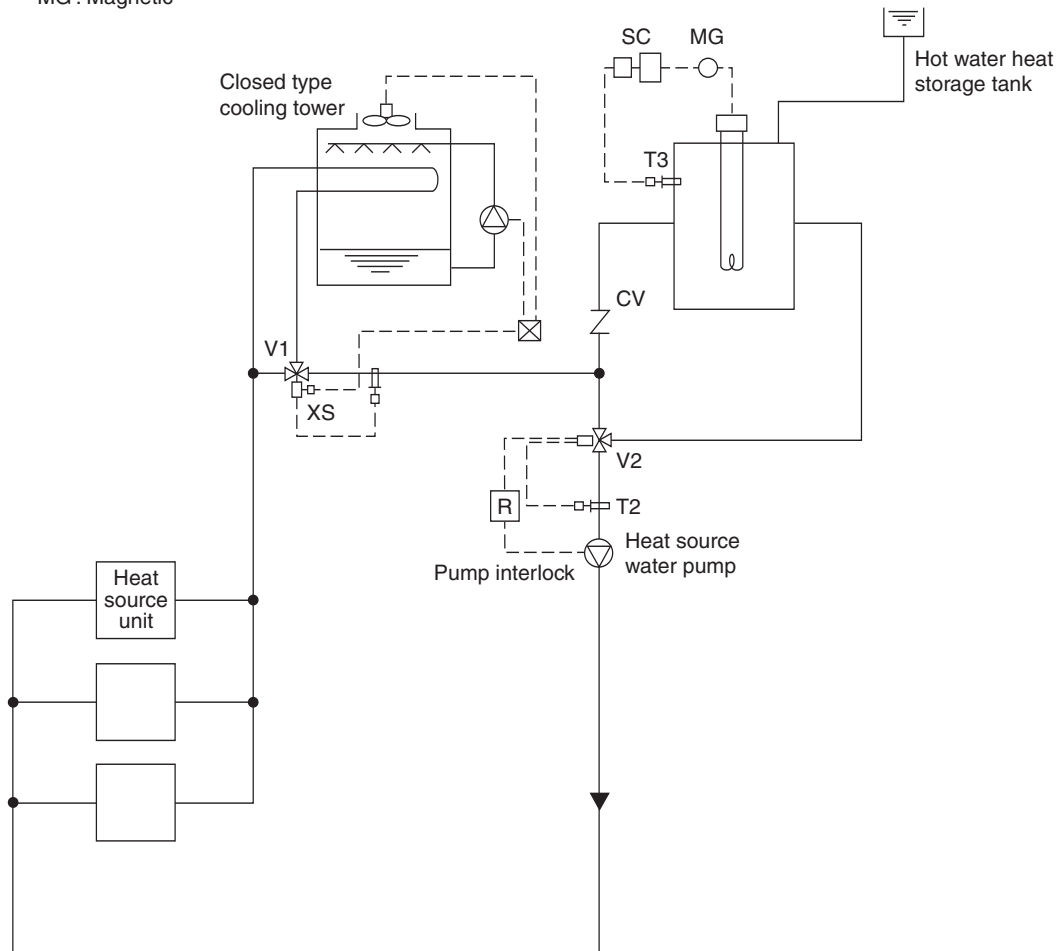
By detecting the circulation water temperature of the water heat source CITY MULTI system with T1 (around 32°C) and T2 (around 20°C), the temperature will be controlled by opening/closing V1 in the summer and V2 in the winter.

In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will open to lower the circulation water temperature. While in the winter, as the circulation water temperature drops, V2 will open following the command of T2 to rise the circulation water temperature.

The water inside the heat storage tank will be heated by the auxiliary heat source by V3 being opened with timer operation in the night-time. The electric heater of the auxiliary heat source will be controlled by T3 and the timer. The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control of the fan and pump following the command of the auxiliary switch XS of V1, that operates only the fan at the light load while the fan and pump at the maximum load thus controlling water temperature and saving motor power.

Example-2 Combination of closed type cooling tower and hot water heat storage tank

- T1 : Proportional type, insertion system thermostat
 T2 : Proportional type, insertion system thermostat
 T3 : Proportional type, insertion system thermostat
 V1 : Proportional type, motor-driven 3-way valve
 V2 : Proportional type, motor-driven 3-way valve
 XS : Auxiliary switch (Duplex switch type)
 SC : Step controller
 R : Relay
 MG : Magnetic



In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will open to lower the circulation water temperature. In the winter, if the circulation water temperature stays below 25°C, V2 will open/close by the command of T2 to keep the circulation water temperature constant.

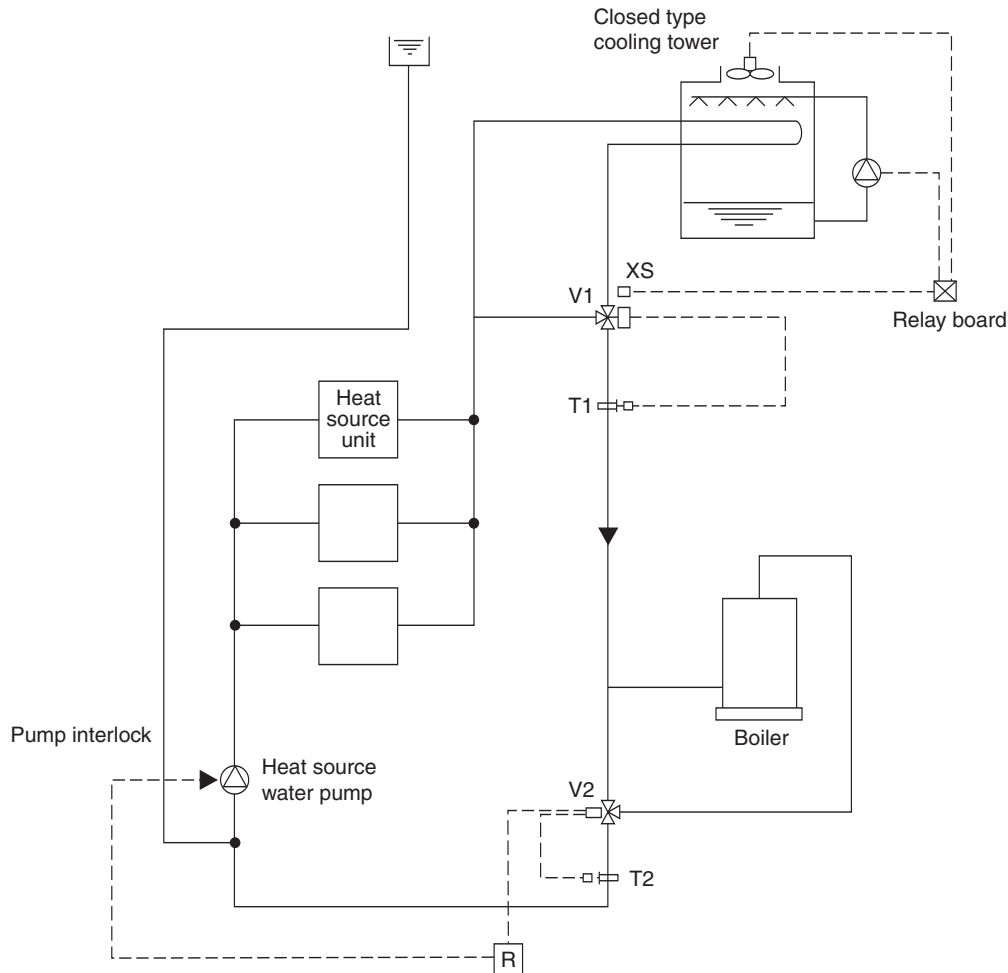
The temperature of the hot water inside the heat storage tank will be controlled through the step control of the electric heater by step controller operation following the command of T3.

During the stopping of the heat source water pump, the bypass port of V2 will be closed fully by interlocking thus preventing the high temperature water from entering into the system at the starting of the pump.

The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control of the fan and pump following the command of the auxiliary switch XS of V1, that operates only the fan at the light load while the fan and pump at the maximum load thus controlling water temperature and saving motor power.

Example-3 Combination of closed type cooling tower and boiler

- T1 : Proportional type, insertion system thermostat
- T2 : Proportional type, insertion system thermostat
- T3 : Proportional type, insertion system thermostat
- V1 : Proportional type, motor-driven 3-way valve
- S : Selector switch
- R : Relay
- XS : Auxiliary switch (Duplex switch type)



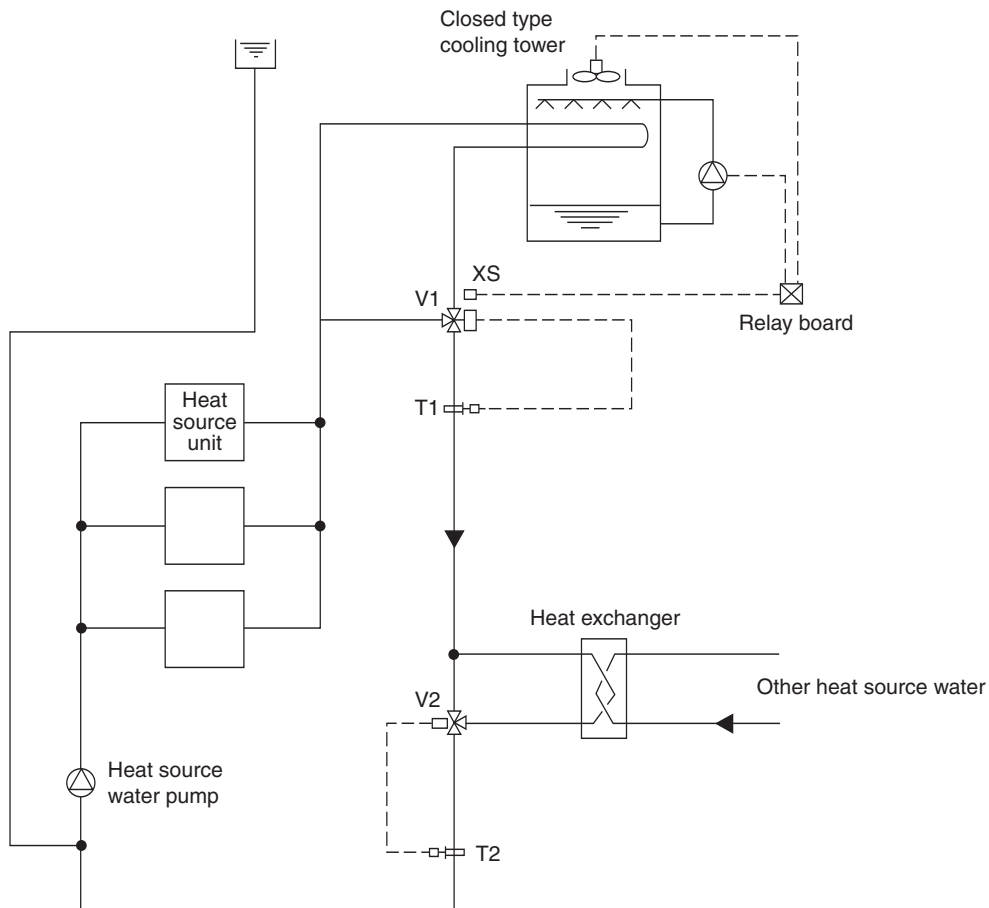
In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will close to lower the circulation water temperature. In the winter, if the circulation water temperature drops below 25°C, V2 will conduct water temperature control to keep the circulation water temperature constant.

During the stopping of the heat source water pump, the bypass port of V2 will be closed fully by interlocking.

The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control following the command of the auxiliary switch XS of V1, thus controlling water temperature and saving motor power.

Example-4 Combination of closed type cooling tower and heat exchanger (of other heat source)

- T1 : Proportional type, insertion system thermostat
- T2 : Proportional type, insertion system thermostat
- V1 : Proportional type, motor-driven 3-way valve
- V2 : Proportional type, motor-driven 3-way valve
- S : Selector switch
- R : Relay
- XS : Auxiliary switch (Duplex switch type)

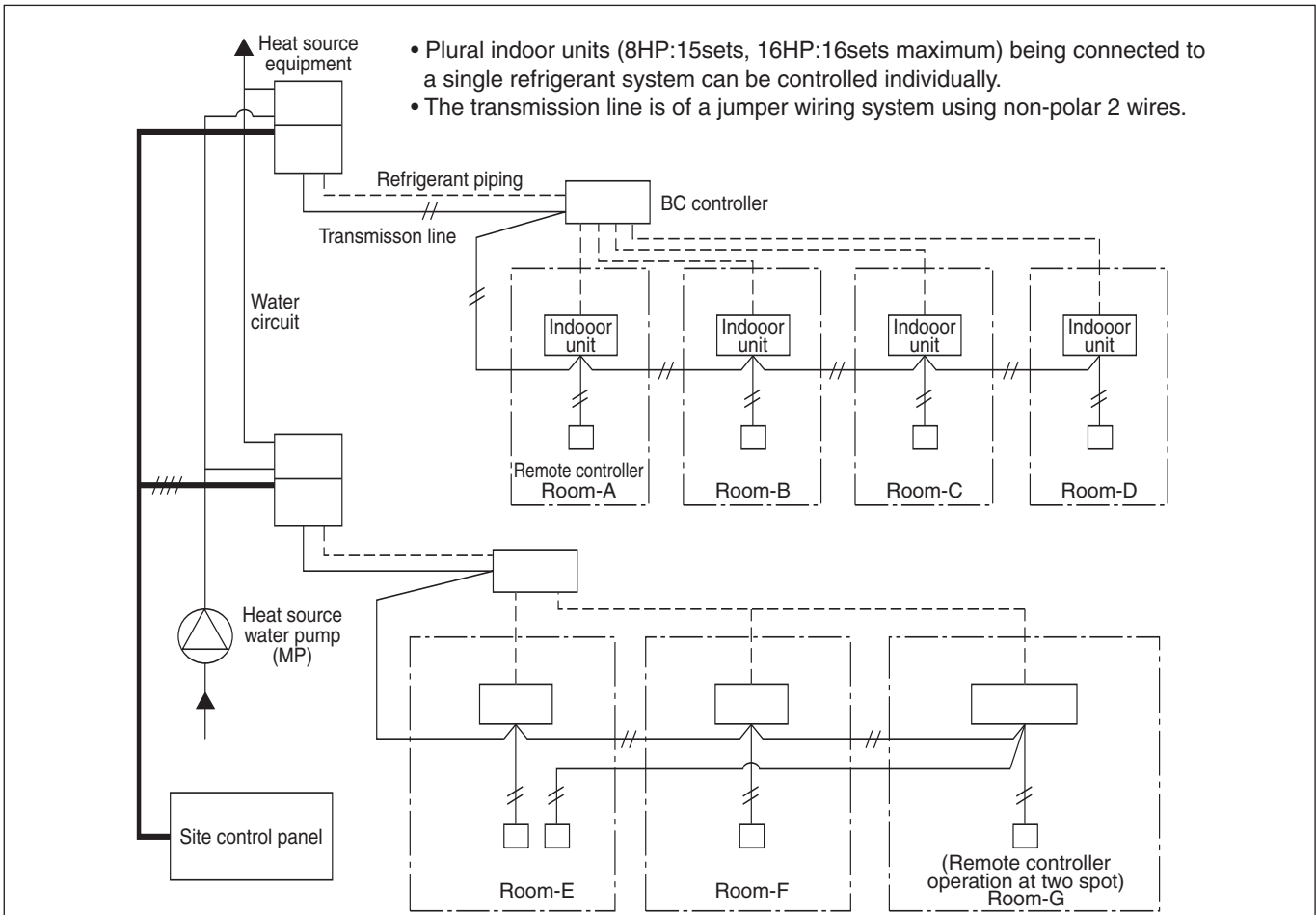


In the summer, as the circulation water temperature rises exceeding the set temperature of T1, the bypass port of V1 will close to lower the circulation water temperature. In the winter, if the circulation water temperature drops below 26°C, V2 will conduct water temperature control to keep the circulation water temperature constant.

During the stopping of the heat source water pump, the bypass port of V2 will be closed fully by interlocking.

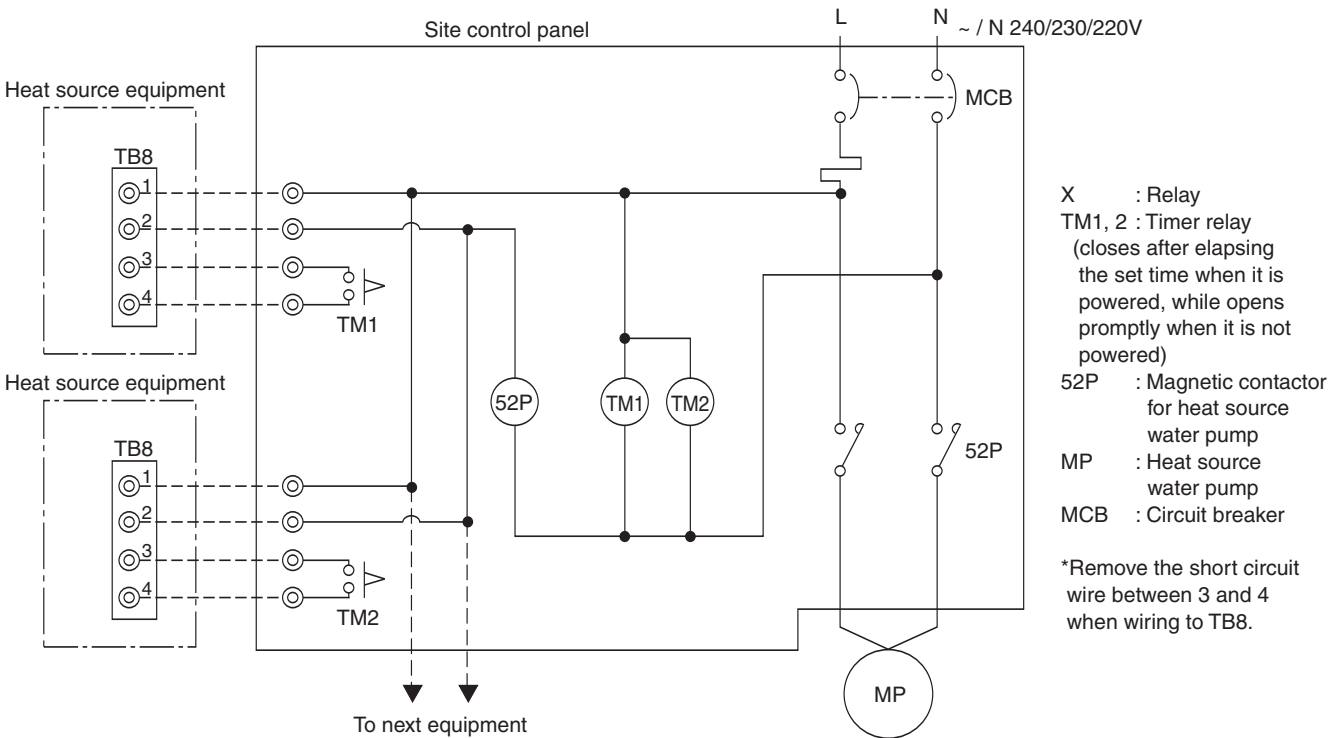
The start/stop control of the fan and pump of the closed type cooling tower is applied with the step control following the command of the auxiliary switch XS of V1, thus controlling water temperature and saving motor power.

7) Pump interlock circuit



Wiring diagram

This circuit uses the "Terminal block for pump interlock (TB8)" inside the electrical parts box of the heat source equipment. This circuit is for interlocking of the heat source equipment operation and the heat source water pump.



Operation ON signal

| | |
|--------------|--|
| Terminal No. | TB8-1, 2 |
| Output | Relay contacts output Rated voltage : L1 - N : 220 ~ 240V Rated load : 1A |
| Operation | <ul style="list-style-type: none"> • When Dip switch 2-7 is OFF The relay closes during compressor operation. • When DIP switch 2-7 is ON. The relay closes during reception of cooling or the heating operation signal from the controller. (Note : It is output even if the thermostat is OFF (when the compressor is stopped).) |

Pump Interlock

| | |
|--------------|---|
| Terminal No. | TB8-3, 4 |
| Input | Level signal |
| Operation | If the circuit between TB8-3 and TB8-4 is open, compressor operation is prohibited. |

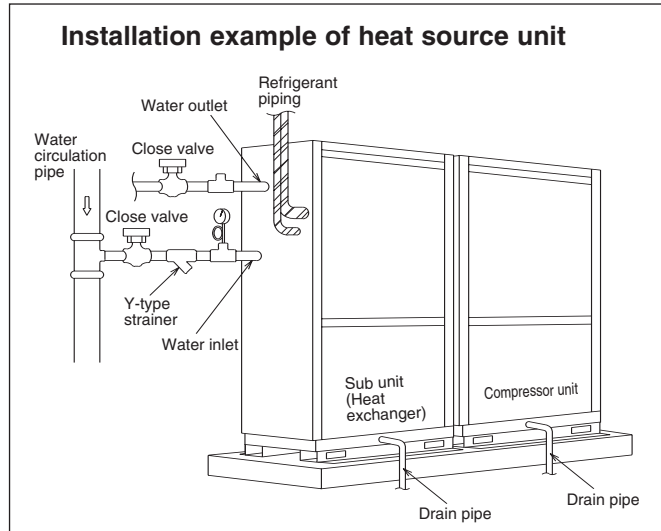
Y
R2
WY
WR2
S
OP

7-2.WATER PIPING WORK

Although the water piping for the CITY MULTI WR2 system does not differ from that for ordinary air conditioning systems, pay special attention to the items below in conducting the piping work.

1) Items to be observed on installation work

- In order to equalize piping resistance for each unit, adapt the reverse return system.
- Mount a joint and a valve onto the water outlet/inlet of the unit to allow for maintenance, inspection and replacement work. Be sure to mount a strainer at the water inlet piping of the unit. (The strainer is required at the circulation water inlet to protect the heat source unit.)
- * The installation example of the heat source unit is shown right.
- Be sure to provide an air relief opening on the water piping properly, and purge air after feeding water to the piping system.
- Condensate will generate at the low temperature part inside the heat source equipment. Connect drain piping to the drain piping connection located at the bottom of the heat source equipment to discharge it outside the equipment.
- At the center of the header of the heat exchanger water inlet inside the unit, a plug for water discharge is being provided.
Use it for maintenance work or the like.
- Mount a backflow prevention valve and a flexible joint for vibration control onto the pump.
- Provide a sleeve to the penetrating parts of the wall to prevent the piping.
- Fasten the piping with metal fitting, arrange the piping not to expose to cutting or bending force, and pay sufficient care for possible vibration.
- Be careful not to erroneously judge the position of the inlet and outlet of water.
(Lower position : Inlet, Upper position : Outlet)



3) Water treatment and water quality control

For the circulation water cooling tower of the CITY MULTI WR2 system, employment of the closed type is recommended to keep water quality. However, in the case that an open type cooling tower is employed or the circulating water quality is inferior, scale will adhere onto the water heat exchanger leading to the decreased heat exchange capacity or the corrosion of the heat exchanger. Be sufficiently careful for water quality control and water treatment at the installation of the circulation water system.

- Removal of impurities inside piping
Be careful not to allow impurities such as welding fragment, remaining sealing material and rust from mixing into the piping during installation work.
- Water treatment
The water quality standards have been established by the industry (Japan Refrigeration, Air Conditioning Industry Association, in case of Japan) for water treatment to be applied.

2) Thermal insulation work

Thermal insulation or antisweating work is not required for the piping inside buildings in the case of the CITY MULTI WR2 system if the operating temperature range of circulation water stays within the temperature near the normal (summer : 30°C, winter : 20°C).

In case of the conditions below, however, thermal insulation is required.

- Use of well water for heat source water
- Outdoor piping portions
- Indoor piping portions where freezing may be caused in winter
- A place where vapor condensation may be generated on piping due to an increase in dry bulb temperature inside the ceiling caused by the entry of fresh outdoor air
- Drain piping portions

| Items | Lower mid-range temperature water system | | Tendency | |
|---|--|-----------------------------|-----------|---------------|
| | Recirculating water [20<T<60°C] | Make-up water | Corrosive | Scale-forming |
| pH (25°C) | 7.0 - 8.0 | 7.0 - 8.0 | ○ | ○ |
| Electric conductivity (mS/m) (25°C) (μs/cm) (25°C) | 30 or less [300 or less] | 30 or less [300 or less] | ○ | ○ |
| Chloride ion (mg Cl/l) | 50 or less | 50 or less | ○ | |
| Sulfate ion (mg SO ₄ ²⁻ /l) | 50 or less | 50 or less | ○ | |
| Acid consumption (pH4.8) (mg CaCO ₃ /l) | 50 or less | 50 or less | | ○ |
| Total hardness (mg CaCO ₃ /l) | 70 or less | 70 or less | | ○ |
| Calcium hardness (mg CaCO ₃ /l) | 50 or less | 50 or less | | ○ |
| Ionic silica (mg SiO ₂ /l) | 30 or less | 30 or less | | ○ |
| Iron (mg Fe/l) | 1.0 or less | 0.3 or less | ○ | ○ |
| Copper (mg Cu/l) | 1.0 or less | 0.1 or less | ○ | |
| Sulfide ion (mg S ²⁻ /l) | not to be detected | not to be detected | ○ | |
| Ammonium ion (mg NH ₄ ⁺ /l) | 0.3 or less | 0.1 or less | ○ | |
| Residual chlorine (mg Cl/l) | 0.25 or less | 0.3 or less | ○ | |
| Free carbon dioxide (mg CO ₂ /l) | 0.4 or less | 4.0 or less | ○ | |
| Ryzner stability index | - | - | ○ | ○ |

Reference : Guideline of Water Quality for Refrigeration and Air Conditioning Equipment. (JRA GL02E-1994)

In order to keep the water quality within such standards, you are kindly requested to conduct bleeding-off by overflow and periodical water quality tests, and use inhibitors to suppress condensation or corrosion. Since piping may be corroded by some kinds of inhibitor, consult an appropriate water treatment expert for proper water treatment.

(4) Pump interlock

Operating the heat source unit without circulation water inside the water piping can cause a trouble. Be sure to provide interlocking for the unit operation and water circuit. Since the terminal block is being provided inside the unit, use it as required.

Y

R2

WY

WR2

S

OP

Y

R2

WY

WR2

S

OP

CITY MULTI™ OUTDOOR UNITS

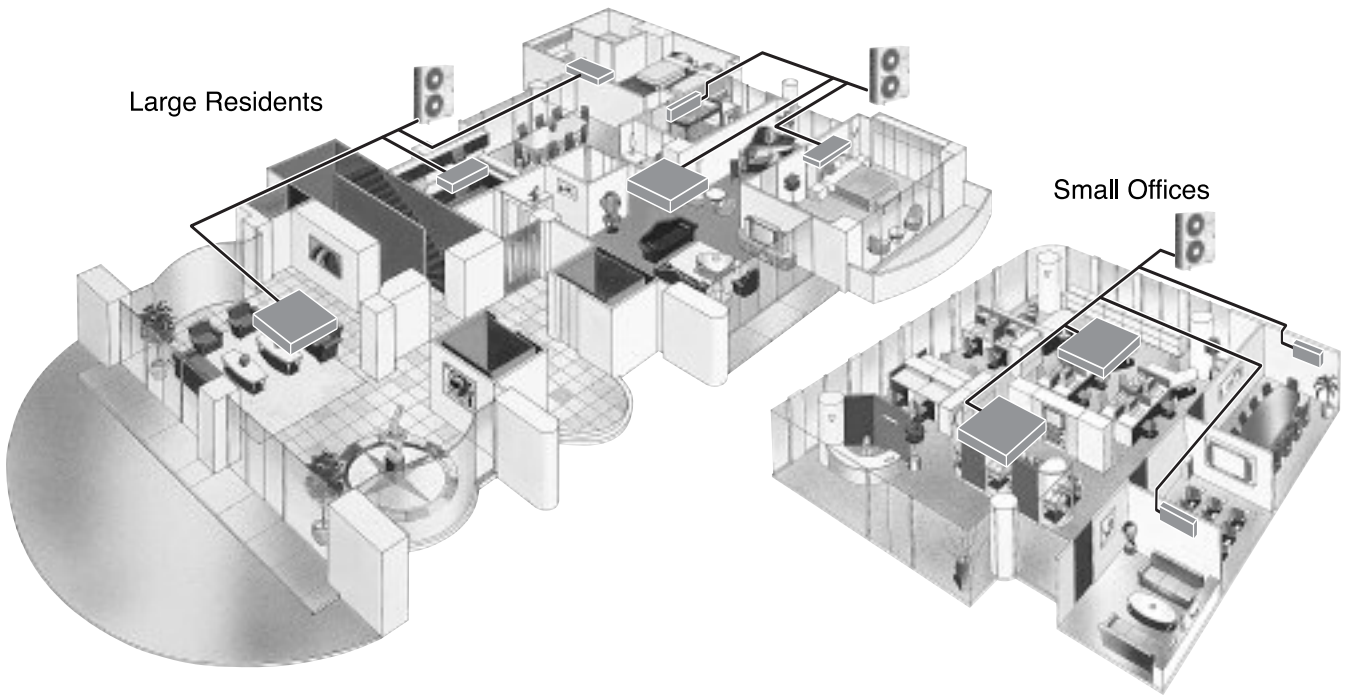
S SERIES

S SERIES

1. SPECIFICATIONS
2. CAPACITY TABLES
 - 2.1 Correction by temperature
 - 2.2 Correction by total indoor
 - 2.3 Correction by refrigerant piping length
 - 2.4 Correction at frosting and defrosting
 - 2.5 Temp. range of running
3. SOUND LEVELS
4. EXTERNAL DIMENSIONS
5. ELECTRICAL WIRING DIAGRAMS
6. REFRIGERANT CIRCUIT DIAGRAMS AND THERMAL SENSORS

- S-2
- S-4
- S-4
- S-5
- S-6
- S-7
- S-7
- S-8
- S-9
- S-10
- S-11

- Y
- R2
- WY
- WR2
- S**
- OP



Heat pump: PUMY-P-YHM

| | | | |
|-------------|-----|-----|-----|
| | 100 | 125 | 140 |
| | 4HP | 5HP | 6HP |
| S Heat pump | ● | ● | ● |

1. SPECIFICATIONS

R410A Data G2

| Model | | | PUMY-P100YHM | PUMY-P125YHM | |
|---|----------------------|----------|------------------------------------|----------------------|-------------|
| Power source | | | 3-phase 4-wire, 380-400-415V, 50Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 11.2 | 14.0 | |
| | *1 | kcal / h | 9,600 | 12,000 | |
| | *1 | Btu / h | 38,200 | 47,800 | |
| | *2 | kcal / h | - | 12,500 | |
| | Power input | | kW | 3.20 | 4.25 |
| | Current input | | A | 5.2-4.9-4.7 | 6.8-6.5-6.3 |
| COP (kW / kW) | | | 3.50 | 3.29 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) | | |
| | Outdoor | D.B. | - 5 ~ 46°C (23 ~ 115°F) | | |
| Heating capacity (Nominal) | *3 | kW | 12.5 | 16.0 | |
| | *3 | kcal / h | 10,800 | 13,800 | |
| | *3 | Btu / h | 42,700 | 54,600 | |
| | Power input | | kW | 3.16 | 4.27 |
| | Current input | | A | 5.1-4.9-4.7 | 6.9-6.5-6.3 |
| | COP (kW / kW) | | | 3.96 | 3.75 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) | | |
| | Outdoor temp. | W.B. | -12 ~ 15°C (10 ~ 59°F) | | |
| Indoor unit connectable | Total capacity | | 50 ~ 130% of outdoor unit capacity | | |
| | Model / Quantity | | P20 ~ P125 / 1 ~ 6 | P20 ~ P140 / 1 ~ 8 | |
| Noise level (measured in anechoic room) | | dB <A> | 49 / 51 | 50 / 52 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare | ø9.52 (ø3/8") Flare | |
| | Gas (Low press.) | mm (in.) | ø15.88 (ø5/8") Flare | ø15.88 (ø5/8") Flare | |

| | | | | | |
|---------------------------------------|--------------------------------|----------------------|---|---|-------|
| External finish | | | Galvanized steel sheet <MUNSELL 3Y 7.8/1.1> | | |
| External dimension H x W x D | mm | | 1,350 x 950 x 330 | 1,350 x 950 x 330 | |
| | in. | | 53-3/16" x 37-7/16" x 13" | 53-3/16" x 37-7/16" x 13" | |
| Net weight | | kg (lb) | 142 (313) | 142 (313) | |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | | |
| Compressor | Type | | Inverter scroll hermetic comp. | | |
| | Manufacturer | | MITSUBISHI ELECTRIC CORPORATION | | |
| | Starting method | | Inverter | | |
| | Motor output | | kW | 1.9 | 2.4 |
| | Case heater | | kW | - | - |
| | Lubricant | | | MEL56 | MEL56 |
| FAN | Air flow rate | m ³ / min | 100 | 100 | |
| | | L / s | 1667 | 1667 | |
| | | cfm | 3532 | 3532 | |
| | External static press. | | | 0 Pa | 0 Pa |
| | Type x Quantity | | Propeller fan x 2 | | |
| | Control, Driving mechanism | | DC-control, Direct-driven by motor | | |
| Motor output | | kW | 0.06 x 2 | 0.06 x 2 | |
| HIC circuit (HIC: Heat Inter-Changer) | | | - | | |
| Protection | High pressure protection | | High pressure sensor, High pressure switch 4.15 MPa | | |
| | Inverter circuit (COMP. / FAN) | | Over-heat protection, Over-current protection | | |
| | Compressor | | Discharge thermo protection, Over-current protection | | |
| | Fan motor | | Over-heat protection, Voltage protection | | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant circle) | | |
| Refrigerant | Type x Original charge | | R410A x 8.5kg (19 lb) | R410A x 8.5kg (19 lb) | |
| | Control | | LEV circuit | | |
| Drawing | External | | YHM-BK01-B328 | | |
| | Wiring | | YHM-RG79-V020 | | |
| | Refrigerant circle | | RC_VBN-050092 | | |
| Standard attachment | Document | | Installation Manual | | |
| | Accessory | | Grounded lead wire x 2 | | |
| Optional parts | | | Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E | Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E | |
| Remark | | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--|---------------------------------|--------------------------------|---|
| | Indoor : 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| | Outdoor : 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| | Pipe length : 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| | Level difference : 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

Ref. : Spec_s_p100_125YHM

1. SPECIFICATIONS

| Model | | PUMY-P140YHM | |
|---|----------------------|------------------------------------|-------------------------|
| Power source | | 3-phase 4-wire, 380-400-415V, 50Hz | |
| Cooling capacity (Nominal) | *:1 | kW | 15.5 |
| | *:1 | kcal / h | 13,300 |
| | *:1 | Btu / h | 52,900 |
| | *:2 | kcal / h | 14,000 |
| | Power input | kW | 5.10 |
| | Current input | A | 8.2-7.8-7.5 |
| COP (kW / kW) | | 3.04 | |
| Temp. range of cooling | Indoor | W.B. | 15 ~ 24°C (59 ~ 75°F) |
| | Outdoor | D.B. | - 5 ~ 46°C (23 ~ 115°F) |
| Heating capacity (Nominal) | *:3 | kW | 18.0 |
| | *:3 | kcal / h | 15,500 |
| | *:3 | Btu / h | 61,400 |
| | Power input | kW | 5.25 |
| | Current input | A | 8.4-8.0-7.7 |
| | COP (kW / kW) | | 3.43 |
| Temp. range of heating | Indoor temp. | D.B. | 15 ~ 27°C (59 ~ 81°F) |
| | Outdoor temp. | W.B. | -12 ~ 15°C (10 ~ 59°F) |
| Indoor unit connectable | Total capacity | 50 ~ 130% of outdoor unit capacity | |
| | Model / Quantity | P20 ~ P140 / 1 ~ 8 | |
| Noise level (measured in anechoic room) | dB <A> | 51 / 53 | |
| Diameter of refrigerant pipe | Liquid (High press.) | mm (in.) | ø9.52 (ø3/8") Flare |
| | Gas (Low press.) | mm (in.) | ø15.88 (ø5/8") Flare |

| | | | |
|---------------------------------------|--------------------------------|---|----------|
| External finish | | Galvanized steel sheet <MUNSELL 3Y 7.8/1.1> | |
| External dimension H x W x D | mm | 1,350 x 950 x 330 | |
| | in. | 53-3/16" x 37-7/16" x 13" | |
| Net weight | kg (lb) | 142 (313) | |
| Heat exchanger | | Salt-resistant cross fin & copper tube | |
| Compressor | Type | Inverter scroll hermetic comp. | |
| | Manufacturer | MITSUBISHI ELECTRIC CORPORATION | |
| | Starting method | Inverter | |
| | Motor output | kW | 2.9 |
| | Case heater | kW | - |
| | Lubricant | MEL56 | |
| FAN | Air flow rate | m ³ / min | 100 |
| | | L / s | 1667 |
| | | cfm | 3532 |
| | External static press. | 0 Pa | |
| | Type x Quantity | Propeller fan x 2 | |
| | Control, Driving mechanism | DC-control, Direct-driven by motor | |
| | Motor output | kW | 0.06 x 2 |
| HIC circuit (HIC: Heat Inter-Changer) | | - | |
| Protection | High pressure protection | High pressure sensor, High pressure switch 4.15 MPa | |
| | Inverter circuit (COMP. / FAN) | Over-heat protection, Over-current protection | |
| | Compressor | Discharge thermo protection, Over-current protection | |
| | Fan motor | Over-heat protection, Voltage protection | |
| Defrosting method | | Auto-defrost mode (Reversed refrigerant circle) | |
| Refrigerant | Type x Original charge | R410A x 8.5kg (19 lb) | |
| | Control | LEV circuit | |
| Drawing | External | YHM-BK01-B328 | |
| | Wiring | YHM-RG79-V020 | |
| | Refrigerant circle | RC_VBN-050092 | |
| Standard attachment | Document | Installation Manual | |
| | Accessory | Grounded lead wire x 2 | |
| Optional parts | | Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E | |
| Remark | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | |

| Note : | *:1 Nominal cooling conditions | *:2 Nominal cooling conditions | *:3 Nominal heating conditions | Unit converter |
|--|--------------------------------|---------------------------------|--------------------------------|---|
| Indoor : | 27°CDB/19°CWB (81°FDB/66°FWB) | 27°CDB/19.5°CWB (81°FDB/67°FWB) | 20°CDB (68°FDB) | kcal/h = kW x 860 |
| Outdoor : | 35°CDB (95°FDB) | 35°CDB (95°FDB) | 7°CDB/6°CWB (45°FDB/43°FWB) | Btu/h = kW x 3,412 |
| Pipe length : | 7.5 m (24-9/16 ft) | 5 m (16-3/8 ft) | 7.5 m (24-9/16 ft) | cfm = m ³ /min x 35.31 |
| Level difference : | 0 m (0 ft) | 0 m (0 ft) | 0 m (0 ft) | lb = kg / 0.4536 |
| * Nominal conditions *:1, *:3 are subject to JIS B8615-1. | | | | *Above specification data is subject to rounding variation. |
| * Due to continuing improvement, above specifications may be subject to change without notice. | | | | |

2. CAPACITY TABLES

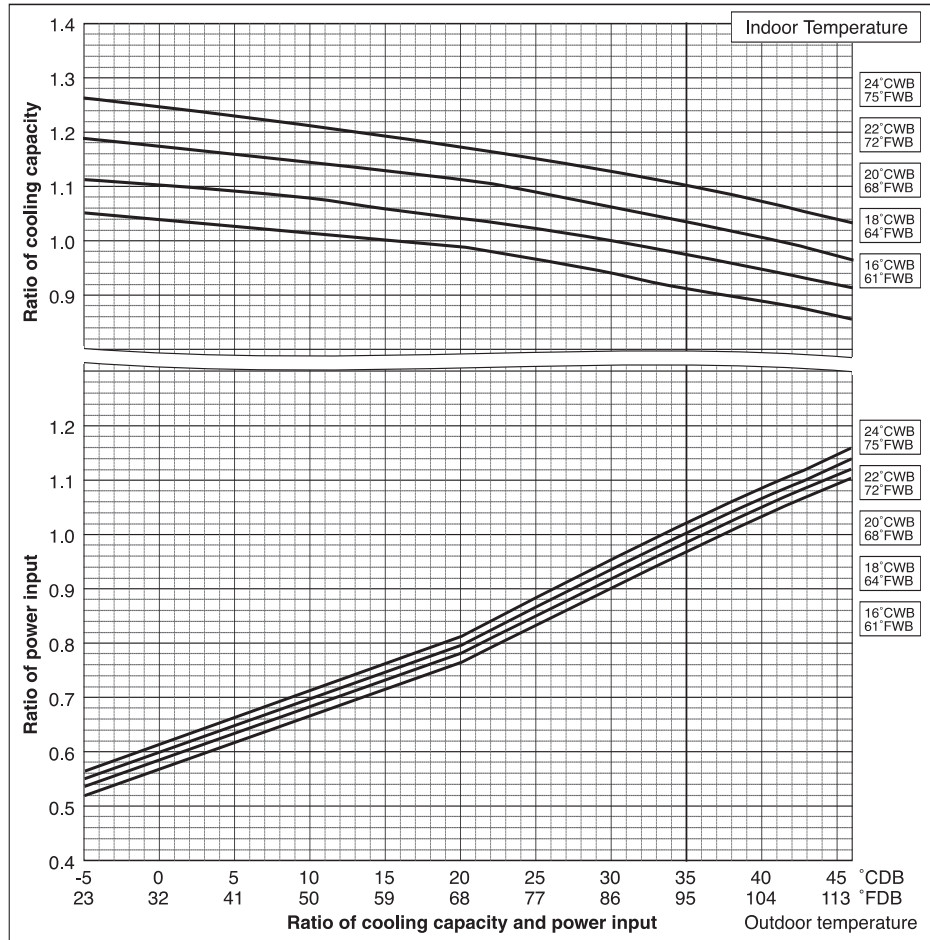
R410A Data G2

2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

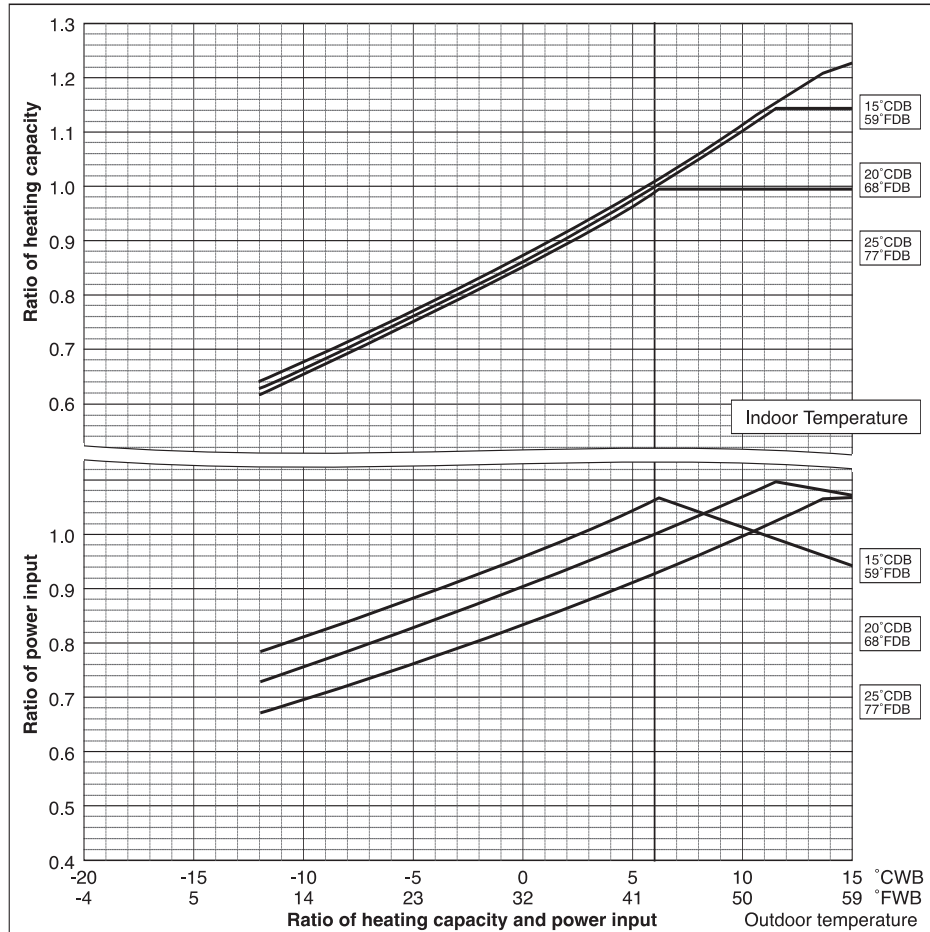
| PUMY- | | P100YHM | P125YHM |
|--------------------------|--------|---------|---------|
| Nominal Cooling Capacity | kW | 11.2 | 14.0 |
| | kcal/h | 9,600 | 12,000 |
| | Btu/h | 38,200 | 47,800 |
| Input | kW | 3.20 | 4.25 |

| PUMY- | | P140YHM |
|--------------------------|--------|---------|
| Nominal Cooling Capacity | kW | 15.5 |
| | kcal/h | 13,300 |
| | Btu/h | 52,900 |
| Input | kW | 5.10 |



| PUMY- | | P100YHM | P125YHM |
|--------------------------|--------|---------|---------|
| Nominal Heating Capacity | kW | 12.5 | 16.0 |
| | kcal/h | 10,800 | 13,800 |
| | Btu/h | 42,700 | 54,600 |
| Input | kW | 3.16 | 4.27 |

| PUMY- | | P140YHM |
|--------------------------|--------|---------|
| Nominal Heating Capacity | kW | 18.0 |
| | kcal/h | 15,500 |
| | Btu/h | 61,400 |
| Input | kW | 5.25 |

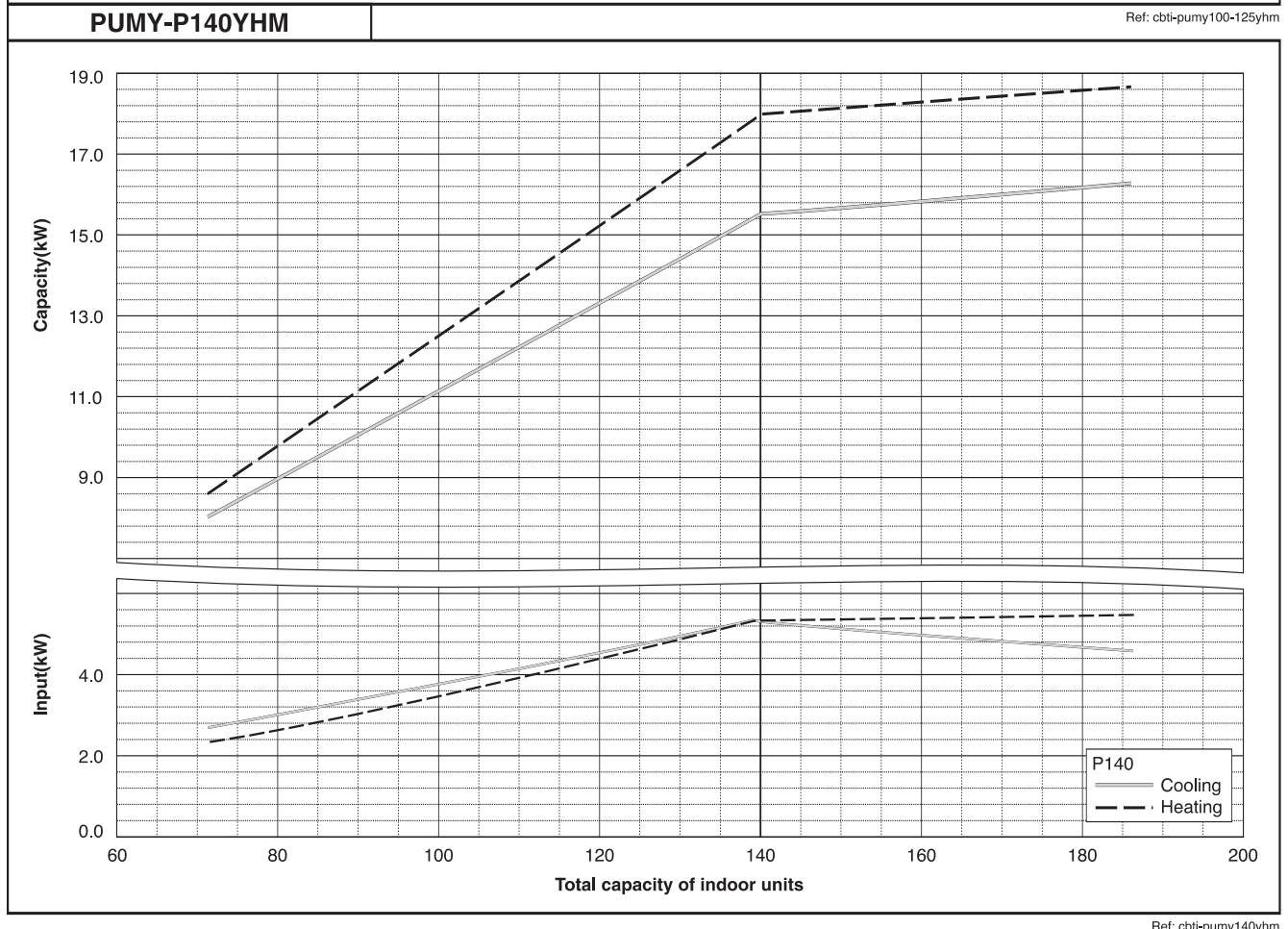
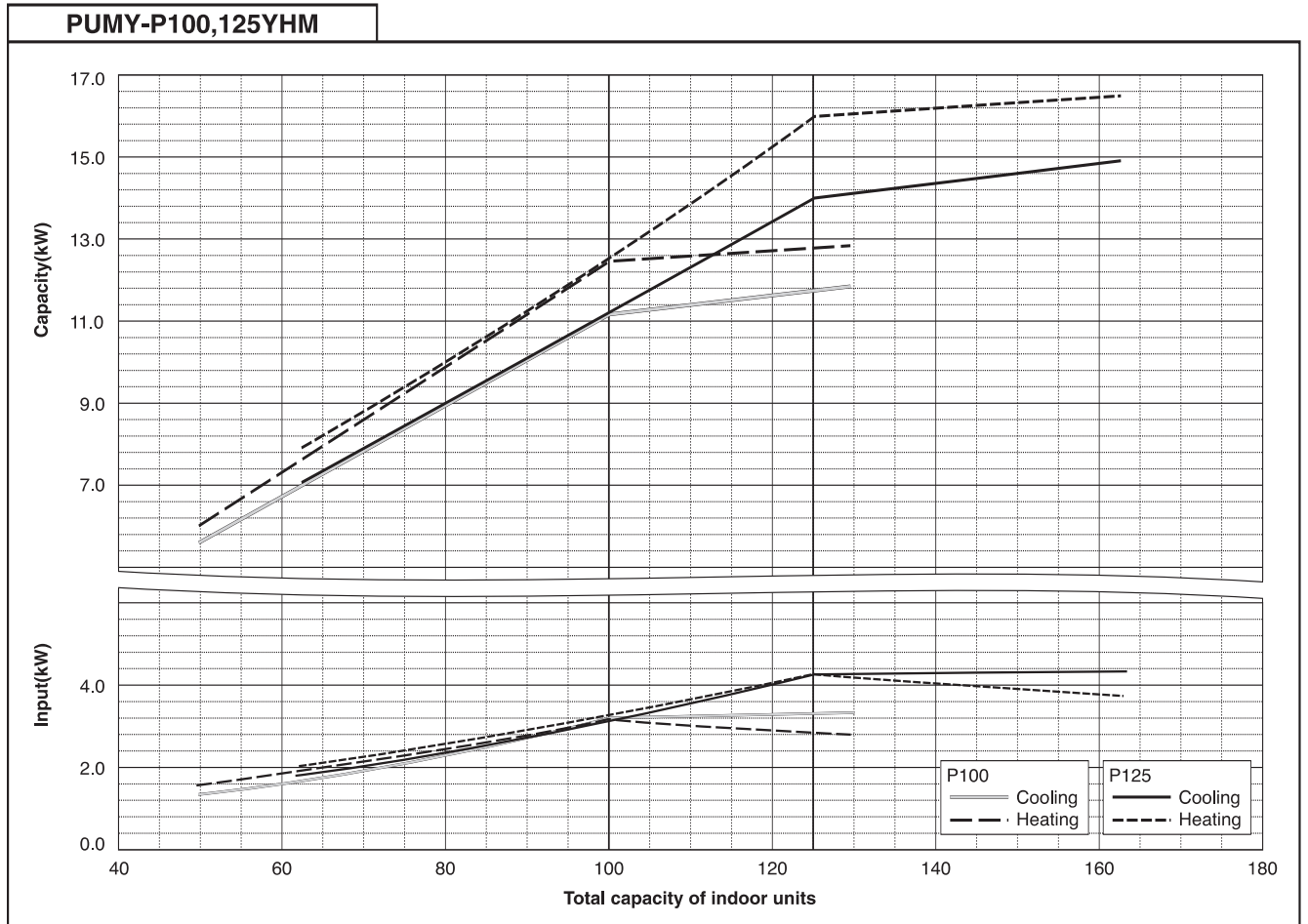


Ref:cbt_p100-140

2. CAPACITY TABLES

2-2. Correction by total indoor

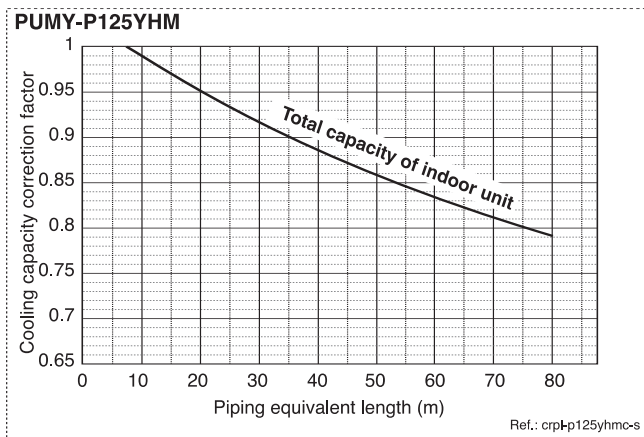
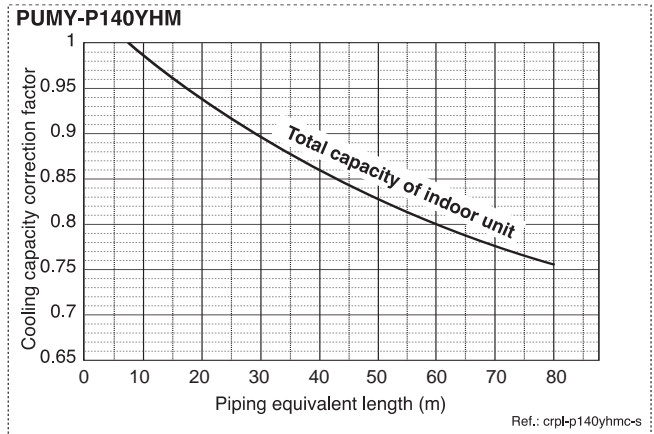
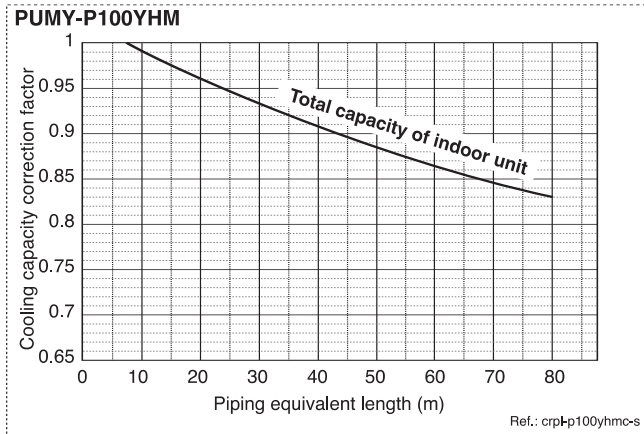
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



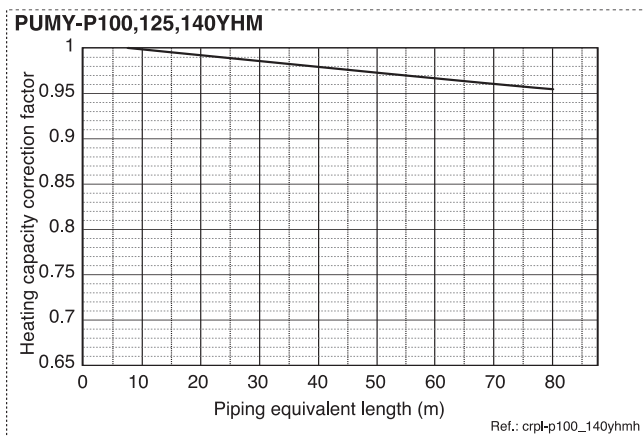
2-3. Correction by refrigerant piping length

CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

2-3a. Cooling capacity correction



2-3b. Heating capacity correction



2-3c. How to obtain the equivalent length of piping

1 PUMY-P100,125,140YHM

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.30 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

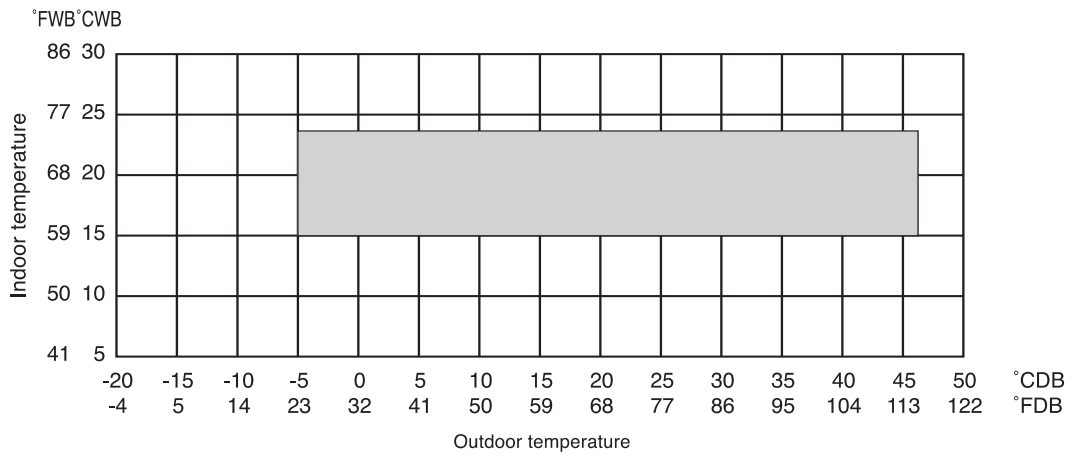
Due to frosting at the outdoor heat exchanger and the automatic defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor at frosting and defrosting

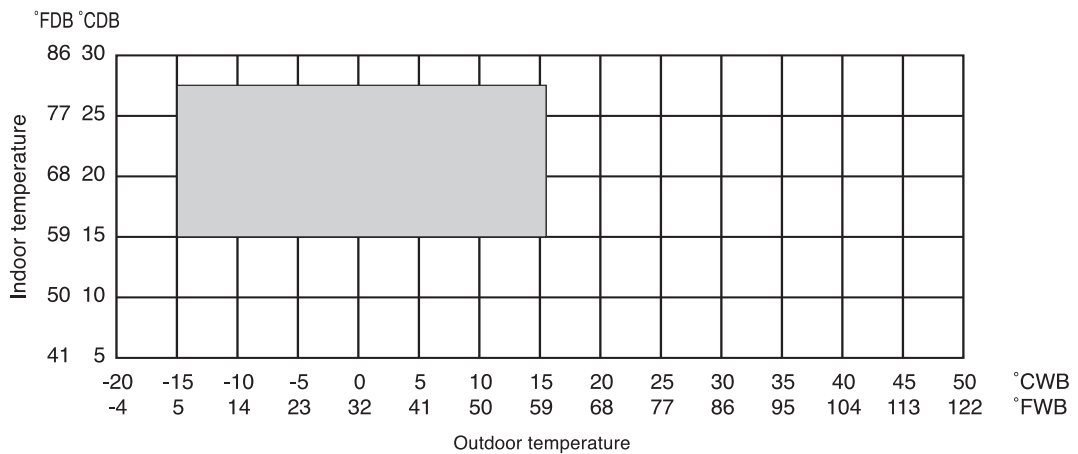
| | | | | | | | | | | | |
|----------------------------|-----|------|-------|------|-------|------|------|------|------|------|-----|
| Outdoor inlet air temp. °C | 6 | 4 | 2 | 1 | 0 | -2 | -4 | -6 | -8 | -10 | -20 |
| Outdoor inlet air temp. °F | 43 | 39 | 36 | 34 | 32 | 28 | 25 | 21 | 18 | 14 | -4 |
| PUMY-P100,125,140YHM | 1.0 | 0.98 | 0.855 | 0.85 | 0.845 | 0.89 | 0.90 | 0.95 | 0.95 | 0.95 | - |

2-5. Temp. range of running

• Cooling

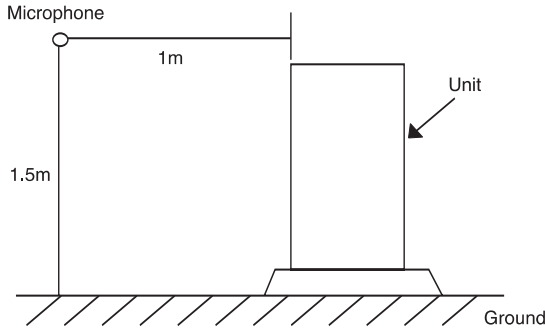


• Heating



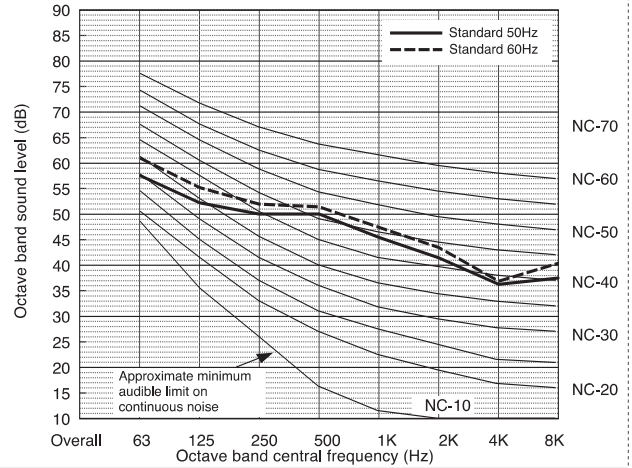
Ref.: tr-yhm-s

Measurement condition PUMY-P100,125,140YHM



Sound level of PUMY-P140YHM

Ref. : P140YHM-VBN-050093

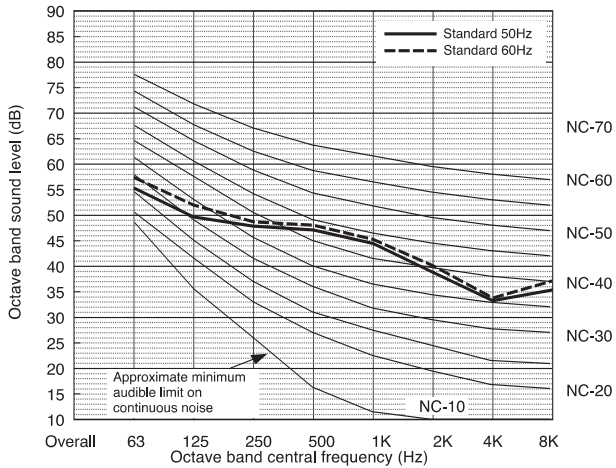


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 57.2 | 51.7 | 49.9 | 49.8 | 45.5 | 41.1 | 35.9 | 37.1 | 51.0 |
| | 60Hz | 60.9 | 55.4 | 52.1 | 51.4 | 47.5 | 43.2 | 37.1 | 40.3 | 53.0 |
| Night mode | 50/60Hz | - | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUMY-P100YHM

Ref. : P100YHM-VBN-050093

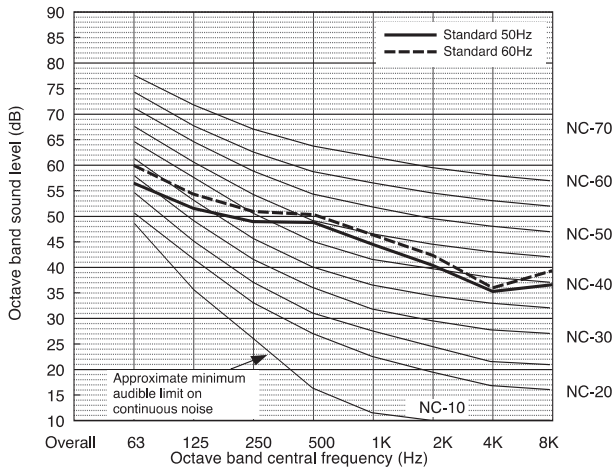


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 55.2 | 49.7 | 47.9 | 47.8 | 43.5 | 39.1 | 33.9 | 35.1 | 49.0 |
| | 60Hz | 58.9 | 53.4 | 50.1 | 49.4 | 45.5 | 41.2 | 35.1 | 38.3 | 51.0 |
| Night mode | 50/60Hz | - | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUMY-P125YHM

Ref. : P125YHM-VBN-050093

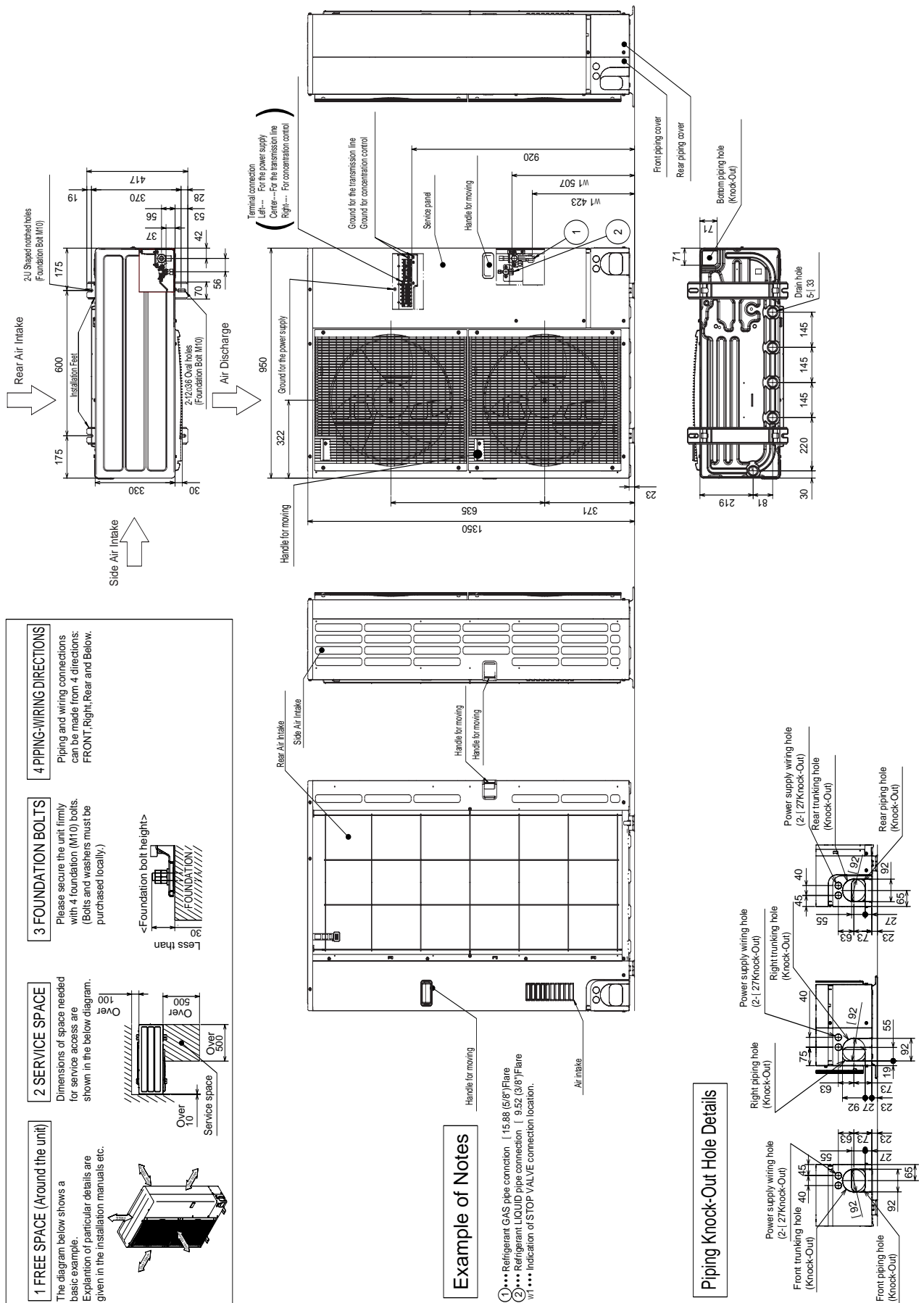


| | | 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | dB(A) |
|------------|---------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| Standard | 50Hz | 56.2 | 50.7 | 48.9 | 48.8 | 44.5 | 40.1 | 34.9 | 36.1 | 50.0 |
| | 60Hz | 59.9 | 54.4 | 51.1 | 50.4 | 46.5 | 42.2 | 36.1 | 39.3 | 52.0 |
| Night mode | 50/60Hz | - | - | - | - | - | - | - | - | - |

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

PUMY-P100,125,140YHM

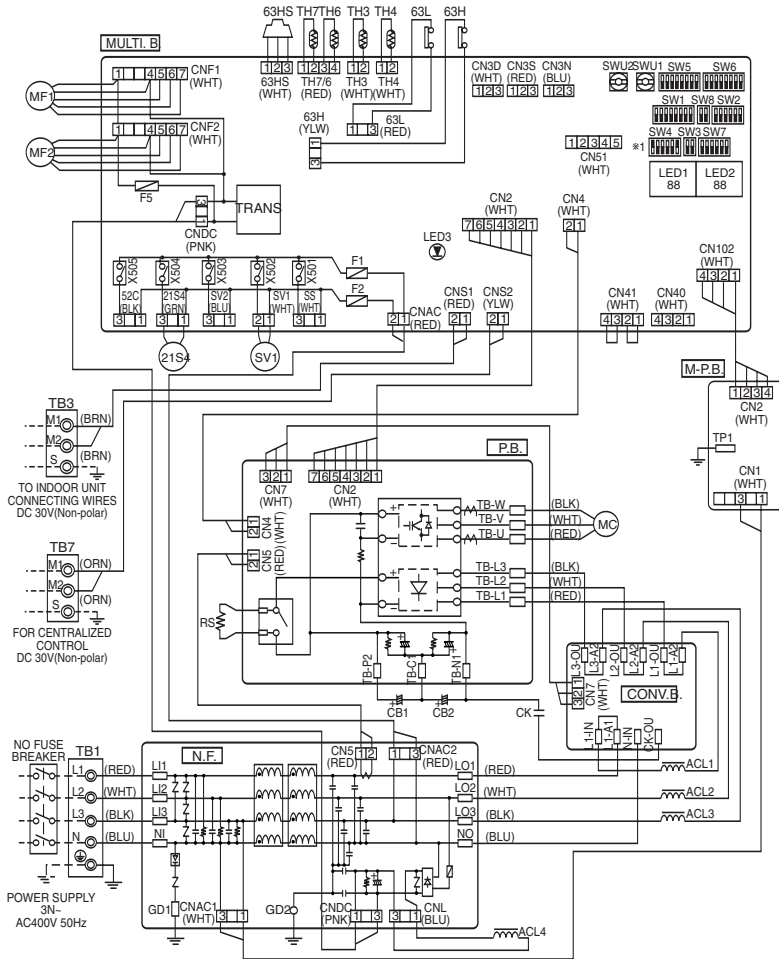
Draw. : YHM-BK01-B328
Unit : mm



PUMY-P100,125,140YHM

Drw. : YHM-RG79-V020

| SYMBOL | NAME | SYMBOL | NAME | SYMBOL | NAME |
|-------------|---|-------------|--------------------------------------|----------------|--|
| TB1 | Terminal Block <Power Supply> | SV1 | Connector-Bypass Valve> | N.F. | Noise Filter Circuit Board |
| TB3 | Terminal Block <Transmission> | SS | Connector<For Option> | L1/L12/L13/N | Connection Terminal<L1/L2/L3/N-Power Supply> |
| TB7 | Terminal Block <Centralized Control> | CN3D | Connector<For Option> | L01/L02/L03/NO | Connection Terminal<L1/L2/L3/N-Power Supply> |
| MC | Motor for Compressor | CN3S | Connector<For Option> | CNAC1 | Connector<To Transmission Power Board> |
| MF1,MF2 | Fan Motor | CN3N | Connector<For Option> | CNAC2 | Connector<To Multi Controller Board> |
| 21S4 | Solenoid Valve<Four way valve> | CN51 | Connector<For Option> | CNCT | Connector<To Power Circuit Board> |
| SV1 | Solenoid Valve-Bypass valve> | X501-505 | Relay | CNL | Connector<To Reactor> |
| TH3 | Thermistor<Outdoor Pipe Temperature> | CONV.B. | Converter Circuit Board | FUSE | Fuse<6.3A> |
| TH4 | Thermistor<Discharge Temperature> | L1-A1,L1-IN | Connection Terminal<L1-Power Supply> | M-P.B. | Transmission Power Board |
| TH6 | Thermistor<Low Pressure Saturated Temperature> | L1-A2,L1-OU | Connection Terminal<L1-Power Supply> | CN1 | Connector<To Noise Filter Circuit Board> |
| TH7 | Thermistor<Outdoor Temperature> | L2-A2,L2-OU | Connection Terminal<L2-Power Supply> | CN2 | Connector<To Multi Controller Board> |
| 63HS | High Pressure Sensor<Discharge Pressure> | L3-A2,L3-OU | Connection Terminal<L3-Power Supply> | | |
| 63H | High Pressure Switch | N-IN | Connection Terminal | | |
| 63L | Low Pressure Switch | CK-OU | Connection Terminal | | |
| CB1,CB2 | Main Smoothing Capacitor | CN7 | Connector<To Power Circuit Board> | | |
| CK | Capacitor | | | | |
| RS | Rush Current Protect Resistor | | | | |
| ACL1-ACL4 | Reactor | | | | |
| P.B | Power Circuit Board | | | | |
| TB-U/V/W | Connection Terminal-U/V/W-Phase> | | | | |
| TB-L1/L2/L3 | Connection Terminal<L1/L2/L3-Power Supply> | | | | |
| TB-P2 | Connection Terminal | | | | |
| TB-C1 | Connection Terminal | | | | |
| TB-N1 | Connection Terminal | | | | |
| CN2 | Connection <To Multi Controller Board> | | | | |
| CN4 | Connection <To Multi Controller Board> | | | | |
| CN5 | Connection <To Noise Filter Circuit Board> | | | | |
| CNDC | Connection <To Multi Controller Board> | | | | |
| MULTI.B. | Multi Controller Board | | | | |
| F1,F2 | Fuse<6.3A> | | | | |
| F500 | Fuse<3A> | | | | |
| SW1 | Switch<Display Selection> | | | | |
| SW2 | Switch<Function Selection> | | | | |
| SW3 | Switch<Test Run> | | | | |
| SW4 | Switch<Model Selection> | | | | |
| SW5 | Switch<Function Selection> | | | | |
| SW6 | Switch<Function Selection> | | | | |
| SW7 | Switch<Function Selection> | | | | |
| SW8 | Switch<Function Selection> | | | | |
| SWU1 | Switch<Unit Address Selection, 1st digit> | | | | |
| SWU2 | Switch<Unit Address Selection, 2nd digit> | | | | |
| TRANS | Transformer | | | | |
| LED1,2 | Digital Indicator<Operation Inspection Display> | | | | |
| LED3 | LED<Power Supply to Main Microcomputer> | | | | |
| CNS1 | Connector<Multi System> | | | | |
| CNS2 | Connector<Centralized Control> | | | | |
| CNAC | Connector<To Noise Filter Circuit Board> | | | | |
| CNDC | Connector<To Noise Filter Circuit> | | | | |
| CN2 | Connector<To Power Circuit Board> | | | | |
| CN4 | Connector<To Power Circuit Board> | | | | |
| CN40 | Connector<Centralized Control Power Supply> | | | | |
| CN41 | Connector<For storing Jumper Connector> | | | | |
| TH3 | Connector<Thermistor> | | | | |
| TH4 | Connector<Thermistor> | | | | |
| TH7/6 | Connector<Thermistor> | | | | |
| 63HS | Connector<High Pressure Sensor> | | | | |
| 63H | Connector<High Pressure Switch> | | | | |
| 63L | Connector<Low Pressure Switch> | | | | |
| CNF1,CNF2 | Connector<Fan Motor> | | | | |
| 21S4 | Connector<Four-way Valve> | | | | |



*1 MODEL SELECT 1:ON 0:OFF

| MODELS | SW4 |
|--------------|-------------|
| | 1 2 3 4 5 6 |
| PUMY-P100YHM | 1 1 0 0 1 0 |
| PUMY-P125YHM | 1 1 0 0 0 1 |
| PUMY-P140YHM | 1 1 1 0 0 1 |

Cautions when Servicing

- ⚠ **WARNING:** When the main supply is turned off, the voltage [540 V] in the main capacitor will drop to 20 V in approx. 5 minutes (input voltage: 380 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 5 minute. Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:

- Refer to the wiring diagrams of the indoor units for details on wiring of each indoor unit.
 - Self-diagnosis function
 - The indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit.
 - LED indication : Set all contacts of SW1 to OFF.
 - During normal operation
 - The LED indicates the drive state of the controller in the outdoor unit.

[Example]
When the compressor and SV1 are turned during cooling operation.

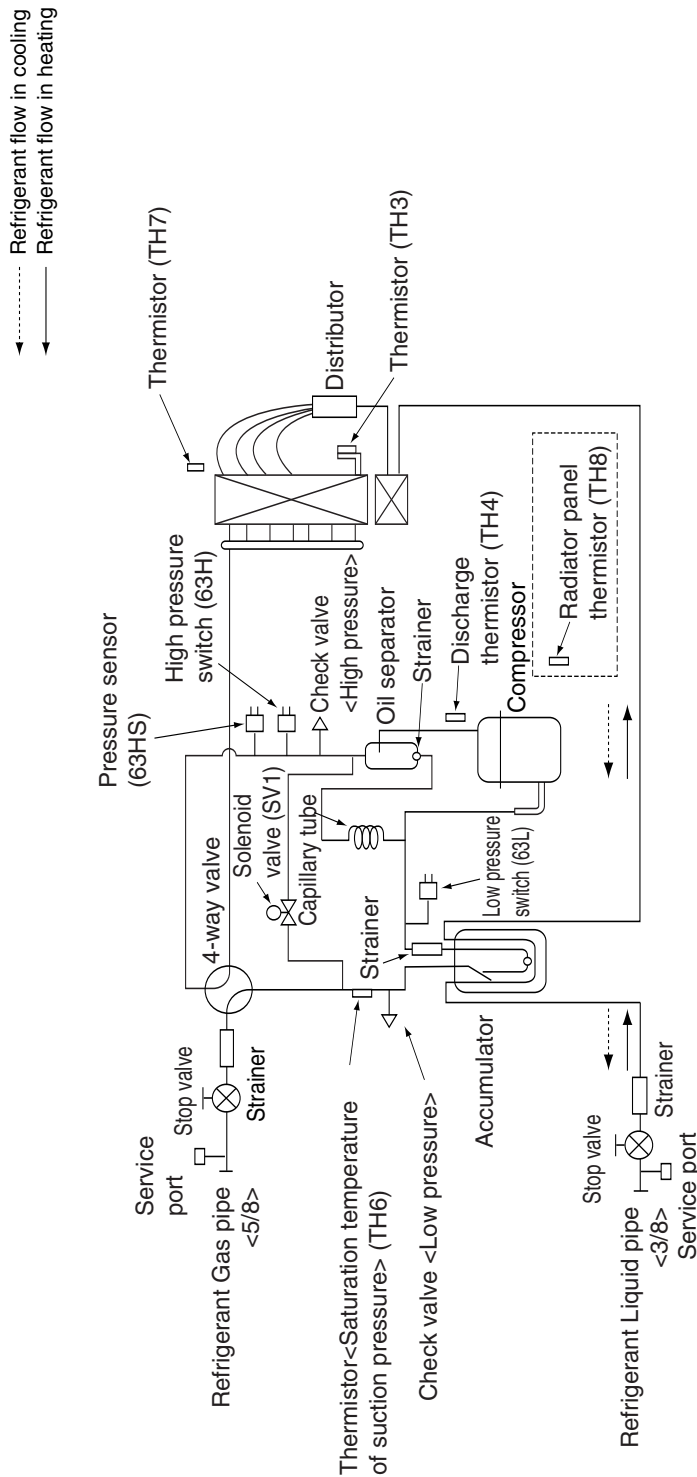
| Bit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------|---------------------|-----|------|-----|-------|---|---|------------|
| Indication | Compressor operated | 52C | 21S4 | SV1 | (SV2) | — | — | Always lit |



When fault requiring inspection has occurred
The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

PUMY-P100,125,140YHM

Drw. : RC_VBN-050092



Refrigerant piping specifications <dimensions of flared connector>

| Capacity | Item | Liquid piping | Gas piping |
|--------------|------------------------------|--------------------|---------------------|
| Indoor unit | P20, P25, P32, P40, P50 | φ 6.35 <1/4">Flare | φ 12.7 <1/2">Flare |
| | P63, P80, P100 P125, P140 | φ 9.52 <3/8">Flare | φ 15.88 <5/8">Flare |
| Outdoor unit | P100, P125, P140 | φ 9.52 <3/8">Flare | φ 15.88 <5/8">Flare |

Y

R2

WY

WR2

S

OP

CITY MULTI™**Optional Parts for PUHY,PURY-P-YGM/YSGM
PQHY,PQRY-P-YSGM
PUMY-P-YHM**

| | |
|---|---------|
| 1. JOINT for PUHY,PURY,PQHY,PQRY-P-YGM/YSGM | OU-Op-2 |
| 2. HEADER for PUHY,PURY,PQHY,PQRY-P-YGM/YSGM | OU-Op-3 |
| 3. JOINT KIT CMY-R160-J FOR BC CONTROLLER | OU-Op-4 |
| 4. HIGH STATIC PRESSURE MOTOR PAC-KBU04MT-F for PUHY,PURY-P-YGM/YSGM | OU-Op-5 |
| 5. JOINT for PUMY-P-YHM | OU-Op-6 |
| 6. HEADER for PUMY-P-YHM | OU-Op-7 |

Y

R2

WY

WR2

S

OP

1. JOINT for PUHY,PURY,PQHY,PQRY-P-YGM/YSGM

R410A Data G2

Piping for CITY MULTI™ can be easily done with Joints and Headers provided by MITSUBISHI ELECTRIC CORP.. There are 4 sets of Joints selectable for piping. Details for applying the Joint sets are referable to System Design 3, or their own Installation Manual.

CMY-Y102S-G Ref.: W901632
mm

For gas pipe: For liquid pipe:

<Deformed pipe(Accessory)> <Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter

CMY-Y102L-G1 Ref.: W901633
mm

For gas pipe: For liquid pipe:

<Deformed pipe(Accessory)> <Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter

CMY-Y202-G1 Ref.: W901634
mm

For gas pipe: For liquid pipe:

<Deformed pipe(Accessory)> <Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter

CMY-Y302-G1 Ref.: W901635
mm

For gas pipe: For liquid pipe:

<Deformed pipe(Accessory)> <Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter

2. HEADER for PUHY,PURY,PQHY,PQRY-P-YGM/YSGM

R410A Data G2

Piping for CITY MULTI™ can be easily done with Joints and Headers provided by MITSUBISHI ELECTRIC CORP.. There are 3 sets of Headers selectable for piping. Details for applying the Header sets are referable to System Design 3, or their own Installation Manual.

CMY-Y104-G Ref.: W901636
mm

For gas pipe:

<Deformed pipe(Accessory)>

For liquid pipe:

<Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter
NOTE: Besides above mentioned accessories, caps for pipe of φ 6.35, φ 9.52, φ 12.7, φ 15.88 (each diameter 1 piece) are included in the Header set.

CMY-Y108-G Ref.: W901637
mm

For gas pipe:

<Deformed pipe(Accessory)>

For liquid pipe:

<Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter
NOTE: Besides above mentioned accessories, caps for pipe of φ 6.35, φ 9.52, φ 12.7, φ 15.88 (each diameter 2 pieces) and 1 cap for pipe of φ 19.05 are included in the Header set.

CMY-Y1010-G Ref.: W901638
mm

For gas pipe:

<Deformed pipe(Accessory)>

For liquid pipe:

<Deformed pipe(Accessory)>

ID: Inner Diameter OD: Outer Diameter
NOTE: Besides above mentioned accessories, caps for pipe of φ 6.35, φ 9.52, φ 12.7, φ 15.88 (each diameter 2 pieces) and 1 cap for pipe of φ 19.05 are included in the Header set.

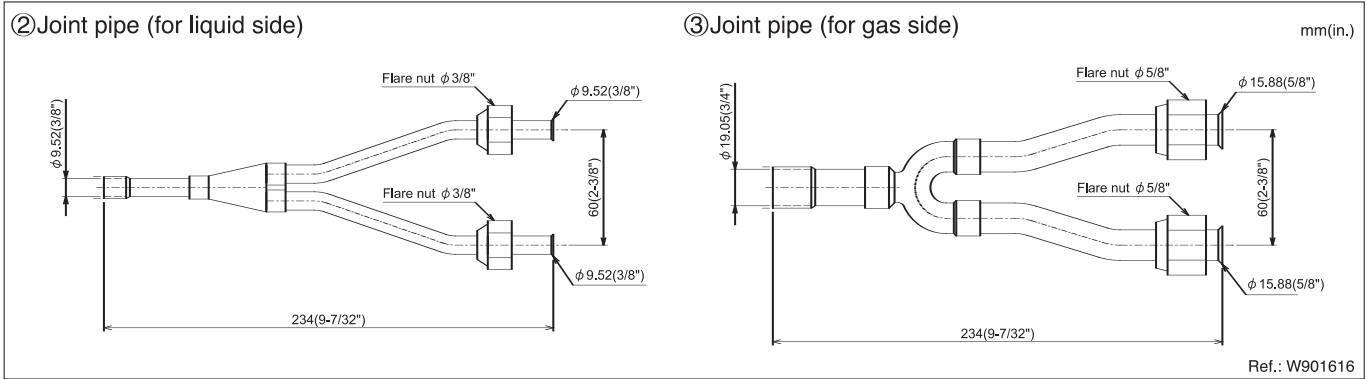
3. JOINT KIT CMY-R160-J FOR BC CONTROLLER

Joint kit "CMY-R160-J" for BC controller is used to combine 2 ports of the BC controller at a PURY-P-YGM system so as to enable down-stream Indoor capacity above P141 as shown in Fig. 1.

The Joint kit include following items:

| | | | | | | | |
|------------------------------------|--|---------------------------------------|-------------------|------------------------------------|---------------------------------------|----------------|------------------|
| ① Instruction This sheet 1pc | ② Joint pipe (for liquid side) 1pc | ③ Joint pipe (for gas side) 1pc | ④ Cover 1 2pcs | ⑤ Cover 2 (for gas side) 1pc | ⑥ Cover 3 (for liquid side) 1pc | ⑦ Band 8pcs | ⑧ Reducer 1pc |
|------------------------------------|--|---------------------------------------|-------------------|------------------------------------|---------------------------------------|----------------|------------------|

Ref.: WT04350X01_01



Ref.: W901616

1. Designing CMY-R160-J to a PURY-P-YGM system

The maximum down-stream Indoor capacity for 1 port of BC controller is P140. When the down-stream Indoor capacity is above P140, Joint kit CMY-R160-J is needed to combined 2 ports of BC controller to enlarge the capacity, like Group 2 and 3 in Fig. 1.

Maximum 3 Indoor units are allowed to connect to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J.

When connecting Indoor units to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J, CMY-Y102S-G or CMY-Y104-G is applicable, like Group 1 and 2 in Fig. 1

Caution: Mixed cooling and heating mode at the same time for Indoor units connecting to 1 port or 2 combined ports is not available.

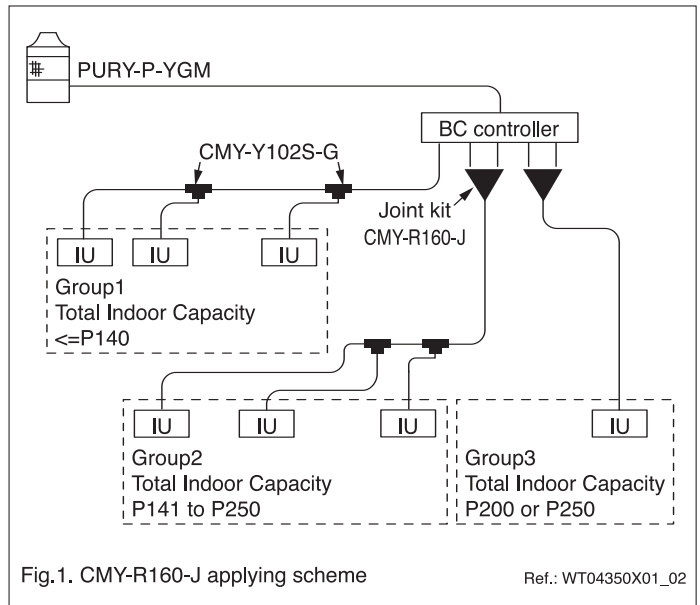


Fig.1. CMY-R160-J applying scheme

Ref.: WT04350X01_02

2. Piping at the installation site

The connection of CMY-R160-J to BC controller and pipe leading to Indoor units is referable to Fig. 2. Non-oxidized brazing is necessary. All piping must be careful to avoid foreign material getting inside.

After piping and air-tight testing, insulation work to the Joint and pipe should be done. Details is available at the Installation Manual.

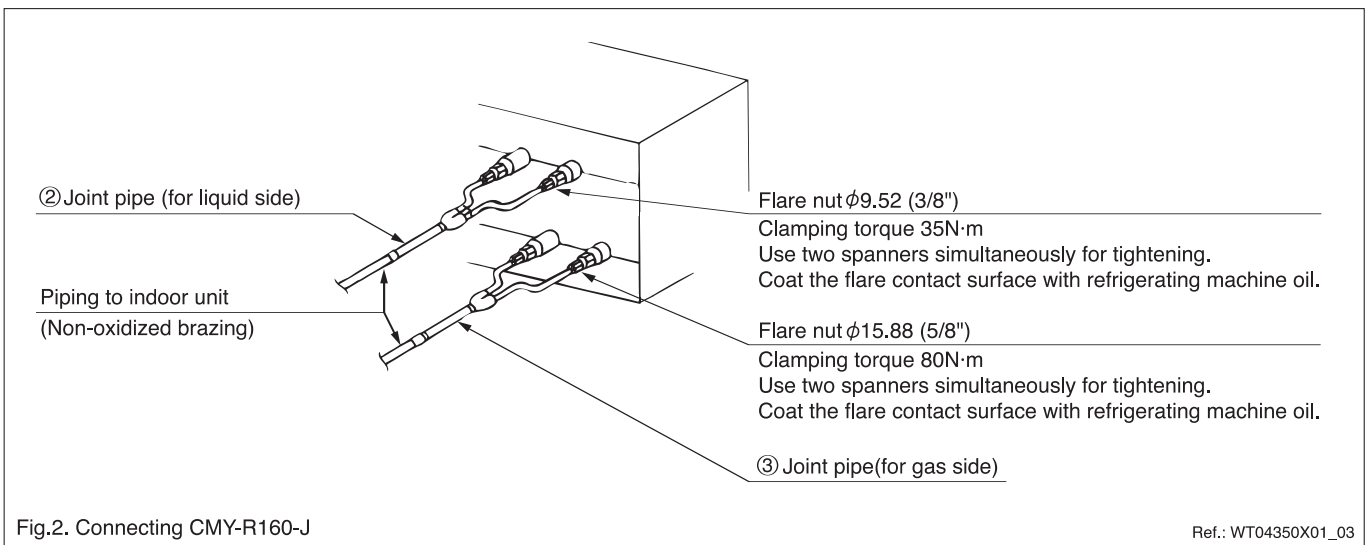


Fig.2. Connecting CMY-R160-J

Ref.: WT04350X01_03

With PAC-KBU04MT-F, the PUHY-P-YGM/YSGM, PURY-P-YGM outdoor unit will gain external 30Pa or 60Pa static pressure, which makes the outdoor unit exhausting design much easier to coordinate with the building situation.

1. Inside the package of PAC-KBU04MT-F, following items are enclosed together with the installation manual.

| ① Instruction | ② Motor | ③ Reinforcing plates | ④ Label | ⑤ Binder |
|---------------|---------|----------------------|---------|----------|
| | | | | |
| 1 | 1 | 2 | 1 | 1 |

2. Installing the high static pressure motor PAC-KBU04MT-F onto the outdoor unit.

2.1 You may order outdoor unit installed the optional PAC-KBU04MT-F instead of non-static pressure motor, and set the expected external static pressure at shipment, or change the motor by yourself at the field. For the details you need to talk to your provider.

2.2 In the case you change the motor, and set the expected static pressure at the field. Instruction 2.2a, 2.2b and 2.2c should be followed.

2.2a. Mounting the motor

- A. Remove the screw1, and remove the fan guard, referring to Fig.1.
- B. Remove the screw2, and remove the panel 1, referring to Fig.1.
- C. Remove the nut, and remove the propeller fan, referring to Fig.2.
- D. Remove the connector of the motor, referring to Fig.3.
- E. Remove the screw3 of the motor, and exchange the motor, referring to Fig.4.
- F. Connect the motor connectors.

Secure the connectors with a clamp below the motor base not directly exposed to rainwater, referring to Fig.5.

G. Remove the screw4 from both sides of the side panel and replace the side panel with the supplied reinforcing plates. referring to Fig.6. (Other than PUHN type)

- H. Put back the propeller fan, fan guard and panel in the reverse order from A-C. (Bind the nut tight with the torque of 20 N·m.)
- I. Attach the supplied label on the unit, referring to Fig.1.

2.2b. Switching for 30Pa or 60Pa static pressure

- ① Remove the Panel 2, referring to Fig.1.
- ② Remove the control box cover.
- ③ Set the DIPSW, which is on the front board in the control box, referring to the figure below.

(For the DIPSW location, refer to the wiring nameplate on the back of the outdoor unit.)

| | | |
|-------------|----------|----------|
| PURY-P-YGM | DIPSW3-9 | DIPSW5-1 |
| 30Pa | ON | ON |
| 60Pa | ON | OFF |
| PUHN-P01YGM | DIPSW7-1 | DIPSW7-4 |
| 30Pa | ON | ON |
| 60Pa | ON | OFF |

2.2c. Field work of 2.2a and 2.2b needs working space at the front and back of the outdoor unit. Enough working space should be considered for the field work of 2.2a and 2.2b. For example, upon corrective installation 20mm or the like interval is helpful.

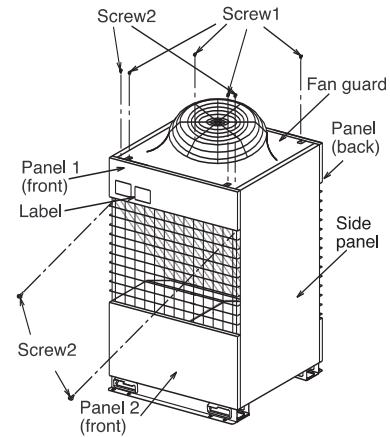


Fig.1

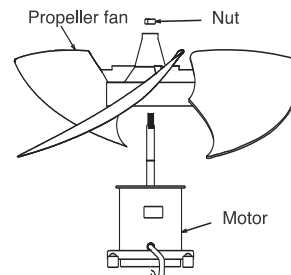


Fig.2

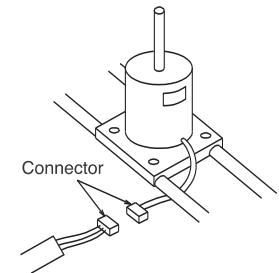


Fig.3

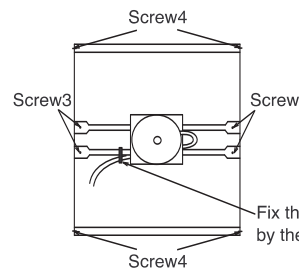


Fig.4 Top View

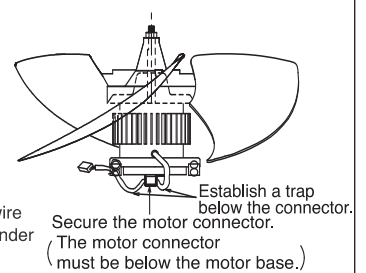


Fig.5

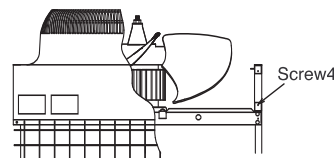


Fig.6 Front View

Piping for CITY MULTI™ can be easily done with Joints and Headers provided by MITSUBISHI ELECTRIC CORP.. There is 1 set of Joint selectable for piping. Details for applying the Joint sets are referable to System Design 3, or their own Installation Manual.

CMY-Y62-G

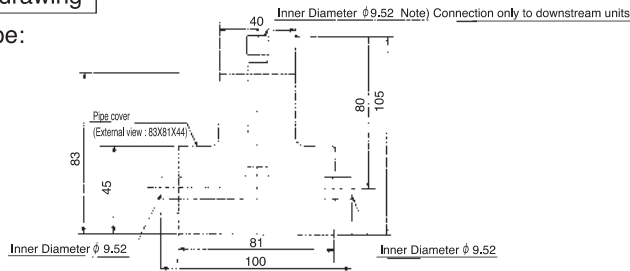
Ref.: 7FAGFA
mm

1. Specification

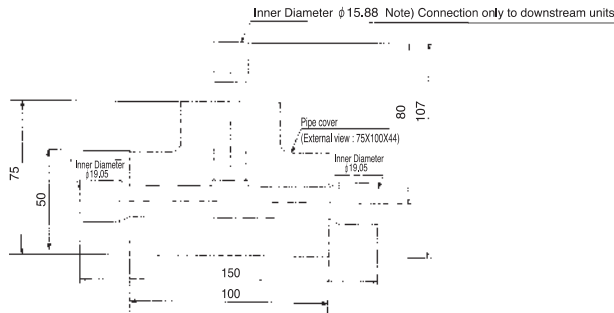
| Items | | Details |
|-----------|-------------------------|---|
| Main | Number of ports | 2 ports |
| | Number of branch joints | One for each liquid and gas pipe |
| | Pipe material | Phosphorus deoxidized copper C1220T-OL (JIS H3300) |
| Accessory | Insulation material | Foamed polyethylene (one for each liquid and gas pipe) |
| | Reducer | 10 reducers of 7 types (Refer to the external drawing for details.) |

2. External drawing

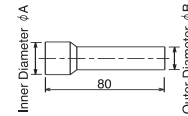
For liquid pipe:



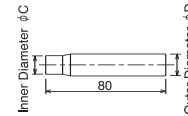
For gas pipe:



Reducer (Accessory):



| A (Inner Diameter) | B (Outer Diameter) | Number of reducers |
|--------------------|--------------------|--------------------|
| φ 12.7 | φ 9.52 | 2 |
| φ 19.05 | φ 15.88 | 1 |
| φ 22.22 | φ 19.05 | 1 |



| C (Inner Diameter) | D (Outer Diameter) | Number of reducers |
|--------------------|--------------------|--------------------|
| φ 6.35 | φ 9.52 | 2 |
| φ 12.7 | φ 15.88 | 1 |
| φ 12.7 | φ 19.05 | 1 |
| φ 15.88 | φ 19.05 | 2 |

Piping for CITY MULTI™ can be easily done with Joints and Headers provided by MITSUBISHI ELECTRIC CORP.. There are 2 sets of Headers selectable for piping. Details for applying the Header sets are referable to System Design 3, or their own Installation Manual.

CMY-Y64-G

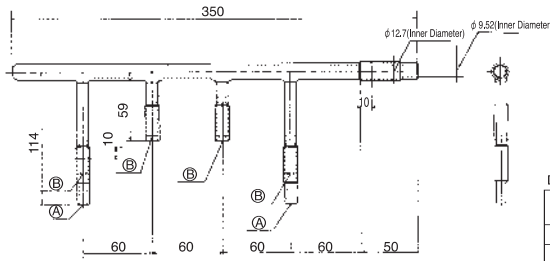
Ref.: 7FAGFB
mm

1. Specification

| | Items | Details |
|-----------|-------------------------|--|
| Main | Number of ports | 3 ~ 4 ports |
| | Number of branch joints | One for each liquid and gas pipe |
| | Pipe material | Phosphorus deoxidized copper C1220T-OL (JIS H3300) |
| Accessory | Insulation material | Foamed polyethylene |
| | Reducer | 7 reducers of 5 types |
| | Cap | 2 caps of 2 different types for each liquid and gas pipe 4 caps in total |

2. External drawing

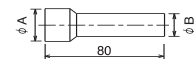
For liquid pipe:



Dimension table

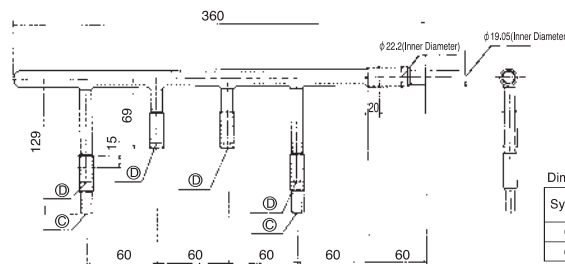
| Symbol | Inner Diameter (mm) |
|--------|---------------------|
| (A) | φ 6.35 |
| (B) | φ 9.52 |

Reducer (Accessory):



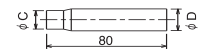
| A (Inner Diameter) | B (Outer Diameter) | Number of reducers |
|--------------------|--------------------|--------------------|
| φ 19.05 | φ 15.88 | 1 |
| φ 15.88 | φ 12.7 | 2 |
| φ 9.52 | φ 6.35 | 2 |

For gas pipe:



Dimension table

| Symbol | Inner Diameter (mm) |
|--------|---------------------|
| (C) | φ 12.7 |
| (D) | φ 15.88 |



| C (Inner Diameter) | D (Outer Diameter) | Number of reducers |
|--------------------|--------------------|--------------------|
| φ 15.88 | φ 19.05 | 1 |
| φ 9.52 | φ 12.7 | 1 |

CMY-Y68-G

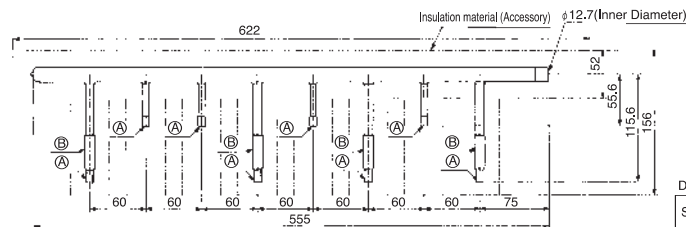
Ref.: 7FAGFC
mm

1. Specification

| | Items | Details |
|-----------|-------------------------|--|
| Main | Number of ports | 5 ~ 8 ports |
| | Number of branch joints | One for each liquid and gas pipe |
| | Pipe material | Phosphorus deoxidized copper C1220T-OL (JIS H3300) |
| Accessory | Insulation material | Foamed polyethylene |
| | Reducer | 3 reducers of 3 types |
| | Cap | 3 caps for each liquid and gas pipe 6 in total |

2. External drawing

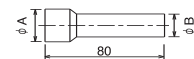
For liquid pipe:



Dimension table

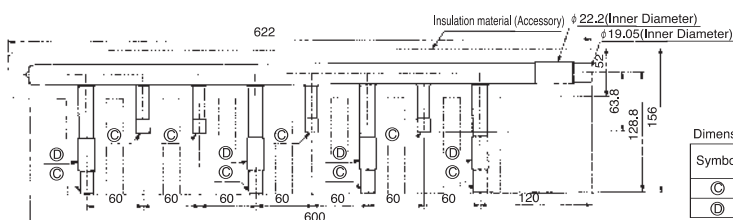
| Symbol | Inner Diameter (mm) |
|--------|---------------------|
| (A) | φ 6.35 |
| (B) | φ 9.52 |

Reducer (Accessory):



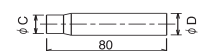
| A (Inner Diameter) | B (Outer Diameter) | Number of reducers |
|--------------------|--------------------|--------------------|
| φ 19.05 | φ 15.88 | 1 |
| φ 12.7 | φ 9.52 | 1 |

For gas pipe:



Dimension table

| Symbol | Inner Diameter (mm) |
|--------|---------------------|
| (C) | φ 12.7 |
| (D) | φ 15.88 |



| C (Inner Diameter) | D (Outer Diameter) | Number of reducers |
|--------------------|--------------------|--------------------|
| φ 15.88 | φ 19.05 | 1 |

Y

R2

WY

WR2

S

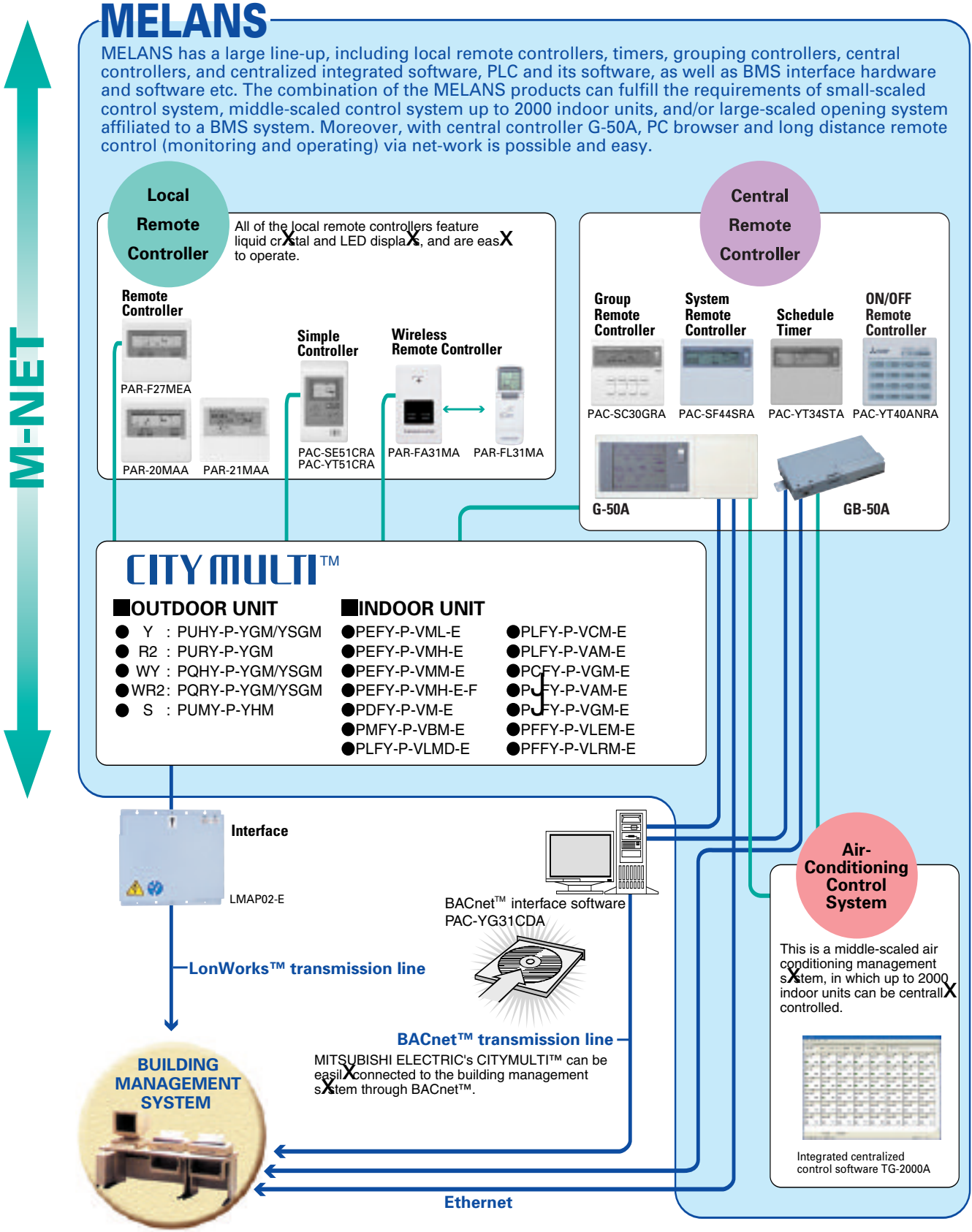
OP

CITY MULTI™

CONTROLLER

| | | |
|---|--------------|---------|
| 1. General introduction of MITSUBISHI ELECTRIC's Air-conditioner Network System. (MELANS) | | |
| 1-1. Function table of controllers | | Cntr-3 |
| 2. Local remote controller | | |
| 2-1. MA remote controller | PAR-20MAA | Cntr-4 |
| 2-2. MA remote controller | PAR-21MAA | Cntr-5 |
| 2-3. ME remote controller | PAR-F27MEA | Cntr-6 |
| 2-4. Simple ME controller | PAC-SE51CRA | Cntr-7 |
| 2-5. Simple MA controller | PAC-YT51CRA | Cntr-8 |
| 2-6. Wireless remote controller | PAR-FL31MA | Cntr-9 |
| | PAR-FA31MA | Cntr-9 |
| 2-7. LOSSNAY remote controller | PZ-52SF | Cntr-10 |
| 3. System remote controller | | |
| 3-1. Group remote controller | PAC-SC30GRA | Cntr-11 |
| 3-2. System remote controller | PAC-SF44SRA | Cntr-13 |
| 3-3. Schedule timer | PAC-YT34STA | Cntr-15 |
| 3-4. ON/OFF remote controller | PAC-YT40ANRA | Cntr-17 |
| 3-5. Central controller | G-50A | Cntr-19 |
| 3-6. Central controller | GB-50A | Cntr-26 |
| 3-7. Integrated centralized control software | TG-2000A | Cntr-33 |
| 3-8. Electric amount count software | PAC-YG11CDA | Cntr-37 |
| 3-9. PLC software for general equipment | PAC-YG21CDA | Cntr-38 |
| 3-10. BACnet™ interface | PAC-YG31CDA | Cntr-39 |
| 3-11. PLC software for demand input | PAC-YG41CDA | Cntr-40 |
| 3-12. Air conditioner interface | LMAPO2-E | Cntr-42 |
| 3-13. Power supply unit | PAC-SC50KUA | Cntr-44 |
| 3-14. Transmission booster | PAC-SF46EPA | Cntr-46 |
| 4. System component | | |
| 4-1. Outdoor unit input/output connector | | Cntr-49 |
| 4-2. Indoor unit "E" type input/output connector | | Cntr-51 |

MITSUBISHI ELECTRIC's Air-conditioner Network System (MELANS) leads air conditioner management a PC browser and Network era.



1-1. Function table of controllers

| Model | Local remote controller | | | | | System controller | | | | | | | | |
|--|-------------------------|-----------|------------|----------|----------|-------------------|----------|----------|----------|-----------------|------------------|----------|-------------|--|
| | PAR-20MAA | PAR-21MAA | PAR-F27MEA | PAC-YT51 | PAR-FL31 | PAC-YT40 | PAC-SC30 | PAC-SF44 | PAC-YT34 | G-50A | GB-50A | TG-2000A | | |
| Controllable Groups/Indoors (Group / Indoor) | 1 / 16 | 1 / 16 | 1 / 16 | 1 / 16 | 1 / 16 | 16 / 50 | 8 / 16 | 50 / 50 | 50 / 50 | 50 / 50 | 50 / 50 | 50 / 50 | 2000 / 2000 | |
| | | | | | | | | | | G-50A / Browser | GB-50A / Browser | | | |
| ■Operating | | | | | | | | | | | | | | |
| ON/OFF | O | O | O | O | O | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ▲ | ⊙ | |
| Mode(cool/heat/dry/fan) | O | O | O | N | O | N | ⊙ | ⊙ | N | ⊙ | ⊙ | N | ⊙ | |
| Temperature-set | O | O | O | O | O | N | ⊙ | ⊙ | N | ⊙ | ⊙ | N | ⊙ | |
| Local Permit-Prohibit | N | N | N | N | N | N | N | ⊙ | ⊙ | ⊙ | ⊙ | N | ⊙ | |
| Fan speed | O | O | O | O | O | N | ⊙ | ⊙ | N | ⊙ | ⊙ | N | ⊙ | |
| Air-flow direction | O | O | O | N | O | N | ⊙ | ⊙ | N | ⊙ | ⊙ | N | ⊙ | |
| ■Status monitoring | | | | | | | | | | | | | | |
| ON/OFF | O | O | O | O | O | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ▲ | ⊙ | |
| Mode(cool/heat/dry/fan) | O | O | O | O | O | N | O | O | N | O | O | N | O | |
| Temperature-set | O | O | O | O | O | N | O | O | N | O | O | N | O | |
| Local Permit / Prohibit | O | O | O | O | O | O | O | O | O | O | O | N | O | |
| Fan speed | O | O | O | O | O | N | O | O | N | O | O | N | O | |
| Air-flow direction | O | O | O | N | O | N | O | O | N | O | O | N | O | |
| Indoor temperature | O | O | O | N | N | N | O | N | N | O | O | N | O | |
| Filter sign | O | O | O | N | N | N | O | O | N | O | O | N | O | |
| Error flashing | O | O | O | O | O | O | O | O | O | O | O | ▲ | O | |
| Error code | O | O | O | O | N | O | O | O | O | O | O | N | O | |
| Operation hour | N | N | N | N | N | N | N | N | N | N | N | N | ● | |
| ■Scheduling | | | | | | | | | | | | | | |
| One-day | N | O | O | N | N | N | N | N | N | N | ● | N | ● | |
| Times of ON/OFF per day | N | 8 | 1/1 | N | 1/1 | N | N | N | 16 | 3/3 | 12 | N | 12 | |
| Weekly | N | O | N | N | N | N | N | N | O | O | ● | N | ● | |
| Times of ON/OFF per week | N | 8x7 | N | N | N | N | N | N | 16x7 | 21/21 | 12x7 | N | 12x7 | |
| Annual | N | N | N | N | N | N | N | N | N | N | ● | N | ● | |
| Auto-off timer | N | O | O | N | N | N | N | N | N | N | N | N | N | |
| Min. timer setting unit (minute) | N | 1 | 10 | N | 10 | N | N | N | 5 | 10 | 1 | N | 1 | |
| ■Recording | | | | | | | | | | | | | | |
| Error record | N | N | N | N | N | N | O | O | N | O | O | N | O | |
| Daily/monthly report | N | N | N | N | N | N | N | N | N | N | N | N | O | |
| Electricity charge | N | N | N | N | N | N | N | N | N | N | N | N | ● | |
| ■Other | | | | | | | | | | | | | | |
| Temperature-set limitation | N | O | O | N | N | N | N | △ | N | N | O*2 | N | O*2 | |
| Auto-lock | N | O | O | N | N | N | N | N | N | N | N | N | N | |
| ■Management (Group/Interlocked) | | | | | | | | | | | | | | |
| Ventilation interlock | N/O | N/O | N/O | N | N | O | N/O | O | O | O | O/O*2 | N | O/O*2 | |
| Group setting | O*1 | O*1 | O | N | N | O | O | O | O | O | O*2 | N | O*2 | |
| Block setting | N | N | N | N | N | N | N | N | N | N | O*2 | N | O*2 | |
| Revision of electricity charge | N | N | N | N | N | N | N | N | N | N | N | N | ■● | |
| ■Operating on LOSSNAY interlocked (Group/Interlocked) | | | | | | | | | | | | | | |
| ON/OFF | NU/O | N/O | N/O | N/O | NU/O | ⊙/⊙*3 | NU/⊙ | ⊙/⊙ | ⊙/⊙ | ⊙/⊙ | ⊙/⊙ | ▲/▲ | ⊙/⊙ | |
| Fan speed | NU/O | N/O | N/O | N | NU/N | N | NU/O | ⊙/⊙ | N | ⊙/⊙ | ⊙/⊙ | N/N | ⊙/⊙ | |
| Ventilation mode | NU/N | N | N | N | NU/N | N | NU/N | ⊙/N | N | ⊙/N | ⊙/N | N/N | ⊙/N | |
| ■Status monitoring on LOSSNAY interlocked (Group/Interlocked) | | | | | | | | | | | | | | |
| ON/OFF | NU/O | N/O | N/O | N | NU/N | N | NU/O | O/O | O/O | ⊙/⊙ | ⊙/⊙ | ▲/▲ | ⊙/⊙ | |
| Fan speed | NU/O | N/O | N/O | N | NU/N | N | NU/O | O/O | N | O/O | O/O | N/N | O/O | |
| Ventilation mode | NU/N | N | N | N | NU/N | N | NU/N | O/N | N | O/N | O/N | N/N | O/N | |

⊙: Each group / Batched; O: Each group; ■: Block (for CITY MULTI™ Indoor unit, not for all Mr.SLIM); ●: G-50A license registration possible.
 N: Not Available; NU: Not Used. △: Batched only; ▲: Batched handling (for maintenance)

*1. Group setting via wiring between Indoor units with cross-over cable;

*2. Installation possible at Initial setting web browser;

*3. Inter-lock is set at Local remote controller.

LOSSNAY remote controller PZ-52SF

| | |
|---|----|
| ■Controllable LOSSNAY Groups | 1 |
| ■Controllable LOSSNAY unit | 16 |
| ■Operating | |
| ON/OFF | O |
| Mode (automatic ventilation/vent-heat interchange/normal ventilation) | O |
| Local Permit-Prohibit | N |
| Fan speed | O |
| Air-flow direction | N |
| ■Scheduling | |
| | N |
| ■Recording | |
| | N |
| ■Management | |
| Group setting | O |
| Block setting | N |

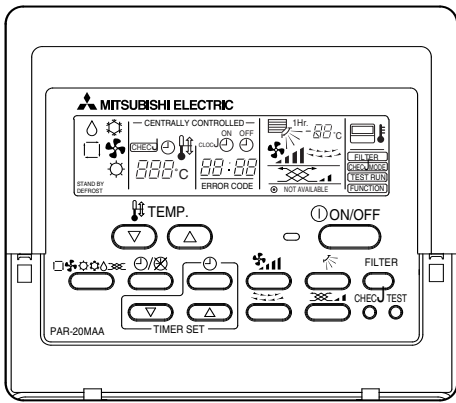
O: Each group, N: Not Available

| | |
|---|---|
| ■Status monitoring | |
| ON/OFF | O |
| Mode (automatic ventilation/vent-heat interchange/normal ventilation) | O |
| Local Permit-Prohibit | O |
| Fan speed | O |
| Ari-flow direction | N |
| Filter sign | O |
| Error flashing | O |
| Error code | O |

Air conditioner control system interface

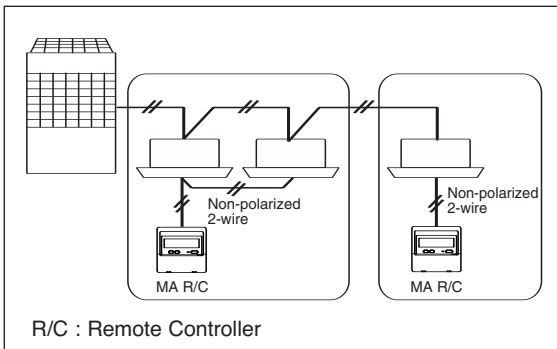
LMAP02:
 Controllable up to 50 Groups/ 50 Indoor, Details refer to its description.
PAC-YG31CDA:
 Controllable up to 500 Groups/ 500 Indoor, Details refer to its description.

2-1. MA remote controller
PAR-20MAA

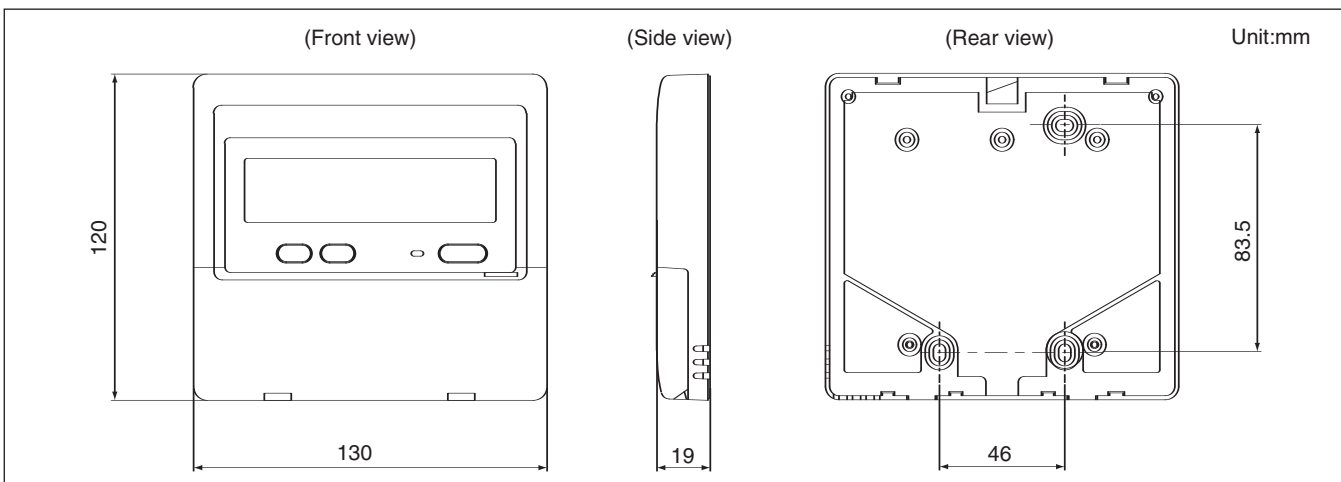


- Group operation is possible without requiring address setting.
- Usable as the local remote controller for System Controller.
- Remote controller automatically judges the function required for indoor unit such as vane/louver selection.
 - () For group operation, cross-over wiring is required between indoor units.
 - () Combined use with ME remote controller (PAR-F27MEA, Simple ME remote controller, LOSSNAY remote controller) can not be conducted inside a group.

■ System example



■ External dimension

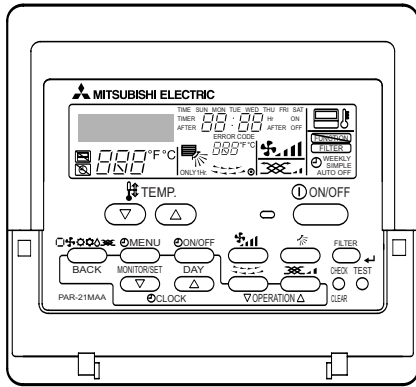


■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ✕:Not available

| Item | Description | Operations | Display |
|---|---|------------|---------|
| ON/OFF | Run and stop operation for a single group | ○ | ○ |
| Operation mode switching | Switches between Cool / Dr X Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the Cit X Multi R2 and WR2 series on X | ○ | ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/Dr X : 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) () in case of using middle-temperature indoor unit. | ○ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low | ○ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 50% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model. | ○ | ○ |
| Timer operation | One ON/OFF setting can be set for one da X | ○ | ○ |
| Permit / Prohibit local operation | Individual X prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). *1: When the local remote controller inactivation command is received from the master s X tem controller, "- CENTRALLY CONTROLLED -" is displa X d. | ✕ | *1 ○ |
| Prohibition/permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited) | B X the setting from s X tem Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dr X Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dr X Auto | ✕ | ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit when the indoor unit is operating. | ✕ | ○ |
| Error | When an error is currentl X occurring on an air conditioner unit, the afflicted unit and the error code are displa X d. | ✕ | □ |
| Test run | This operates air conditioner units in test run mode. | ○ | ○ |
| Ventilation equipment | Up to 15 indoor units can be connected to an interlocke X d s X tem that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available. | ○ | ○ |

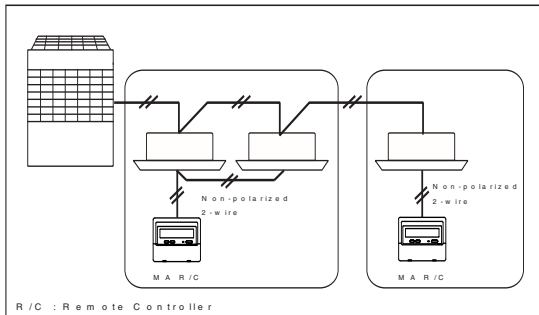
2-2. MA remote controller
PAR-21MAA



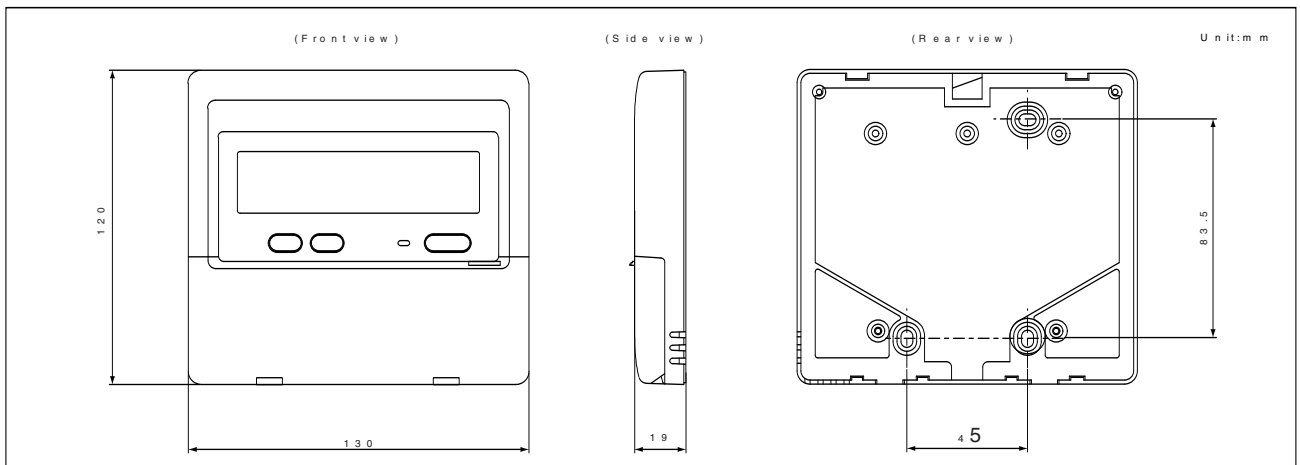
- High-quality pure-white color body and light-green display.
- Dot liquid-crystal display is applied.
- Symbols, Japanese, Chinese, English, German, Spanish, Russian, Italian, French display can be selected freely.
- Connectable to all CITY MULTI™ indoor unit, and automatically adjust its function with the indoor unit connected.
- Limiting temperature setting range is possible. Help to avoid over-cooling or over-heating. Save energy.
- Auto-stop timer is available. Help to avoid forgetting to stop the air conditioner.
- Weekly scheduler is available. ON/OFF/Temperature setting 8 times per day scheduling.
- Grouping via cross-over wire direct.
- Usable as the local remote controller for system controller (MELANS).

* Combining M E remote controller and/or LOSSNAY remote controller in a group is not possible.

System example



External dimension

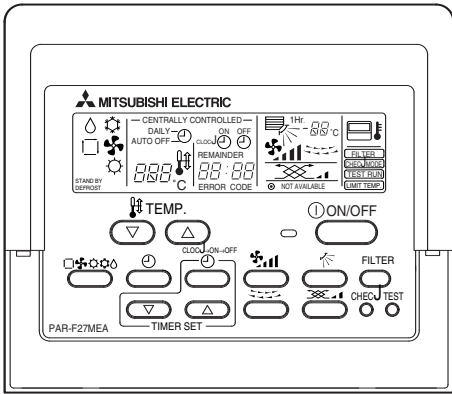


Functions

□ Each unit ○ Each group ● Each block
△ Each floor ⊙ Collective ✕ Not available

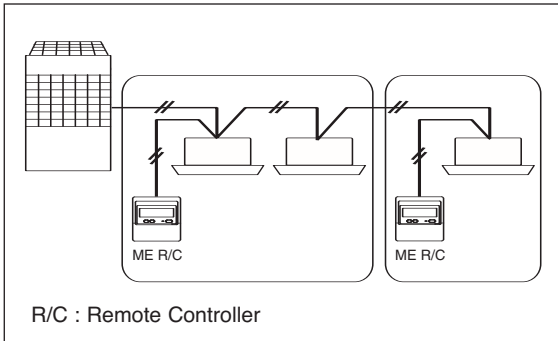
| Item | Description | Operations | Display |
|---|---|------------|---------|
| ON/OFF | Run and stop operation for a single group | ○ | ○ |
| Operation mode switching | Switches between Cool/DrX/Auto/Fan/Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the CITY MULTI R2 and W R2 series only. | ○ | ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/DrX : 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) | ○ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: H/M/Id-2/M/Id-1/Low Models with 3 air flow speed settings: H/M/Id/Low Models with 2 air flow speed settings: H/Low | ○ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 5% - 40% - Swing, Louver ON/OFF Air flow direction settings vary depending on the model. | ○ | ○ |
| Weekly scheduler | ON/OFF/Temperature setting can be done up to 8 times a day in the week. The time can be set by the minute. | ○ | ○ |
| Permit/Prohibit local operation | Individual prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). * : When the local remote controller inactivation command is received from the master system controller, is displayed. | ✕ | ○* |
| Prohibition/permission of specified mode (Cooling prohibited / Heating prohibited / Cooling-heating prohibited) | By the setting from the System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, DrX Auto. At heating prohibited : Heat, Auto. At cooling-heating prohibited : Cool, Heat, DrX Auto | ✕ | ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit when the indoor unit is operating. | ✕ | ○ |
| Error | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. | ✕ | □ |
| Test run | This operates air conditioner units in test run mode. | ○ | ○ |
| Ventilation equipment | Up to 15 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are 'Hi' 'Low' 'Stop'. Ventilation mode switching is not available. | ○ | ○ |
| Function to limit the setting range of room temperature (Set temperature range limit) | The range of room temperature setting can be limited by the initial setting. The lowest limit temperature can be made higher than the usual (19°C) at cooling/drxing, while the upper limit temperature is lower than the usual (28°C) at heating. | ○ | ○ |
| Easy-to-operate simplified locking function (Auto lock function) | Setting/releasing of simplified locking for remote control switch can be performed. - Locking of all switches - Locking of all switches except Start/Stop switch | ○ | ○ |

2-3. ME remote controller
PAR-F27MEA



- Three timer modes are prepared by enriching the timer function. The timer mode can selectively be used depending on the application configuration.
- The range of room temperature setting can be limited by the initial setting. By setting the room temperature range narrower than usual setting, cooling/heating operation with excessive temperature can be prevented thus saving energy easily.
- Equipped with simplified button locking function.

■ System example

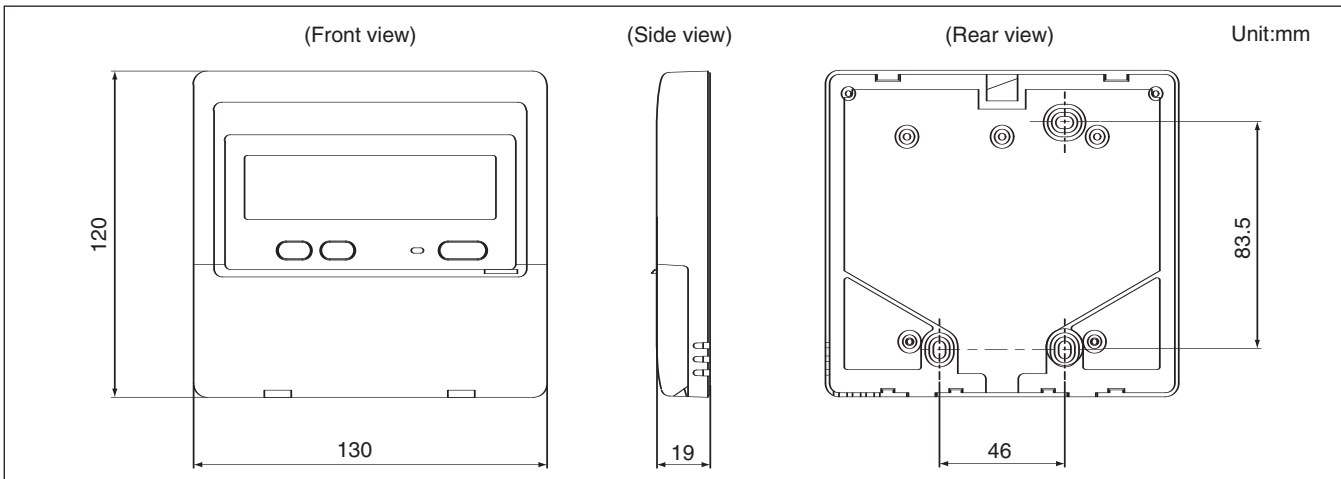


■ Functions

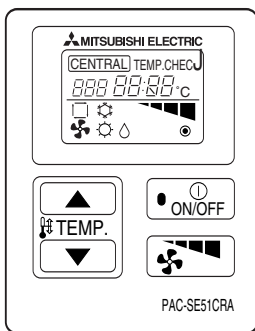
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

| Item | Description | Operations | Display |
|---|--|------------|---------|
| ON/OFF | Run and stop operation for a single group | ○ | ○ |
| Operation mode switching | Switches between Cool / Dr / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the Multi R2 and WR2 series only. | ○ | ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/Dr: 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) () in case of using middle-temperature indoor unit. | ○ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low | ○ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 50% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model. | ○ | ○ |
| Permit / Prohibit local operation | Individual prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). *1: When the local remote controller inactivation command is received from the master system controller, "CENTRALLY CONTROLLED -" is displayed. | × | *1 ○ |
| Prohibition/permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited) | When the setting from the system controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dr, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dr, Auto | × | ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit when the indoor unit is operating. | × | ○ |
| Error | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. | × | □ |
| Timer operation | Thanks to the three timer modes equipped, a proper mode can be selected to meet the usage. One day timer : ON/OFF setting of one time on one day can be applied. Daily timer : ON/OFF setting by the one day timer can be repeated for every day. Auto OFF timer : OFF timer can be set in a range from 30 minutes to 4 hours. *Setting of Auto OFF timer automatically activates OFF timer at the next operation. This function can be utilized to prevent the negligence of OFF setting. | ○ | ○ |
| Test run | This operates air conditioner units in test run mode. | ○ | ○ |
| Ventilation equipment | Up to 5 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available. | ○ | ○ |
| Function to limit the setting range of room temperature (Set temperature range limit) | The range of room temperature setting can be limited by the initial setting. The lowest limit temperature can be made higher than the usual (19°C) at cooling/dr, while the upper limit temperature lower than the usual (28°C) at heating. | ○ | ○ |
| Easy-to-operate simplified locking function (Auto locking function) | Setting/releasing of simplified locking for remote control switch can be performed. - Locking of all switches - Locking of all switches except Start/Stop switch | ○ | ○ |

■ External dimension



2-4. Simple ME controller PAC-SE51CRA



- To simplify operation of the system, the range of controls has been limited to temperature and fan speed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensor is built-in to the unit. The indoor unit can be replaced this with the body thermostat.

※: This equipment does not have functions such as operation mode switching, test run mode, self checking ability and settings for interlocking. Therefore, always use this equipment together with a PAR-F27MEA or other system controller.

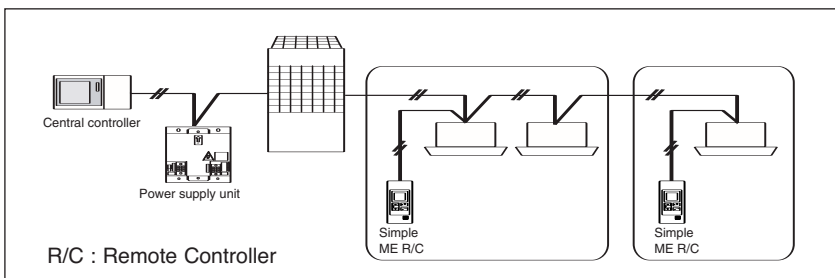
※: Combined use with MA remote controller (PAR-20MAA) can not be conducted inside a group.

■ Functions

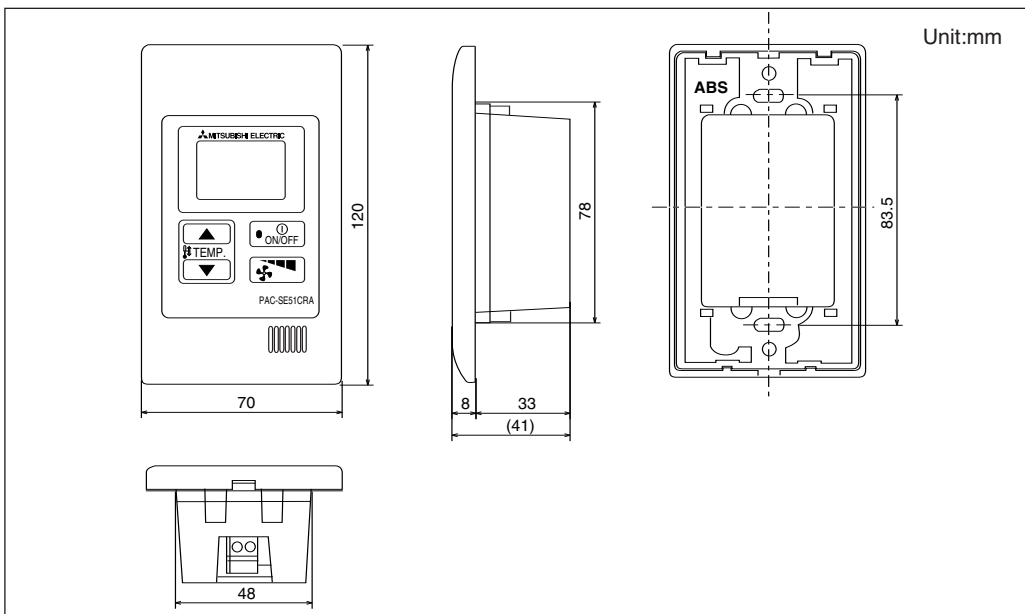
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

| Item | Description | Operations | Display |
|---|--|------------|---------|
| ON/OFF | Run and stop operation for a single group | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only. | × | ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) <small>() in case of using middle-temperature indoor unit.</small> | ○ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 2 air flow speed settings: Hi/Low | ○ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model. | × | × |
| Timer operation | Not available | × | × |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (Start/Stop, Set temperature). 1: When the local remote controller inactivation command is received from the master system controller, "CENTRALLY CONTROLLED -" is displayed. | × | 1 ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating. | × | × |
| Error | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. | × | □ |
| Test run | This operates air conditioner units in test run mode. 2: The display for test run mode will be the same as for normal start/stop (no display "test run"). | × | 2 ○ |
| Ventilation equipment | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. | × | × |
| Function to limit the setting range of room temperature (Set temperature range limit) | The range of room temperature setting can be limited by the initial setting. The lowest limit temperature can be made higher than the usual (19°C) at cooling/drying, while the upper limit temperature lower than the usual (28°C) at heating. This function is available only when applying together with TG-2000A and G-50A. | ○ | ○ |

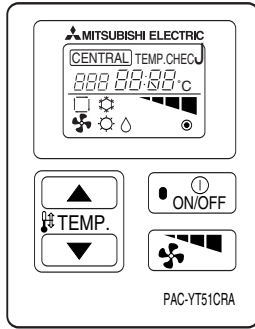
■ System example



■ External dimension



2-5. Simple MA controller
PAC-YT51CRA



- To simplify operation of the system, the range of controls has been limited to temperature and fan speed.
- The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensor is built-in to the unit. The indoor unit can be replaced this with the body thermostat.

*: This equipment does not have functions such as operation mode switching, test run mode, self checking ability and settings for interlocking. Therefore, always use this equipment together with a PAR-20MAA or other system controller.

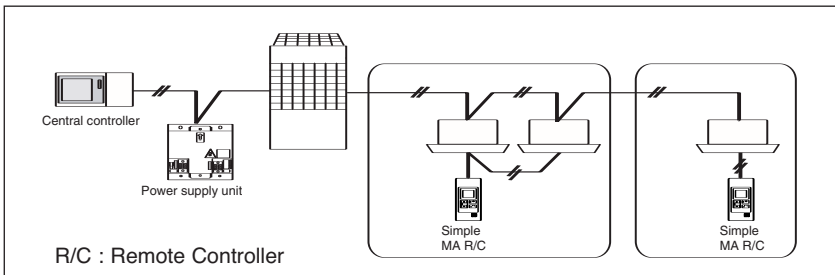
*: Combined use with ME remote controller (PAR-F27MEA) can not be conducted inside a group.

■ Functions

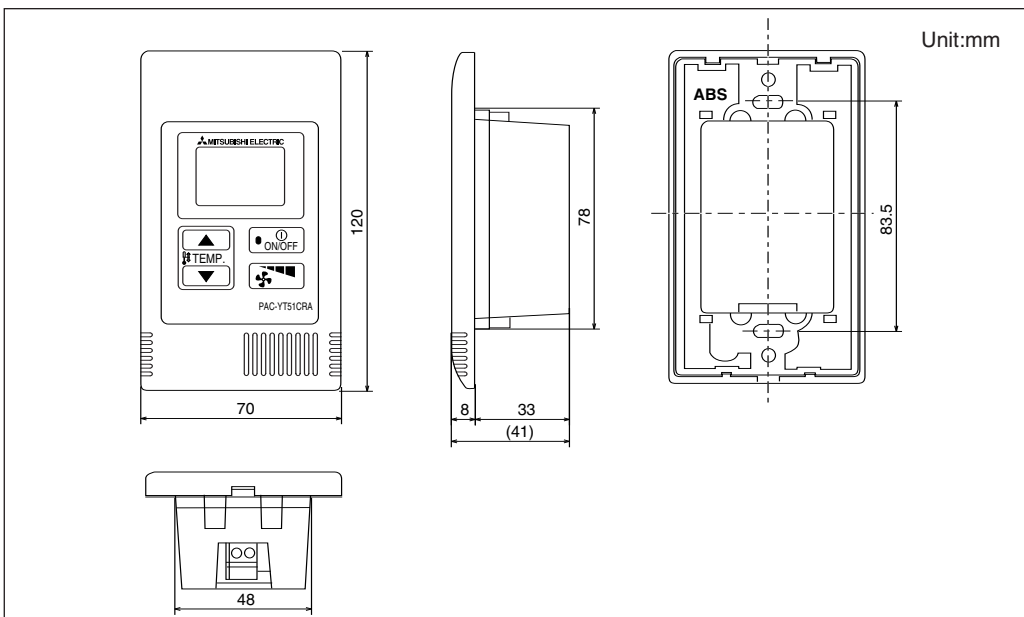
□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

| Item | Description | Operations | Display |
|-----------------------------------|--|------------|----------------|
| ON/OFF | Run and stop operation for a single group | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only. | × | ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) () in case of using middle-temperature indoor unit. | ○ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low | ○ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model. | × | × |
| Timer operation | Not available | × | × |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (Start/Stop, Set temperature). 1: When the local remote controller inactivation command is received from the master system controller, "CENTRALLY CONTROLLED -" is displayed. | × | ○ ¹ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating. | × | × |
| Error | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. | × | □ |
| Test run | This operates air conditioner units in test run mode. 2: The display for test run mode will be the same as for normal start/stop (no display "test run"). | × | ○ ² |
| Ventilation equipment | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. | × | × |

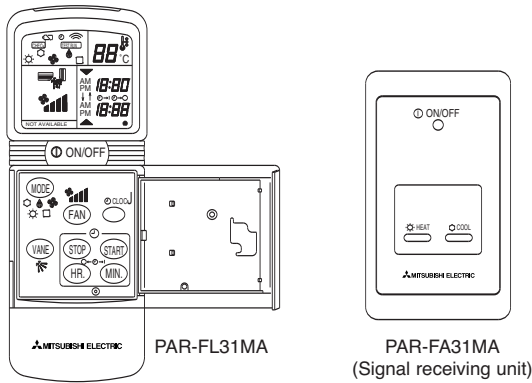
■ System example



■ External dimension



2-6. Wireless remote controller
PAR-FL31MA
PAR-FA31MA



- It can operate in a group system without requiring address settings.
- When operating, it displays LED lamps. When errors occur, the error code can be shown by the LED flash count.
- *: If an indoor unit with different functionality is operating inside the same group, please note there may be cases when functionality is partially disabled for batch control.
- *: Wireless remote controllers can only be used for a single refrigerant system.
- *: If you use a system controller to centrally control a group, you will need cross-wiring between indoor units when using a wireless remote controller.
 Also ensure there is no difference between the group setting of the master system controller and the cross wiring across indoor units when wiring and setting cross wires.

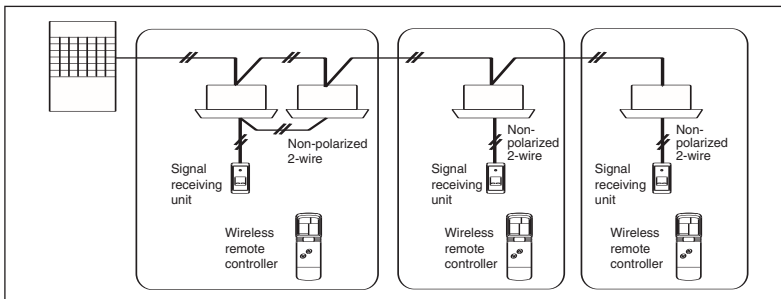
■ Functions

□: Each unit ○: Each group ●: Each block
 △: Each floor ◎: Collective ×: Not available

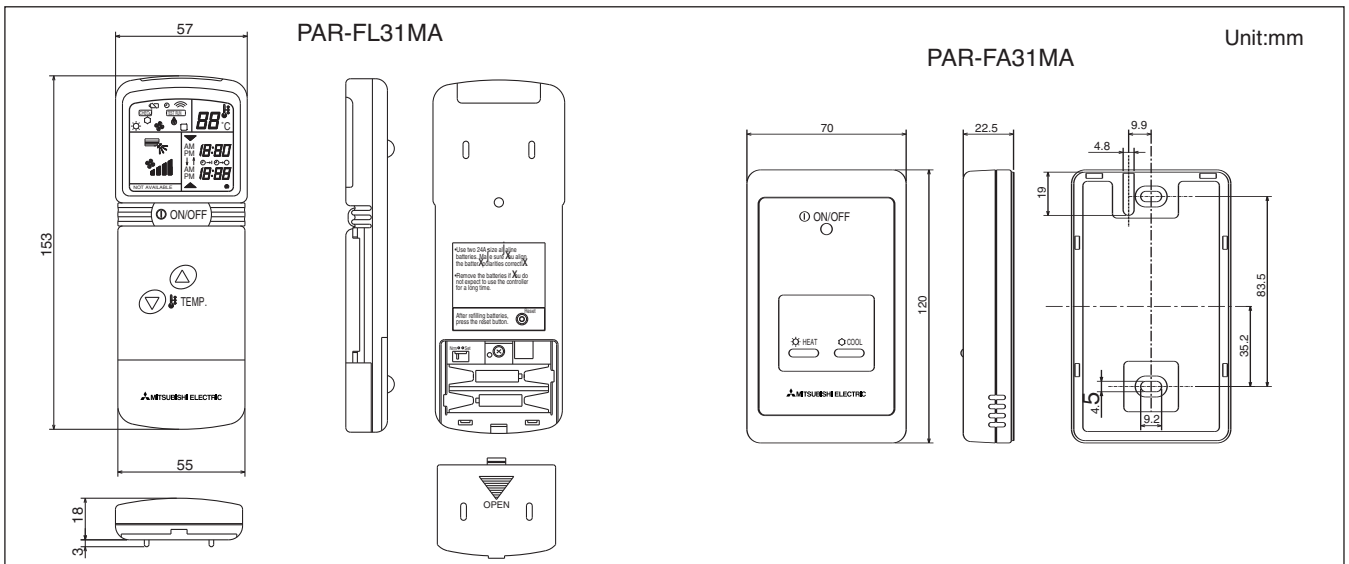
| Item | Description | Operations | Display |
|-----------------------------------|--|------------|----------------|
| ON/OFF | Run and stop operation for a single group | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Fan / Heat / Auto. Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only. | ○ | ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C Heat : 17°C - 28°C Auto : 19°C - 28°C | ○ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 2 air flow speed settings: Hi/Low | * | * |
| Air flow direction setting | Air flow direction angles 100% - 80% - 60% - 40%, Swing. Air flow direction settings vary depending on the model. | * | * |
| Timer operation | One ON/OFF setting can be set for one day. | ○ | ○ |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). 1: If operation is performed when the local remote controller inactivation command is received from the master system controller, a buzzer will ring and an LED will flash. | × | ○ ¹ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit when the indoor unit is operating. | × | × |
| Error | When an error occurs on the air conditioner unit, the operation lamp on the signal receiving unit will flash. | × | ○ |
| Test run | This operates air conditioner units in test run mode. | ○ | ○ |
| Ventilation equipment | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. | × | × |

* Some models will have different display for the air flow direction and fan speed. Set the air flow direction and fan speed when performing initial setting.

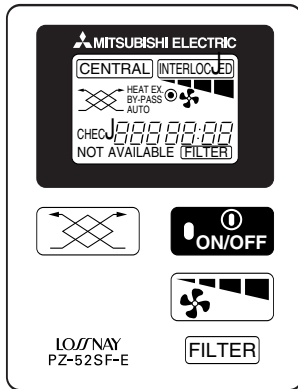
■ System example



■ External dimension



2-7. LOSSNAY remote controller
PZ-52SF



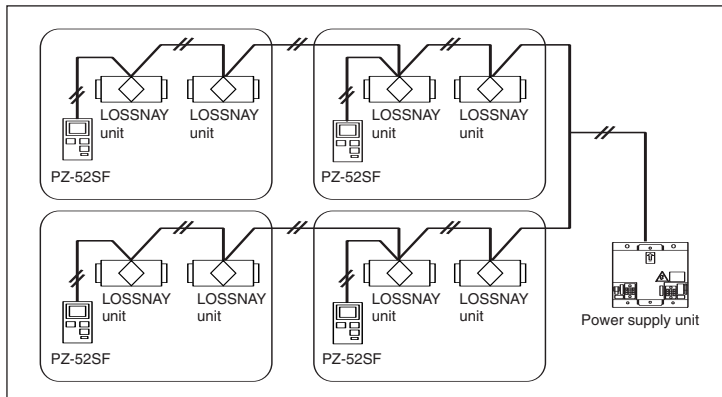
- Stand-alone LOSSNAY operation is possible by commands from a centralized controller or LOSSNAY remote controller. (G-50A supports LOSSNAY operation.)
 - The LOSSNAY remote controller is capable of changing the air flow and vent modes.
 - All the wiring is cross-wiring that uses non-polar two wire system signal cables.
- * : When setting up a LOSSNAY stand-alone system or when setting up a LOSSNAY and centralized controller system, connect a power supply unit for the signal cables.
- * : It is impossible to use a LOSSNAY remote controller for LOSSNAY unit that is interlocked other indoor unit (except for some models).

■ Functions

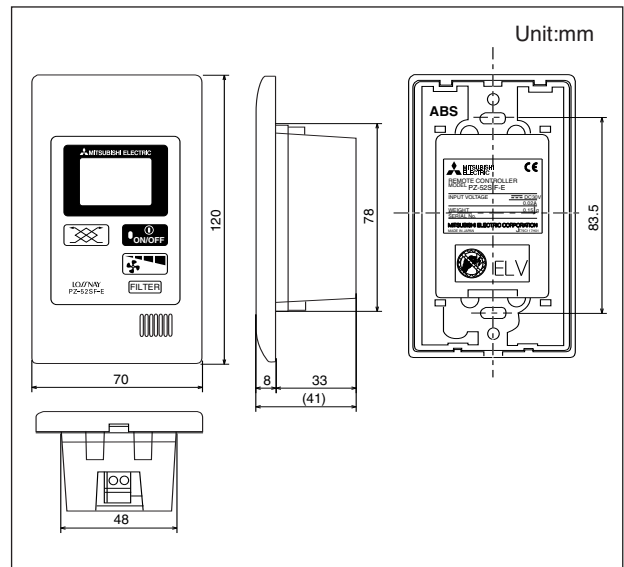
□ : Each unit ○ : Each group ● : Each block
△ : Each floor ⊙ : Collective × : Not available

| Item | Description | Operations | Display |
|-----------------------------------|---|------------|----------------|
| ON/OFF | Run and stop operation for a LOSSNAY unit | ○ | ○ |
| Operation mode switching | Switches between automatic ventilation/vent - heat interchange/ normal ventilation Note: Operation modes vary depending on the model. When connecting to only models without a damper, these models cannot be used. ("NOT AVAILABLE" will appear in the display.) | ○ | ○ |
| Temperature setting | Not available | × | × |
| Fan speed setting | Models with 2 air flow speed settings: Hi/Low When only connected to single notch models, this function is disabled. | ○ | ○ |
| Air flow direction setting | Not available | × | × |
| Timer operation | Not available | × | × |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (Start/Stop, Reset filter). 1: When the local remote controller inactivation command is received from a master system controller, "CENTRAL" is displayed. | × | ○ ¹ |
| Indoor unit intake temperature | Not available | × | × |
| Error | When an error occurs on the air conditioner unit, the operation lamp on the signal receiving unit will flash. | × | □ |
| Test run | There is no test run switch for LOSSNAY remote controllers. Set test run on a LOSSNAY by using the test run switch on the LOSSNAY unit. 2: Cancel by operating the start/stop switch after switching off the LOSSNAY unit test run switch. | × | ○ ² |
| Ventilation equipment | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. | ○ | ○ |
| Interlocked operation | This is displayed to indicate it is being operated by an operation control unit's external control terminal for an interlocked system that contains LOSSNAY units and indoor units. | × | ○ |

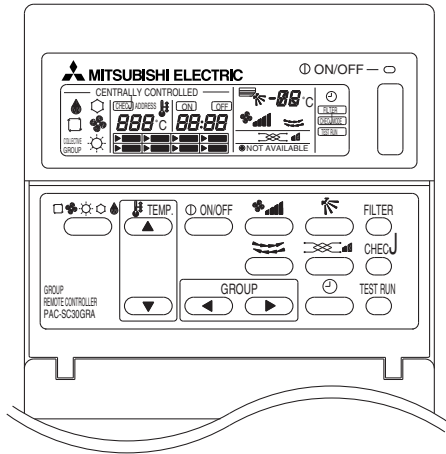
■ System example



■ External dimension



3-1. Group remote controller PAC-SC30GRA



- Up to 8 groups can be operated (maximum of 16 units). Just by pressing switches, groups can be started and stopped individually, or all groups can be started and stopped as a batch.
 - Detailed settings and operations can also be made for each individual group.
 - All the wiring is simply done with non-polarized two wire signal lines. The connection is the same as the connection to the master system controller.
 - It supports operation of groups that can extend beyond one refrigerant system. Furthermore, it is possible to drive interlocked systems that use ventilator equipment or drive ventilator equipment in a stand-alone situation.
- ※: With the group remote controller, you cannot control groups that only contain the LOSSNAY remote controller.
- ※: It is impossible to use the group remote controller to control K control units.
- ※: When connecting to signal cables for central control, it must use a power supply unit for the signal cables.

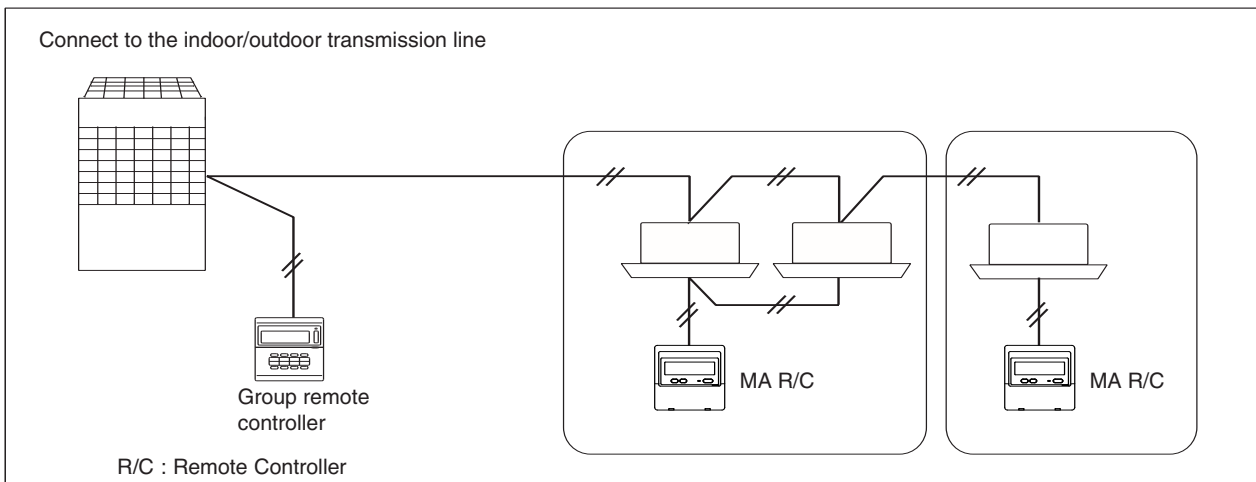
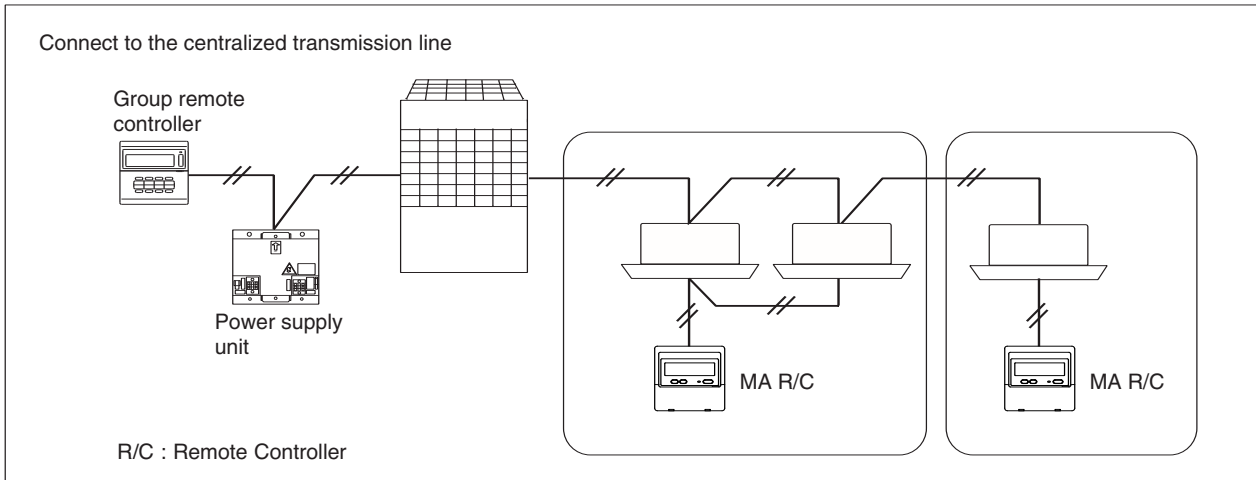
■ Functions

□: Each unit ○: Each group ●: Each block
 △: Each floor ◎: Collective ✕: Not available

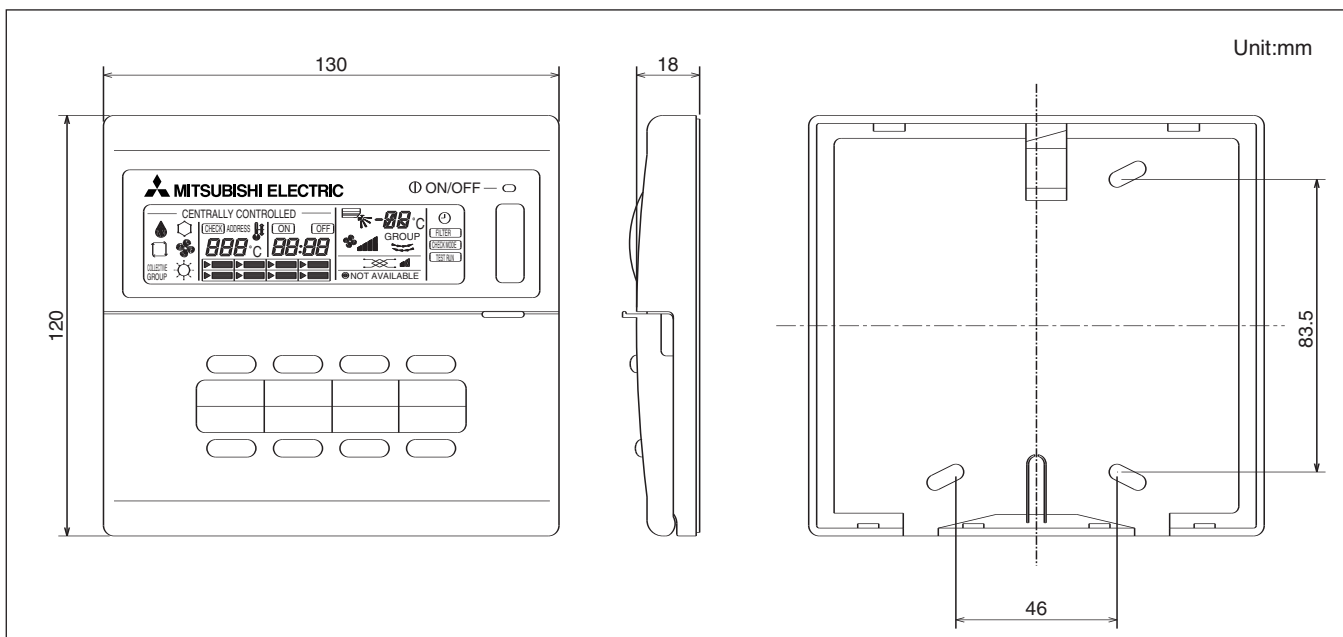
| Item | Description | Operations | Display |
|-----------------------------------|---|------------|-----------|
| ON/OFF | Run and stop operation for the air conditioner units ※1: Even when only a single indoor unit connected to the group remote controller is operated, the collective ON/OFF lamp will light up. | ○ ◎ | ※1 ○ ◎ |
| Operation mode switching | Switches between Cool / Dr. Auto / Fan / Heat. ※2: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen. Operation modes vary depending on the air conditioner unit. Auto mode is the Cit Multi R2 and WR2 series only. | ○ ◎ | ※2 ○ |
| Temperature setting | Sets the temperature for a single group Range of temperature setting Cool/Dr: 19°C - 30°C Heat : 17°C - 28°C Auto : 19°C - 28°C ※3: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen. | ○ ◎ | ※3 ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low ※4: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen. | ○ ◎ | ※4 ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 5% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model. ※5: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen. | ○ ◎ | ※5 ○ |
| Timer operation | It is impossible to set schedules by using this group remote controller. | ○ ◎ | ○ |
| Permit / Prohibit local operation | Individual prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). ※5: When the local remote controller inactivation command is received from a master system controller, "CENTRALLY CONTROLLED -" is displayed. | ✕ | ※5 ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating. | ✕ | ○ |
| Error | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. ※7: This is indicated by the batch operation lamp. | ✕ | ※7 □ ◎ |
| Test run | This operates air conditioner units in test run mode. | ○ | ○ |
| Ventilation equipment | Up to 5 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not possible. ※8: When collective operation is set, the display will show "COLLECTIVE" in the bottom left of the LCD screen. | ○ ◎ | ※8 ○ |

3-1. Group remote controller PAC-SC30GRA

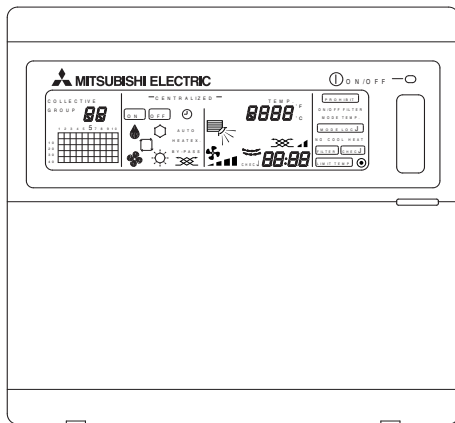
■ System example



■ External dimension



3-2. System remote controller PAC-SF44SRA



- 50 groups/50 units of air conditioners can be controlled.
 - Up to 50 groups/50 units of air conditioners can be operated with one remote controller.
- Operation status displayed on easy-to-read LCD
 - The group currently operating can be seen at a glance with the operation status display for each group.
- Simple remote controller limited to basic operations.
 - The only operations required for the air conditioner are "ON/OFF", "Operation mode changeover", "Temperature setting" and "Prohibit operation by local remote controller", so anyone can easily operate the unit.
 - Using collective control from the system remote controller, operation mode settings using the local remote controllers can be prohibited. (Operation mode limit function)
- Schedule operation is available
 - Groups of air conditioners are available for operation at a set schedule using the Schedule timer (PAC-YT34STA).
- Independent LOSSNAY operation is possible
 - LOSSNAY units can be grouped the same as the Central remote controller and ON/OFF remote controller.
 - "Automatic ventilation", "Normal ventilation" and "Ventilation with heat exchanger" can be switched from the system controller.

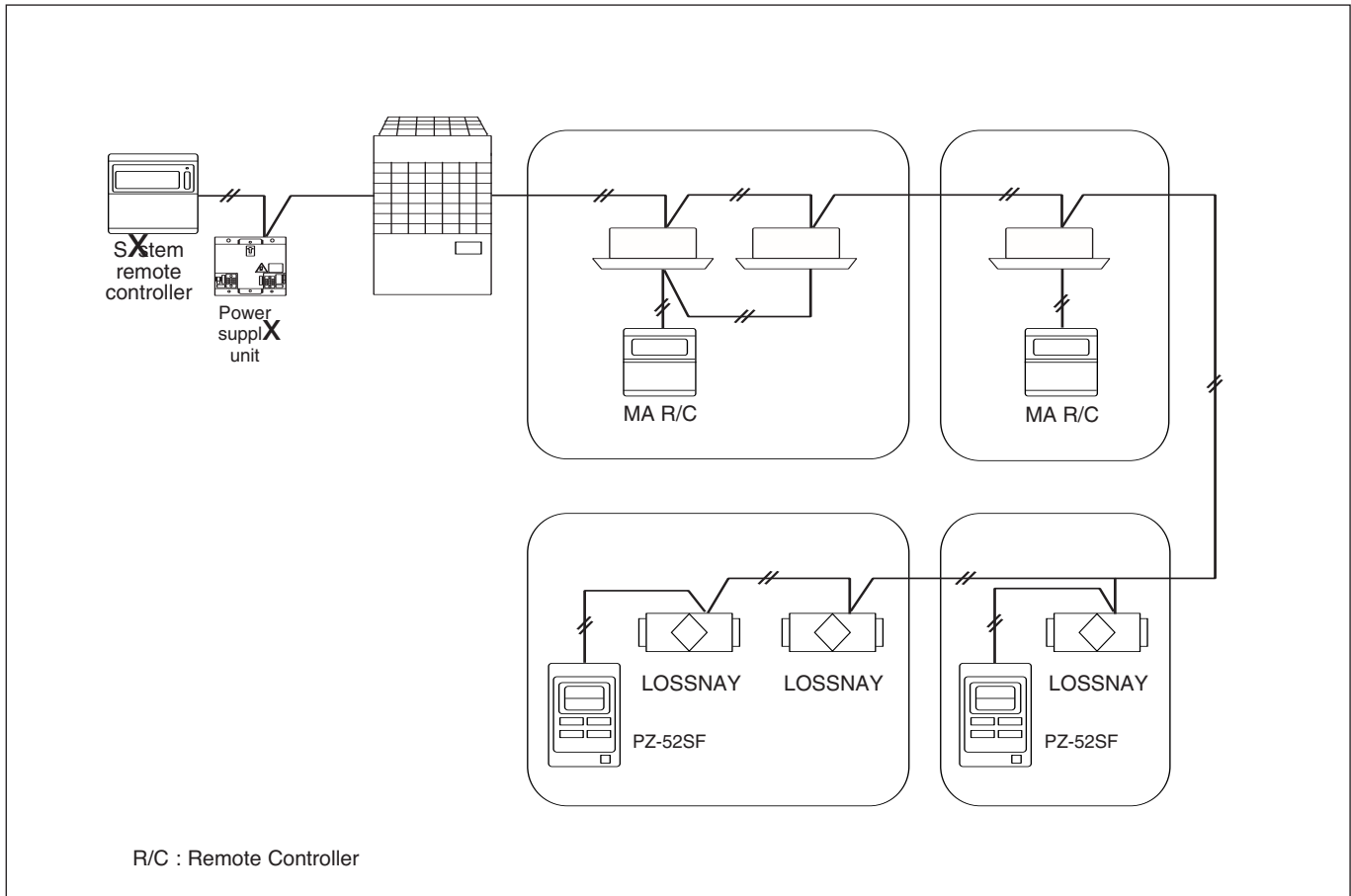
■ Functions

□: Each unit ○: Each group ●: Each block
 △: Each floor ⊙: Collective X: Not available

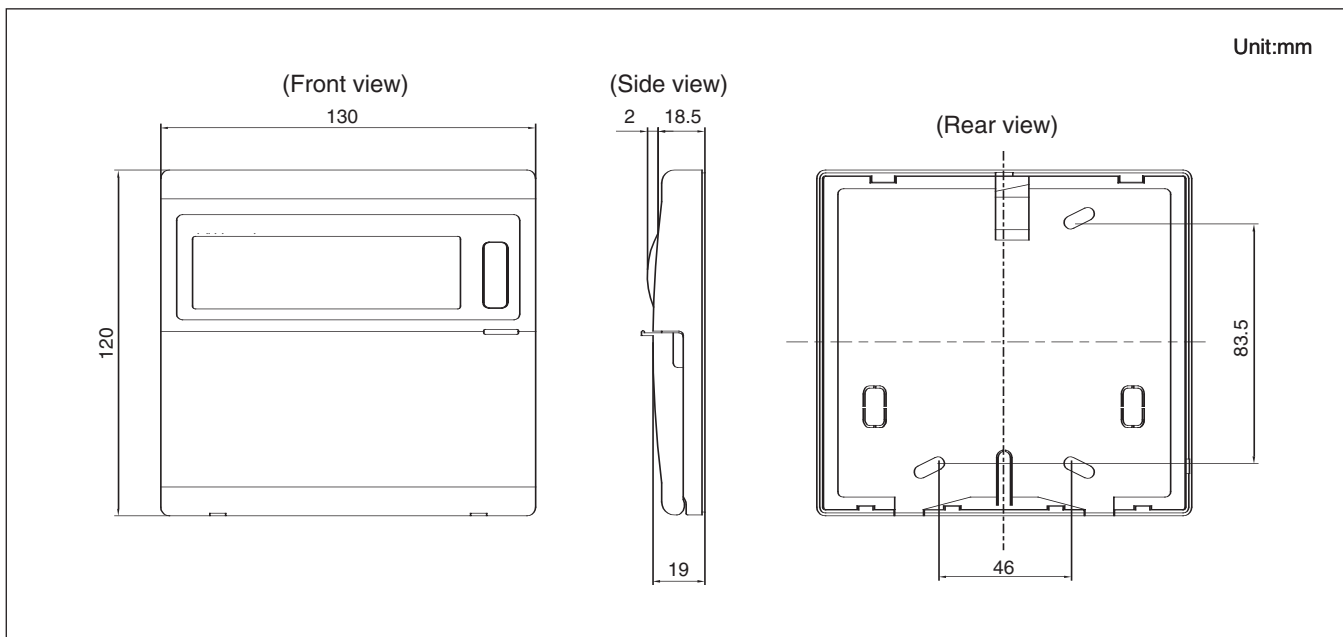
| Item | Remarks | Operations | Display |
|---|---|------------|---------|
| ON/OFF | Run and stop operation for the air conditioner units | ⊙ | ⊙ |
| Operation mode switching | Switches between Cool / Dry / Auto / Fan / Heat. * There are modes that cannot be selected depending on the unit. | ⊙ | ○ |
| Temperature setting | The temperature can be set within the following range. Values in parentheses are for the medium-temperature indoor unit. Cool/Dry : 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) () In case of using middle-temperature indoor unit. | ⊙ | ○ |
| Fan speed setting | The fan speed cannot be set. | ⊙ | ⊙ |
| Air flow direction setting | The air flow direction cannot be set. | ⊙ | ⊙ |
| Manual operation prohibit/permit (ON/OFF, mode change, setting temperature, filter reset) | When set as the master, the ON/OFF, operation mode, setting temperature and filter sign reset operations using the local remote controllers can be prohibited. * [PROHIBIT] will appear when prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group. | ⊙ | ⊙ |
| Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit) | When set as the master, operation of the following modes with the local remote controllers can be prohibited. When cooling is prohibited: Cooling, dry, automatic can not be chosen. When heating is prohibited: Heating, automatic can not be chosen. When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen. | ⊙ | ⊙ |
| Room temperature display | The room temperature cannot be displayed. | - | X |
| Error display | The details of the currently occurring error are displayed with the address. * The address may not be displayed depending on the details of the error. | - | ⊙ |
| Schedule operation | Two patterns of weekly schedules can be operated with the Schedule timer.(PAC-YT34STA) * The schedule validity can be set for each group. | △ | △ |
| Ventilation (independent) | Group operation of only the free plan LOSSNAY is possible. * The operation mode of these groups is automatic ventilation, ventilation with heat exchanger and normal ventilation. | ○ | ○ |
| Ventilation (interlocked) | The LOSSNAY will run in interlock with the operation of indoor unit. * The fan rate and mode cannot be changed. The LED will turn ON during operation after interlocking. | △ | △ |

3-2. System remote controller PAC-SF44SRA

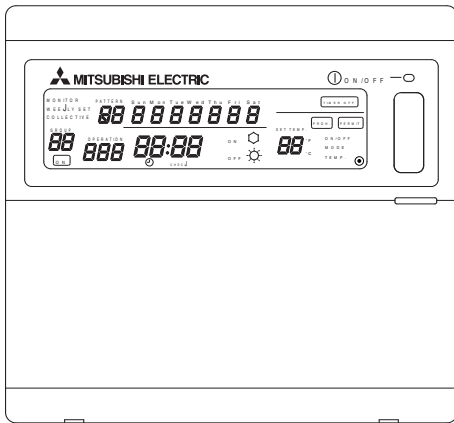
■ System example



■ External dimension



3-3. Schedule timer
PAC-YT34STA



- The weekly schedule of up to 50 groups/50 units can be controlled with one schedule timer.
- The weekly schedule of up to ten patterns (no setting + nine patterns) is available for setting.
- "ON/OFF", "Operation Prohibit", "COOL/HEAT" and "Set Temperature" can be scheduled with up to 16 settings in one pattern.
- It can be connected to the central control transmission line or to the indoor/outdoor transmission line without the power supply unit. It is non-polar 2-wire.
- It can be interlocked with a building management system using the external input/output managing function.
- An error unit address and error code appear on the display in case of malfunction happening.

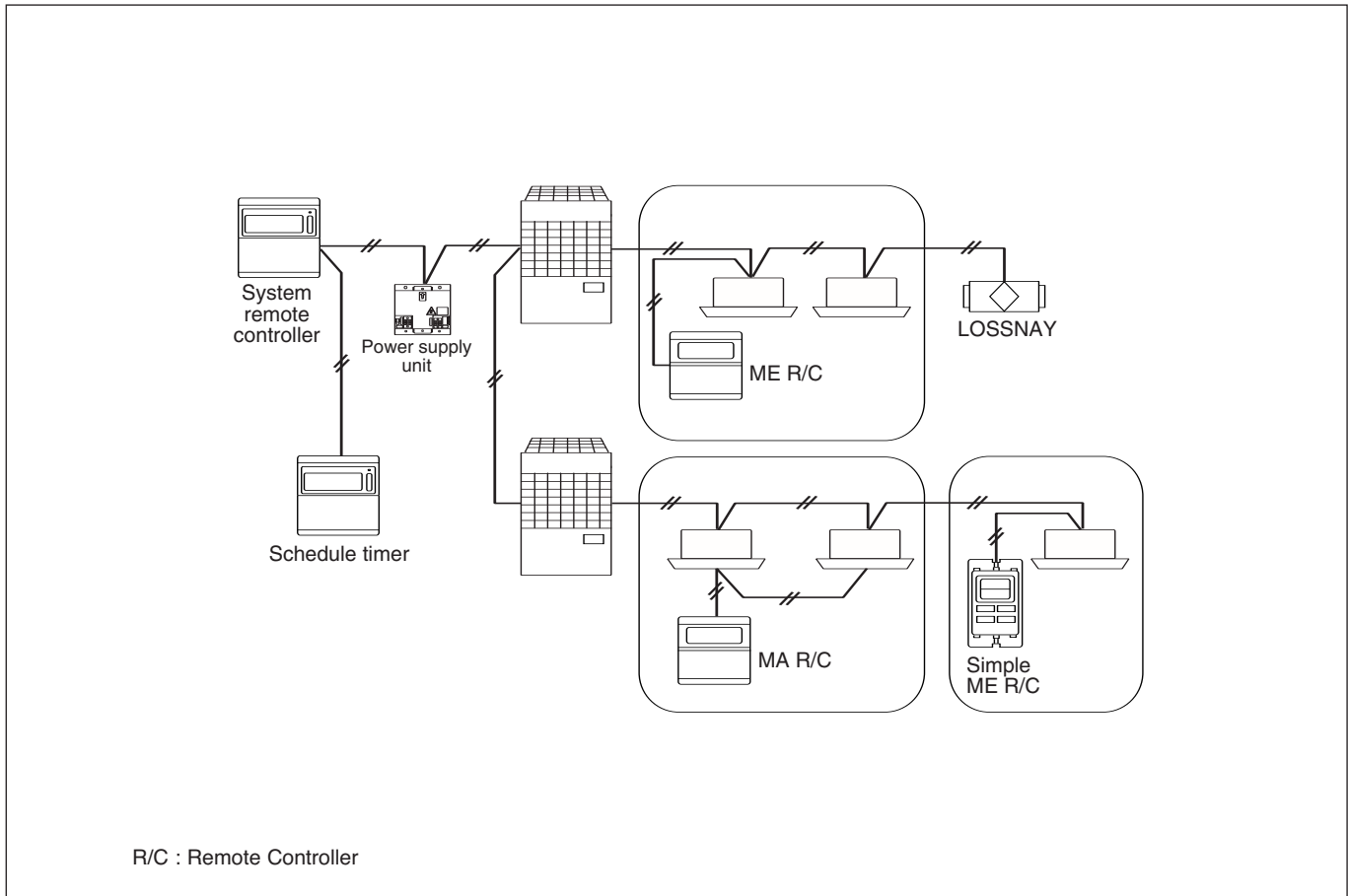
■ Functions

□: Each unit ○: Each group ●: Each block
△: Each floor ◎: Collective ×: Not available

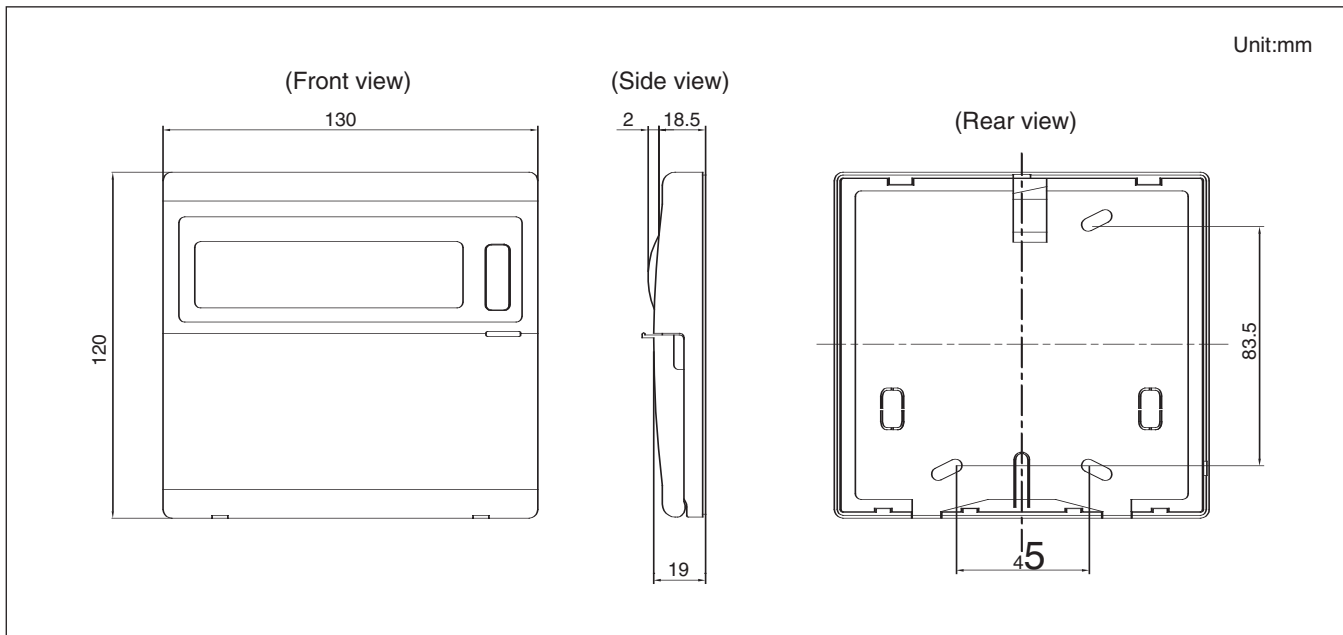
| Item | Details | Operations | Display |
|---|---|------------|---------|
| Unit control | 50 units/50 groups (Maximum 16 units connected in one group) | ◎ | ○ |
| Schedule control | One week | ○ | ○ |
| Operation | ON/OFF | ○ | ○ |
| | Timer reset | ○ | — |
| Schedule function | Setting details | ○ | — |
| | Number of settings | ○ | — |
| | Time setting unit | ○ | — |
| Display | Current time and day | — | ○ |
| | Error state | — | ○ |
| | Unit operation state | — | × |
| External input (Timer connection, emergency stop input, etc.) | The following can be input with the level signals or pulse signals. Level signal: "Emergency stop input" or "Collective ON/OFF" Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit" One input can be selected from those above. | ○ | — |
| External output (Error output, operation output) | "ON/OFF" and "error/normal" are output with the level signal. The optional output cable is required. | ○ | — |
| Connection position | Indoor/outdoor transmission line: Connectable Central system transmission line: Connectable (Optional power supply unit (PAC-SC50KUA) is needed.) | — | — |

3-3. Schedule timer PAC-YT34STA

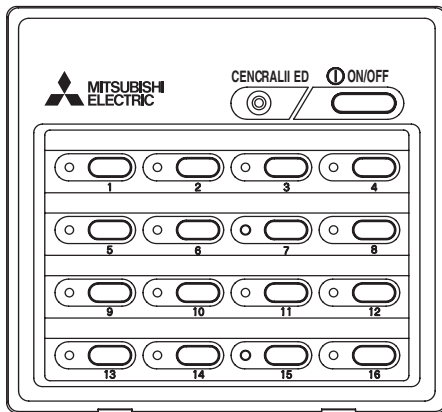
■ System example



■ External dimension



3-4. ON/OFF remote controller PAC-YT40ANRA



- 16 groups/50 units can be controlled.
 - Up to 16 groups/50 units can be operated with one ON/OFF remote controller.
 - A general-purpose interface is available for control, so general devices can also be turned ON and OFF.
- Just press a switch to start.
 - All of the units can be started and stopped by pressing the main switch, and each unit in the group can be started and stopped with individual switches.
 - A general-purpose interface is available for control, so general devices can also be turned ON and OFF.
- LED flashing during failure.
 - If any error should occur in the air conditioner, its details can be confirmed easily with the flashing LED. The LED also indicates whether each group is running or stopped.
- Interlock operation with external system possible.
 - It can be flexibly interlocked with a card reader, fire alarm system or building management system, etc., using the incorporated external input/output function.
- Flexible group setting.
 - The groups can be easily configured, so the group pattern can be freely set according to the layout.
 - The ON/OFF remote controller can be connected at the indoor/outdoor transmission line without the power supply unit.

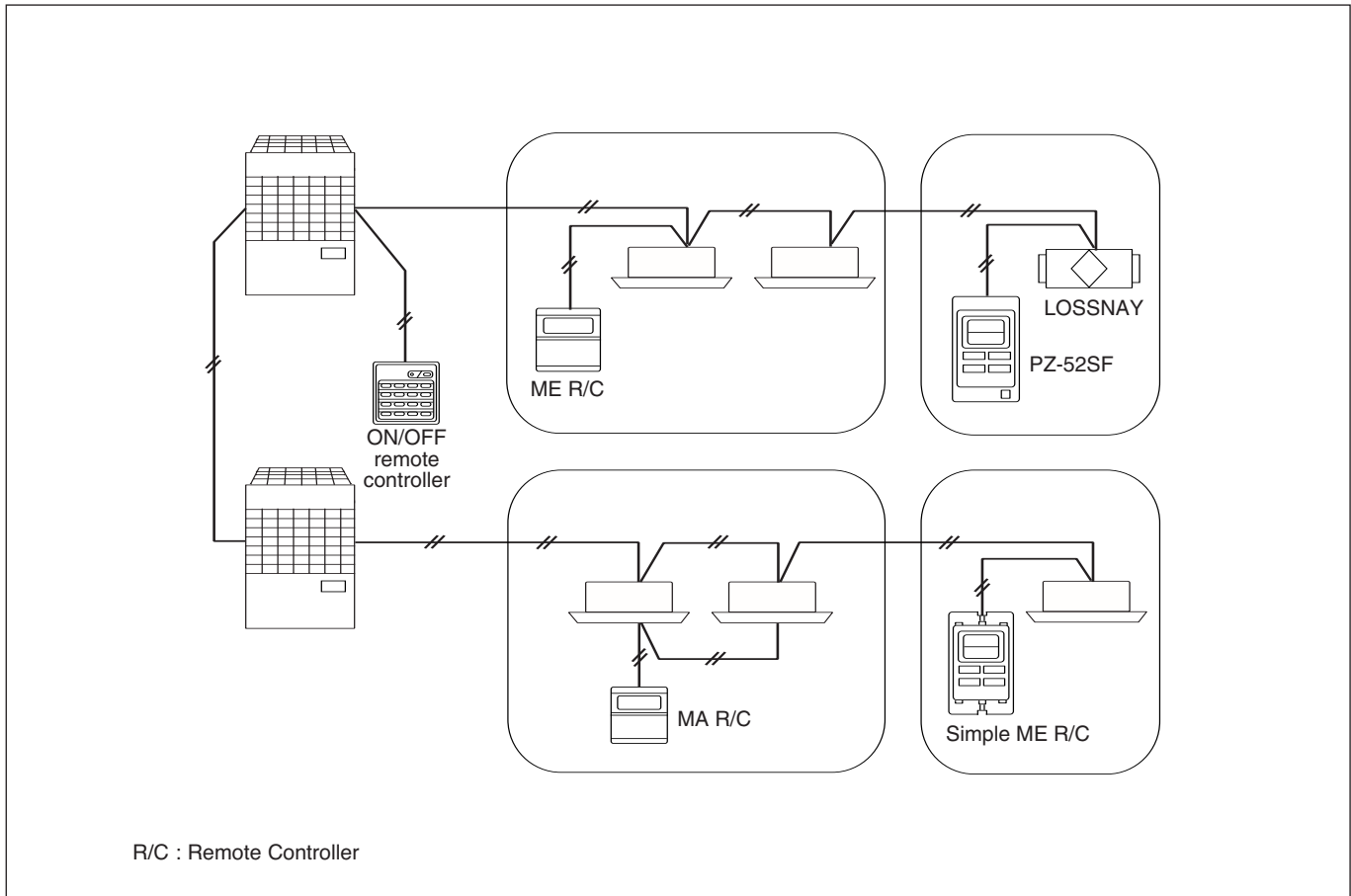
■ Functions

□: Each unit ○: Each group ●: Each block
 △: Each floor ◎: Collective ×: Not available

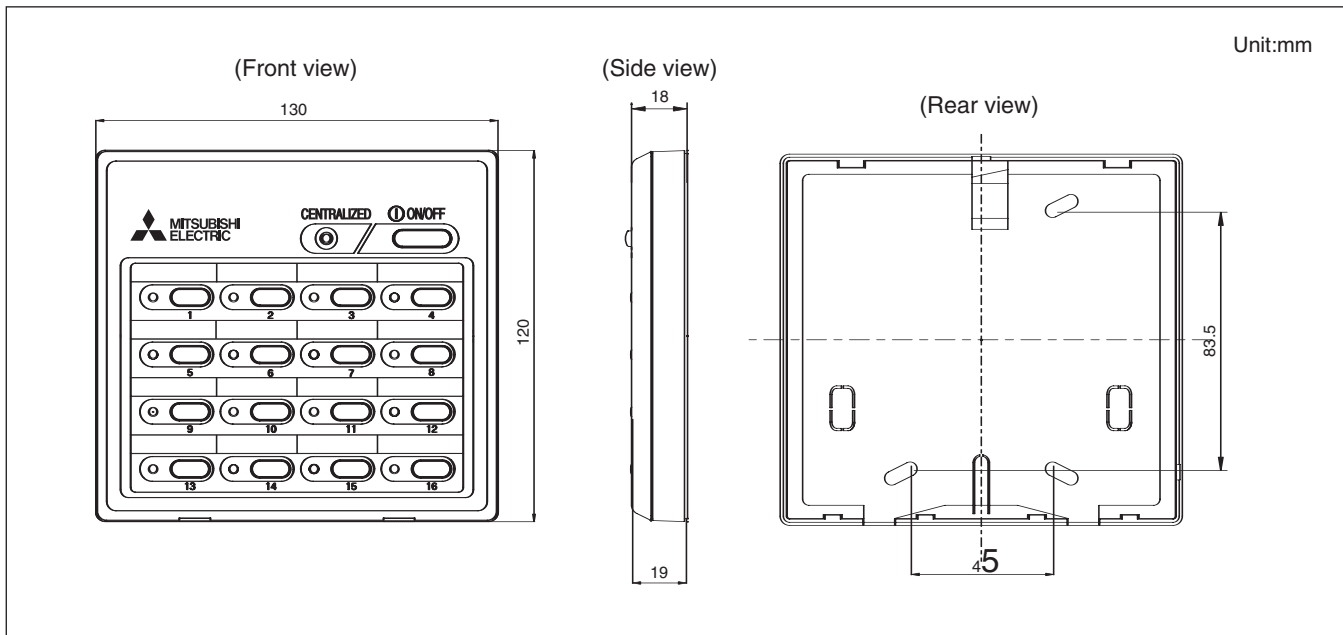
| Item | Description | Operations | Display |
|---|--|------------|---------|
| ON/OFF | Run and stop operation for the air conditioner units | ◎ | ◎ |
| Operation mode switching | Not available | × | × |
| Temperature setting | Not available | × | × |
| Fan speed setting | Not available | × | × |
| Air flow direction setting | Not available | × | × |
| Manual operation prohibit/permit (ON/OFF, operation mode, setting temperature, filter reset) | Compatible only with external input. | × | × |
| Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit) | Not available | × | × |
| Room temperature display | Not available | — | × |
| Error display | LED flashes during failure. (The error code can be confirmed by removing the cover.) | — | △ |
| Schedule operation | Not available | × | × |
| Ventilation operation (independent) | Group operation of only LOSSNAY units possible. Only ON/OFF of group. | ○ | ○ |
| Ventilation operation (interlocked) | The LOSSNAY will run in interlock with the operation of indoor unit. The fan rate and mode cannot be changed. The LED will turn ON only during operation after interlocking. | △ | △ |
| External output (Error output, operation output) | "ON/OFF" and "error/normal" are output with the level signal. The optional output cable is required. | ◎ | ◎ |
| Connection position | Indoor/outdoor transmission line: Connectable Central system transmission line: Connectable (Power supply unit (PAC-SC50KUA) is needed.) | — | — |

3-4. ON/OFF remote controller PAC-YT40ANRA

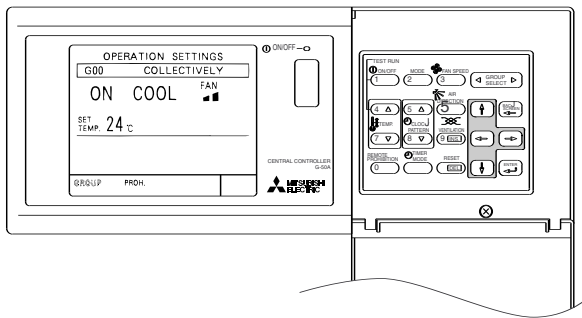
■ System example



■ External dimension



3-5. Central controller G-50A



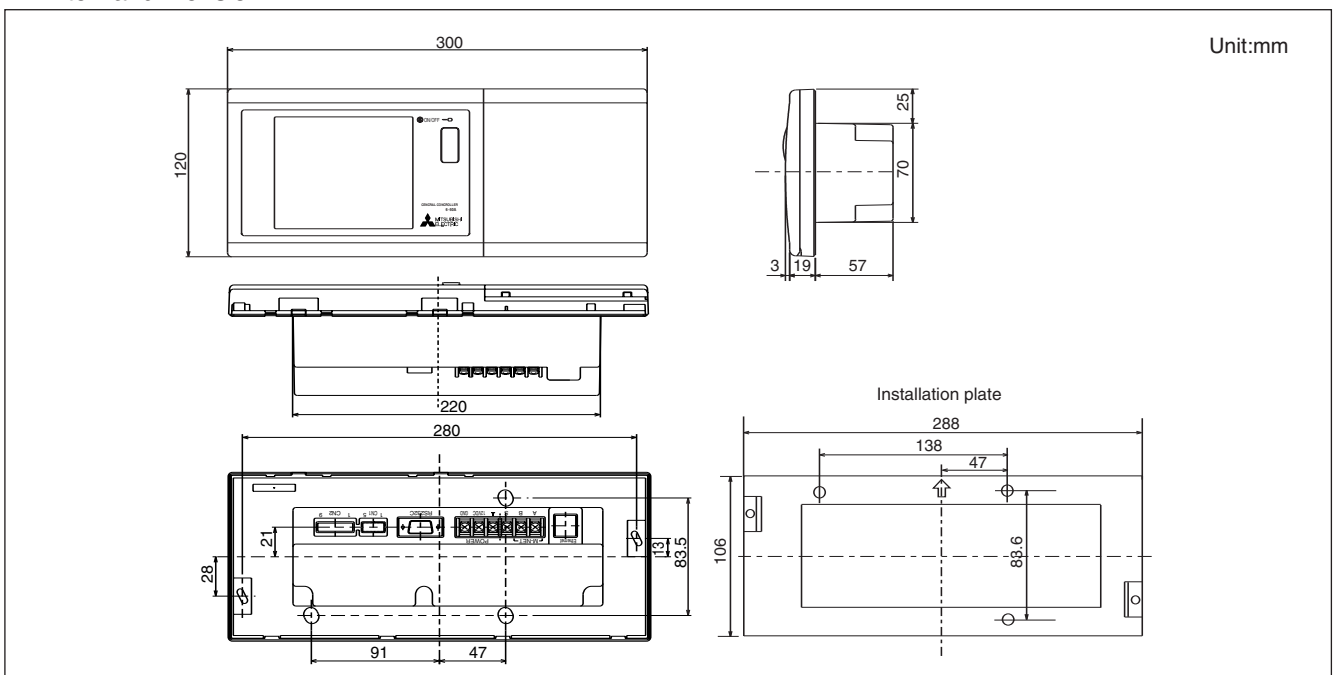
■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective X:Not available

| Item | Description | Operations | Display |
|-----------------------------------|---|------------|---------|
| ON/OFF | Run and stop operation for the air conditioner units | ○◎ | ○◎ |
| Operation mode switching | Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/ vent - heat interchange/ normal ventilation) Operation modes vary depending on the air conditioner unit. Auto mode is the City Multi R2 and WR2 series only. | ○◎ | ○ |
| Temperature setting | Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) Heat : 17°C - 28°C (17°C - 28°C) Auto : 19°C - 28°C (17°C - 28°C) () in case of using middle-temperature indoor unit. ※ Range of temperature settings vary depending on model. | ○◎ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low | ○◎ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 60% - 40%, Swing, ※1: Louver cannot be set. Air flow direction settings vary depending on the model. | ※1 ○◎ | ○ |
| Timer operation | For one day, you can set start/stop three times and you can set enable/disable three times. For a week's schedule, you can store three start/stop patterns and one enable/disable pattern. ※2: When the timer is set, "Timer enabled" is shown on the operation setting screen of the LCD. | ○◎ | ※2 ○ |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). ※3: When the local remote controller inactivation command is received from the master system controller, "Disabled" appears in inverted display on the operation setting screen. | ○◎ | ※3 ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating. | X | ○ |
| Error | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. ※4: When an error occurs, the LED flashes. The operation monitor screen shows the abnormal unit by flashing it. The error monitor screen shows the abnormal unit address, error code and source of detection. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection. | X | ※4 □◎ |
| Test run | This operates air conditioner units in test run mode. | ○ | ○ |
| Ventilation equipment | The interlocked system settings can be performed by the master system controller. When setting the interlocked system, you can use the ventilation switch to switch the free plan LOSSNAY settings between "Hi", "Low" and "Stop". When setting a group of only free plan LOSSNAY units, you can switch between "Normal ventilation", "Interchange ventilation" and "Automatic ventilation". | ○ | ○ |
| External input/output | By using accessory cables you can set and monitor the following. Input By level signal: "Batch start/stop", "Batch emergency stop" By pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output "Start/stop", "Error/Normal" ※5: Requires the external I/O cable (PAC-YG10HA-E) sold separately. | ◎※5 | ◎※5 |

- A. The central controller of G-50A combines Web function (optional), which enable the air conditioner system management on a PC browser screen. *1. The management even carried out at a long distance place via public telephone line.
- *1 Microsoft® Internet explorer Ver. 5 or later by Microsoft Corporation is needed. Microsoft® Internet explorer is a registered trade mark of Microsoft Corporation US in the USA and other countries.
- B. Together with integrated centralized control software TG-2000A, and/or PLC, many optional functions like "Charging", "Peak-cut", "Energy saving", "General equipment management", "Scheduling" etc, can be carried out. Details, please refer to sections of TG-2000A and PLC software.
- C. One G-50A can control maximum 50 Indoor units (including Lossnay). The integrated centralized control software TG-2000A can manage maximum 40 G-50As, therefore can manage maximum 2000 Indoor units (including Lossnay).
- D. Taking advantage of G-50A's Web functions, alarming E-mail containing address and error code can be sent to appointed E-mail address upon any fault happen at the air conditioner system. This could release standby personnel and save operation cost.

■ External dimension



3-5. Central controller G-50A

3-5-1. Power supply to G-50A

G-50A needs DC power supply of 24~30V and 12V; the former is for central control transmission use and the latter is for G-50A's operating and LAN function use. G-50A can have power-supply at following 1,2,3 methods.

3-5-1-1. Power supply unit PAC-SC50KUA is the recommended power supplier for G-50A. The basic scheme is as follows. For details, please refer to 3.13 Power supply unit PAC-SC50KUA.

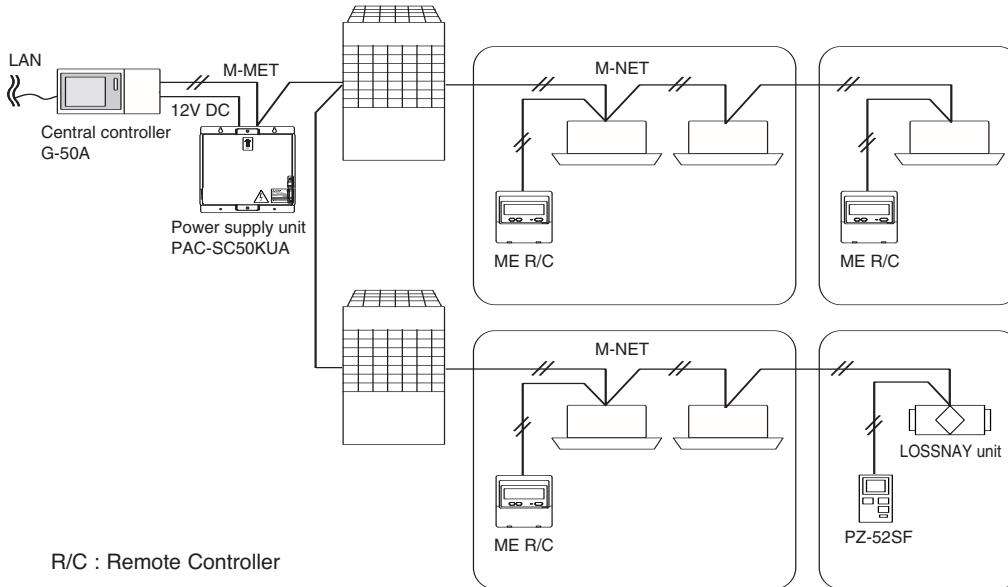


Fig. 3-5-1 G-50A and PAC-SC50KUA basic scheme.

3-5-1-2. Power supply of DC 30V from connector of TB7 or TB3 of Outdoor unit and field supplied DC12V, which specified at Table 3-5-1.

3-5-1-2-1. TB7 and field supplied DC 12V, 0.2A.

As shown at Fig. 3-5-2, G-50A receives power supply of DC 30V from the connector of TB7 at the R410A Outdoor unit together with a field supplied DC12V, 0.2A. In the case, one of the Outdoor units should change its power supply switch of CN41 to CN40.

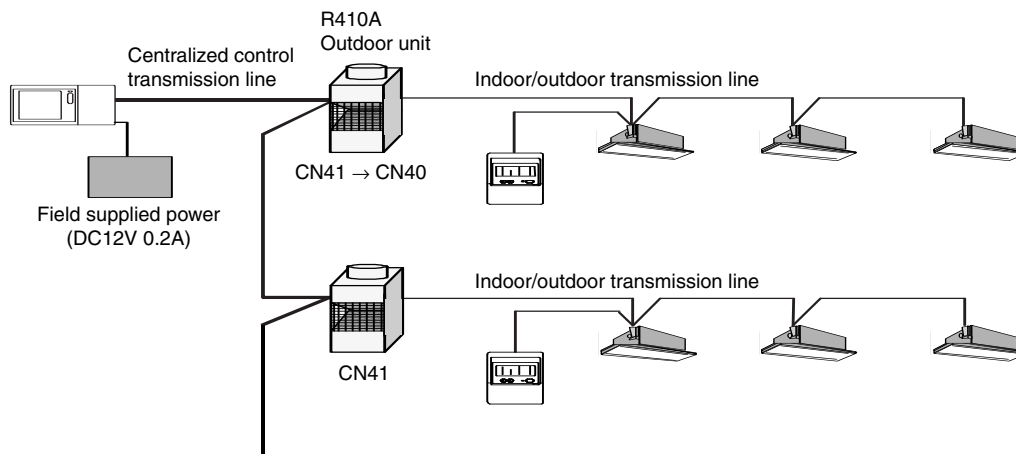


Fig. 3-5-2 G-50A, TB7 and field supplied DC12V scheme.

DC12V Power source should follow the specifications at Table 3-5-1, and the power cable to G-50A should not exceed 10m.

Table 3-5-1 DC12V power specifications

| | |
|--------------------------|--|
| Source power | DC12V 0.2A (Maximum loading) |
| Ripple noise | Lower than 150mVp-p |
| Compatible specification | Authorized or CE marked products. Subject to regulations: IEC60950 (or EN60950) CISPR22/24 (or EN55022/24) IEC61000-3-2/3-3 (or EN61000-3-2/3/3) |

3-5. Central controller G-50A

3-5-1. Power supply to G-50A

3-5-1-2. Power supply of DC 30V from connector of TB7 or TB3 of Outdoor unit and field supplied DC12V, which specified at Table 3-5-1.

3-5-1-2-2. TB3 and DC 12V, 0.2A

G-50A can also receive power supply from TB3 connector of the R410A or R407C, R22 Outdoor unit. Yet, Outdoor unit down will lead down to G-50A too. The kind of connection is possible but not recommended air conditioner system of multiple Outdoor units. The DC 12V 0.2A can be supplied at TB3 connector of PAC-SC50KUA, or a field supplier power complying specification at Table 3-5-1.

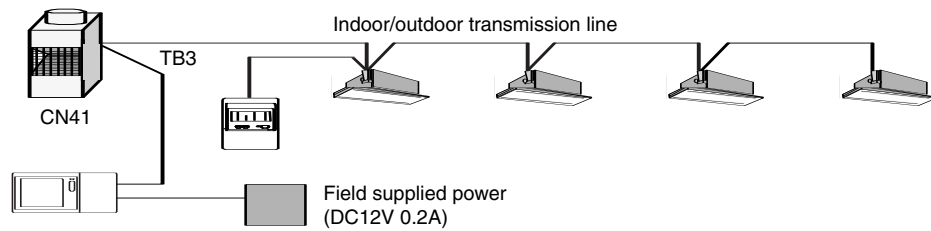


Fig.3-5-3 G-50A, TB3 and field supplied DC 12V scheme.

3-5-1-2-3. The effect on connectable quantity of Indoor unit when TB7 or TB3 is used to supply power to the G-50A.

As Indoor unit controller and system controllers share the power supply from the Outdoor unit, the total power consumption of control use needs following considerations.

Taking the power consumption of the control board of Indoor unit as 1, the equivalent power consumption of the system controller is as follows.

Table 3-5-2 The equivalent power consumption of controllers.

| Indoor unit | Central controller (G-50A) | Other system controllers | |
|-------------|----------------------------|-------------------------------|--|
| | | ON/OFF remote controller (AN) | System remote controller (SR) Schedule timer (ST) Group remote controller (GR) |
| 1 | 0.5 | 1 | 0.5 |

*In order to ensure the transmission quality in start-up of outdoor unit (or during communication traffic), the number of system controllers which connected to indoor/outdoor transmission line in the same system, should not exceed 3.

CAUTION

- An X-trouble caused b X the failure of the field supplied DC 12V power source is not responsible b X Mitsubishi Electric Corporation.
- When appliXng Charge and/or Pesj-cut function on G-50A, Power SuppliX Unit (PAC-SC50JUA) is recomm ended to use. G-50A is possible to receive power from the one of the Outdoor units, but there is a risj that the failure of power suppliX from the Outdoor unit will cause G-50A's function-down on the whole sXtem.
- At the air conditioner sXtem of multiple Outdoor units, the connector of CN41 is changed to CN40 at onlX one of the Outdoor units when TB7 is used to suppliX power. When the Outdoor unit failed, the connector at another unit can be changed from CN41 to CN40 to recover the power suppliX but remember to change the CN40 bacj to CN41 at the failed Outdoor unit.

3-5. Central controller G-50A

3-5-2. External input/output usage

3-5-2-1. External signal input function

External signal input requires the external I/O adapter (Model: PAC-YG10HA-E) sold separately.

(1) External input

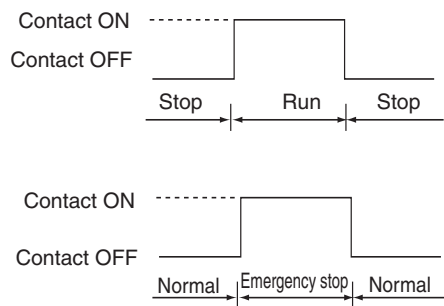
Emergency stop/normal, run/stop and prohibit/enable of local remote controller operation can be controlled for all air conditioners being controlled by using a voltage (DC12V or DC24V) contact signal from an external source.

(Select with the function select setting)

| No | External signal input function | Function | | Remarks |
|----|---|----------|------|--|
| | | No.6 | No.7 | |
| 1 | Do not use external input signal (factory setting) | OFF | OFF | |
| 2 | Execute emergency stop/normal with level signal | OFF | ON | The local remote controller ON/OFF operations, and the controller ON/OFF operation and prohibit/enable change operations will be prohibited during emergency stop. |
| 3 | Perform ON/OFF with level signal | ON | OFF | The local remote controller ON/OFF operations, and the controller ON/OFF operations and prohibit/enable change operations will be prohibited. |
| 4 | Perform ON/OFF, prohibit/enable with pulse signals. | ON | ON | Set the pulse width while the contact is ON to 0.5 to 1 sec. |

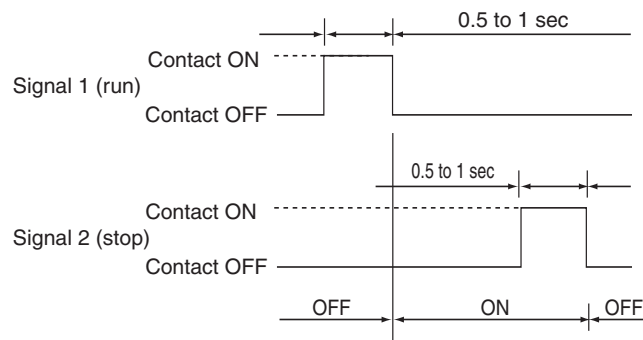
(2) Level signal and pulse signal (DC12V or DC24V)

(A) Level signal



(B) Pulse signal

(Example) for ON/OFF



The prohibit/enable input is the same.

(3) External input specifications

| CN2 | Lead wire | Emergency stop/normal level signal | ON/OFF, level signal | ON/OFF, prohibit/enable pulse signal |
|------|-----------|------------------------------------|----------------------|--|
| No.5 | Orange | Emergency stop/normal input | ON/OFF input | ON input |
| No.6 | Yellow | Not used | Not used | OFF input |
| No.7 | Blue | Not used | Not used | Local remote controller operation prohibit input |
| No.8 | Gray | Not used | Not used | Local remote controller operation enable input |
| No.9 | Red | External DC source “+” | | |

(A) For level signal

- ① When the emergency stop/normal signal is selected, the status will change from normal to emergency stop when the external input signal contact changes from OFF to ON, and will change from emergency stop to normal when the contact changes from ON to OFF. Emergency stop signal will bring the air conditioners to stop, and canceling the emergency stop will not automatically reset these units. To go back to the previous operation status, they must be manually turned back on.
- ② When the ON/OFF signal is selected, the status will change from OFF to ON when the external input signal contact changes from OFF to ON, and will change from ON to OFF when the contact changes from ON to OFF.

(B) For pulse signal

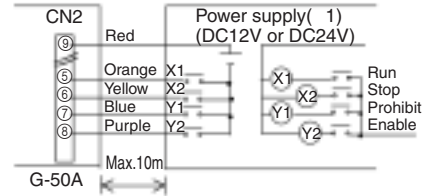
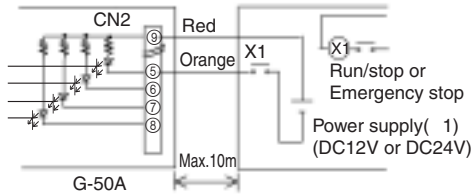
- ① Even if the ON signal is input during ON, the status will remain ON.
- ② If the local remote controller is prohibited, the ON/OFF operation mode and temperature setting operations by the local remote controller will be prohibited.
- ③ Set the pulse width (contact ON time) to 0.5 to 1 sec.

3-5. Central controller G-50A

3-5-2. External input/output usage

3-5-2-1. External biVnal inpdt fdnction (4)Recommended circuit example

(A) For level signal



- ① The contact relay, DC power source, extension cable, etc., must be prepared separately at the site.
- ② The connection cable can be extended up to 10m. (Use a 0.3mm² or larger wire.)
- ③ Strip the extra cable near the connector, and securely insulate the exposed section with tape, etc.

3-5-2-2. External biVnal odtpdt fdnction

External signal output requires the external I/o adapter (Model: PAC-YG10HA-E) sold separately.

(1) External output

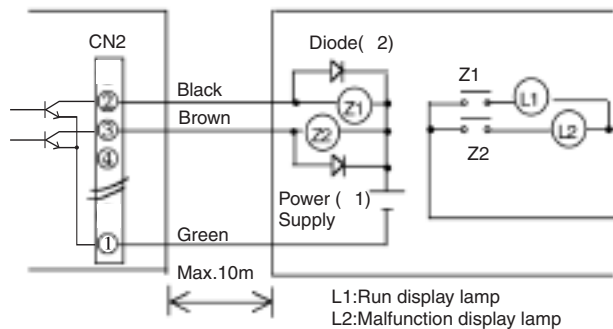
When one or more air conditioners are running, the "ON" signal will be output and if a malfunction occurs in one or more air conditioners, the "Malfunction" signal will be shown.

(2) External output specifications

| CN 2 | Lead wire | Details of each terminal |
|------|-----------|--------------------------------------|
| No.1 | Green | Common (External ground) |
| No.2 | Black | ON/OFF |
| No.3 | Brown | Malfunction/normal |
| No.9 | Red | Common (External power supply) (1) |

① " ON" signal and " Malfunction" signal will both be output.

(3) Recommended circuit example



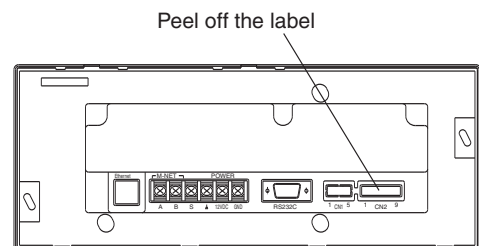
Use Z1 and Z2 relays having the following specifications.

- Operation coil
- Rated voltage :DC12V,DC24V
- Power Consumption : 0.9W or less
- (1)Prepare a power supply separately according to the relay being used. (DC12V or DC24V)
- (2)Always insert a diode on both ends of the relay coil.

- ① Each element will turn on while ON operation or a malfunction occurs.
- ② The connection cable can be extended up to 10m.
- ③ The relays, lamps, diodes and extension cables, etc, must be prepared separately at the site.

CAUTION

When connecting the external input/output cables to connector CN2 on the controller, Peel off the label on the controller connector section.

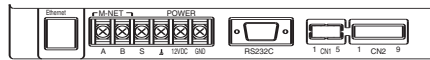


3-5. Central controller G-50A

3-5-3. LAN connection function

When using the LAN connection function, connect the LAN cable to the Ethernet connector of this device.

- * Procure the LAN cable at the site, and use an enhanced category 5UTP cable.
- * For a description of the IP address setting method, refer to Installation Manual.
- * LAN is 10 BASE-T Specification.



NOCE

- * Perform the LAN wiring before installation, and wire up to the body by the same method as wiring the M-NET transmission line.
- * When a LAN is already connected, decide the IP address by consultation with the system administrator and connect to the LAN body after changing the IP address.
- * When connecting an LAN connector, space for the connector and wiring is required. Provide this space at this unit and the rear of the electric box. Refer to Installation Manual.
- * When the G-50A cover is opened, the LAN status lamp and LAN changeover switch are accessed. For detailed information, refer to sections 3-2 and 5-9 of the Instruction Book.

3-5. Central controller
G-50A

3-5-4. Browser screens of G-50A



Condition List (Overview)



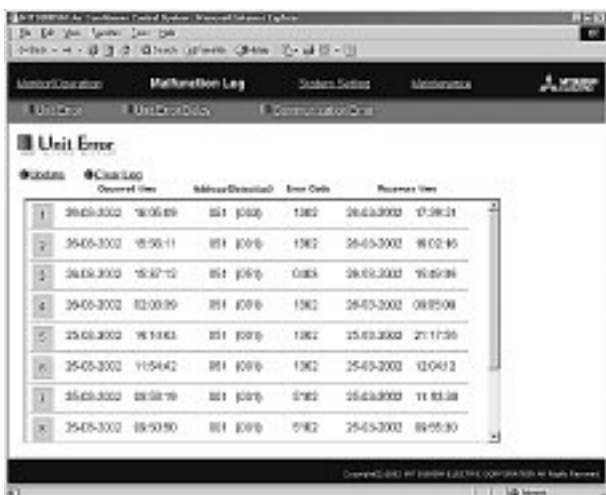
Condition List (Block)



Operation



Malfunction List

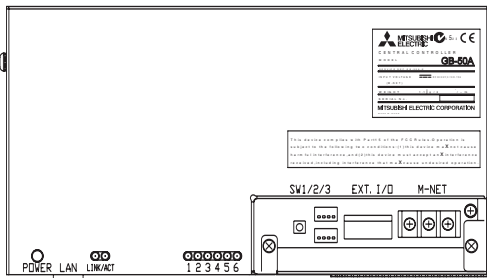


Malfunction Log



Weekly Schedule

3-6. Central controller GB-50A



- A. The central controller of GB-50A combines Web function (optional), which enable the air conditioner sXstem management on a PC browser screen. *1. The management even carried out at a long distance place via public telephone line.
- *1 Microsoft® Internet explorer Ver. 5 or later bX Microsoft Corporation is needed. Java executing environment is needed. (Microsoft VM Ver.5.0 or later, or SUN MicrosXstems' Java plug-in Ver.1.4.2 or later). Microsoft® Internet explorer is a registered trademark of Microsoft Corporation US in the USA and other countries.
- B. Together with integrated central control software TG-2000A, and/or PLC, manX optional functions iij e "Charging", "Pea j-cut", "EnergX saving", "General equipment management", "Scheduling" etc, can be carried out. Details, please refer to sections of TG-2000A and PLC software.
- C. One GB-50A can control maximum 50 Indoor units (including LossnaX). The TG-2000A can manage maximum 40 GB-50As, therefore can manage maximum 2000 Indoor units (including LossnaX).
- D. Taj ing advantage of GB-50A's Web functions, alarming E-mail containing address and error code can be sent to appointed E-mail addresses upon anX fault happen at the air conditioner sXstem. This could release standbX personnel and save operation cost.

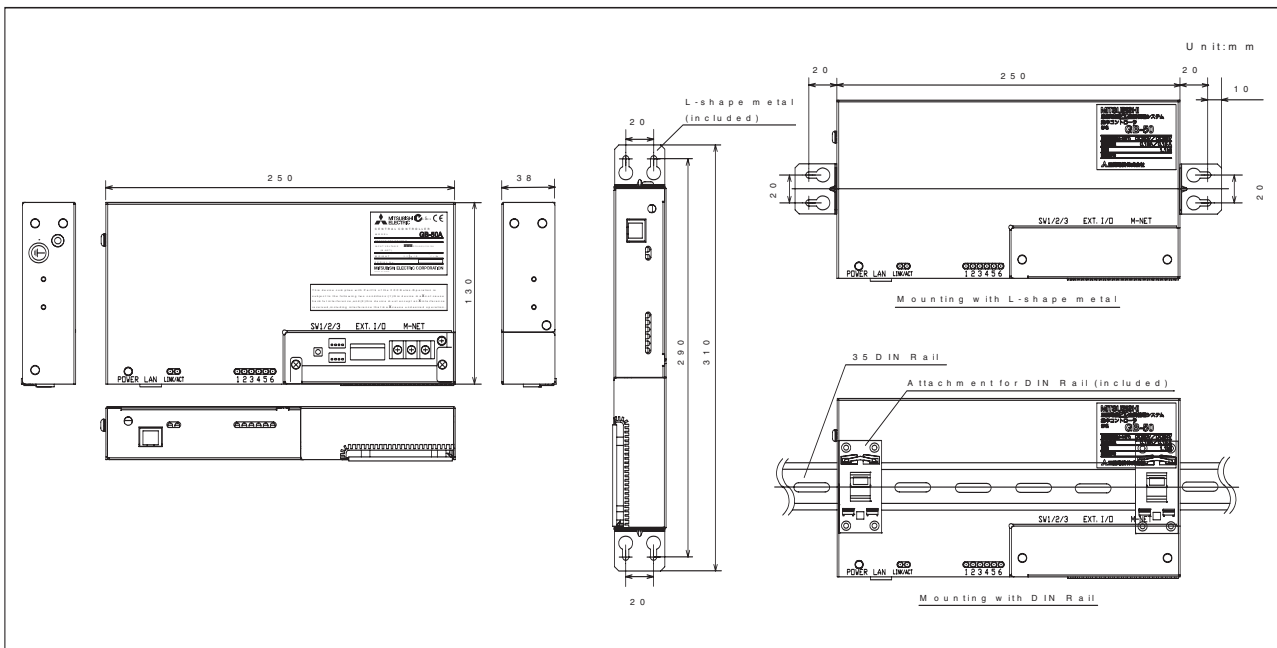
Functions

□ Each unit ○ Each group ● Each block
△ Each floor ⊙ Collective ✕ Not available

| Item | Description | Operations | Display |
|-----------------------------------|--|------------|---------|
| ON/OFF | Run and stop operation for the air conditioner units | ⊙ ⊙ | ⊙ ⊙ |
| Operation mode switching | Switches between Cool/DrX/Auto/Fan/Heat. (Group of LOSSNAY unit: automatic ventilation/vent-heat interchange/normal ventilation) Operation modes varX depending on the air conditioner unit. Auto mode is the CItX Multi R2 and WR2 series onIX | ⊙ ⊙ | ○ |
| Temperature setting | Range of temperature setting Cool/DrX: 19°C - 30°C (14°C - 30°C) Heat: 17°C - 28°C (17°C - 28°C) Auto: 19°C - 28°C (17°C - 28°C) <small>(1) In case of using middle temperature heater unit.</small> * Range of temperature settings varX depending on model. | ⊙ ⊙ | ○ |
| Fan speed setting | Models with 4 air flow speed settings: H/I/M ID-2/M ID-1/Low Models with 3 air flow speed settings: H/I/M ID/Low Models with 2 air flow speed settings: H/I/Low | ⊙ ⊙ | ○ |
| Air flow direction setting | Air flow direction angles 100% - 80% - 50% - 40%, Swing. *1: Louver cannot be set. Air flow direction settings varX depending on the model. | ⊙ ⊙ | ○ |
| Permit / Prohibit local operation | IndividualX prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). *2: When the local remote controller inactivation command is received from the master sXstem controller, "Disabled" appears in inverted displaX on the operation setting screen. | ⊙ ⊙ | ⊙ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit. IX when the indoor unit is operating. | ✕ | ○ |
| Error | When an error is currentIX occurring on an air conditioner unit, the afflicted unit and the error code are displaXd. *3: When an error occurs, the LED flashes. The operation monitor screen shows the abnormal unit bX flashing it. The error monitor screen shows the abnormal unit address, error code and source of detection. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection. | ✕ | ⊙ ⊙ |
| Ventilation equipment | The interlocke d sXstem settings can be performed bX the master sXstem controller. When setting the interlocke d sXstem, Xou can use the ventilation switch to switch the free plan LOSSNAY settings between "H", "Low" and "Stop". When setting a group of onIX free plan LOSSNAY units, Xou can switch between "Normal ventilation", "Interchange ventilation" and "Automatic ventilation". | ○ | ○ |
| External input/output | BX using accessorX cables Xou can set and monitor the following. Input BX level signal: "Batch start/stop", "Batch emergency stop" BX pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output "Start/stop", "Error/Normal" *5: Requires the external I/O cable (PAC-YG10HA-E) sold separately X | ⊙ ⊙ | ⊙ ⊙ |

* GB-50A needs a PC (field supplied) connected together to monitor and operate the air conditioner sXstem.

External dimension



3-6. Central controller GB-50A

3-6-1. Power supply to GB-50A

GB-50A needs DC power supply of 24~30V for central control transmission use, operating and LAN function use. GB-50A can have power supply at following 1,2,3 methods.

3-6-1-1. Power supply unit PAC-SC50: UA is the recommended power supply for 6 GB-50A. The basic scheme is as follows. For details, please refer to 3-13 Power supply unit PAC-SC50: UA.

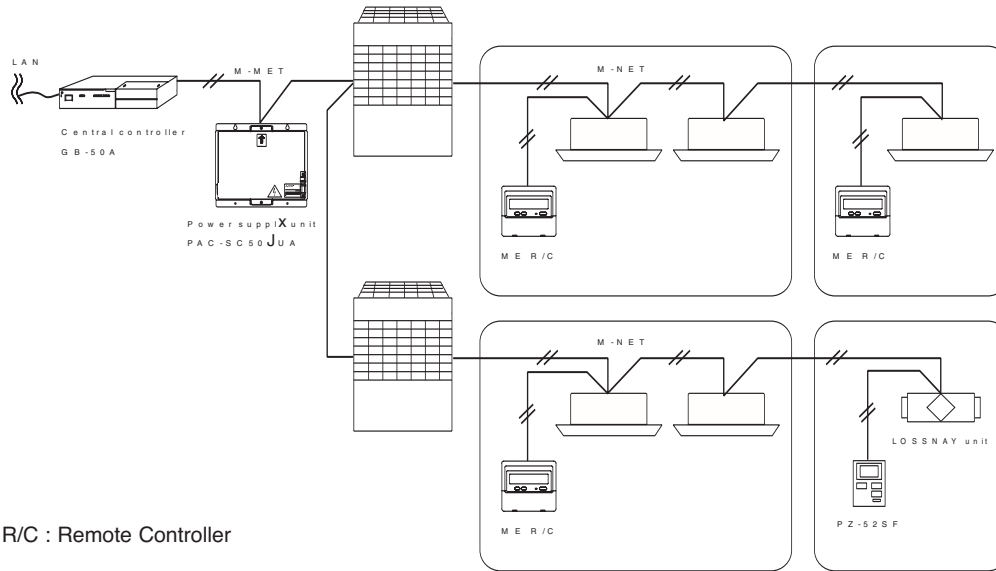


Fig. 3-5-1 GB-50A and PAC-SC50:UA basic scheme.

3-6-1-2. Power supply of DC 30E from connector of CB7 or CB3 of Outdoor unit.

3-6-1-2-1. CB7 of Outdoor unit.

As shown at Fig. 3-5-2, GB-50A receives power supply of DC 30V from the connector of TB7 at the Outdoor unit. In the case, one of the Outdoor units should change its power supply switch of CN41 to CN40.

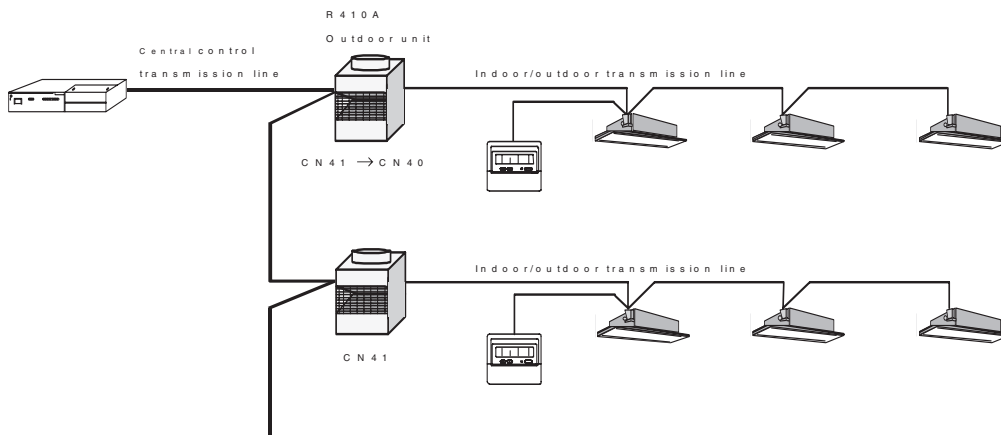


Fig. 3-5-2 GB-50A, TB7 power supply

3-6. Central controller GB-50A

3-6-1. Power supply to GB-50A

3-6-1-2. Power supply of DC 30V from connector of TB7 or TB3 of Outdoor unit.

3-6-1-2-2. TB3 of Outdoor unit.

GB-50A can also receive power supply from TB3 connector of the Outdoor unit. Yet, the Outdoor unit down will lead down to GB-50A too. The kind of connection is possible but is not recommended for an air conditioner system of multiple Outdoor units.

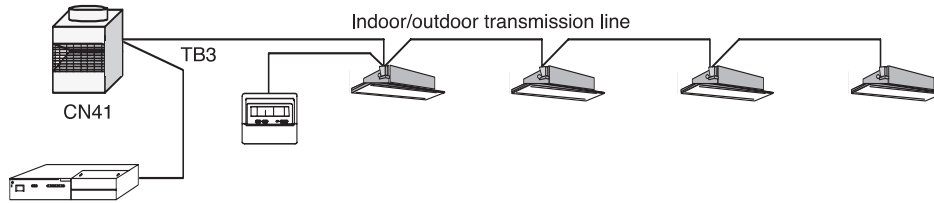


Fig.3-6-3 GB-50A, TB3 power supply

3-6-1-2-3. The effect on connectable quantity of Indoor unit when TB7 or TB3 is used to supply power to the GB-50A.

As Indoor unit controller and system controllers share the power supply from the Outdoor unit, the total power consumption of control use needs following considerations.

Taking the power consumption of the control board of Indoor unit as 1, the equivalent power consumption of the system controller is as follows.

Table 3-6-1 The equivalent power consumption of controllers.

| Indoor unit | Central controller (GB-50A) | Other system controllers | |
|-------------|-----------------------------|---|--|
| | | ON/OFF remote controller (PAC-YT40ANRA) | System remote controller (PAC-SF44SRA) Schedule timer (PAC-YT34STA) |
| 1 | 3 | 1 | 0.5 |

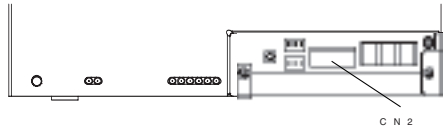
*In order to ensure the transmission quality in start-up of outdoor unit (or during communication traffic), the number of system controllers which connected to indoor/outdoor transmission line in the same system, should not exceed 3.

CAUTION

- When applying Charge and/or Peak-cut function on GB-50A, Power Supply Unit (PAC-SC50KUA) is recommended to use. GB-50A is possible to receive power from the one of the Outdoor units, but there is a risk that the failure of power supply from the Outdoor unit will cause GB-50A's function-down on the whole system.
- At the air conditioner system of multiple Outdoor units, the connector of CN41 is changed to CN40 at only one of the Outdoor units when TB7 is used to supply power. When the Outdoor unit failed, the connector at another unit can be changed from CN41 to CN40 to recover the power supply, but remember to change the CN40 back to CN41 at the failed Outdoor unit.

3-6. Central controller GB-50A

3-6-2. External input/output usage



3-6-2-1. External biVnal inpdt fdnction

* External signal input requires the external I/O adapter (Model: PAC-YG10HA-E) sold separately.

(1) External input

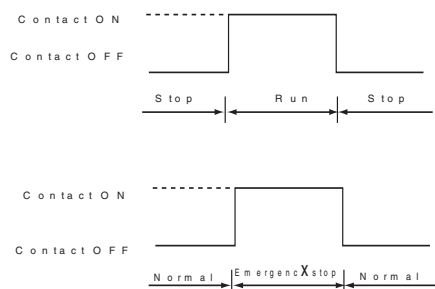
Emergency stop/normal, run/stop and prohibit/enable of local remote controller operation can be controlled for all air conditioners being controlled by using a voltage (DC 12V or DC 24V) contact signal from an external source.

(Select with the function select setting)

| No. | External signal input function | Function | | Remarks |
|-----|---|----------|-------|--|
| | | No. 5 | No. 7 | |
| 1 | Do not use external input signal (factor setting) | OFF | OFF | |
| 2 | Execute emergency stop/normal with level signal | OFF | ON | The local remote controller ON/OFF operations, and the controller ON/OFF operation and prohibit/enable change operations will be prohibited during emergency stop. |
| 3 | Perform ON/OFF with level signal | ON | OFF | The local remote controller ON/OFF operations, and the controller ON/OFF operations and prohibit/enable change operations will be prohibited. |
| 4 | Perform ON/OFF, prohibit/enable with pulse signals. | ON | ON | Set the pulse width while the contact is ON to 0.5 to 1 sec. |

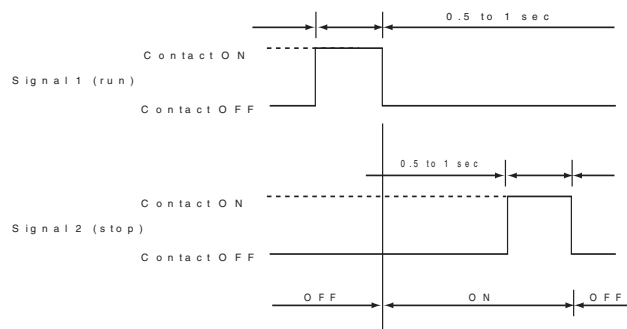
(2) Level signal and pulse signal (DC 12V or DC 24V)

(A) Level signal



(B) Pulse signal

(Example) for ON/OFF



*The prohibit/enable input is the same.

(3) External input specifications

| CN2 | Lead wire | Emergency stop/normal level signal | ON/OFF, level signal | ON/OFF, prohibit/enable pulse signal |
|-------|-----------|------------------------------------|----------------------|--|
| No. 5 | Orange | Emergency stop/normal input | ON/OFF input | ON input |
| No. 5 | Yellow | Not used | Not used | OFF input |
| No. 7 | Blue | Not used | Not used | Local remote controller operation prohibit input |
| No. 8 | Green | Not used | Not used | Local remote controller operation enable input |
| No. 9 | Red | External DC source "+" | | |

(A) For level signal

- When the emergency stop/normal signal is selected, the status will change from normal to emergency stop when the external input signal contact changes from OFF to ON, and will change from emergency stop to normal when the contact changes from ON to OFF. Emergency stop signal will bring the air conditioners to stop, and canceling the emergency stop will not automatically reset these units. To go back to the previous operation status, the unit must be manually turned back on.
- When the ON/OFF signal is selected, the status will change from OFF to ON when the external input signal contact changes from OFF to ON, and will change from ON to OFF when the contact changes from ON to OFF.

(B) For pulse signal

- Even if the ON signal is input during ON, the status will remain ON.
- If the local remote controller is prohibited, the ON/OFF operation mode and temperature setting operations by the local remote controller will be prohibited.
- Set the pulse width (contact ON time) to 0.5 to 1 sec.

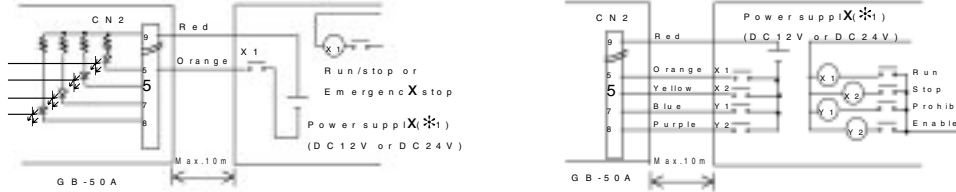
3-6. Central controller GB-50A

3-6-2. External input/output usage

3-6-2-1. External biVnal inpdt fndction

(4) Recommended circuit example

(A) For level signal



- ① The contact relays, DC power source, extension cable, etc., must be prepared separately at the site.
- ② The connection cable can be extended up to 10m. (Use a 0.3mm² or thicker wire.)
- ③ Strip the extra cable near the connector, and securely insulate the exposed section with tape, etc.

3-6-2-2. External biVnal outpdt fndction

* External signal output requires the external I/O adapter (Model: PAC-YG10HA-E) sold separately.

(1) External output

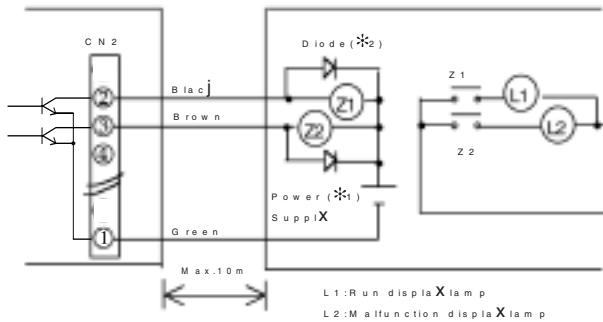
When one or more air conditioners are running, the "ON" signal will be output and if a malfunction occurs in one or more air conditioners, the "Malfunction" signal will be shown.

(2) External output specifications

| CN 2 | Lead wire | Details of each terminal |
|------|-----------|--------------------------|
| No.1 | Green | Common (External ground) |
| No.2 | Black | ON/OFF |
| No.3 | Brown | Malfunction/normal |

- ① "ON" signal and "Malfunction" signal will both be output.

(3) Recommended circuit example



- Use Z1 and Z2 relays having the following specifications.
- Operation coil : DC 12V, DC 24V
 - Rated voltage : DC 12V, DC 24V
 - Power Consumption : 0.9W or less
- (*1) Prepare a power supply separately according to the relay being used. (DC 12V or DC 24V)
- (*2) Always insert a diode on both ends of the relay coil.

- ① Each element will turn on while ON operation or a malfunction occurs.
- ② The connection cable can be extended up to 10m.
- ③ The relays, lamps, diodes and extension cables, etc., must be prepared separately at the site.

3-6. Central controller GB-50A

3-6-3. LAN connection function

Connect the LAN cable to the LAN connector of this device.

- * Procure the LAN cable at the site, and use an enhanced category 5 UTP cable.
- * For a description of the IP address setting method, refer to Installation Manual.
- * LAN is 10 BASE-T Specification.
- * The maximum wiring length from HUB to GB-50A is 100m.
- * GB-50A is connected to the monitoring PC via HUB.

NOTE

- * Perform the LAN wiring before installation, and wire up to the body the same method as wiring the M-NET transmission line.
- * When a LAN is already connected, decide the IP address by consultation with the system administrator and connect to the LAN body after changing the IP address.
- * Space for the connector and wiring is required. Refer to Installation Manual.

3-6. Central controller
GB-50A

3-6-4. Browser screens of GB-50A



Condition List (Overview)



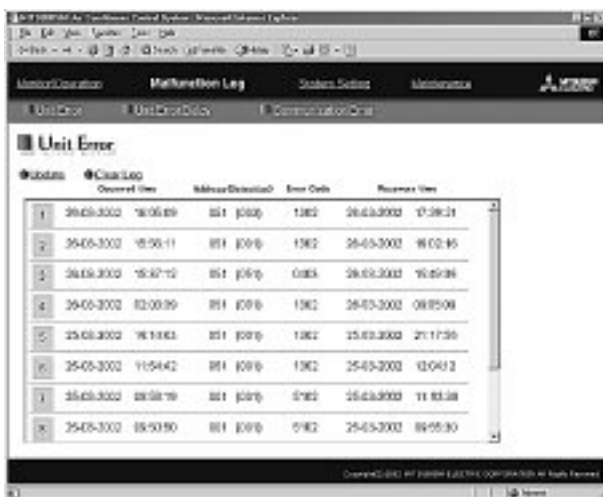
Condition List (Block)



Operation



Malfunction List



Malfunction Log

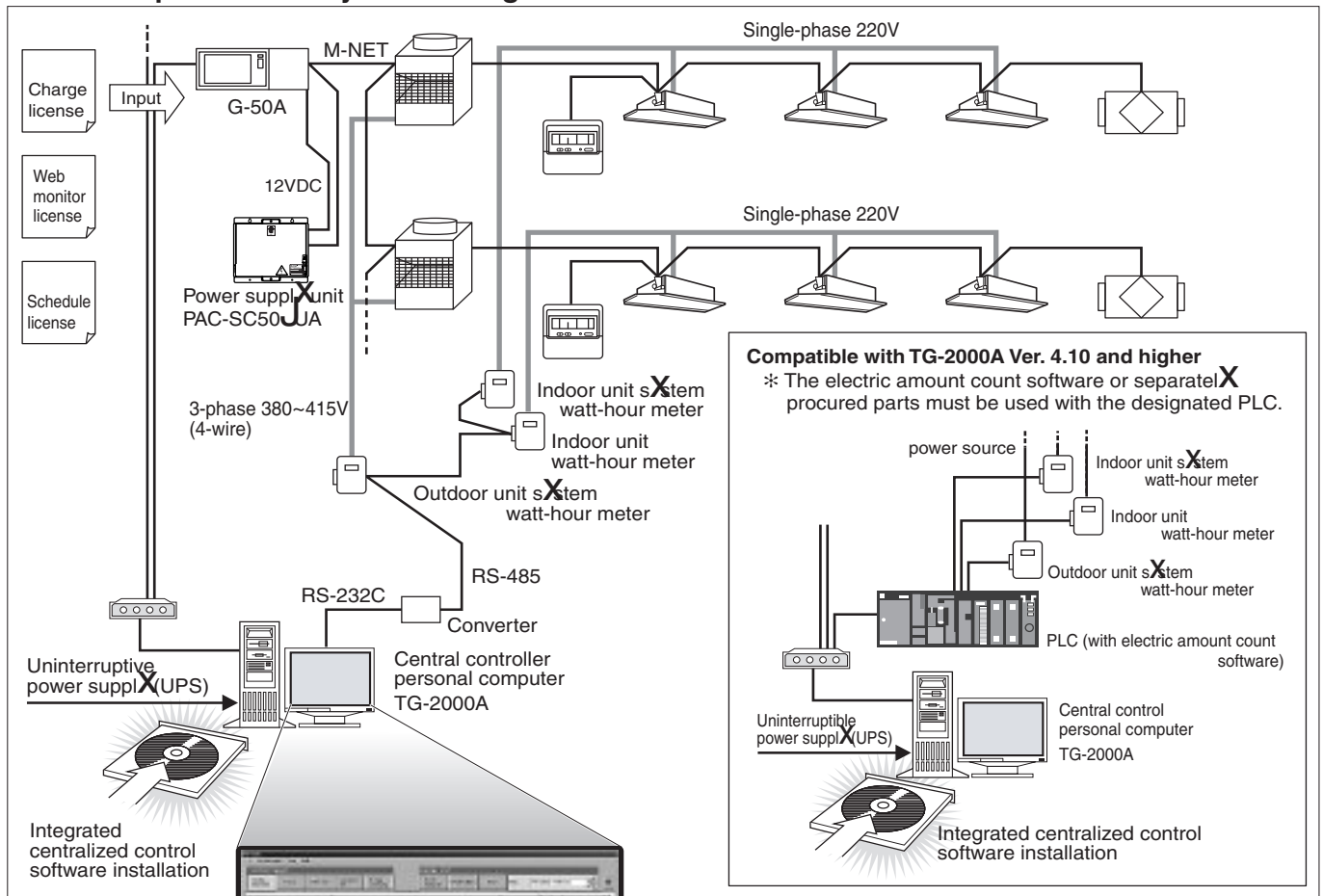


Weekly Schedule

3-7. Integrated centralized control software

TG-2000A

3-7-1. Example of Basic System Configuration.



Compatible with TG-2000A Ver. 4.10 and higher
 ※ The electric amount count software or separate procured parts must be used with the designated PLC.

power source
 Indoor unit system watt-hour meter
 Indoor unit watt-hour meter
 Outdoor unit system watt-hour meter
 Outdoor unit watt-hour meter
 PLC (with electric amount count software)
 Uninterruptible power supply (UPS)
 Central control personal computer TG-2000A
 Integrated centralized control software installation

The TG-2000A can realize the following functions using the G-50A/GB-50A option (license).

- ※ Operation/monitor
- ※ Annual/weekly schedule
- ※ Charge
- ※ Energy saving ※1
- ※ Peak cut ※1

※1: Compatible with TG-2000A Ver. 4.10 and higher, G-50A Ver. 2.51 or later.

■ Main features of TG-2000A

- ① Up to 2000 indoor units (40 G-50A or GB-50A units) can be operated and monitored simultaneously.
 - ② The air-conditioner layout can be displayed on the screen, making control and operation easier.
 - ③ The annual and weekly schedules can be set. Two schedules, such as the summer master and winter master, can be saved in the weekly schedule.
 - ④ Air-conditioning charges can be calculated based on the multiple air-conditioner usage results. The power apportionment percentage data and apportioned power rate can be calculated for each indoor unit using the power apportionment function, and can be output as a CSV format file. ※ Power apportionment charging is not possible with the old model, A control or J control.
 Charging without WHM : The user manually inputs the power rate to calculate the air-conditioning charges. (Using a tool)
 RS-485 WHM charging : The RS-485 WHM value is automatically tabulated to calculate the air-conditioning charges.
 PLC pulse WHM charging : The pulse output WHM value is automatically tabulated by the PLC to calculate the air-conditioning charges.
 - ⑤ Energy saving operation is possible using the "ON/OFF", "set temperature change", "fan operation changeover" and "performance save operation (5% to 90%)" functions.
 Energy saving operation matching the amount of power in use is possible by using the PLC's electric amount count software.
 - ⑥ Night Set-Back function operation is possible with schedule settings. ※1,4
 - ⑦ General equipment can be operated and monitored. ※2
 - ⑧ General equipment can be schedule-controlled when using PAC-YG21CDA with PLC.
 For details of PLC refer to Installation Manual of PAC-YG21CDA. ※3
- ※1: Compatible with TG-2000A Ver. 4.10 or later, G-50A Ver. 2.51 or later.
 ※2: Compatible with TG-2000A Ver. 4.30 or later, G-50A Ver. 2.51 or later.
 ※3: Compatible with TG-2000A Ver. 4.50 or later, G-50A Ver. 2.70 or later.
 ※4: With Night Set-Back function, the CITY MULTI system can run at heating mode with target temperature set to 12°C under schedule control. This function can protect the room from dropping down to extremely low temperature at mid-night.

3-7. Integrated centralized control software

TG-2000A

3-7-2. List of TG-2000A functions

The data for each G-50A/GB-50A can be grouped and used to control the operation of up to 2000 units in floor or block units, etc., from the personal computer screen. By using a PLC or a watt-hour meter, the power rate can be apportioned, energy saving control can be executed, and other general equipment can be controlled.

List of integral software functions

| Item | Details | G-50A/GB-50A license | | | | | |
|---|---|----------------------|--------|----------|--------------------------|---------------------------------|---------|
| | | Web monitor | Charge | Schedule | Energy saving (peak cut) | Energy saving general equipment | PLC for |
| ON/OFF | The units can be turned ON and OFF for all floors or in block, floor or group units. | V | | | | | |
| | The general equipment can be turned ON and OFF. (*: A PLC and the general equipment control PLC software required.) *:2 | V | | | | | |
| Operation modes | The operation mode can be switched between COOL, DRY, FAN, AUTO and HEAT for all floors or in block, floor or group units. | V | | | | | |
| Temperature setting | The room temperature can be set for all floors or in block, floor or group units. Set temperature range COOL / DRY : 19°C to 30°C HEAT : 17°C to 28°C AUTO : 19°C to 28°C * Depend on unit type | V | | | | | |
| Fan speed | The fan speed can be set to four stages for all floors or in block, floor or group units. | V | | | | | |
| Air direction | The air direction can be set in four vertical directions or to swing for all floors or in block, floor or group units. (The selectable air direction differs according to the model.) | V | | | | | |
| Interlocked unit ON/OFF (LOSSNAY) | If there is an interlocked unit (LOSSNAY), the unit can be turned ON (strong/weak) or OFF for all floors or in block, floor or group units. (Note that the ventilation mode cannot be selected for interlocked units.) | V | | | | | |
| Local operation prohibit | The items for which operation with the local remote controller are to be prohibited can be selected for all floors or in block, floor or group units. (The items that can be prohibited are ON/OFF, operation mode, set temperature and filter sign reset.) | V | | | | | |
| Annual / weekly schedule | The annual/weekly schedule function can be used by registering the license. Two settings, such as seasonal settings for summer and winter, can be saved. | V | | V | | | |
| Power rate apportionment charging (power rate manual input) | By registering the G-50A unit license number, the power rate apportionment percentage data for each indoor unit can be output in CSV format. The power rate for each tenant can be easily calculated by having each user input the power rate manually. | V | V | | | | |
| Power rate apportionment charging | An RS-485 watt-hour meter is connected to calculate the air-conditioning charges based on the amount each tenant's air-conditioner has operated. Two charging rates can be applied per day. | V | V | | | | |
| | By using a PLC (with electric amount count software) and a watt-hour meter with pulse transmitter, the air-conditioning charges can be calculated based on the amount each tenant's air-conditioner has operated. Up to five charging rates can be applied per day. *:1 | V | V | | | | |
| History | Up to 3000 items for the error history and up to 10000 items for operation history can be saved. Each history file can be output as a daily report or monthly report in CSV format. The operation history consists only of the operations carried out with the TG-2000A, and is limited to some limited operation items. | V | | | | | |
| Operation time monitor | The cumulative operation time of each indoor unit can be viewed or output as a CSV format file. (This function is valid only when the charging function license is registered.) | V | V | | | | |
| Filter sign display | Automatic display of the filter sign can be disabled. (System batch.) In this case, the filter sign state is confirmed with manual operations. | V | | | | | |
| Energy saving control *:1 | Energy saving operation is possible using the "ON/OFF", "set temperature change", "fan operation changeover" and "performance save operation" functions. | V | | | V | | |
| Energy saving (peak cut) *:1 | Energy saving operation matching the amount of power in use is possible. (PLC (with electric amount count software) and watt-hour meter with pulse transmitter are required.) | V | | | | V | |
| Night Set-Back function *:1,4 | Heating from 12°C and higher can be set using the schedule. | V | | | | | |
| Set temperature limit *:1 | The set temperature lower limit can be set for cooling and the upper limit for heating. | V | | | | | |
| Control other general equipment | It is possible to control other general equipment on ON/OFF operation / monitoring / Alarm / scheduling, if TG-2000A combines PLC installed with PLC software PAC-YG21CDA. *:2 | V | | | | | |
| | Setting inter-lock with CITYMULTI indoor units is possible. (Table setting tool for input/output definition is needed.) *:3 | V | | | | | V |

*1: Compatible with TG-2000A Ver. 4.10 or later, G-50A Ver. 2.51 or later.

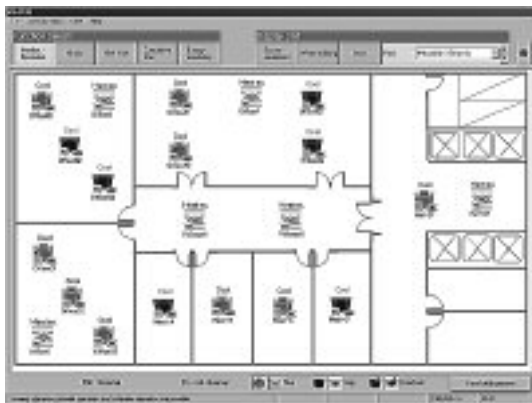
*2: Compatible with TG-2000A Ver. 4.30 or later, G-50A Ver. 2.51 or later.

*3: Compatible with TG-2000A Ver. 4.50 or later, G-50A Ver. 2.70 or later.

*4: With Night Set-Back function, the CITY MULTI system can run at heating mode with target temperature set to 12°C under schedule control. This function can protect the room from dropping down to extremely low temperature at mid-night.

3-7. Integrated centralized control software
TG-2000A

3-7-3. Browser screens of TG-2000A



Floor screen



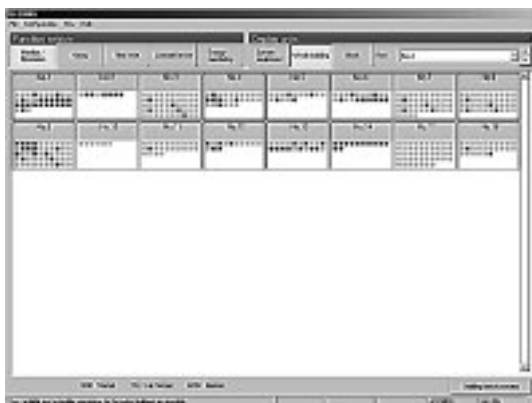
WeeIX schedule screen



Bloc screen



Annual schedule screen



All floor screen



Operation setting screen



Air-conditioning charge screen

3-7. Integrated centralized control software TG-2000A

3-7-4. Requirements (system recommendations)

We recommend the following software and hardware when using this application (TG-2000A).

| Item | Requirement | Recommended |
|----------------|--|--|
| PC | PC/AT interchangeable machine | Operation check completed, using IBM, COMPAQ, and DELL |
| CPU | Within 1000 indoor units : Pentium 4 1.8GHz or faster 1001 indoor units or over : Pentium 4 1.8GHz or faster (Case of temp, trend use : 2.8GHz or faster.) | Pentium 4 2.8GHz or faster |
| Memory | 128MB or more (In Windows XP : 256MB or more) | 512MB or more |
| HDD | 6GB or more (2GB or more of C drive free space necessary) | 4GB or more of C drive free space necessary When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2GB, 500 groups = 5GB, 1000 groups = 10GB, 2000 groups = 20GB |
| Storage device | FDD, CD-ROM drive | Devices other than those shown at the left may also be installed. |
| Resolution | 1024 X 768 or higher, 65536 colors or more | |
| Serial port | 1 port or more | Required when using RS-485 communication WHM |
| LAN | Internal LAN (10/100 Mbps) | *1 |
| OS | Windows XP Professional Windows 2000 Professional Service Pack 2 and above | English version only * Personal computer must support each OS. |
| Other | Computer must be dedicated for this use (TG-2000A). | |

*1 Purchase the option, or use the equipment recommended for the personal computer when purchasing the personal computer.

3-7-5. Compatible Units

The TG-2000A has two main functions: centralized control of air conditioners and cost accounting. However, not all functions are available with all air conditioners.(TG-2000A Ver4.80 or later)

Table: Compatible units and function list (○ : supported, △ : Certain restrictions apply, × : Not supported)

| Model \ Function | Control/ Maintenance | Charging (Billing) without WHM | Charging (Billing) with WHM |
|---------------------|-------------------------|-----------------------------------|-----------------------------|
| Y series | ○ | | ○ *1 |
| Super Y series | ○ | | ○ *1 |
| R2 series | ○ | | ○ *1 |
| WR2 series | ○ | | ○ *1 |
| WY series | ○ | | ○ *1 |
| Multi S series | ○ | | ○ *1 |
| Indoor unit | ○ | | ○ *2 |
| LOSSNAY | ○ | | ○ *4 |
| OA processing unit | ○ | | ○ *1 |
| "A" control type *3 | ○ (Adapter required) | | ○ *1 |
| "K" control type *3 | ○ (Adapter required) | | ○ *1 |

*1 : Can be calculated for each charging block. May not be available with some older models.

*2 : Indoor unit models before Free Plan models do not support a charge apportioning billing method based on the "capacity save". The existence of even a single unit of those types in the system requires that the method of charge apportioning billing be set to either "Thermo on time" or "Fan operation time".

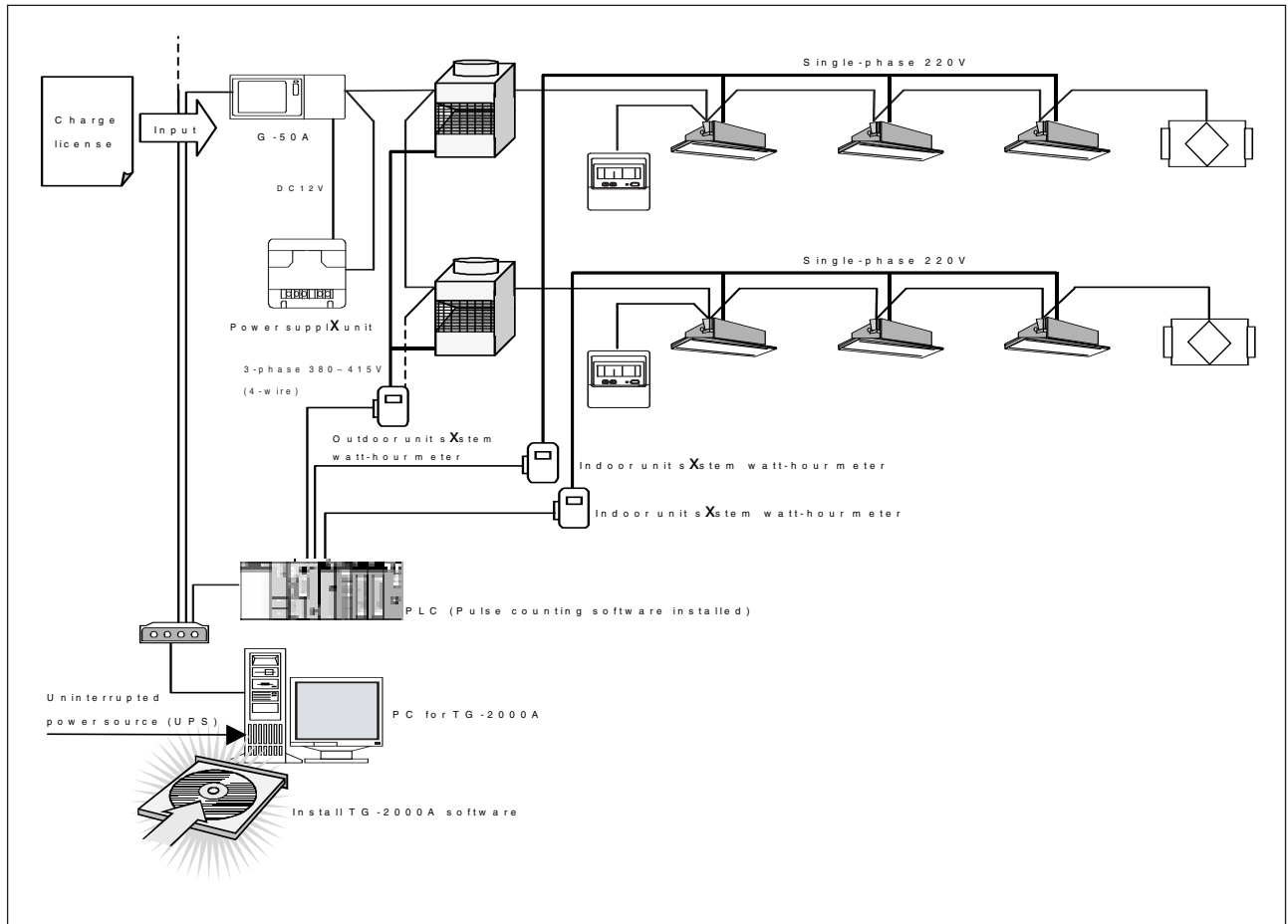
*3 : Not all of the A-control and K-control units support these functions. The calculation of the charge for the auxiliary heater may not be handled by these units.

*4 : LOSSNAY groups to which the remote controller is connected support the charging system.

3-8. Electric amount count software PAC-YG11CDA

MITSUBISHI ELECTRIC offers charging function for the air conditioner system. Detailed output of every indoor on electricity consumption of air-conditioning is available. The electricity consumption of air-conditioner is counted based on the refrigerant consumption of every indoor unit, which makes the proportion of electricity consumption precise.

■ System example



■ Necessary parts for the system

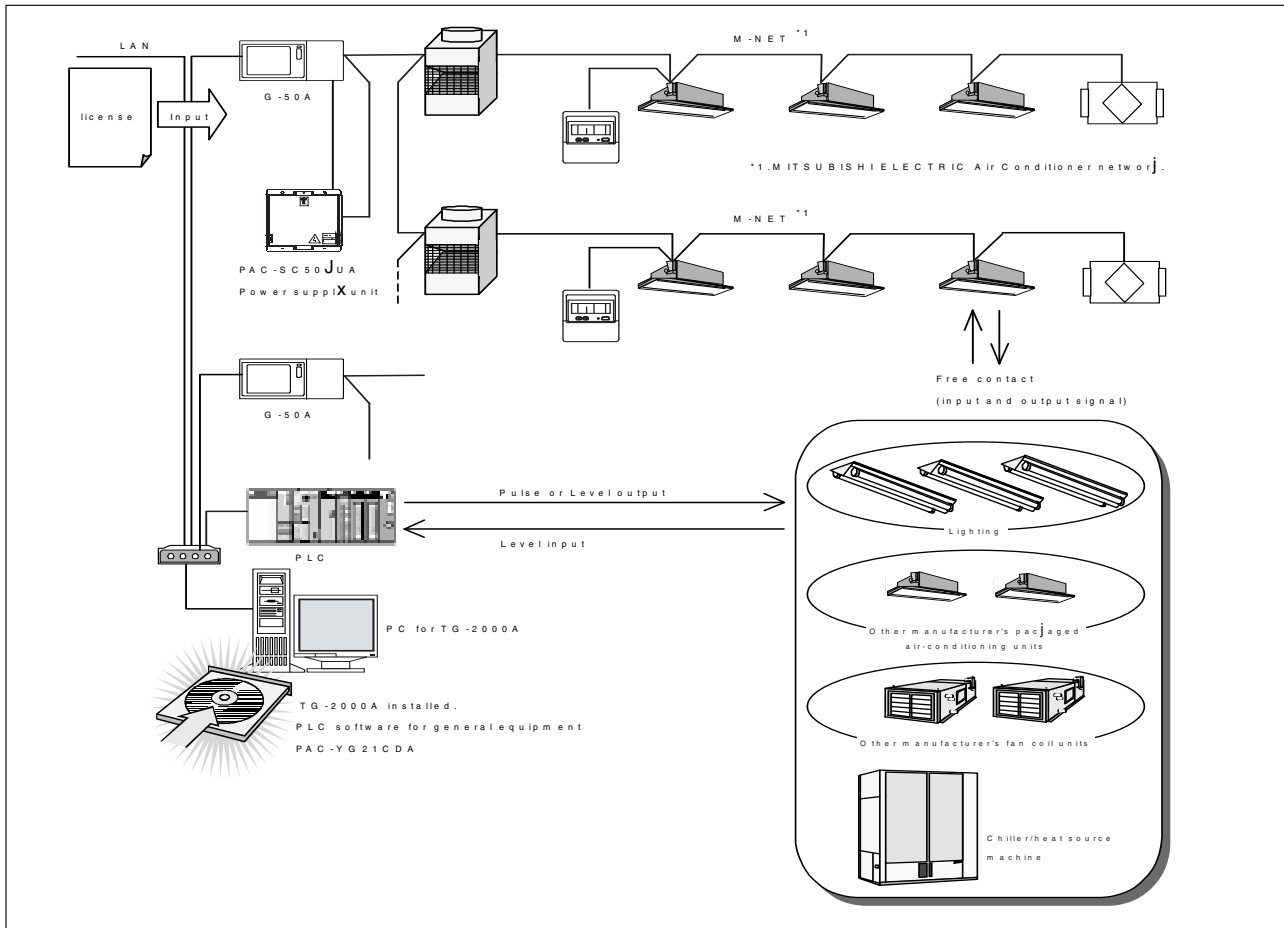
| Name (Model name) | Manufacturer | Remarks |
|---------------------------------------|---------------------------------|---|
| PC for central control | PC/AT convertible unit | Confirmed operation of IBM, DELL, Hp Compaq. For details, refer to G-50A Technical Manual. |
| TG-2000A | MITSUBISHI ELECTRIC | |
| Charge license | MITSUBISHI ELECTRIC | Requires for each G-50A/GB-50A. |
| Web monitor license | MITSUBISHI ELECTRIC | Requires for each G-50A/GB-50A. |
| PLC | MITSUBISHI ELECTRIC | PLC for pulse counting connects maximum 5 sets. For details, refer to Installation Manual of PAC-YG11CDA. |
| PAC-YG11CDA | MITSUBISHI ELECTRIC | For details, refer to G-50A Technical Manual. |
| Watt-hour meter with pulse oscillator | MITSUBISHI ELECTRIC | For the specification of the watt-hour meter, refer to G-50A Technical Manual. |
| Uninterrupted power source (UPS) | MITSUBISHI ELECTRIC (reference) | FREQUPS A-series. (Line interactive system) |

3-9. PLC software for general equipment PAC-YG21CDA

MITSUBISHI ELECTRIC's Air Conditioner control system can combine control of general equipment like lighting, air conditioners from others, and so on.

Functions on general equipment : On/Off operation, alarm, monitoring, scheduling.

■ System example



■ Necessary parts for the system

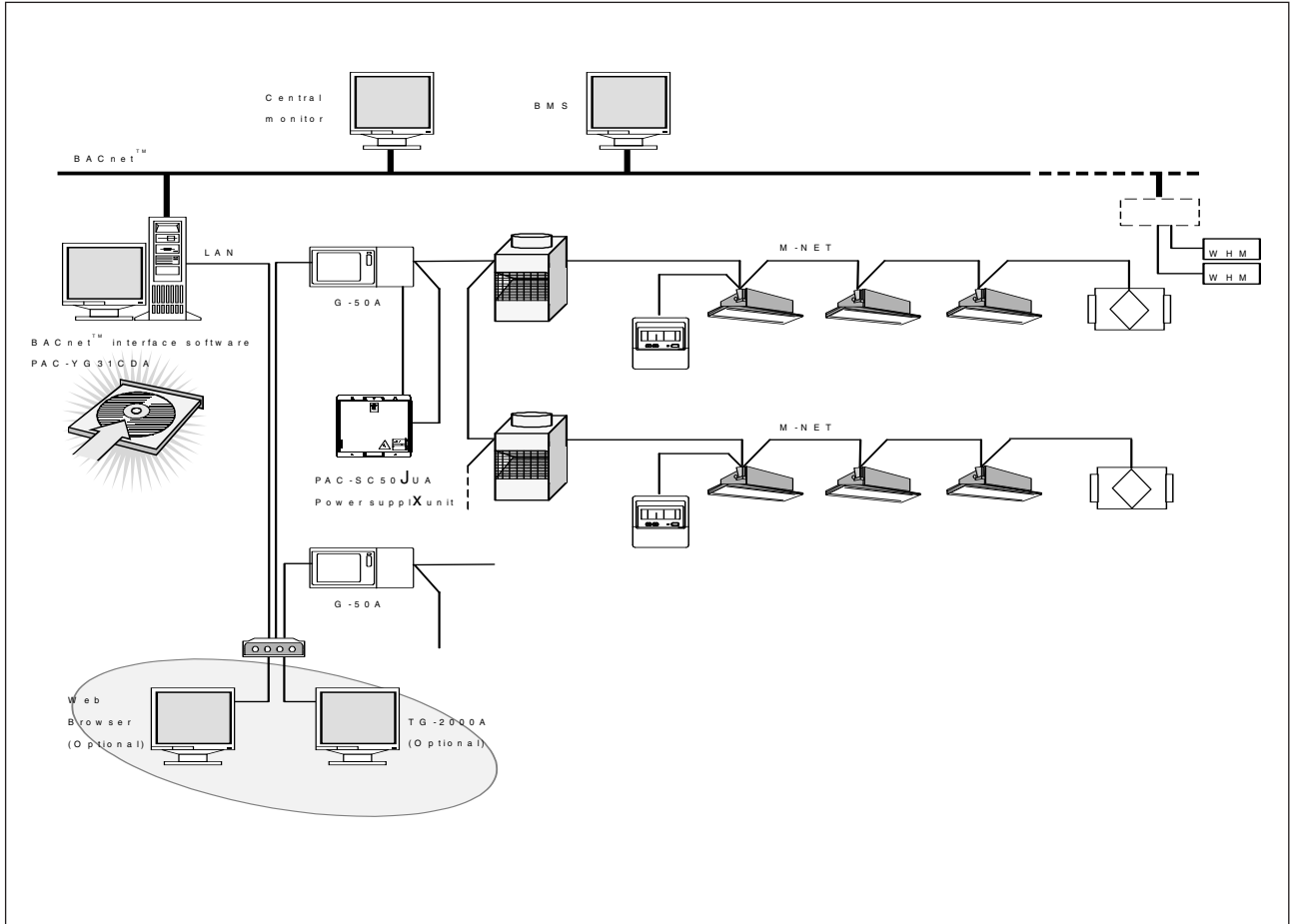
| Materials (model names) | Maker | Remarks |
|------------------------------------|---------------------|---|
| PC for central control | PC/AT compatible | Confirmed operation of IBM, DELL, Hp Compaq. For details, refer to G-50A Technical Manual. |
| TG-2000A | MITSUBISHI ELECTRIC | Use Ver.4.60 or later (Use G-50A's Ver. 2.70 or later) |
| Web monitor license | MITSUBISHI ELECTRIC | Requires for each G-50A/GB-50A. |
| PLC for general equipments license | MITSUBISHI ELECTRIC | Table-setting of input/output is necessary. |
| PLC | MITSUBISHI ELECTRIC | Make sure DI board and DO board are mounted. |
| PAC-YG21CDA | MITSUBISHI ELECTRIC | For details, refer to G-50A Technical Manual. |

3-10. BACnet™ interface PAC-YG31CDA

CITY MULTI™ can easily combine into a Building Management System (BMS) via the BACnet™ interface software and a PC. BACnet™ is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI™ is therefore compatible with large-scaled BMS management via BACnet™.

One BACnet™ interface software and PC serves up to 10 G-50A/GB-50A units.

■ System example



Communication items at BACnet™ Interface Software PAC-YG31CDA

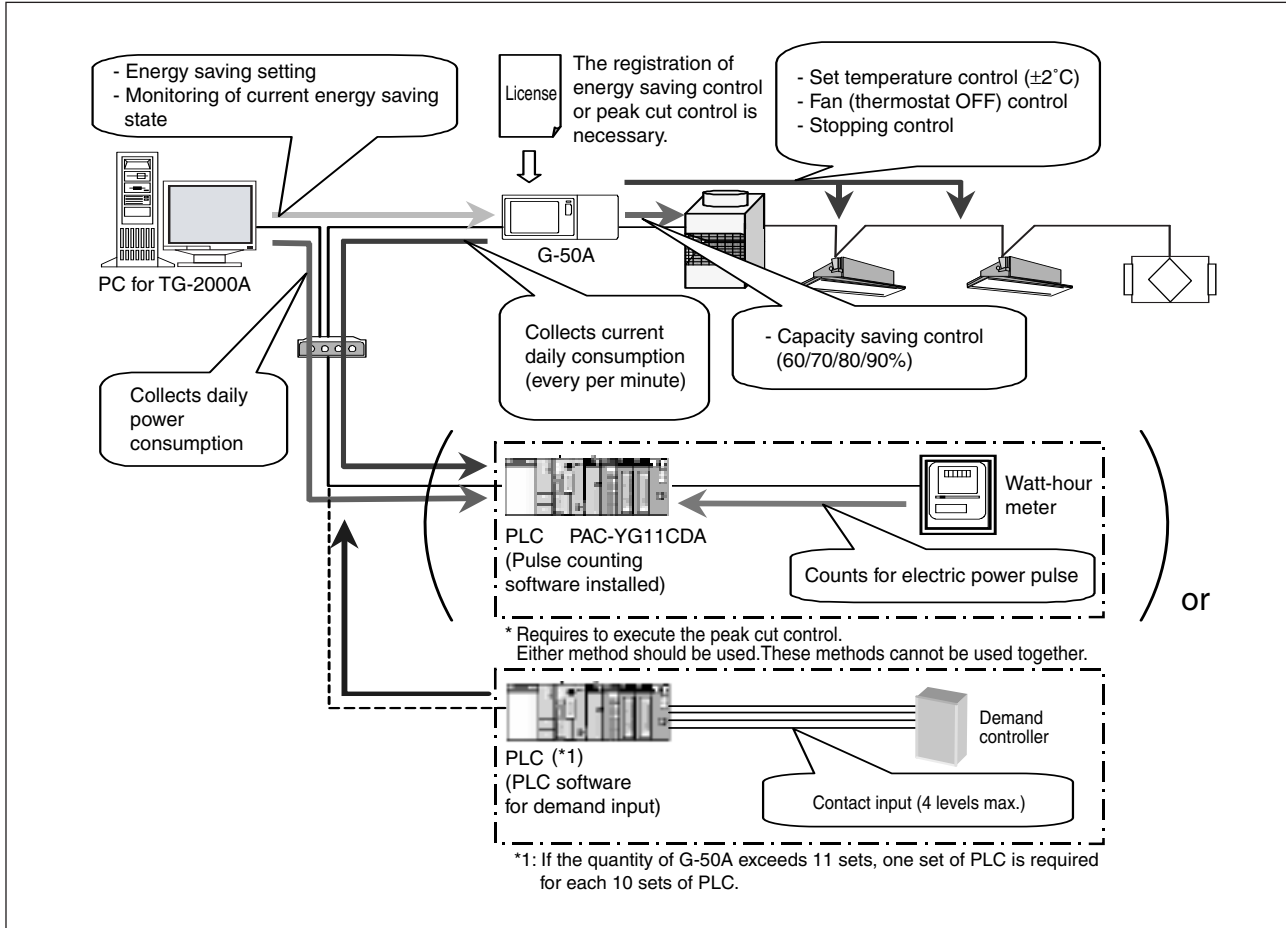
| | | | |
|-----------|--|---------------------|---|
| Operation | On/Off Mode Fan speed Air direction Set temp. Filter sign reset | State Monitoring | On/Off Mode Fan speed Air direction Set temp. Filter sign Indoor temperature |
| | Prohibit local On/Off Prohibit local Mode Prohibit local Filter sign reset Prohibit local Set temp. Forced Off | | Prohibit local On/Off Prohibit local Mode Prohibit local Filter sign reset Prohibit local Set temp. Alarm signal Error code Communication state |

*You need a PC to use with PAC-YG31CDA.

3-11. PLC software for demand input
PAC-YG41CDA

MITSUBISHI ELECTRIC's CITYMULTI™ has its intelligent way to carry out peak-cut control while maximizing the air conditioning effect.

■ System example



■ Necessary parts for the system

| Name (Model name) | Maker | Remarks |
|--|------------------------|--|
| PC for central control | PC/AT convertible unit | Confirmed operation of IBM, DELL, Hp Compaq. For details, refer to G-50A Technical Manual. |
| TG-2000A | MITSUBISHI ELECTRIC | Use Ver.4.6 or later. |
| G-50A | MITSUBISHI ELECTRIC | Use Ver.2.6 or later. |
| Energy saving control (peak cut) license | MITSUBISHI ELECTRIC | Requires for each G-50A/GB-50A. |
| Web monitor license | MITSUBISHI ELECTRIC | Requires for each G-50A/GB-50A. |

3-11. PLC software for demand input PAC-YG41CDA

Applying the energy saving setting from the integrated centralized control software TG-2000A allows conducting the energy saving control by the indoor/outdoor units or peak-cut control by using PLC.

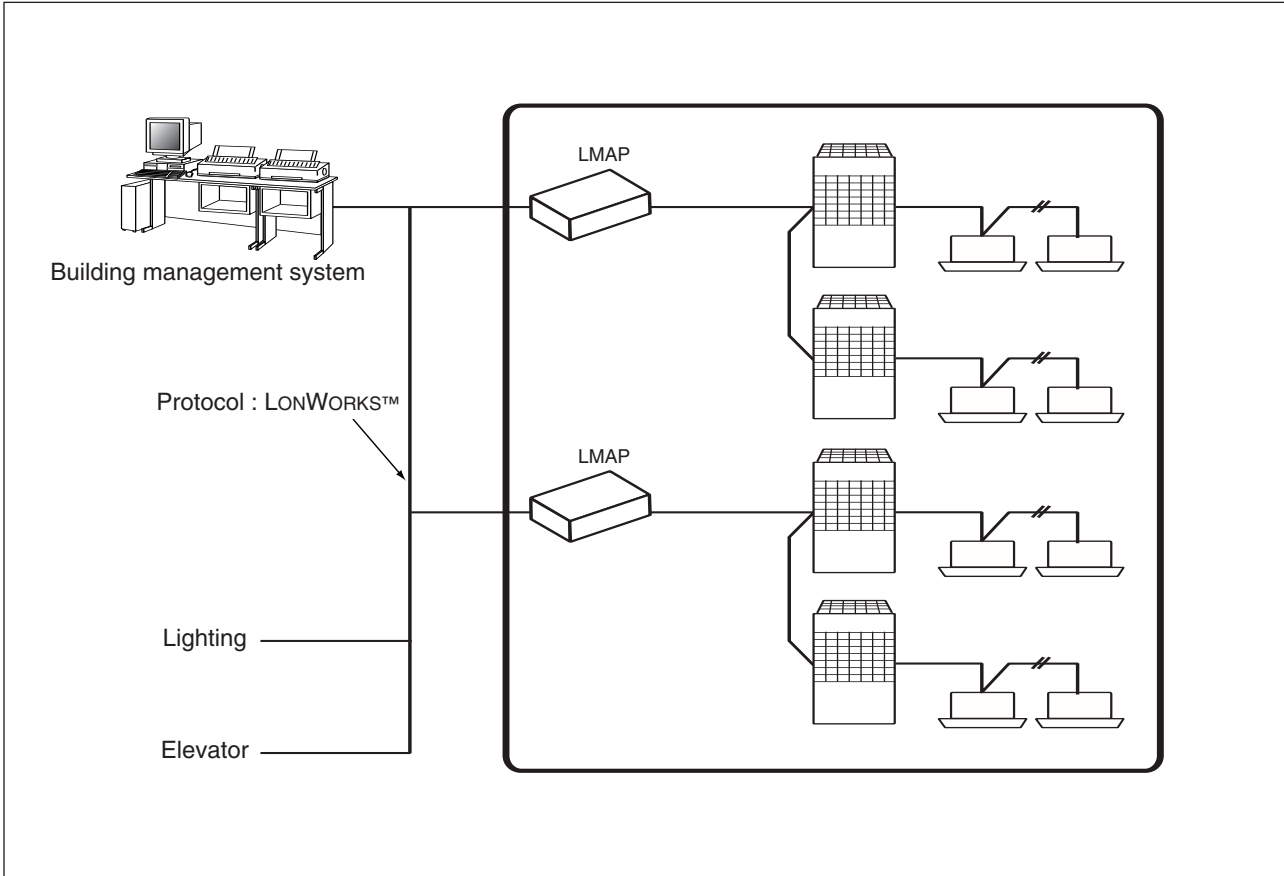
| Item | | Content |
|---|----------------------|--|
| Energy saving control | Indoor unit control | <p>The integrated software sets the following energy saving items and energy saving time to G-50A/GB-50A per operation block. G-50A/GB-50A conducts energy saving operation to the indoor units with the set detail.</p> <ul style="list-style-type: none"> ① Temperature control ($\pm 2^{\circ}\text{C}$) ② Fan control (Thermo-OFF) ③ Stopping control <p>For the block with temperature difference between set and inlet temperature exceeding the set, the energy saving control set at level 0 is not applied.</p> |
| | Outdoor unit control | <p>The integrated software sets the following energy saving items and energy saving time to G-50A/GB-50A per outdoor unit and the set G-50A/GB-50A conducts the energy saving operation for the outdoor unit.</p> |
| Peak cut control | | <p>Connecting the watt-hour meter (PLC) allows conducting energy saving operation meeting the power consumption. The control object and detail are same as that of the energy saving rotated control. One set of the watt-hour meter can be set for each G-50A/GB-50A.</p> |
| Monitoring of energy saving control status/history ¹ | Control status | <p>During the energy saving control, the energy saving mark is displayed on the air conditioner group icon of Web, integrated software.</p> |
| | Daily report | <p>Daily power consumption and control level can be monitored by the integrated software. G-50A/GB-50A can hold the data for 3 days max. including that of today, yesterday and the day before yesterday.</p> |
| | Monthly report | <p>Monthly power consumption can be monitored by the integrated software (for 62 days max.). The integrated software monitors from PLC for display and storing.</p> |

3-12. Air conditioner interface LMAP02-E

CITY MULTI™ can easily combine into a Building Management System (BMS) via the LonWorks™ and M-NET adapter LMAP02-E. LonWorks™ is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI™ is therefore compatible with large-scaled BMS management via LonWorks™.

One LMAP02-E serves up to 50 indoor units.

■ System example



Communication items at LonWorks™ and M-NET Adapter LMAP02-E

| | | | |
|-----------|---|---------------------|---|
| Operation | On/Off Mode Set point from network (Set temp.) Fan speed | State Monitoring | On/Off Mode Set point from network (Set temp.) Fan speed |
| | Prohibit local On/Off Prohibit local Mode Prohibit local Set temp. Batch Off | | Thermo On/Off Indoor temperature Alarm signal Prohibit local On/Off Prohibit local Mode Prohibit local Set temp. |

3-12. Air conditioner interface LMAP02-E

Environment specification

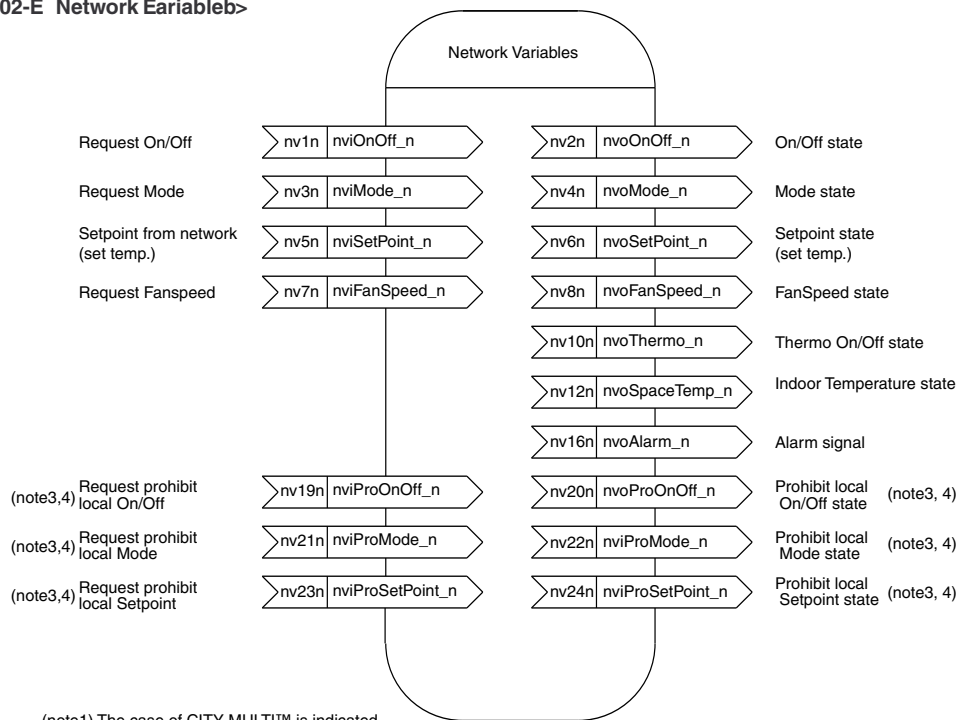
| Item | Description | |
|---------------------|---|-----------------------------------|
| Connected Equipment | MITSUBISHI ELECTRIC Multiple split-type air conditioners CITY MULTI Split-type air conditioners Mr.SLIM Heat recovery ventilators LOSSNAY (*For details of the connectable models, please contact the dealer.) | |
| Number of Units | LM-AP can control 50 indoor units (including LOSSNAY) | |
| Neuron CHIP | TMPN3150 (10MHz) | |
| Network Transceiver | FTT-10A (Free Topology 78kbps) | |
| Performance | Average communication capacity | 2.5 inputs/second |
| | Peak communication capacity | 50 inputs/second (for one second) |

* The proper communication is not obtainable when communication intervals exceed its performance, assure sufficient intervals.

* ACK Service is recommended for the network service.

* Detailed specifications for the LONWORKS network can be found in "FTT-10A Free Topology Transceiver User's Guide" by Echelon Corporation.

<LMAP02-E Network Variable>



(note1) The case of CITY MULTI™ is indicated.

(note2) There is a case which cannot be used with the system configuration of the air conditioners units.

(note3) "n" of the network variable shows indoor unit address (M-NET).

(note4) It is possible to use when the "MA" remote controller.

External dimension

Dimensions: 340 (H) x 35 (W) x 59.5 (D) mm

Net Weight: 3.3 g

Power Source: ~ 220 - 240V (50/5 Hz)

Current Consumption: 50 mA (Maximum)

Operation Environment: Temperature: Operating Range -15 to 43°C, Storage Range -20 to 5°C; Humidity: 30 to 95 RH (No condensation)

Installation Environment: In the control box

Unit:mm

3-13. Power supply unit
PAC-SC50KUA

PAC-SC50KUA supplies DC powers of 24V and 12V at TB2 and TB3 respectively; the former is for central control transmission use and the latter is for G-50A operation and LAN function use.

3-13-1. When using PAC-SC50KUA as the power supplier for system controller, the capacity for system controller is considered as follows.

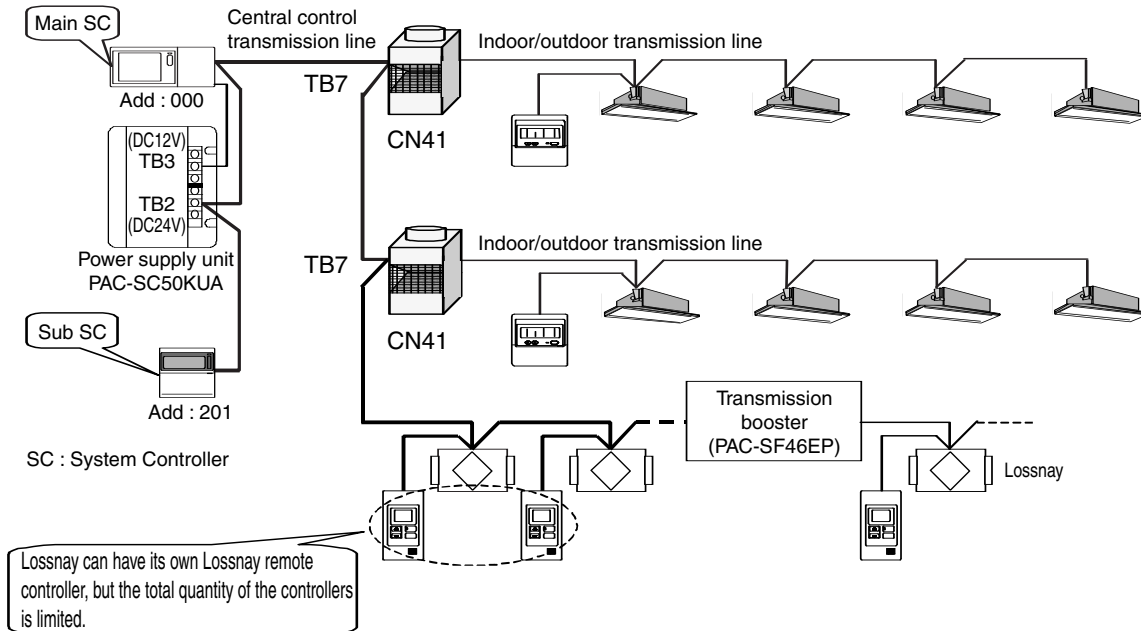


Fig. 3-13-1 Equivalent power consumption of controllers

In this case, pay attention to leave the power supply switch connector on CN41 of the Outdoor unit as the factory setting before shipment.

Taking the power consumption of the control board of Indoor unit as 1, the power consumption of various controllers is rated at Table 3-13-1.

Table 3-13-1 Equivalent power consumption of controllers

| Central controller | | Other System controllers | | Remote controllers |
|--------------------|--------|---|---|--|
| G-50A | GB-50A | ON/OFF remote controller (PAC-YT40ANRA) | System remote controller (PAC-SF44SRA) Schedule timer (PAC-YT34STA) Group remote controller (PAC-SC30GRA) | ME remote controller (PAR-F27MEA) LOSSNAY remote controller (PZ-52SF) |
| 0.5 | 3 | 1 | 0.5 | 0.25 |

PAC-SC50KUA is capable to supply equivalent power up to 6, therefore the maximum connectable number of system controllers is as follows.

Table 3-13-2 Max. connectable quantity of controller when using PAC-SC50KUA

| Central controller | | Other System controllers | | Remote controllers |
|--------------------|---------|---|---|--|
| G-50A | GB-50A | ON/OFF remote controller (PAC-YT40ANRA) | System remote controller (PAC-SF44SRA) Schedule timer (PAC-YT34STA) Group remote controller (PAC-SC30GRA) | ME remote controller (PAR-F27MEA) LOSSNAY remote controller (PZ-52SF) |
| 2 units (Note 1) | 2 units | 5 units | 12 units | 24 units |

(Note 1) Due to its current limit of DC12V supplying, the PAC-SC50KUA can supply power for maximum 2 G-50As.

As the air conditioner control system may combine all kinds of system controllers, the total power consumption of system controllers need to count with Table 3-13-1.

For example, the controller system contain 1 G-50A, 2 ON/OFF remote controllers, 1 schedule timer, 6 Lossnay remote controllers connected at centralized control communication line.

then the total power consumption is
 $1 \times 0.5 + 2 \times 1 + 1 \times 0.5 + 6 \times 0.25 = 4.5 < 6$.

One PAC-SC50KUA is therefore enough. In the case that total power consumption exceeds 6, transmission booster PAC-SF46EPA should be added. Details refer to section 3-14 Transmission booster.

3-13. Power supply unit PAC-SC50KUA

3-13-2. When supply power to 1 G-50A or GB-50A, the PAC-SC50KUA can supply power to other system controllers as follows. Details refer to Table 3-13-2-1 and Table 3-13-2-2.

Table 3-13-2-1

Connectable number of system controller when 1 G-50A is used.

V : Connectable

| | Total number of ON/OFF remote controller | | | | | | | |
|--|--|---|---|---|---|---|---|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 5 | |
| Total number of System remote controller, Schedule timer, Group remote controller | 0 | - | V | V | V | V | V | |
| | 1 | V | V | V | V | V | V | |
| | 2 | V | V | V | V | V | | |
| | 3 | V | V | V | V | V | | |
| | 4 | V | V | V | V | | | |
| | 5 | V | V | V | V | | | |
| | 5 | V | V | V | | | | |
| | 7 | V | V | V | | | | |
| | 8 | V | V | | | | | |
| | 9 | V | V | | | | | |
| | 10 | V | | | | | | |
| | 11 | V | | | | | | |
| | 12 | | | | | | | |

Table 3-13-2-2

Connectable number of system controller when 1 GB-50A is used.

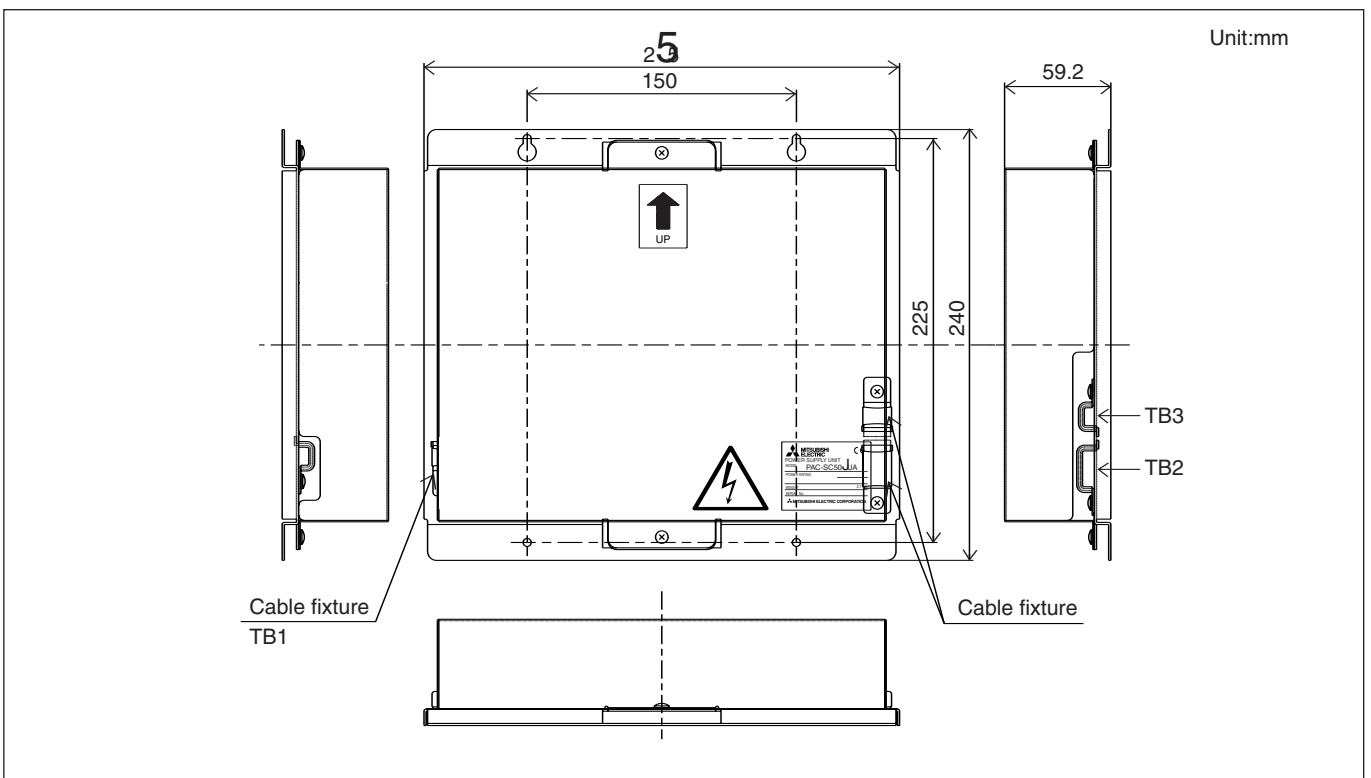
V : Connectable

| | Total number of ON/OFF remote controller | | | | | | | |
|---|--|---|---|---|---|---|---|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 5 | |
| Total number of System remote controller, Schedule timer | 0 | - | V | V | V | | | |
| | 1 | V | V | V | | | | |
| | 2 | V | V | V | | | | |
| | 3 | V | V | | | | | |
| | 4 | V | V | | | | | |
| | 5 | V | | | | | | |
| | 5 | V | | | | | | |
| | 7 | | | | | | | |
| | 8 | | | | | | | |
| | 9 | | | | | | | |
| | 10 | | | | | | | |
| | 11 | | | | | | | |
| | 12 | | | | | | | |

CAUTION

When applying Charge and/or Peak-cut function on G-50A or GB-50A, Power Supply Unit (PAC-SC50KUA) is recommended to use. G-50A or GB-50A is possible to receive power from one of the Outdoor units, but there is a risk that the failure of power supply from the Outdoor unit will cause G-50A's or GB-50A's function-down on the whole system.

External dimension



3-14. Transmission booster PAC-SF46EPA

The Outdoor unit supplies transmission power DC 30V for the indoor-outdoor transmission line at its connector TB3 and TB7. The power is consumed by the Indoor unit, OA processing unit, ME remote controller, Timers and System controllers. When the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers is over 40, or when transmission power supply is not enough, the transmission booster PAC-SF46EPA should be designed into the air-conditioner system to ensure the system communication. Indoor unit sized P200, 250 is counted as 2 units.

3-14-1. Designing PAC-SF46EPA into an air-conditioner system.

Taking the power consumption of Indoor unit sized P20-P140 as 1, the equivalent power consumption or supply of others are listed at Table 3-14-1 and Table 3-14-2.

Table 3-14-1 The equivalent power consumption by Indoor units, LOSSNAY, OA processing units, controllers

| Indoor, OA unit | Indoor unit | BC controller | MA RC. LOSSNAY | ME Remote Contr. | Timers, System Contr. | ON/OFF Contr. |
|------------------------------|-----------------|----------------------------------|---|--------------------------------------|--|---------------|
| Sized P20-P140 GUF-50,100 | Sized P200,P250 | CMB-P-V-G(A/B) CMB-P-V-F(A/B) | PAR-20MAA PAR-21MAA PAC-YT51CRA PAR-FA31MA LGH-RX-E | PAR-F27MEA PAC-SE51CRA PZ-52SF | PAC-SC30GRA PAC-SF44SRA PAC-YT34STA G-50A | PAC-YT40ANRA |
| 1 | 7 | 2 | 0 | 1/4 | 1/2 | 3 |

*RC : Remote Controller

Table 3-14-2 The equivalent power supply of Trans. Booster, Power supply unit, Connector TB3, TB7 of Outdoor unit.

| Transmission Booster | Power supply unit | Outdoor unit | Outdoor unit |
|----------------------|-------------------|-------------------------------|--------------------|
| PAC-SF46EPA | PAC-SC50KUA | Connector TB3 and TB7 total * | Connector TB7 only |
| 25 | 6 | 32 | 6 |

*If PAC-SC50KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32.

Transmission booster PAC-SF46EPA has equivalent transmission power 25.

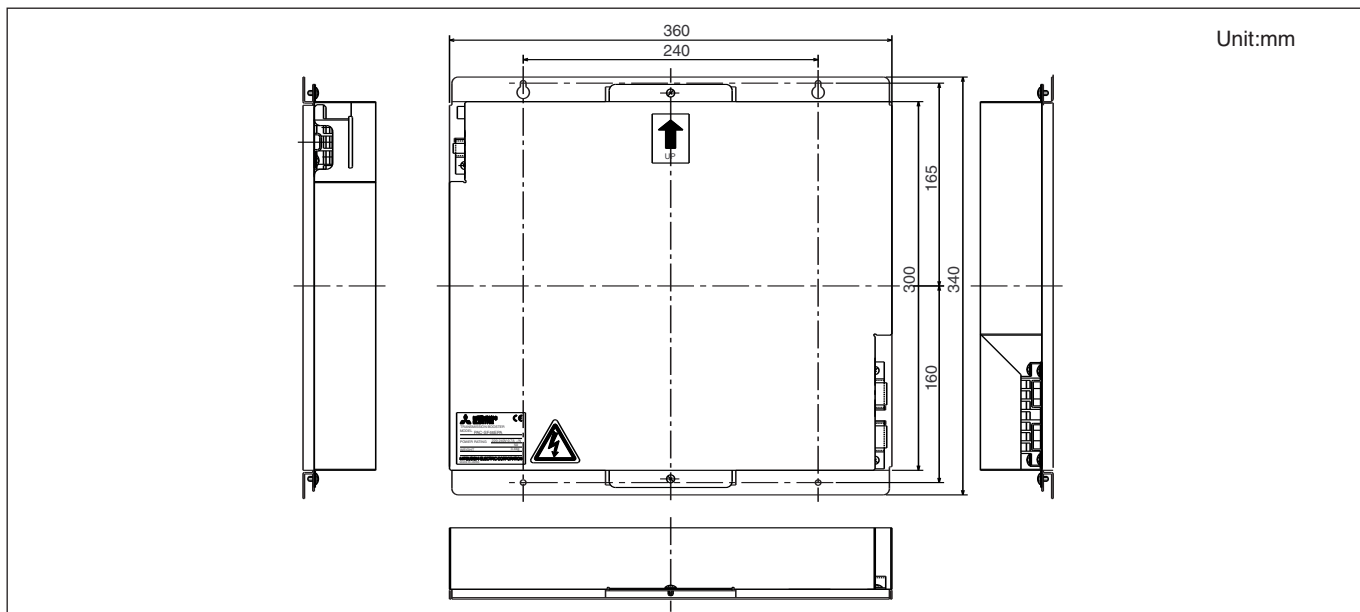
With the equivalent power consumption values in Table 3-14-1 and Table 3-14-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 3-14-1-A, B, C.

3-14-1-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 2 Indoor units, but MA remote controller(s), LOSSNAY is NOT counted.

3-14-1-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC50KUA is used to supply power at TB7 side, count from TB3 side only.

3-14-1-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

External dimension



CITY MULTI™ system can be monitored or controlled with signal to/from the outside as every control board of Indoor unit or Outdoor unit has input/output signal connectors. Independent control to the individual Indoor or Outdoor can be carried out by using these connectors. Yet, for large-scale control, MELANS would be much easier. When using input/output connectors, a dedicated adapter (optional part) and a relay circuit needed to be prepared by the site.

Following are some typical example.

Table 4-1. Control can be achieved by using Outdoor input/output connectors.

| Function | Usage | Using connector | | Signal |
|--|--|-----------------|------|--------|
| | | PUHY | PURY | |
| Forced Compressor ON/OFF | Input signal to Outdoor unit to stop the compressor, no matter cooling or heating mode set at Indoor. Usable to save energy at demand control | CN3S *1 | CN3D | Input |
| Night-mode | Input signal to Outdoor unit to lower the noise of Indoor unit. (When Indoor cooling/heating capacity is not enough, A/C system will cancel night-mode and return to normal running automatically.) | CN3D *1 | CN3D | Input |
| Auto-changeover | Input signal to Outdoor unit to switch to cooling-mode or heating mode as you will. | CN3D *1 | - | Input |
| Monitoring Compressor ON/OFF Monitoring Error-state | Signal from Outdoor unit, which can be used for monitoring or interlock with other equipment purpose and so on. | CN51 | CN51 | Output |

*1. For PUHY-P-YSGM, use the connector on PUHY-P-YGM, PUHY-P-YMM

Table 4-2. Control can be achieved by using Indoor input/output connectors.

| Function | Usage | Indoor connector | Signal |
|--|---|------------------|-------------------------|
| Remote/Local switching *1 ON/OFF *2*3 | Indoor group can be controlled ON/OFF by an ON/OFF switching or contact input to the connector of the head Indoor in an Indoor group. It can be interlocked with timer, door, window, or other equipment to "Force stopping" | CN32 | Input (level-signal) |
| ON/OFF *2*3 | Indoor group can be controlled ON/OFF by an external pulse signal input to the connector of the head Indoor in an Indoor group. | CN51 | Input (pulse-signal) |
| Demand | Indoor group can be controlled ON/OFF by an ON/OFF switching or contact input to the connector of every Indoor in an Indoor group. | CN52 | Input (pulse-signal) |
| Monitoring ON/OFF state | Signal output from a head Indoor unit, presenting its Indoor group. | CN51 | Output |
| Monitoring heating state | It can be used for monitoring or interlock with other equipment purpose and so on. | CN52 | |
| Monitoring cooling/drying state | | CN52 | |
| Monitoring Error state Monitoring Thermo-OFF(fan) state | Signal output from every Indoor unit, for monitoring Error or Thermo-off (fan) state. It can be used for monitoring or interlock with other equipment purpose and so on. | CN51 CN52 | Output |

*1. When switching to Remote, control at Local remote controller will NOT be effective, but the "CENTRALLY CONTROLLED" is displayed.

*2. MA or ME remote controller is needed for this function.

*3. If using ON/OFF input function, Automatic-address-start-up can not be performed to start-up the system at commissioning.

*4. If CITY MULTI™ use G-50A,/GB-50A and PLC software to control the Indoor unit via its external input/output connectors, Dip Switch 1-9 and Dip Switch 1-10 should be set to ON.

In this case, the input/output connectors act as normal connectors, functions mentioned at Table 4-2 are no more available.
Details are available at the PLC software Instruction Manual.

Table 4-3. ON/OFF control to each Indoor unit (group) by using Dip Switch 9 and 10 (SW1-9, SW1-10) of the Indoor unit.

| Function | Operation on Indoor units | Setting Dip Switch 1 *1*4 | |
|------------------|---|---------------------------|-----|
| | | 9 | 10 |
| All auto-restart | All Indoor unit will restart on its previous mode after 5 minutes from power recovered whichever it's ON or OFF before power-off. | OFF | ON |
| Auto recovery | Indoor unit recovers to its previous state after 5 minutes from power recovered. | ON | OFF |
| All OFF | Forced stopping regardless of Indoor units' state. | OFF | OFF |

*1. The Dip Switch setting should be carried out on every Indoor unit in the group.

*2. Outdoor unit's power supply should NOT be cut. Otherwise, power supply to case heater of the compressor would be cut too, which may cause damage to the compressor.

*3. Above method can not be applied to the power ON/OFF of the drain pump and humidifier equipment.

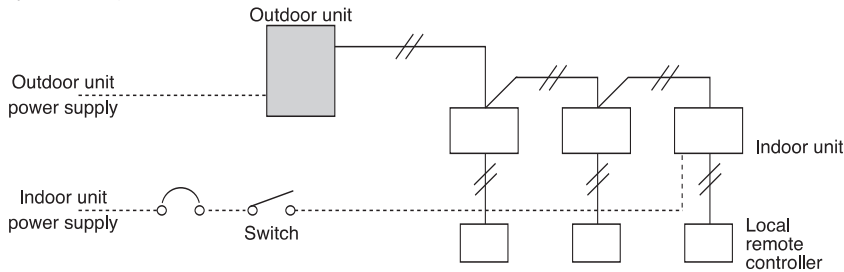
*4. If CITY MULTI™ use G-50A,/GB-50A and PLC software to control the Indoor unit via its external input/output connectors, Dip Switch 1-9 and Dip Switch 1-10 should be set to ON.

In this case, the input/output connectors act as normal connectors, functions mentioned at Table 4-3 are no more available.

Table 4-4. How to use Remote/Local switching connector CN32

| State | Local remote controller display and operation | Dip Switch 1 (local switching) | Dip Switch 2 (ON/OFF) |
|--------------------|--|-----------------------------------|--------------------------|
| Local: Permitted | Operation is permitted | OFF | OFF |
| Remote: Prohibited | "CENTRALLY CONTROLLED" flashing, Not possible the Local remote controller ON/OFF | ON | OFF |
| Remote: Permitted | "CENTRALLY CONTROLLED" flashing, Not possible the Local remote controller ON/OFF | ON | ON |

■ System example



Restart of the CITY MULTI™ needs to be careful. When no power supply to the Outdoor unit, no power supply to the compressor case heater too. The compressor needed to be warmed up before running. When using above functions, power supply to the Outdoor unit should be ensured.

Table 4-5. Limitations to combining system controls

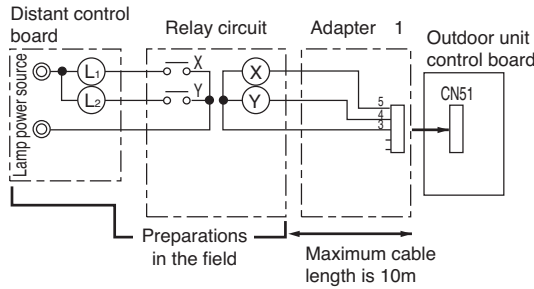
| | Description | | Control combining distant/local | Pulse ON/OFF | Power ON/OFF | Automatic recover |
|---|---------------------------------|------|---------------------------------|--------------|--------------|-------------------|
| 1 | Control combining distant/local | CN32 | - | X*1 | X*1 | X*1 |
| 2 | Pulse ON/OFF | CN51 | | - | O | O |
| 3 | HA ON/OFF(JEMA) | CN51 | | | O | O |
| 4 | Power ON/OFF | - | | | - | X |
| 5 | Automatic recover | - | | | | - |

*1. Pulse ON/OFF, power ON/OFF and automatic recover can only be used when the remote/local setting CN32 is set to local. Therefore, always avoid this function when combining control.

4-1. Outdoor unit input/output connector

4-1-1. All OUTDOOR UNITS

• State (CN51)



L1 : Outdoor unit error display lamp
 L2 : Compressor operation lamp (compressor running state)
 X, Y : Relay (coil $\leq 0.9W$: DC12V)

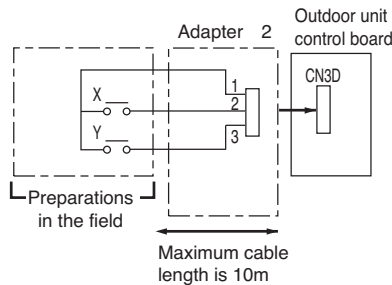
Caution:

1. Wiring should be covered by X insulation tube with supplementary X insulation.
2. Use relays or switches with IEC or equivalent standard.
3. The electric strength between accessible parts and control circuit should have 2750V or more.

1. Optional part : PAC-SC37SA or field supply.

4-2 PUHY, PUY, PDB50, 300, 350YGM
 PUHY, PUY, PDB50, 500, 550, 600, 650YGM

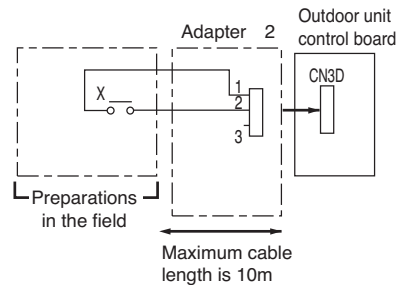
(1) Step demand (CN3D + DipSW4-7 ON)



| | | | |
|---|-----|------|-----|
| | | X | |
| | | OFF | ON |
| Y | OFF | 100% | 75% |
| | ON | 0% | 50% |

They are rough values.

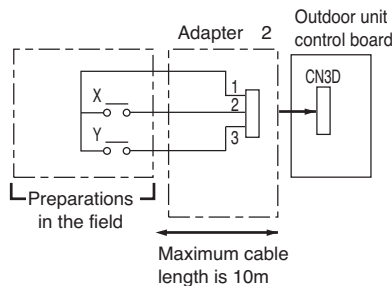
(2) Night mode (CN3D + DipSW4-7 OFF)



X : Relay

Night mode : The noise level is reduced by limiting the maximum fan frequency under the following condition.
 Cooling mode : outdoor temp. (TH6) <math>< 30^{\circ}C</math>
 Heating mode : outdoor temp. (TH6) $> 3^{\circ}C$

(3) Step demand and Night mode



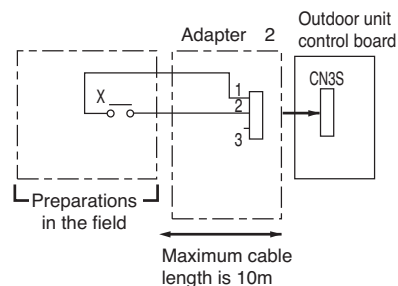
| | | | |
|---|-------|------|-------|
| | | X | |
| | | OPEN | SHORT |
| Y | OPEN | 100% | 75% |
| | SHORT | 0% | 50% |

They are rough values.

DipSW4-7 : OFF (Compressor ON/OFF and Night mode)

| | | | |
|-------|-------------------|-------|------------|
| Y | Compressor ON/OFF | X | Night mode |
| OPEN | ON | OPEN | OFF |
| SHORT | OFF | SHORT | ON |

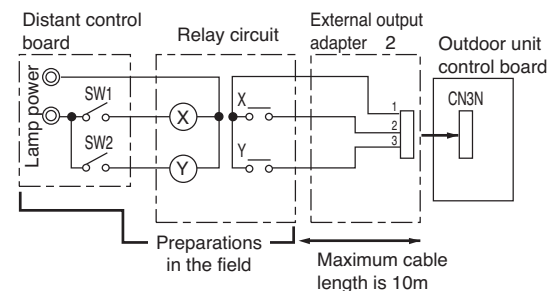
(4) Snow sensor (CN3S)



X : Relay

Snow sensor : The outdoor fan runs when X is closed in stop mode or thermostat mode.

(5) Autochangeover (CN3N) (PUHY, PUY only)



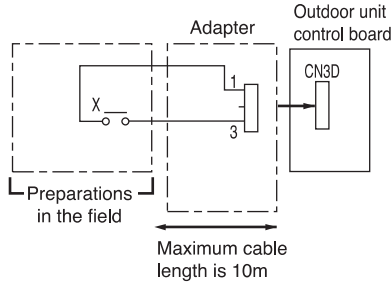
SW1 : Cooling / Heating
 SW2 : Validity / Invalidity of SW1
 X, Y : Relay (Point of contact rating : DC1mA)

2. Optional part : PAC-SC36NA or field supply.

4-1. Outdoor unit input/output connector

4-1-3. PQHY,PQRY-P200,250YGM-A PQHY,PQRY-P400,500YSGM-A

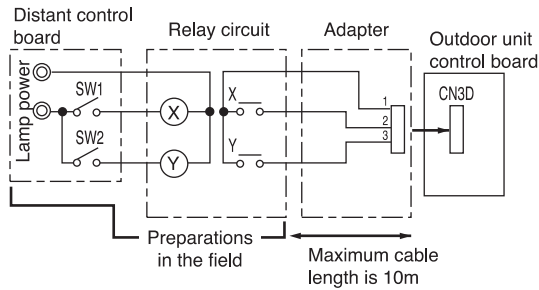
- Demand (CN3D)



Demand : The compressor is stopped when X is closed.

4-1-4. PUMY-P100,125,140YHM

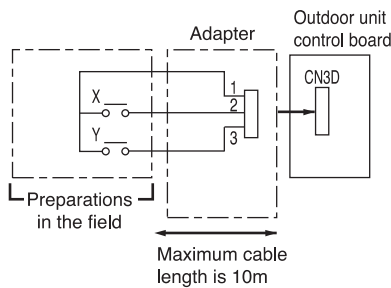
- Autochangeover (CN3D)



SW1 : Cooling / Heating
SW2 : Validity / Invalidity of SW1
X, Y : Relay (Point of contact rating : DC1mA)

| | | | |
|---------|-----|---------|---------|
| | | SW1 (X) | |
| | | OFF | ON |
| SW2 (Y) | OFF | Normal | |
| | ON | Cooling | Heating |

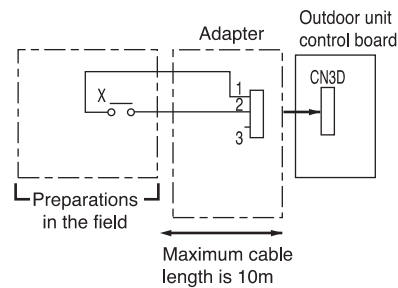
- Step demand (CN3D + DipSW8-1 ON)



| | | | |
|---|-----|------|-----|
| | | X | |
| | | OFF | ON |
| Y | OFF | 100% | 75% |
| | ON | 0% | 50% |

*They are rough values.

- Night mode (CN3D + DipSW8-1 OFF)



X : Relay


Night mode : The noise level is reduced by controlling the maximum fan frequency to be lower under the flowing condition.
Cooling mode : ambient temp. (TH6) < 30°C
Heating mode : ambient temp. (TH6) > 3°C

-Note-

The noise level can not be reduced. When the fan frequency is not maximum.

4-2. Indoor unit “-E” type input/output connector

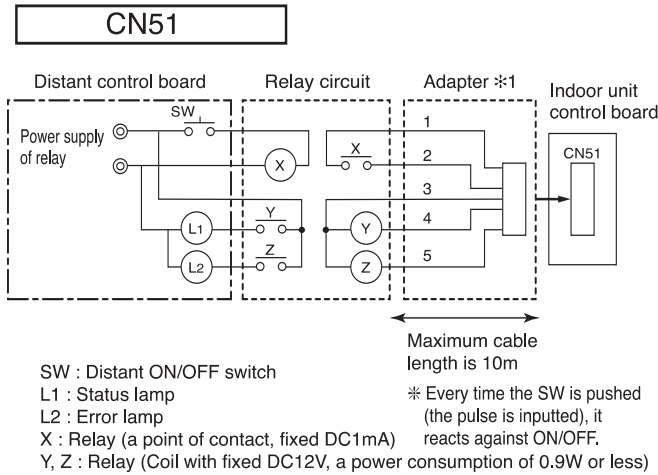
● ON/OFF (Pulse) input specification

| Item | Description |
|-------------------|--|
| Input signal | Pulse sign (a connect) |
| Standard of pulse |  200msec or more |

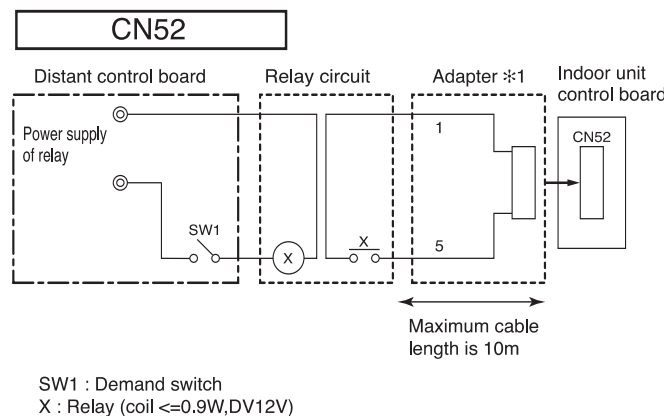
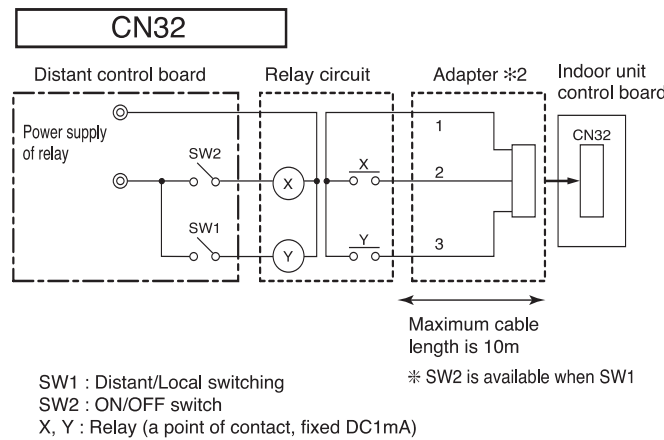
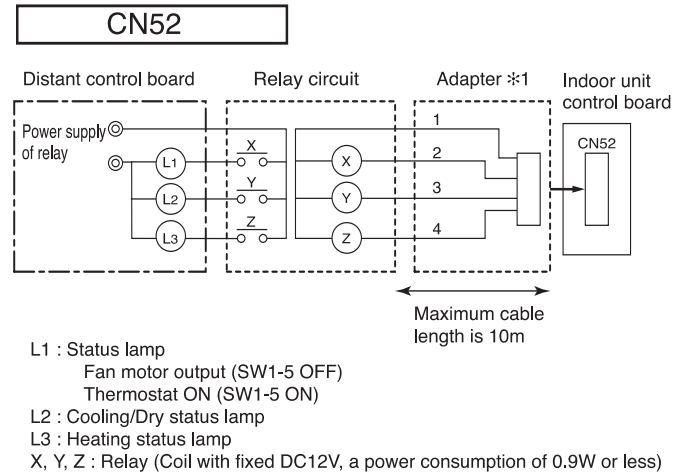
Caution:

1. Wiring should be covered by X insulation tube with supplementary X insulation.
2. Use relay X or switches with IEC or equivalent standard.
3. The electric strength between accessible parts and control circuit should have 2750V or more.

● Input



● Output



| | |
|-----|-------------------|
| SW1 | Indoor unit |
| ON | Forced thermo-OFF |
| OFF | Normal running |

*1 Optional part : PAC-SA88HA or field supply
 *2 Optional part : PAC-55RA or field supply

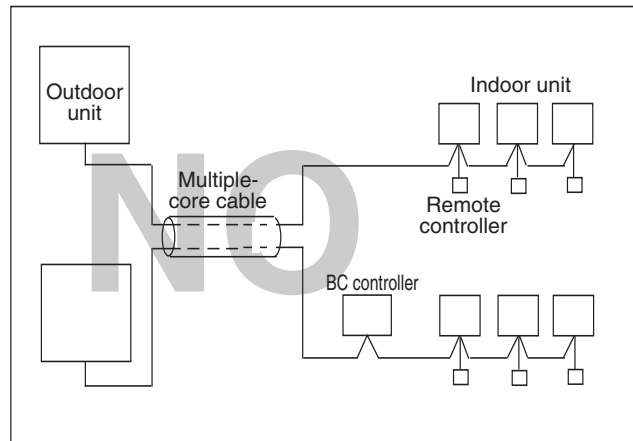
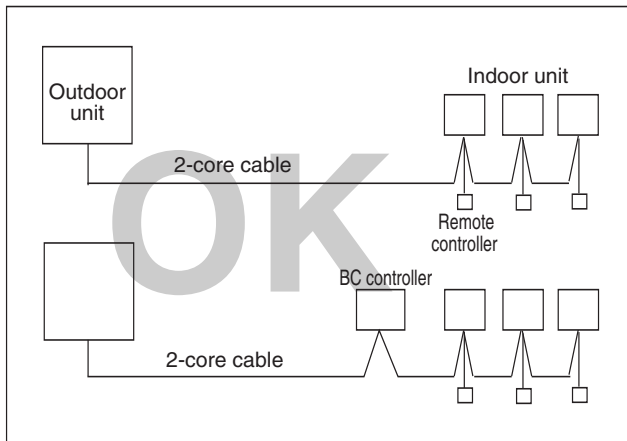
CITY MULTI™

SYSTEM DESIGN

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1-1. General cautions

- ① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
- ② Wiring for control (hereinafter referred to as transmission line) shall be (50mm or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission line and power source wire in the same conduit.)
- ③ Be sure to provide designated grounding work to outdoor unit.
- ④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.
- ⑤ Never connect 380~415V(220~240V) power source to terminal block of transmission line. If connected, electrical parts will be burnt out
- ⑥ Use 2-core shield cable for transmission line. If transmission lines of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.



1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Max. Circuit Amps (=1.25×FLA) FLA : Full Load Amps
 IFM : Indoor Fan Motor Output : Fan motor rated output

| PMFY-P-VBM-E | Units | | Power supply | IFM | |
|---------------|--------------------------------|--------------------------|--------------|------------|--------|
| | Volts / Hz | Voltage range | MCA(A) | Output(kW) | FLA(A) |
| PMFY-P20VBM-E | 220-240V / 50Hz 220V / 60Hz | Max.: 264V Min.: 198V | 0.25 | 0.028 | 0.20 |
| PMFY-P25VBM-E | | | 0.26 | 0.028 | 0.21 |
| PMFY-P32VBM-E | | | 0.26 | 0.028 | 0.21 |
| PMFY-P40VBM-E | | | 0.33 | 0.028 | 0.26 |

| PLFY-P-VAM-E | Units | | Power supply | IFM | |
|----------------|--------------------------------|--------------------------|--------------|------------|--------|
| | Volts / Hz | Voltage range | MCA(A) | Output(kW) | FLA(A) |
| PLFY-P32VAM-E | 220-240V / 50Hz 220V / 60Hz | Max.: 264V Min.: 198V | 0.74 | 0.070 | 0.59 |
| PLFY-P40VAM-E | | | 0.85 | 0.070 | 0.68 |
| PLFY-P50VAM-E | | | 0.85 | 0.070 | 0.68 |
| PLFY-P63VAM-E | | | 0.98 | 0.070 | 0.78 |
| PLFY-P80VAM-E | | | 1.08 | 0.070 | 0.86 |
| PLFY-P100VAM-E | | | 1.79 | 0.120 | 1.43 |
| PLFY-P125VAM-E | | | 2.05 | 0.120 | 1.64 |

| PLFY-P-VLMD-E | Units | | Power supply | IFM | |
|-----------------|------------------------------------|--------------------------|--------------------|------------|-------------------|
| | Volts / Hz | Voltage range | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) |
| PLFY-P20VLMD-E | 220-240V / 50Hz 220-230V / 60Hz | Max.: 264V Min.: 198V | 0.45 / 0.46 | 0.015 | 0.36 / 0.37 |
| PLFY-P25VLMD-E | | | 0.45 / 0.46 | 0.015 | 0.36 / 0.37 |
| PLFY-P32VLMD-E | | | 0.45 / 0.46 | 0.015 | 0.36 / 0.37 |
| PLFY-P40VLMD-E | | | 0.50 / 0.53 | 0.015 | 0.40 / 0.42 |
| PLFY-P50VLMD-E | | | 0.51 / 0.54 | 0.020 | 0.41 / 0.43 |
| PLFY-P63VLMD-E | | | 0.61 / 0.64 | 0.020 | 0.49 / 0.51 |
| PLFY-P80VLMD-E | | | 0.90 / 0.93 | 0.020 | 0.72 / 0.74 |
| PLFY-P100VLMD-E | | | 0.94 / 1.10 | 0.030 | 0.75 / 0.88 |
| PLFY-P125VLMD-E | | | 1.69 / 1.69 | 0.078 × 2 | 1.35 / 1.35 |

| PEFY-P-VML-E | Units | | Power supply | IFM | |
|---------------|------------------------------------|--------------------------|--------------------|------------|-------------------|
| | Volts / Hz | Voltage range | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) |
| PEFY-P20VML-E | 220-240V / 50Hz 220-240V / 60Hz | Max.: 264V Min.: 198V | 0.30 / 0.35 | 0.023 | 0.24 / 0.28 |
| PEFY-P25VML-E | | | 0.30 / 0.35 | 0.023 | 0.24 / 0.28 |
| PEFY-P32VML-E | | | 0.40 / 0.53 | 0.032 | 0.32 / 0.42 |

| PEFY-P-VMH-E | Units | | Power supply | IFM | |
|----------------|------------------------------------|--------------------------|--------------------|------------|-------------------|
| | Volts / Hz | Voltage range | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) |
| PEFY-P40VMH-E | 220-240V / 50Hz 220-240V / 60Hz | Max.: 264V Min.: 198V | 1.21 / 1.61 | 0.08 | 0.97 / 1.29 |
| PEFY-P50VMH-E | | | 1.21 / 1.61 | 0.08 | 0.97 / 1.29 |
| PEFY-P63VMH-E | | | 1.49 / 1.95 | 0.12 | 1.19 / 1.56 |
| PEFY-P71VMH-E | | | 1.58 / 2.18 | 0.14 | 1.26 / 1.74 |
| PEFY-P80VMH-E | | | 1.85 / 2.40 | 0.18 | 1.48 / 1.92 |
| PEFY-P100VMH-E | | | 3.03 / 3.93 | 0.26 | 2.42 / 3.14 |
| PEFY-P125VMH-E | | | 3.03 / 3.93 | 0.26 | 2.42 / 3.14 |
| PEFY-P140VMH-E | | | 3.10 / 3.98 | 0.26 | 2.48 / 3.18 |
| PEFY-P200VMH-E | | | 380-415V / 50Hz | Max.: 456V | 2.03 / 2.33 |
| PEFY-P250VMH-E | 380-415V / 60Hz | Min.: 342V | 2.50 / 2.88 | 0.87 | 2.00 / 2.30 |

| PEFY-P-VMM-E | Units | | Power supply | IFM | |
|----------------|-----------------|--------------------------|--------------|------------|--------|
| | Volts / Hz | Voltage range | MCA(A) | Output(kW) | FLA(A) |
| PEFY-P20VMM-E | 220-240V / 50Hz | Max.: 264V Min.: 198V | 0.91 | 0.15 | 0.73 |
| PEFY-P25VMM-E | | | 0.91 | 0.15 | 0.73 |
| PEFY-P32VMM-E | | | 1.01 | 0.17 | 0.81 |
| PEFY-P40VMM-E | | | 1.15 | 0.19 | 0.92 |
| PEFY-P50VMM-E | | | 1.23 | 0.20 | 0.98 |
| PEFY-P63VMM-E | | | 1.34 | 0.22 | 1.07 |
| PEFY-P71VMM-E | | | 1.44 | 0.25 | 1.15 |
| PEFY-P80VMM-E | | | 1.44 | 0.25 | 1.15 |
| PEFY-P100VMM-E | | | 1.68 | 0.29 | 1.34 |
| PEFY-P125VMM-E | | | 2.38 | 0.40 | 1.90 |
| PEFY-P140VMM-E | | | 2.44 | 0.42 | 1.95 |

1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Max. Circuit Amps (=1.25×FLA) FLA : Full Load Amps
 IFM : Indoor Fan Motor Output : Fan motor rated output

| PEFY-P-VMH-E-F | Units | | Power supply | | IFM | |
|------------------|-----------------|---------------|-------------------|------------|-------------------|--|
| | Volts / Hz | Voltage range | MCA(A)(50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) | |
| PEFY-P80VMH-E-F | 220-240V / 50Hz | Max.: 264V | 0.92/1.15 | 0.09 | 0.73/0.92 | |
| PEFY-P140VMH-E-F | 208-230V / 60Hz | Min.: 187V | 1.58/1.84 | 0.14 | 1.26/1.47 | |
| PEFY-P200VMH-E-F | 380-415V / 50Hz | Max.: 456V | 0.73/0.93 | 0.20 | 0.58/0.74 | |
| PEFY-P250VMH-E-F | 380-415V / 60Hz | Min.: 342V | 0.85/1.08 | 0.23 | 0.68/0.86 | |

| PDFY-P-VM-E | Units | | Power supply | | IFM | |
|---------------|--------------------------------|--------------------------|-------------------|------------|-------------------|--|
| | Volts / Hz | Voltage range | MCA(A)(50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) | |
| PDFY-P20VM-E | 220-240V / 50Hz 220V / 60Hz | Max.: 264V Min.: 198V | 0.66/0.73 | 0.075 | 0.53/0.58 | |
| PDFY-P25VM-E | | | 0.66/0.73 | 0.075 | 0.53/0.58 | |
| PDFY-P32VM-E | | | 0.66/0.73 | 0.075 | 0.53/0.58 | |
| PDFY-P40VM-E | | | 0.75/0.89 | 0.075 | 0.60/0.71 | |
| PDFY-P50VM-E | | | 0.75/0.89 | 0.075 | 0.60/0.71 | |
| PDFY-P63VM-E | | | 0.85/1.03 | 0.078 | 0.68/0.82 | |
| PDFY-P71VM-E | | | 0.90/1.10 | 0.078 | 0.72/0.88 | |
| PDFY-P80VM-E | | | 1.03/1.26 | 0.078 | 0.82/1.01 | |
| PDFY-P100VM-E | | | 1.60-1.68/1.70 | 0.140 | 1.28-1.34/1.36 | |
| PDFY-P125VM-E | | | 1.94-2.04/2.30 | 0.190 | 1.55-1.63/1.84 | |

| PKFY-P-VAM-E | Units | | Power supply | | IFM | |
|---------------|-----------------|---------------|--------------|------------|--------|--|
| | Volts / Hz | Voltage range | MCA(A) | Output(kW) | FLA(A) | |
| PKFY-P20VAM-E | 220-240V / 50Hz | Max.: 264V | 0.25 | 0.017 | 0.20 | |
| PKFY-P25VAM-E | | Min.: 198V | 0.25 | 0.017 | 0.20 | |

| PKFY-P-VGM-E | Units | | Power supply | | IFM | |
|---------------|-----------------|--------------------------|--------------|------------|--------|--|
| | Volts / Hz | Voltage range | MCA(A) | Output(kW) | FLA(A) | |
| PKFY-P32VGM-E | 220-240V / 50Hz | Max.: 264V Min.: 198V | 0.40 | 0.030 | 0.32 | |
| PKFY-P40VGM-E | | | 0.40 | 0.030 | 0.32 | |
| PKFY-P50VGM-E | | | 0.40 | 0.030 | 0.32 | |

| PCFY-P-VGM-E | Units | | Power supply | | IFM | |
|----------------|-----------------|--------------------------|--------------|------------|--------|--|
| | Volts / Hz | Voltage range | MCA(A) | Output(kW) | FLA(A) | |
| PCFY-P40VGM-E | 220-240V / 50Hz | Max.: 264V Min.: 198V | 0.58 | 0.054 | 0.46 | |
| PCFY-P63VGM-E | | | 0.75 | 0.070 | 0.60 | |
| PCFY-P100VGM-E | | | 0.91 | 0.090 | 0.73 | |
| PCFY-P125VGM-E | | | 1.38 | 0.150 | 1.10 | |

| PFFY-P-VLEM-E | Units | | Power supply | | IFM | |
|----------------|------------------------------------|--------------------------|-------------------|------------|-------------------|--|
| | Volts / Hz | Voltage range | MCA(A)(50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) | |
| PFFY-P20VLEM-E | 220-240V / 50Hz 208-230V / 60Hz | Max.: 264V Min.: 198V | 0.24 / 0.31 | 0.020 | 0.19 / 0.25 | |
| PFFY-P25VLEM-E | | | 0.24 / 0.31 | 0.020 | 0.19 / 0.25 | |
| PFFY-P32VLEM-E | | | 0.36 / 0.38 | 0.030 | 0.29 / 0.30 | |
| PFFY-P40VLEM-E | | | 0.40 / 0.41 | 0.035 | 0.32 / 0.33 | |
| PFFY-P50VLEM-E | | | 0.50 / 0.51 | 0.035 | 0.40 / 0.41 | |
| PFFY-P63VLEM-E | | | 0.58 / 0.59 | 0.045 | 0.46 / 0.47 | |

| PFFY-P-VLRM-E | Units | | Power supply | | IFM | |
|----------------|------------------------------------|--------------------------|-------------------|------------|-------------------|--|
| | Volts / Hz | Voltage range | MCA(A)(50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) | |
| PFFY-P20VLRM-E | 220-240V / 50Hz 208-230V / 60Hz | Max.: 264V Min.: 198V | 0.24 / 0.31 | 0.020 | 0.19 / 0.25 | |
| PFFY-P25VLRM-E | | | 0.24 / 0.31 | 0.020 | 0.19 / 0.25 | |
| PFFY-P32VLRM-E | | | 0.36 / 0.38 | 0.030 | 0.29 / 0.30 | |
| PFFY-P40VLRM-E | | | 0.40 / 0.41 | 0.035 | 0.32 / 0.33 | |
| PFFY-P50VLRM-E | | | 0.50 / 0.51 | 0.035 | 0.40 / 0.41 | |
| PFFY-P63VLRM-E | | | 0.58 / 0.59 | 0.045 | 0.46 / 0.47 | |

| GUF-RD(H)3 | Units | | Power supply | | IFM | |
|---------------|-----------------|---------------|-------------------|------------|-------------------|--|
| | Volts / Hz | Voltage range | MCA(A)(50 / 60Hz) | Output(kW) | FLA(A)(50 / 60Hz) | |
| GUF-50RD(H)3 | 220-240V / 50Hz | Max.: 264V | 1.85 / 1.85 | 0.081 × 2 | 1.48 / 1.48 | |
| GUF-100RD(H)3 | 220V / 60Hz | Min.: 198V | 3.49 / 3.49 | 0.16 × 2 | 2.79 / 2.79 | |

1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-2. Electrical characteristics of Outdoor unit at cooling mode

Symbols: MCA : Max.Circuit Amps, SC : Starting Current, RLA : Rated Load Amps

| PU(H)Y-P-YGM | Units | | | Power supply | Compressor | | Fan | RLA(A) (50/60Hz) |
|----------------|-------|-------|---------------|--------------|-------------|----------|------------|------------------|
| | Hz | Volts | Voltage range | MCA(A) | Output(kW) | SC(A) | Output(kW) | |
| PU(H)Y-P200YGM | | 380 | | 16.01 | 4.7 | 10 | 0.38 | 10.3 |
| | | 400 | | | | | | 9.8 |
| | | 415 | | | | | | 9.4 |
| PU(H)Y-P250YGM | | 380 | | 18.59 | 6.7 | 8 | 0.38 | 13 |
| | | 400 | | | | | | 12.3 |
| | | 415 | | | | | | 11.9 |
| PU(H)Y-P300YGM | | 380 | | 23.02 | 8 | 8 | 0.38 | 16.1 |
| | | 400 | | | | | | 15.3 |
| | | 415 | | | | | | 14.7 |
| PU(H)Y-P350YGM | | 380 | | 27.46 | 9.6 | 8 | 0.38 | 19.2 |
| | | 400 | | | | | | 18.2 |
| | | 415 | | | | | | 17.6 |
| PUHY-P400YGM | | 380 | | 32.32 | 9.7 | 8 | 0.64 | 22.6 |
| | | 400 | | | | | | 21.5 |
| | | 415 | | | | | | 20.7 |
| PUHY-P450YGM | | 380 | 32.75 | 6.8+5.3 | 92.5 (50Hz) | 0.38 × 2 | 22.9 | |
| | | 400 | | | 85.5 (60Hz) | | 21.8 | |
| | | 415 | | | 21 | | | |
| PUHY-P500YGM | | 380 | 37.61 | 8.2+5.3 | 92.5 (50Hz) | 0.38 × 2 | 26.3 | |
| | | 400 | | | 85.5 (60Hz) | | 25 | |
| | | 415 | | | 24 | | | |
| PUHY-P550YGM | | 380 | 41.18 | 9.3+5.3 | 92.5 (50Hz) | 0.38 × 2 | 28.8 | |
| | | 400 | | | 85.5 (60Hz) | | 27.3 | |
| | | 415 | | | 26.4 | | | |
| PUHY-P600YGM | | 380 | 42.33 | 10.1+5.3 | 92.5 (50Hz) | 0.38 × 2 | 29.6 | |
| | | 400 | | | 85.5 (60Hz) | | 28.2 | |
| | | 415 | | | 27.1 | | | |
| PUHY-P650YGM | | 380 | 47.33 | 10.9+5.3 | 92.5 (50Hz) | 0.38 × 2 | 33.1 | |
| | | 400 | | | 85.5 (60Hz) | | 31.5 | |
| | | 415 | | | 30.3 | | | |

1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-2. Electrical characteristics of Outdoor unit at cooling mode

Symbols: MCA : Max.Circuit Amps, SC : Starting Current, RLA : Rated Load Amps

| PURY-P-YGM | Units | | | Power supply | Compressor | | Fan | RLA(A) |
|--------------|---------------|-------|--------------------------|----------------------------|------------|-------|------------|--------|
| | Hz | Volts | Voltage range | MCA(A) | Output(kW) | SC(A) | Output(kW) | |
| PURY-P200YGM | 50 / 60 | 380 | Max.: 456V Min.: 342V | 16.01 | 4.7 | 10 | 0.38 | 10.3 |
| | | 400 | | | | | | 9.8 |
| | | 415 | | | | | | 9.4 |
| PURY-P250YGM | | 380 | | 18.59 | 6.7 | 8 | 0.38 | 13 |
| | | 400 | | | | | | 12.3 |
| | | 415 | | | | | | 11.9 |
| PURY-P300YGM | | 380 | | 23.02 | 8 | 8 | 0.38 | 16.1 |
| | | 400 | | | | | | 15.3 |
| | | 415 | | | | | | 14.7 |
| PURY-P350YGM | | 380 | | 27.46 | 9.6 | 8 | 0.38 | 19.2 |
| | | 400 | | | | | | 18.2 |
| | | 415 | | | | | | 17.6 |
| PURY-P400YGM | | 380 | | 32.32 | 9.7 | 8 | 0.64 | 22.6 |
| | | 400 | | | | | | 21.5 |
| | | 415 | | | | | | 20.7 |
| PUHY-P450YGM | 380 | 32.75 | 6.8+5.3 | 92.5 (50Hz) 85.5 (60Hz) | 0.38 × 2 | 22.9 | | |
| | 400 | | | | | 21.8 | | |
| | 415 | | | | | 21 | | |
| PURY-P500YGM | 380 | 37.61 | 8.2+5.3 | 92.5 (50Hz) 85.5 (60Hz) | 0.38 × 2 | 26.3 | | |
| | 400 | | | | | 25 | | |
| | 415 | | | | | 24 | | |
| PURY-P550YGM | 380 | 41.18 | 9.3+5.3 | 92.5 (50Hz) 85.5 (60Hz) | 0.38 × 2 | 28.8 | | |
| | 400 | | | | | 27.3 | | |
| | 415 | | | | | 26.4 | | |
| PURY-P600YGM | 380 | 42.33 | 10.1+5.3 | 92.5 (50Hz) 85.5 (60Hz) | 0.38 × 2 | 29.6 | | |
| | 400 | | | | | 28.2 | | |
| | 415 | | | | | 27.1 | | |
| PURY-P650YGM | 380 | 47.33 | 10.9+5.3 | 92.5 (50Hz) 85.5 (60Hz) | 0.38 × 2 | 33.1 | | |
| | 400 | | | | | 31.5 | | |
| | 415 | | | | | 30.3 | | |

| PUMY-P-YHM | Units | | | Power supply | Compressor | | Fan | RLA(A) |
|--------------|-------|-------|--------------------------|--------------|------------|-------|------------|--------|
| | Hz | Volts | Voltage range | MCA(A) | Output(kW) | SC(A) | Output(kW) | |
| PUMY-P100YHM | 50 | 380 | Max.: 456V Min.: 342V | 14 | 1.9 | 7 | 0.06 × 2 | 5.1 |
| | | 400 | | | | | | 4.9 |
| | | 415 | | | | | | 4.7 |
| PUMY-P125YHM | | 380 | | 14 | 2.4 | 7 | 0.06 × 2 | 6.9 |
| | | 400 | | | | | | 6.5 |
| | | 415 | | | | | | 6.3 |
| PUMY-P140YHM | | 380 | | 14 | 2.9 | 7 | 0.06 × 2 | 8.4 |
| | | 400 | | | | | | 8.0 |
| | | 415 | | | | | | 7.7 |

1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-3. Electrical characteristics of Heat source unit at cooling mode

Symbols: MCA : Max.Circuit Amps, SC : Starting Current, RLA : Rated Load Amps

| PQHY-P-YGM | Units | | | Power supply | Compressor | | RLA(A) | | |
|---------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|--------|------|------|
| | Hz | Volts | Voltage range | MCA(A) | Output(kW) | SC(A) | | | |
| PQHY-P200YGM | 50 / 60 | 380 | Max.: 456V Min.: 342V | 16.01 | 5.0 | 8 | 8.0 | | |
| | | 400 | | | | | 7.6 | | |
| | | 415 | | | | | 7.4 | | |
| PQHY-P250YGM | | 380 | | Max.: 456V Min.: 342V | 18.18 | 6.0 | 8 | 10.0 | |
| | | 400 | | | | | | 9.5 | |
| | | 415 | | | | | | 9.1 | |
| PQHY-P400YSGM | | 380 | | | Max.: 456V Min.: 342V | 27.96 | 9.7 | 8 | 19.1 |
| | | 400 | | | | | | | 18.2 |
| | | 415 | | | | | | | 17.5 |
| PQHY-P500YSGM | 380 | Max.: 456V Min.: 342V | 37.46 | | | 11.6 | 8 | 25.4 | |
| | 400 | | | | | | | 24.2 | |
| | 415 | | | | | | | 23.3 | |

| PQRY-P-YGM | Units | | | Power supply | Compressor | | RLA(A) | | |
|---------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|--------|------|------|
| | Hz | Volts | Voltage range | MCA(A) | Output(kW) | SC(A) | | | |
| PQRY-P200YGM | 50 / 60 | 380 | Max.: 456V Min.: 342V | 16.24 | 5.0 | 8 | 10.3 | | |
| | | 400 | | | | | 9.8 | | |
| | | 415 | | | | | 9.4 | | |
| PQRY-P250YGM | | 380 | | Max.: 456V Min.: 342V | 18.23 | 6.0 | 8 | 13 | |
| | | 400 | | | | | | 12.3 | |
| | | 415 | | | | | | 11.9 | |
| PQRY-P400YSGM | | 380 | | | Max.: 456V Min.: 342V | 28.23 | 9.7 | 8 | 22.6 |
| | | 400 | | | | | | | 21.5 |
| | | 415 | | | | | | | 20.7 |
| PQRY-P500YSGM | 380 | Max.: 456V Min.: 342V | 38.28 | | | 11.6 | 8 | 26.3 | |
| | 400 | | | | | | | 25 | |
| | 415 | | | | | | | 24 | |

1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-4. Electrical characteristics of BC controller

Symbols: MCA : Max.Circuit Amps (=1.25 x max.RLA), MFA : Max. Fuse Amps, RLA : Rated Load Amps

| BC-Controller | Units | | | Power supply | | RLA(A) | | | | | |
|---------------|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|------|------|
| | Hz | Volts | Voltage range | MCA(A) | MFA(A) | | | | | | |
| CMB-P104V-G | 50 60 | 220 | Max.: 264V Min.: 198V | 0.45 | 15 | 0.31 | | | | | |
| | | 230 | | | | 0.34 | | | | | |
| | | 240 | | | | 0.36 | | | | | |
| CMB-P105V-G | | 220 | | Max.: 264V Min.: 198V | 0.55 | 15 | 0.38 | | | | |
| | | 230 | | | | | 0.41 | | | | |
| | | 240 | | | | | 0.44 | | | | |
| CMB-P106V-G | | 220 | | | Max.: 264V Min.: 198V | 0.65 | 15 | 0.45 | | | |
| | | 230 | | | | | | 0.48 | | | |
| | | 240 | | | | | | 0.52 | | | |
| CMB-P108V-G | | 220 | | | | Max.: 264V Min.: 198V | 0.85 | 15 | 0.58 | | |
| | | 230 | | | | | | | 0.63 | | |
| | | 240 | | | | | | | 0.68 | | |
| CMB-P1010V-G | | 220 | | | | | Max.: 264V Min.: 198V | 1.04 | 15 | 0.71 | |
| | | 230 | | | | | | | | 0.77 | |
| | | 240 | | | | | | | | 0.83 | |
| CMB-P1013V-G | | 220 | | | | | | Max.: 264V Min.: 198V | 1.34 | 15 | 0.92 |
| | | 230 | | | | | | | | | 1.00 |
| | | 240 | | | | | | | | | 1.07 |
| CMB-P1016V-G | 220 | Max.: 264V Min.: 198V | 1.63 | | | | | | 15 | 1.12 | |
| | 230 | | | | | | | | | 1.22 | |
| | 240 | | | | | | | | | 1.30 | |
| CMB-P108V-GA | 220 | | Max.: 264V Min.: 198V | 0.85 | | | | | 15 | 0.58 | |
| | 230 | | | | | | | | | 0.63 | |
| | 240 | | | | | | | | | 0.68 | |
| CMB-P1010V-GA | 220 | | | Max.: 264V Min.: 198V | 1.04 | | | | 15 | 0.71 | |
| | 230 | | | | | | | | | 0.77 | |
| | 240 | | | | | | | | | 0.83 | |
| CMB-P1013V-GA | 220 | | | | Max.: 264V Min.: 198V | 1.34 | | | 15 | 0.92 | |
| | 230 | | | | | | | | | 1.00 | |
| | 240 | | | | | | | | | 1.07 | |
| CMB-P1016V-GA | 220 | | | | | Max.: 264V Min.: 198V | 1.63 | | 15 | 1.12 | |
| | 230 | | | | | | | | | 1.22 | |
| | 240 | | | | | | | | | 1.30 | |
| CMB-P104V-GB | 220 | | | | | | Max.: 264V Min.: 198V | 0.40 | 15 | 0.28 | |
| | 230 | | | | | | | | | 0.30 | |
| | 240 | | | | | | | | | 0.32 | |
| CMB-P108V-GB | 220 | Max.: 264V Min.: 198V | | | | | | 0.79 | 15 | 0.55 | |
| | 230 | | | | | | | | | 0.59 | |
| | 240 | | | | | | | | | 0.63 | |

1. Electrical work

1-2. Power supply for Indoor unit and Outdoor unit

1-2-5. Power cable specifications

Size of main power supply cable, ON/OFF Capacities and System Permissible

| Model | Main Cable | Branch Cable | Minimum Switch Capacity | Wiring (V) | Wiring (B) | For Current | For Voltage | System Permissible |
|------------|------------|--------------|-------------------------|------------|------------|-------------|-------------|--------------------|
| RJYRJR20GM | 40 | 40 | 25 | 25 | 30 | 3A | 0.1A | less 0.8Ω |
| RJYRJR26GM | 40 | 40 | 32 | 32 | 30 | 3A | 0.1A | less 0.4Ω |
| RJYRJR30GM | 40 | 40 | 32 | 32 | 30 | 3A | 0.1A | less 0.33Ω |
| RJYRJR36GM | 60 | 60 | 40 | 40 | 40 | 4A | 0.1A | less 0.2Ω |
| RJYRJR40GM | 100 | 100 | 63 | 63 | 60 | 6A | 0.1A | less 0.2Ω |
| RJYRJR50GM | 100 | 100 | 63 | 63 | 60 | 6A | 0.1A | less 0.02Ω |
| RJYRJR50GM | 100 | 100 | 63 | 63 | 60 | 6A | 0.1A | less 0.02Ω |
| RJYRJR56GM | 16 | 16 | 70 | 70 | 75 | 7A | 0.1A | less 0.02Ω |
| RJYRJR60GM | 16 | 16 | 70 | 70 | 75 | 7A | 0.1A | less 0.02Ω |
| RJYRJR66GM | 16 | 16 | 70 | 70 | 75 | 7A | 0.1A | less 0.02Ω |
| RJYRJR20GM | 40 | 40 | 25 | 25 | 30 | 3A | 0.1A | less 0.8Ω |
| RJYRJR26GM | 40 | 40 | 25 | 25 | 30 | 3A | 0.1A | less 0.6Ω |
| RJYRJR30GM | 100 | 100 | 63 | 63 | 60 | 6A | 0.1A | less 0.32Ω |
| RJYRJR36GM | 100 | 100 | 63 | 63 | 60 | 6A | 0.1A | less 0.23Ω |

| | | | | | | | | | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Total operating current of the indoor units | 1.6A or less | 1.5A or less | 1.5A or less | 1.5A or less | 1.6A or less | 1.6A or less | 2.0A or less | 2.0A or less | 3.0A or less | 4.0A or less |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|

| | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|--------------|---|
| RJYRJR20GM | 15 | - | 15 | 16 | 16 | 16 | 16A or less | - |
| RJYRJR26GM | 15 | - | 15 | 16 | 16 | 16 | 16A or less | - |
| RJYRJR40GM | 15 | - | 15 | 16 | 16 | 16 | 16A or less | - |
| Total operating current of the indoor units | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 2.0 | 2.0A or less | - |

- *1 Use a separate power supply for the outdoor unit and indoor unit.
- *2 Bear in mind ambient temperature, direct sunlight, rain, etc. when installing the unit.
- *3 The wire size is the minimum and power comes from outside also. Make sure the voltage does not drop more than 1V.
- *4 Specific wiring methods should adhere to the wiring regulations of the region.
- *5 Power supply cords of parts of appliances for outdoor units should be, for example, use wiring such as
- *6 A switch with at least 3 mm contact separation. Air conditioning should be installed at the outdoor unit.
- *7 The power supply wires to be connected side

Warning:
 Be sure to use specified wires and force is isolated for terminal and firmly, cause heating or fire.
 Be sure to use the appropriate type of wire. The voltage generated may include disconnection.

Caution:
 Some installation attachments of indoor and outdoor units, installed, it may be damaged. Do not use anything other than the user voltage or capacity wire or copper wire. This may cause a malfunction of unit or fire.

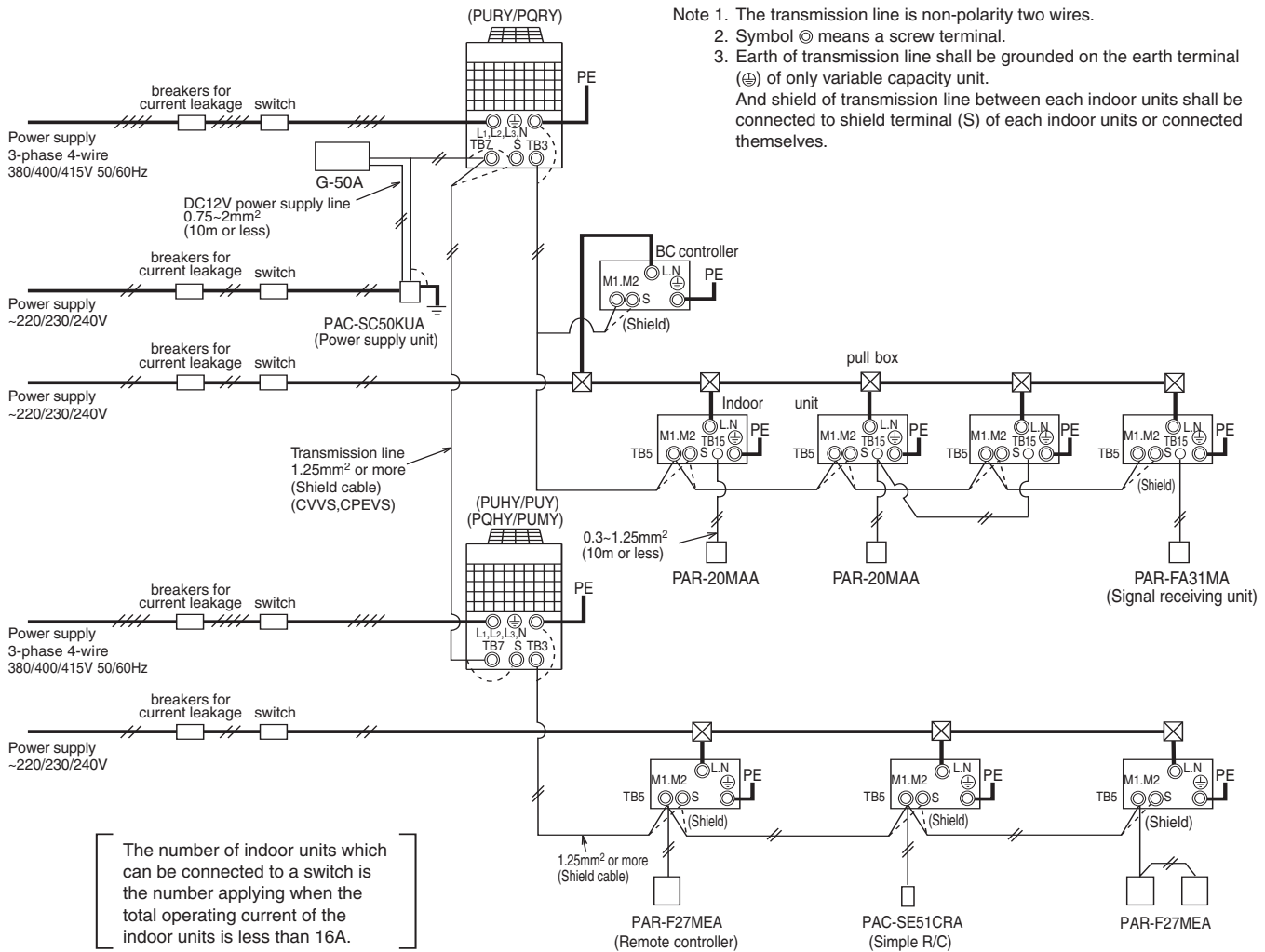
Note: This is intended for the connection to a power supply system. The user has to ensure that the power supply is connected to a power supply system. If necessary, the user should consult the power supply company for the system.

1-2. Power supply for Indoor unit and Outdoor unit

1-2-6. Power supply examples

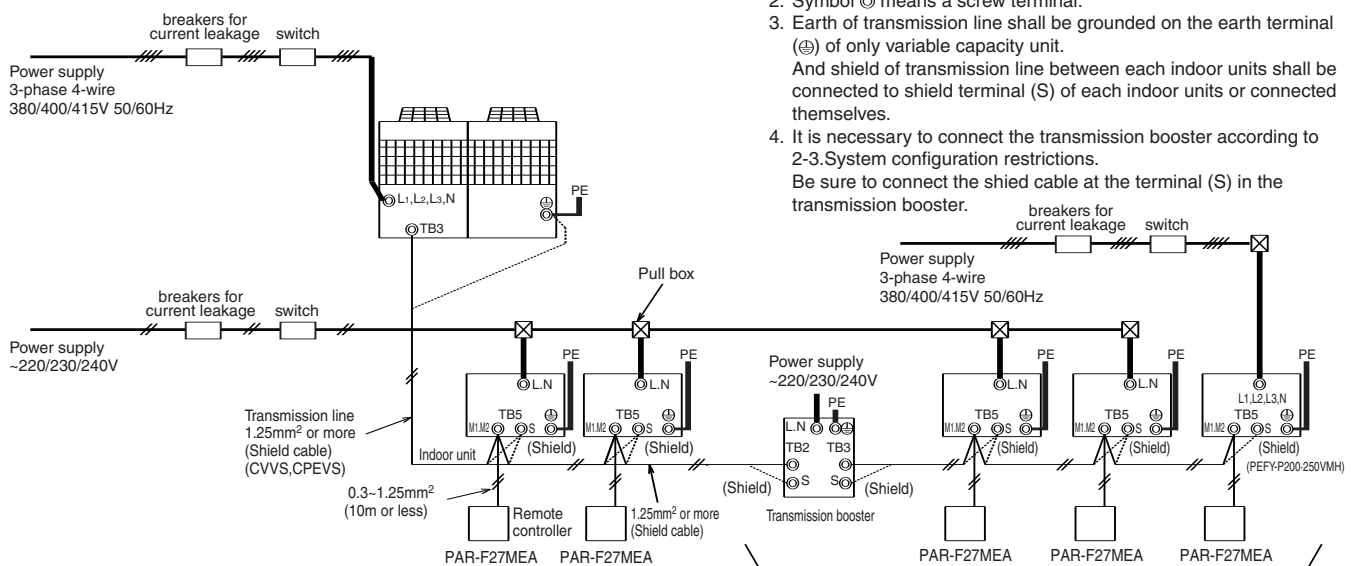
The local standards and/or regulations is applicable at a higher priority.

1-2-6-1. PUHY,PUY,PURY-P200,250,300,350YGM,PQHY,PQRY-P200,250YGM,PUMY-P100,125,140YHM



Ref mpsc-Y-P200,250,300,350

1-2-6-2. PUHY-P400,450,500,550,600,650YGM



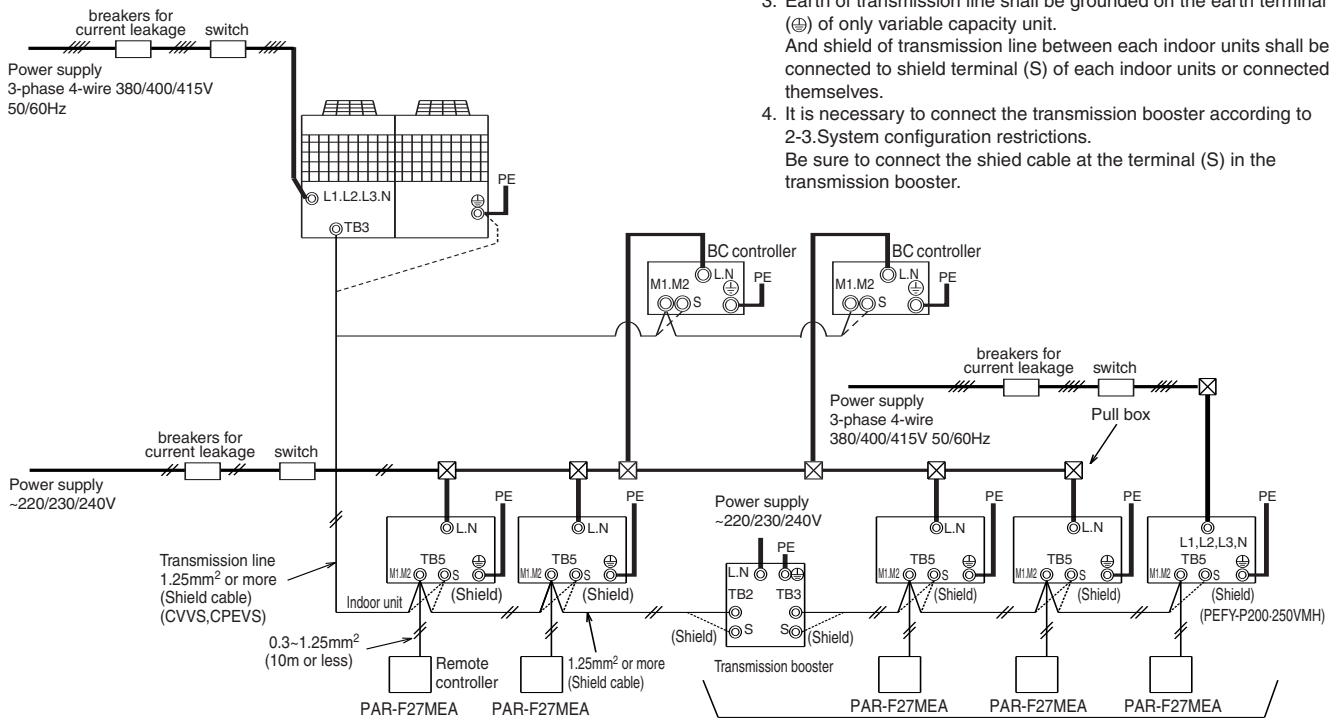
Ref mpsc-Y-P400,450,500,550,600,650

1-2. Power supply for Indoor unit and Outdoor unit

1-2-6. Power supply examples

The local standards and/or regulations is applicable at a higher priority.

1-2-6-3. PURY-P400,450,500,550,600,650YGM

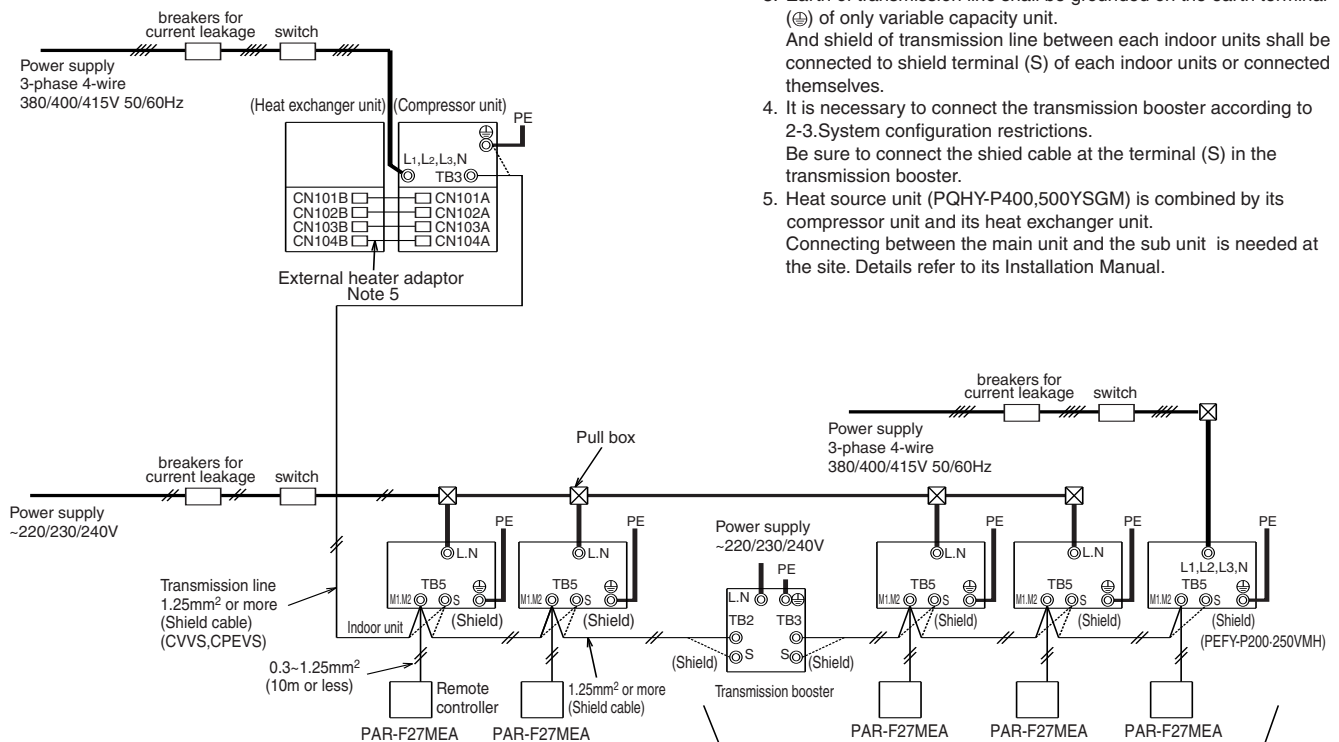


- Note 1. The transmission line is non-polarity two wires.
 2. Symbol Ⓢ means a screw terminal.
 3. Earth of transmission line shall be grounded on the earth terminal (Ⓢ) of only variable capacity unit. And shield of transmission line between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
 4. It is necessary to connect the transmission booster according to 2-3. System configuration restrictions. Be sure to connect the shield cable at the terminal (S) in the transmission booster.

Note 4

Ref. mpssc-R2-P450,500,550,600,650

1-2-6-4. PQHY-P400,500YSGM



- Note 1. The transmission line is non-polarity two wires.
 2. Symbol Ⓢ means a screw terminal.
 3. Earth of transmission line shall be grounded on the earth terminal (Ⓢ) of only variable capacity unit. And shield of transmission line between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
 4. It is necessary to connect the transmission booster according to 2-3. System configuration restrictions. Be sure to connect the shield cable at the terminal (S) in the transmission booster.
 5. Heat source unit (PQHY-P400,500YSGM) is combined by its compressor unit and its heat exchanger unit. Connecting between the main unit and the sub unit is needed at the site. Details refer to its Installation Manual.

Note 4

Ref. mpssc-WY-P400,500

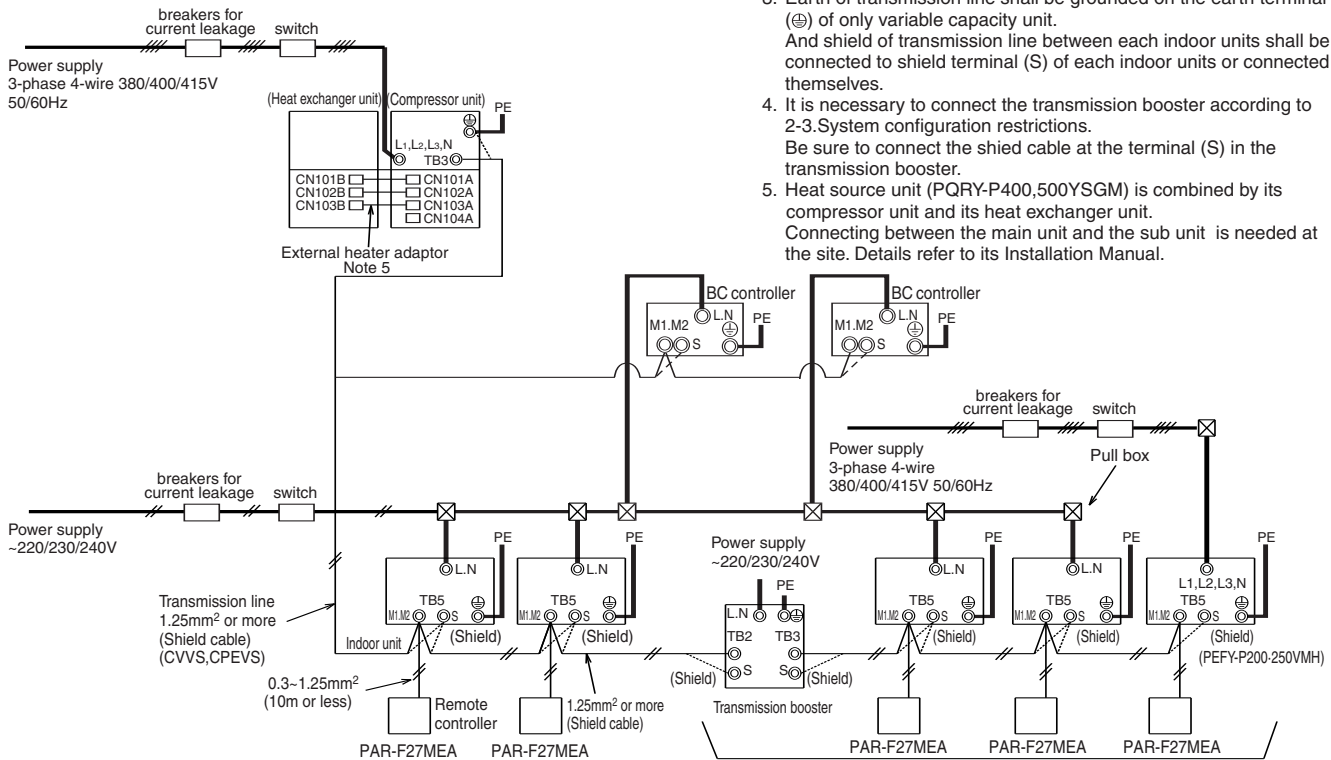
1-2. Power supply for Indoor unit and Outdoor unit

1-2-6. Power supply examples

The local standards and/or regulations is applicable at a higher priority.

1-2-6-5. PQRV-P400,500YSGM

- Note 1. The transmission line is non-polarity two wires.
- Note 2. Symbol Ⓞ means a screw terminal.
- Note 3. Earth of transmission line shall be grounded on the earth terminal (Ⓞ) of only variable capacity unit. And shield of transmission line between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
- Note 4. It is necessary to connect the transmission booster according to 2-3. System configuration restrictions. Be sure to connect the shield cable at the terminal (S) in the transmission booster.
- Note 5. Heat source unit (PQRV-P400,500YSGM) is combined by its compressor unit and its heat exchanger unit. Connecting between the main unit and the sub unit is needed at the site. Details refer to its Installation Manual.



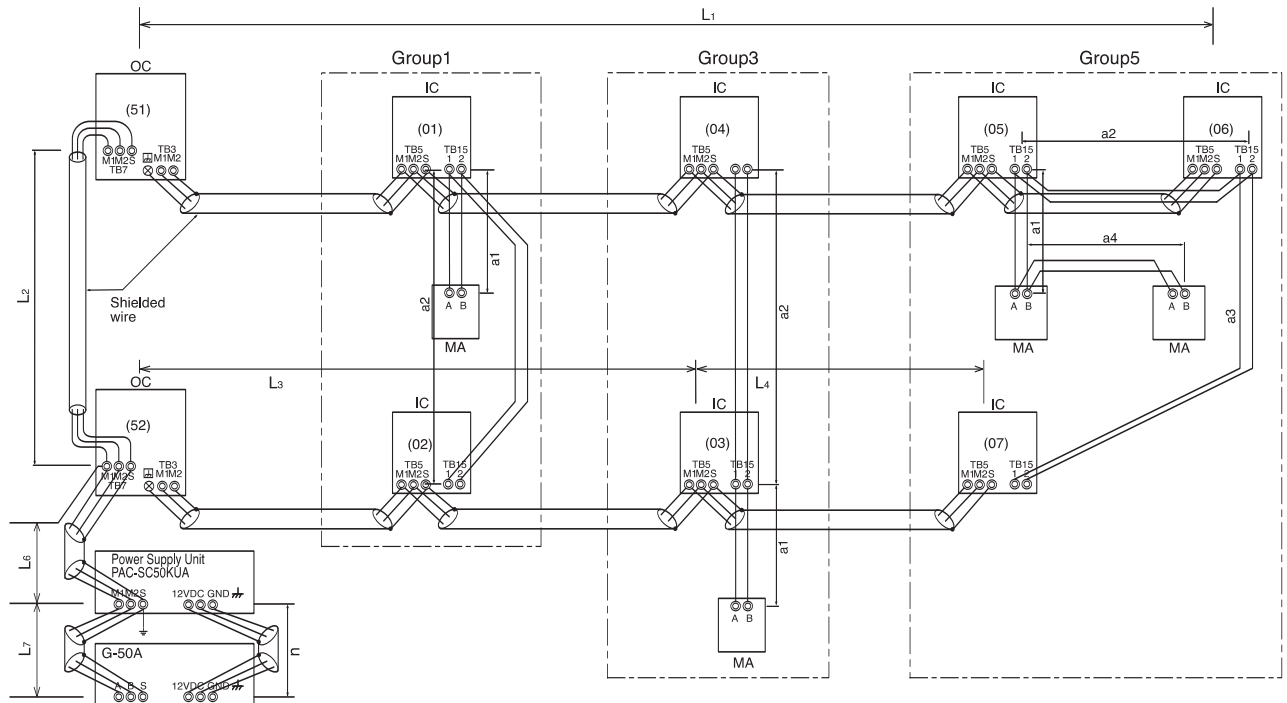
Note 4

Ref mpse-WR2-P400,500

2-1. Transmission cable length limitation

2-1-1. Using MA Remote controller

| Applicable to Outdoor as follows | Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission. | | |
|----------------------------------|---|---|---|
| PUY-P-YGM | Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4, L1+L2+L6+L7, L3+L4+L6+L7$ | $\leq 500m$ 1.25 mm ² or thicker |
| PUHY-P-YGM | Max. length to Outdoor (M-NET cable) | $L1, L3+L4, L6, L2+L6, L7$ | $\leq 200m$ 1.25 mm ² or thicker |
| PQHY-P-YGM | Max. length from MA to Indoor | $a1+a2, a1+a2+a3+a4$ | $\leq 200m$ - |
| PUMY-P-YHM | DC 12V to G-50A | n | $\leq 10m$ 0.75-2.0 mm ² |



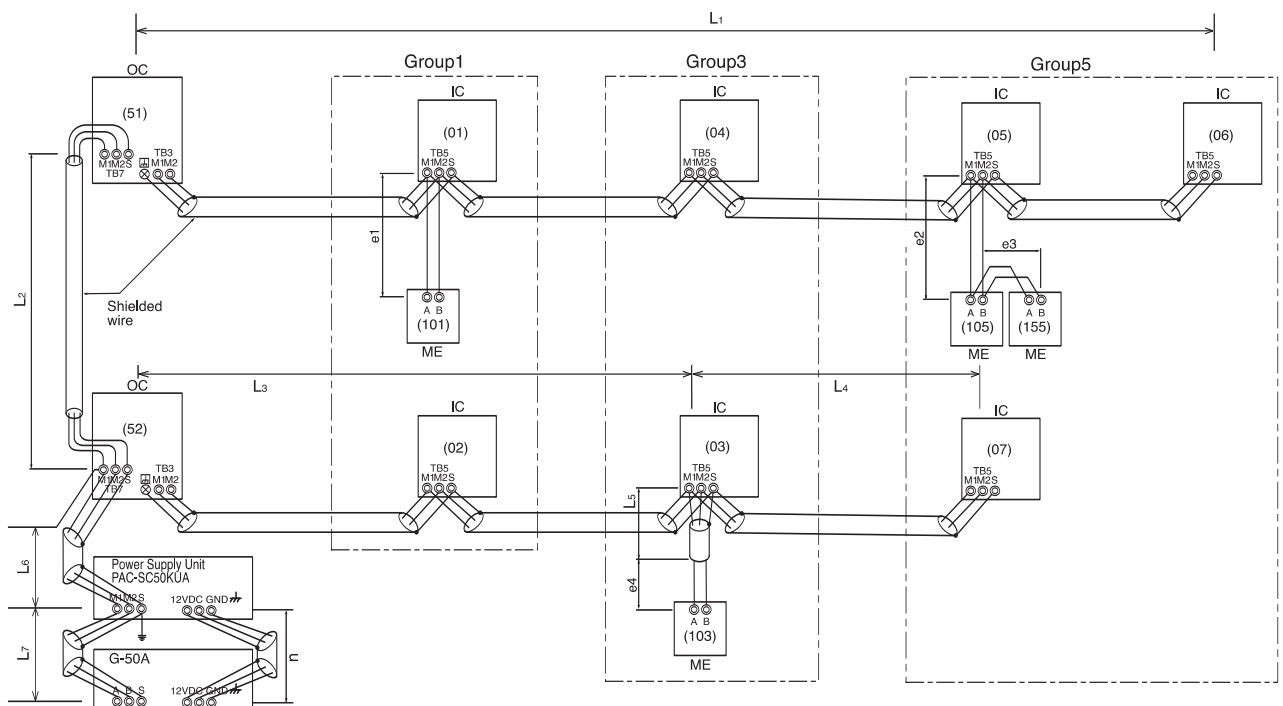
OC: Outdoor unit; IC: Indoor unit; MA: MA remote controller

Ref.:TLLL_Y-MA

2-1-2. Using ME Remote controller

| Applicable to Outdoor as follows | Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission. | | |
|----------------------------------|---|--|---|
| PUY-P-YGM | Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4, L1+L2+L6+L7, L1+L2+L3+L5, L3+L4+L6+L7$ | $\leq 500m$ 1.25 mm ² or thicker |
| PUHY-P-YGM | Max. length to Outdoor (M-NET cable) | $L1, L3+L4, L6, L2+L6, L7, L3+L5$ | $\leq 200m$ 1.25 mm ² or thicker |
| PQHY-P-YGM | Max. length from ME to Indoor | $e1, e2, e3, e4$ | $\leq 10m$ *1 0.3-1.25 mm ² *1 |
| PUMY-P-YHM | DC 12V to G-50A | n | $\leq 10m$ 0.75-2.0 mm ² |

*1. If the length from ME to Indoor exceed 10m, use 1.25 mm² shielded cable, but the total length should be counted into Max. length via Outdoor.



OC: Outdoor unit; IC: Indoor unit; ME: ME remote controller

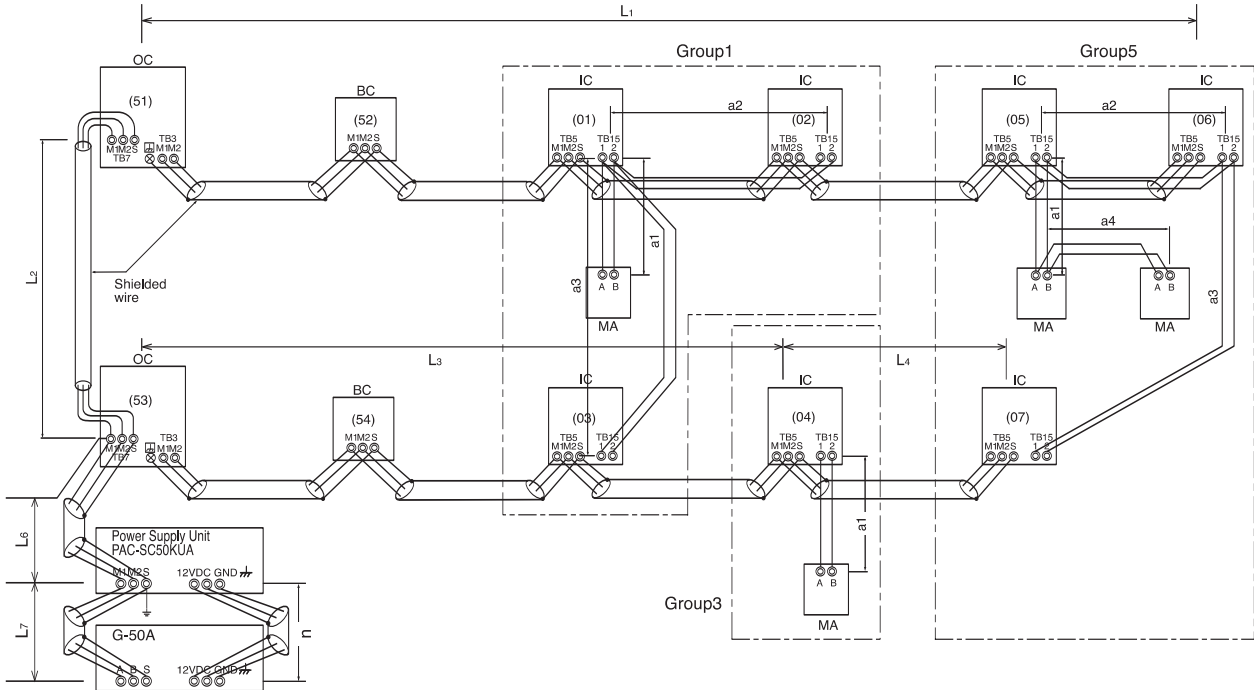
Ref.:TLLL_Y-ME

2-1. Transmission cable length limitation

2-1-3. Using MA Remote controller and 1 BC controller (PURY/PQRY)

Applicable to Outdoor as follows
 PURY-P200,250,300,350YGM
 PQRY-P200,250YGM

| Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission. | | | |
|---|---|--------------------|---------------------------------|
| Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4, L1+L2+L6+L7, L3+L4+L6+L7$ | $\leq 500\text{m}$ | 1.25 mm ² or thicker |
| Max. length to Outdoor (M-NET cable) | $L1, L3+L4, L6, L2+L6, L7$ | $\leq 200\text{m}$ | 1.25 mm ² or thicker |
| Max. length from MA to Indoor | $a1+a2, a1+a2+a3+a4$ | $\leq 200\text{m}$ | - |
| DC 12V to G-50A | n | $\leq 10\text{m}$ | 0.75-2.0 mm ² |



OC: Outdoor unit; IC: Indoor unit; MA: MA remote controller; BC: BC controller

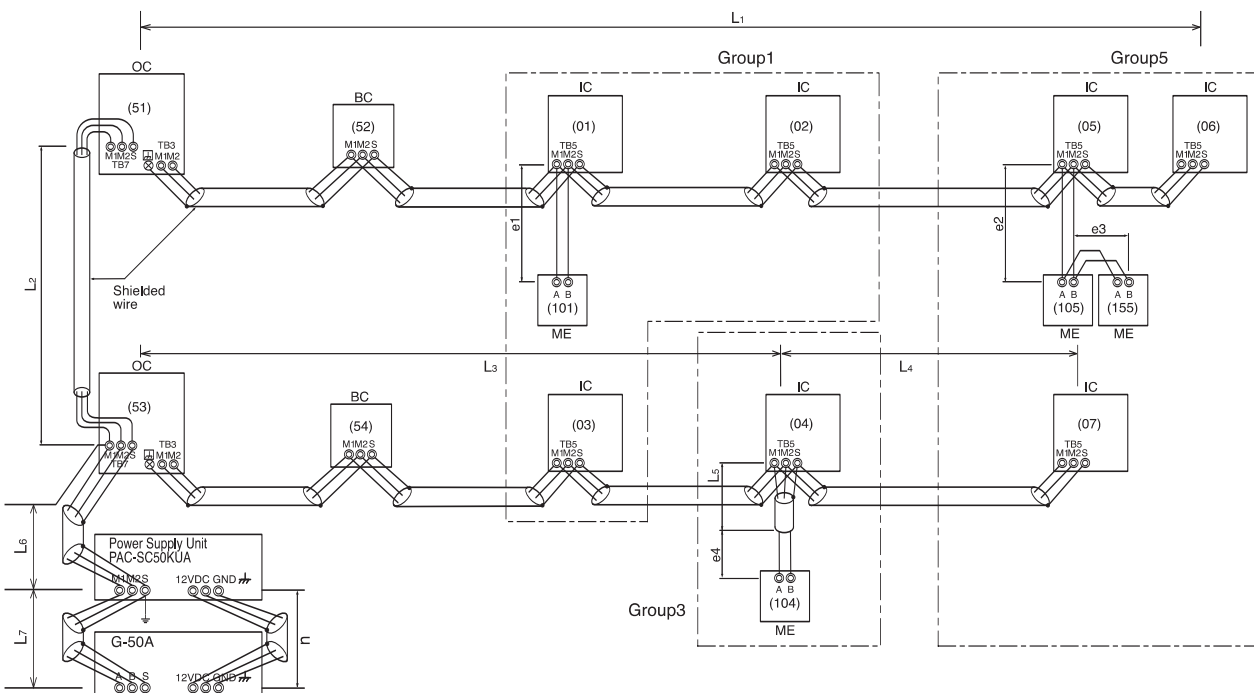
Ref.: TLLL_R2+2BC-ME

2-1-4. Using ME Remote controller and 1 BC controller (PURY/PQRY)

Applicable to Outdoor as follows
 PURY-P200,250,300,350YGM
 PQRY-P200,250YGM

| Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission. | | | |
|---|--|-----------------------|---------------------------------|
| Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4, L1+L2+L6+L7, L1+L2+L3+L5, L3+L4+L6+L7$ | $\leq 500\text{m}$ | 1.25 mm ² or thicker |
| Max. length to Outdoor (M-NET cable) | $L1, L3+L4, L6, L2+L6, L7, L3+L5$ | $\leq 200\text{m}$ | 1.25 mm ² or thicker |
| Max. length from ME to Indoor | $e1, e2, e3, e4$ | $\leq 10\text{m} * 1$ | 0.3-1.25 mm ^{2} * 1} |
| DC 12V to G-50A | n | $\leq 10\text{m}$ | 0.75-2.0 mm ^{2}} |

*1. If the length from ME to Indoor exceed 10m, use 1.25 mm² shielded cable, but the total length should be counted into Max. length via Outdoor.



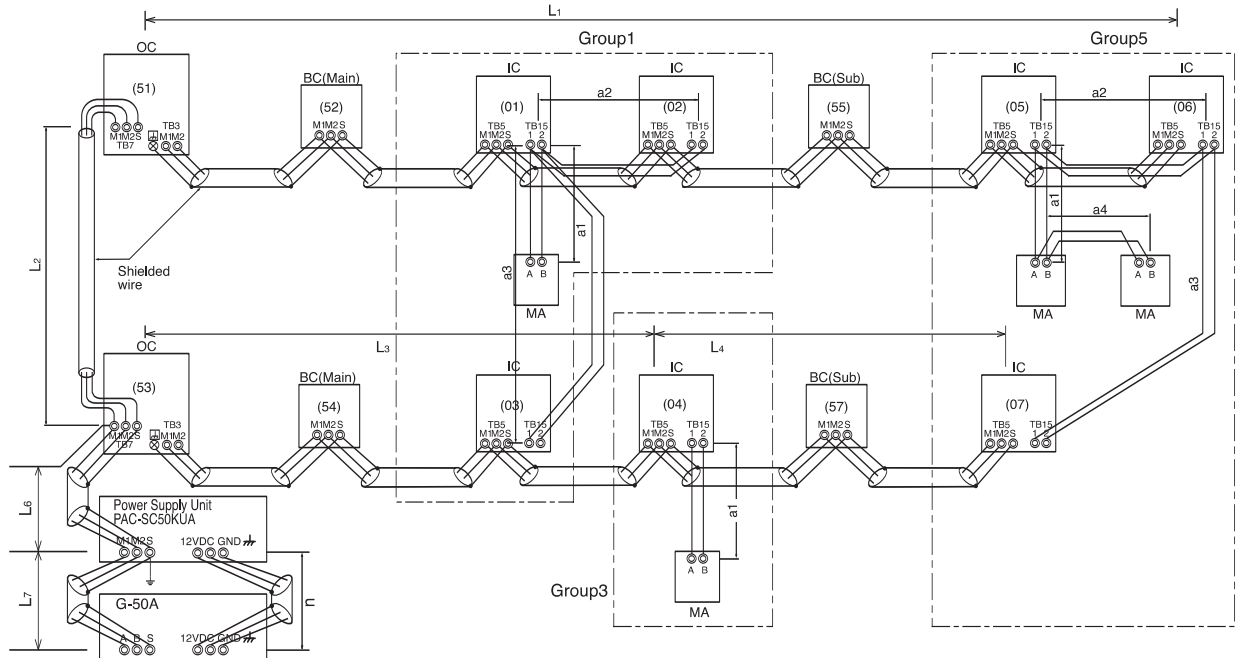
OC: Outdoor unit; IC: Indoor unit; ME: ME remote controller

Ref.: TLLL_R2+1BC-ME

2-1. Transmission cable length limitation

2-1-5. Using MA Remote controller and 2 BC controller (PURY/PQRY)

| Applicable to Outdoor as follows | Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission. | | |
|----------------------------------|---|---------------------------------------|---------------------------------------|
| PURY-P200,250,300,350YGM | Max. length via Outdoor (M-NET cable) | L1+L2+L3+L4, L1+L2+L6+L7, L3+L4+L6+L7 | ≤500m 1.25 mm ² or thicker |
| PQRY-P200,250YGM | Max. length to Outdoor (M-NET cable) | L1, L3+L4, L6, L2+L6, L7 | ≤200m 1.25 mm ² or thicker |
| | Max. length from MA to Indoor | a1, a1+a2+a2, a1+a2+a3+a4 | ≤200m - |
| | DC 12V to G-50A | n | ≤10m 0.75-2.0 mm ² |



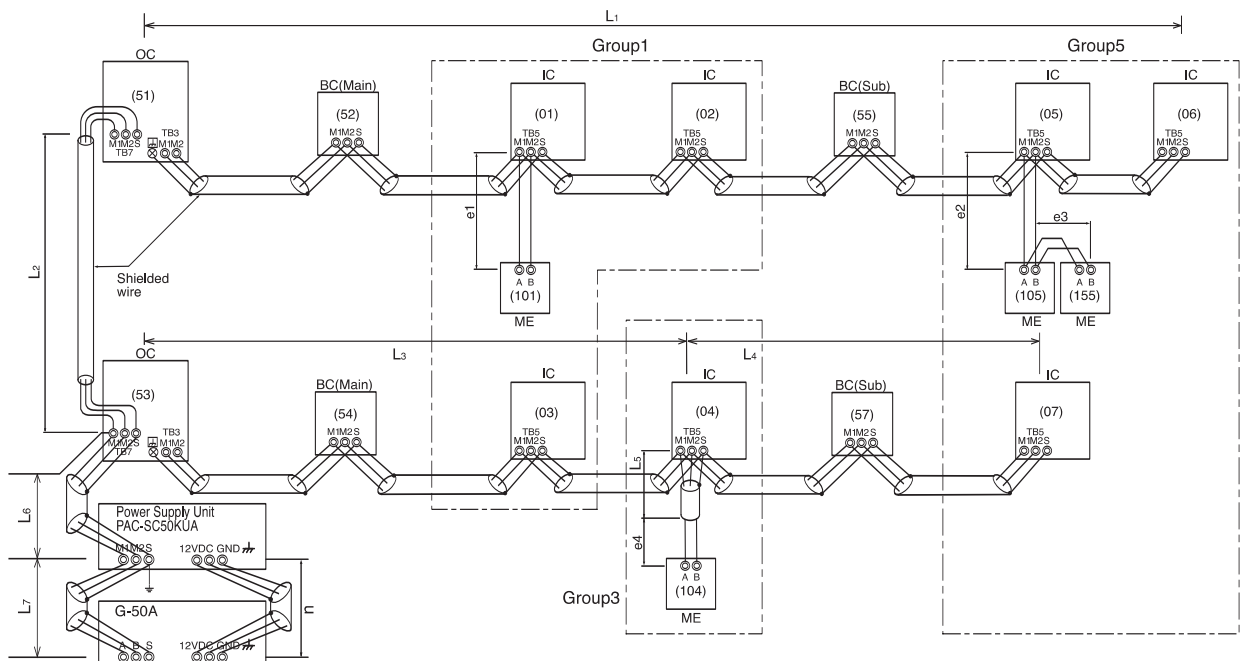
OC: Outdoor unit; IC: Indoor unit; MA: MA remote controller; BC: BC controller

Ref.:TLLL_R2+2BC-MA

2-1-6. Using ME Remote controller and 2 BC controller (PURY/PQRY)

| Applicable to Outdoor as follows | Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission. | | |
|----------------------------------|---|--|---------------------------------------|
| PURY-P200,250,300,350YGM | Max. length via Outdoor (M-NET cable) | L1+L2+L3+L4, L1+L2+L6+L7, L1+L2+L3+L5, L3+L4+L6+L7 | ≤500m 1.25 mm ² or thicker |
| PQRY-P200,250YGM | Max. length to Outdoor (M-NET cable) | L1, L3+L4, L6, L2+L6, L7, L3+L5 | ≤200m 1.25 mm ² or thicker |
| | Max. length from ME to Indoor | e1, e2, e3, e4 | ≤10m *1 0.3-1.25 mm ² *1 |
| | DC 12V to G-50A | n | ≤10m 0.75-2.0 mm ² |

*1. If the length from ME to Indoor exceed 10m, use 1.25 mm² shielded cable, but the total length should be counted into Max. length via Outdoor.



OC: Outdoor unit; IC: Indoor unit; ME: ME remote controller

Ref.:TLLL_R2+1BC-ME

2-2. Transmission cable specifications

| | Transmission cables | ME Remote controller cables | MA Remote controller cables |
|----------------|---|---|--|
| Type of cable | Shielding wire (2-core) CVVS,CPEVS or MVVS | Sheathed 2-core cable (unshielded) CVV | |
| Cable diameter | More than 1.25mm ² | 0.3 ~ 1.25mm ² (0.75 ~ 1.25mm ²) ※1 | 0.3 ~ 1.25mm ² (0.75 ~ 1.25mm ²) ※1 |
| Remarks | — | When 10m is exceeded, use cables with the same specification as transmission cables. | Max length : 200m |

※1 Connected with simple remote controller.

CVVS,MVVS : PVC insulated PVC jacketed shielded control cable
 CPEVS : PE insulated PVC jacketed shielded communication cable
 CVV : PVC insulated PVC sheathed control cable

2-3. System configuration restrictions

2-3-1. Common restrictions for the M-NET system

For each Outdoor unit, the maximum connectable quantity of Indoor unit is specified at its Specifications table.

- A) 1 Group of Indoor units can have 1-16 Indoor units;
*OA processing unit GUF-RD(H) is considered as Indoor unit.
- B) Maximum 2 remote controllers for 1 Group;
- C) 1 LOSSNAY unit can interlock maximum 16 Indoor units; 1 Indoor unit can interlock only 1 LOSSNAY unit.
- D) Maximum 3 System controllers are connectable when connecting to TB3 of the Outdoor unit
- E) Maximum 3 System controllers are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the Outdoor unit.
- F) 4 System controllers or more are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the power supply unit PAC-SC50KUA. Details refer to 2-3-3-C.
*System controller connected as described in D) and E) would have a risk that the failure of connected Outdoor unit would stop power supply to the System controller.

2-3-2. Ensuring proper communication power for M-NET

In order to ensure proper communication among Outdoor unit, Indoor unit, LOSSNAY, and OA processing unit GUF-RD(H), and Controllers, the transmission power situation for the M-NET should be observed. In some cases, Transmission booster should be used. Taking the power consumption of Indoor unit sized P20-P140 as 1, the equivalent power consumption or supply of others are listed at Table 2-3-1 and Table 2-3-2.

Table 2-3-1 The equivalent power consumption by Indoor units, LOSSNAY, OA processing units, controllers

| Indoor, OA unit | Indoor unit | BC controller | MA RC. LOSSNAY | ME Remote Contr. | Timers, System Contr. | ON/OFF Contr. |
|------------------------------|-----------------|----------------------------------|---|--------------------------------------|--|---------------|
| Sized P20-P140 GUF-50,100 | Sized P200,P250 | CMB-P-V-G(A/B) CMB-P-V-F(A/B) | PAR-20MAA PAR-21MAA PAC-YT51CRA PAR-FA31MA LGH-RX-E | PAR-F27MEA PAC-SE51CRA PZ-52SF | PAC-SC30GRA PAC-SF44SRA PAC-YT34STA G-50A | PAC-YT40ANRA |
| 1 | 7 | 2 | 0 | 1/4 | 1/2 | 3 |

*RC : Remote Controller

Table 2-3-2 The equivalent power supply of Trans. Booster, Power supply unit, Connector TB3, TB7 of Outdoor unit.

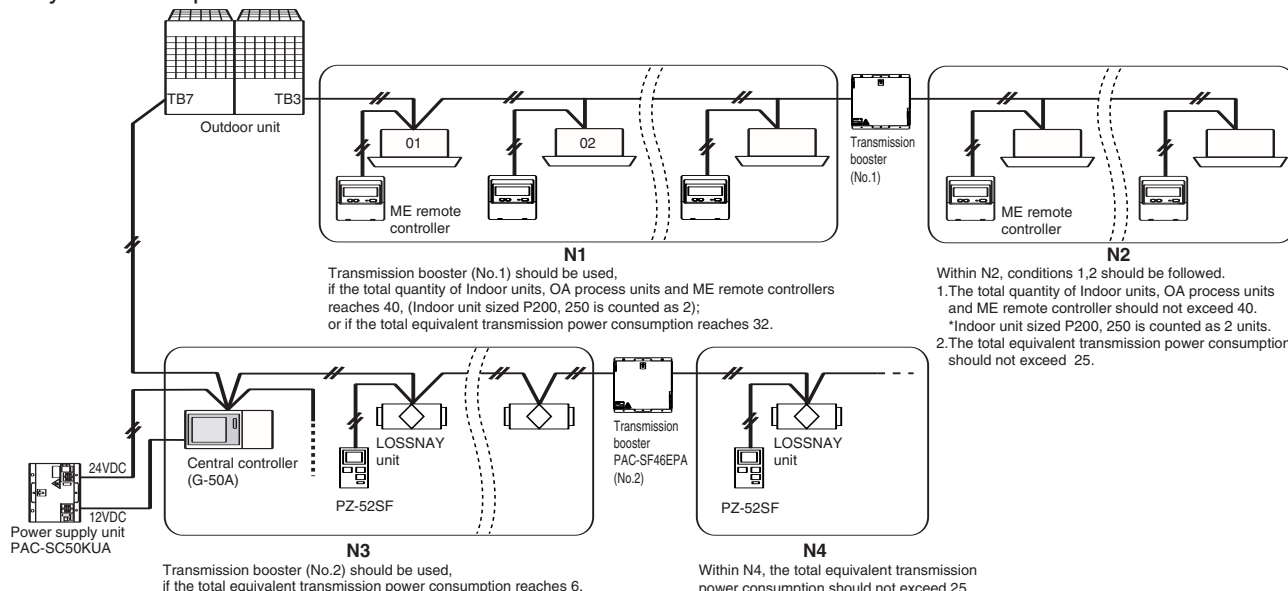
| Transmission Booster | Power supply unit | Outdoor unit | Outdoor unit |
|----------------------|-------------------|-------------------------------|--------------------|
| PAC-SF46EPA | PAC-SC50KUA | Connector TB3 and TB7 total * | Connector TB7 only |
| 25 | 6 | 32 | 6 |

*If PAC-SC50KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32.

With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

- 2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 2 Indoor units, but MA remote controller(s), LOSSNAY is NOT counted.
- 2-3-2-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC50KUA is used to supply power at TB7 side, count from TB3 side only.
- 2-3-2-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

System example



2-3. System configuration restrictions

2-3-3. Ensuring proper power supply to System controller

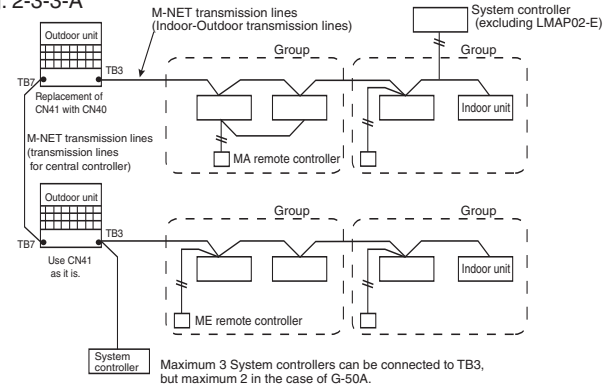
The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Central control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

- A) Connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.
- B) Connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.
- C) Connecting to TB7 of the Outdoor unit but receiving power from power supply unit PAC-SC50KUA.

2-3-3-A. When connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB3. If there is more than 1 Outdoor unit, it is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

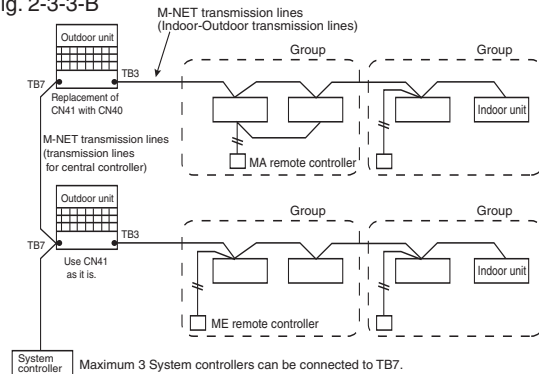
Fig. 2-3-3-A



2-3-3-B. When connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB7 and receiving power from the Outdoor unit. It is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

Fig. 2-3-3-B



2-3-3-C. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC50KUA.

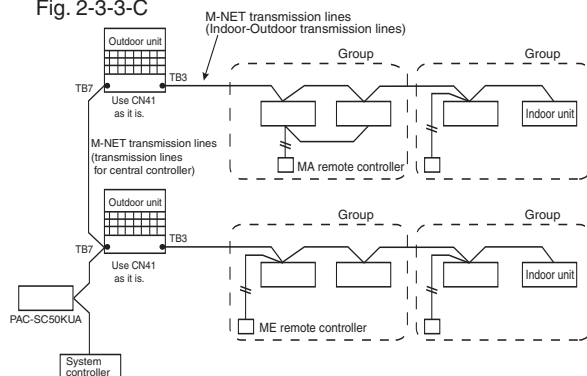
When using PAC-SC50KUA to supply transmission power, the power supply connector CN41 should be kept as it is. It is also a factory setting.

1 PAC-SC50KUA supports maximum 2 G-50A units due to the limited power DC 12V at its TB3.

However, 1 PAC-SC50KUA supplies transmission power at its TB2 equal to 6 Indoor unit, which is referable at Table 2-3-2.

If PZ-52SF, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 6, Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-C



CAUTION

G-50A is recommended to connect to TB7 because it performs back-up to a number of data.

In an air conditioner system has more than 1 Outdoor units, G-50A receiving transmission power at TB3 or TB7 on one of the Outdoor units would have a risk that the connected Outdoor unit failure would stop power supply to G-50A, and disrupt the whole system.

When applying apportioned electric power function, G-50A is necessary to connected to TB7 and has its own power supply unit PAC-SC50KUA.

2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240V AC power supply is needed.

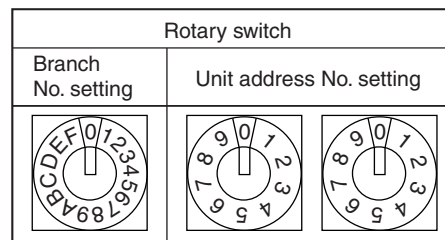
The power supply unit PAC-SC50KUA is not necessary when connecting only the LMAP02-E. Yet, make sure to change the power supply changeover connector CN41 to CN40 on the LM adapter.

2-4. Address setting

2-4-1. Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.

- ① Address No. of outdoor unit, indoor unit and remote controller.
The address No. is set at the address setting board.
In the case of R2 system, it is necessary to set the same No. at the branch No. switch of indoor unit as that of the BC controller connected. (When connecting two or more branches, use the lowest branch No.)



- ② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

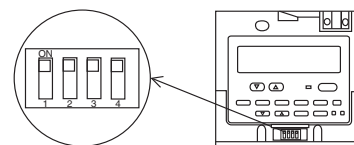
- ③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

Setting the dip switches

The dip switches are at the bottom of the remote controller. Remote controller Main/Sub and other function settings are performed using these switches.


























Ordinarily, only change the Main/Sub setting of SW1. (The factory settings are all "ON".)



| SW No | SW contents Main | ON | OFF | Comment |
|-------|--|-------------|---------------|--|
| 1 | Remote controller Main/Sub setting | Main | Sub | Set one of the two remote controllers at one group to "Main". |
| 2 | When remote controller power turned on | Normally on | Timer mode on | When you want to return to the timer mode when the power is restored after a power failure when a Program timer is connected, select "Timer mode". |
| 3 | Cooling/heating display in AUTO mode | Yes | No | When you do not want to display "Cooling" and "Heating" in the Auto mode, set to "No". |
| 4 | Intake temperature display | Yes | No | When you do not want to display the intake temperature, set to "No". |

2-4. Address setting

2-4-2. Rule of setting address

| Unit | Address setting | Example | Note | |
|-------------------------|--------------------------------------|--|--|--|
| Indoor unit | 01 ~ 50 |   10 1 | Use the most recent address within the same group of indoor units. Make the indoor units address connected to the BC controller (Sub) larger than the indoor units address connected to the BC controller (Main). If applicable, set the sub BC controllers in an PURY system in the following order: (1) Indoor unit to be connected to the BC controller (Main) (2) Indoor unit to be connected to the BC controller (No.1 Sub) (3) Indoor unit to be connected to the BC controller (No.2 Sub) Set the address so that (1)<(2)<(3) | |
| Outdoor unit | 51 ~ 99, 100 |   10 1 | The smallest address of indoor unit in same refrigerant system + 50 ※ The address automatically becomes "100" if it is set | |
| BC controller (Main) | 52 ~ 99, 100 |   10 1 | The address of outdoor unit + 1 ※ Please reset another address between 01 and 50 when two addresses overlap. ※ The address automatically becomes "100" if it is set | |
| BC controller (Sub) | 52 ~ 99, 100 |   10 1 | Lowest address within the indoor units connected to the BC controller (Sub) plus 50. | |
| Local remote controller | ME, LOSSNAY Remote controller (Main) | 101 ~ 150 | 1 Fixed   10 1 | The smallest address of indoor unit in the group + 100 ※ The place of "100" is fixed to "1" |
| | ME, LOSSNAY Remote controller (Sub) | 151 ~ 199, 200 | 1 Fixed   10 1 | The address of main remote controller + 50 ※ The address automatically becomes "200" if it is set as "00" |
| System controller | Group remote controller | 201 ~ 250 | 2 Fixed   10 1 | The smallest group No. to be managed + 200 |
| | System remote controller | 000, 201 ~ 250 |    100 10 1 | |
| | ON/OFF remote controller | 000, 201 ~ 250 |    100 10 1 | |
| | G-50A GB-50A | 000, 201 ~ 250 |    100 10 1 | |
| | LMAP02-E | 201 ~ 250 | 2 Fixed   10 1 | |

※ Outdoor unit here mentioned includes PUHY, PURY, PQHY, PQRY.

2-4. Address setting

2-4-3. System examples

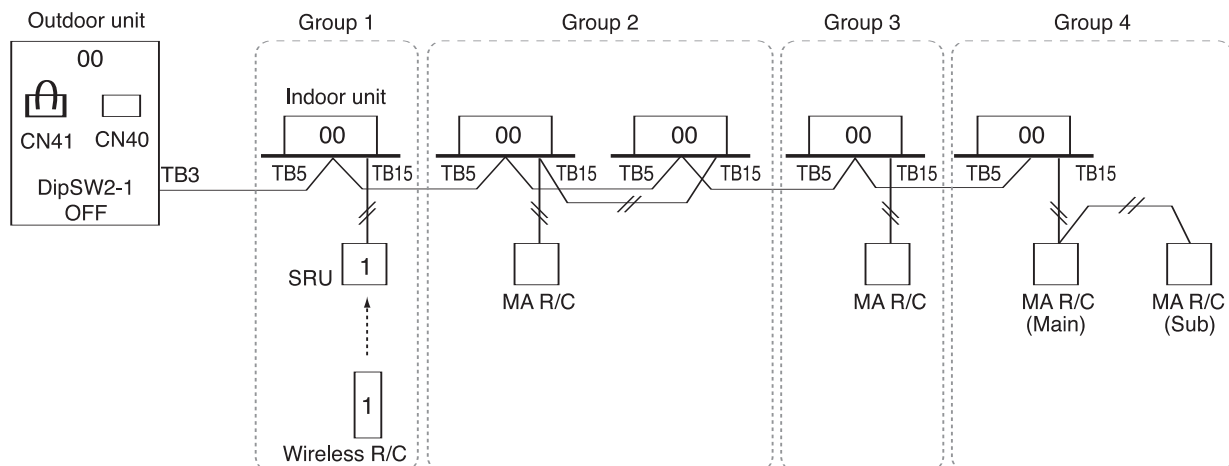
Factory setting

Original switch setting of the outdoors, indoors, controllers, LMAP02-E at shipment is as follows.

- Outdoor unit : Address: 00, CN41: ON, DipSW2-1: OFF
- Indoor unit : Address: 00
- Remote controller : Address: 100
- LMAP : Address: 247, CN41: ON, DipSW1-2: OFF

2-4-3-1. Example : Basic (No address setting)

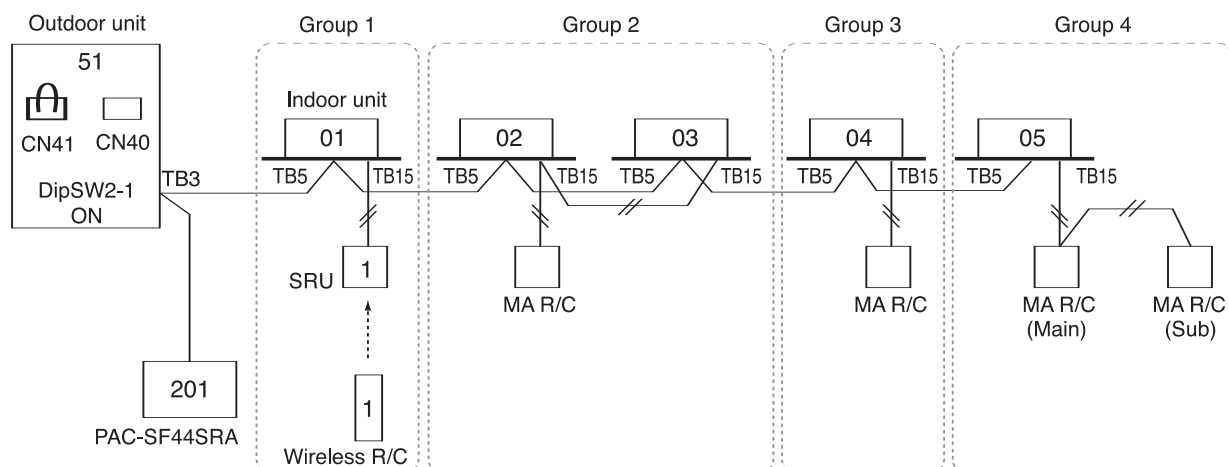
MA R/C : PAR-20MAA
 SRU(Signal receiving unit) : PAR-FA31MA
 Wireless R/C : PAR-FL31MA



Ref : MA01

2-4-3-2. Example : Basic, PAC-SF44SRA

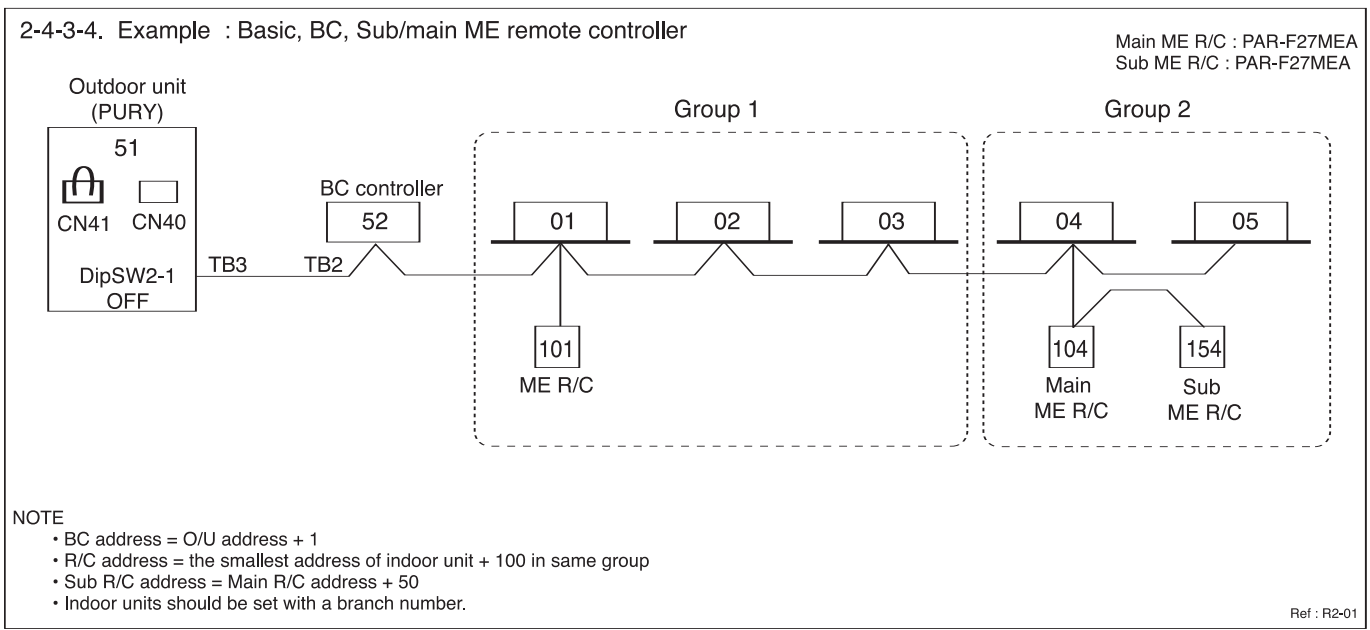
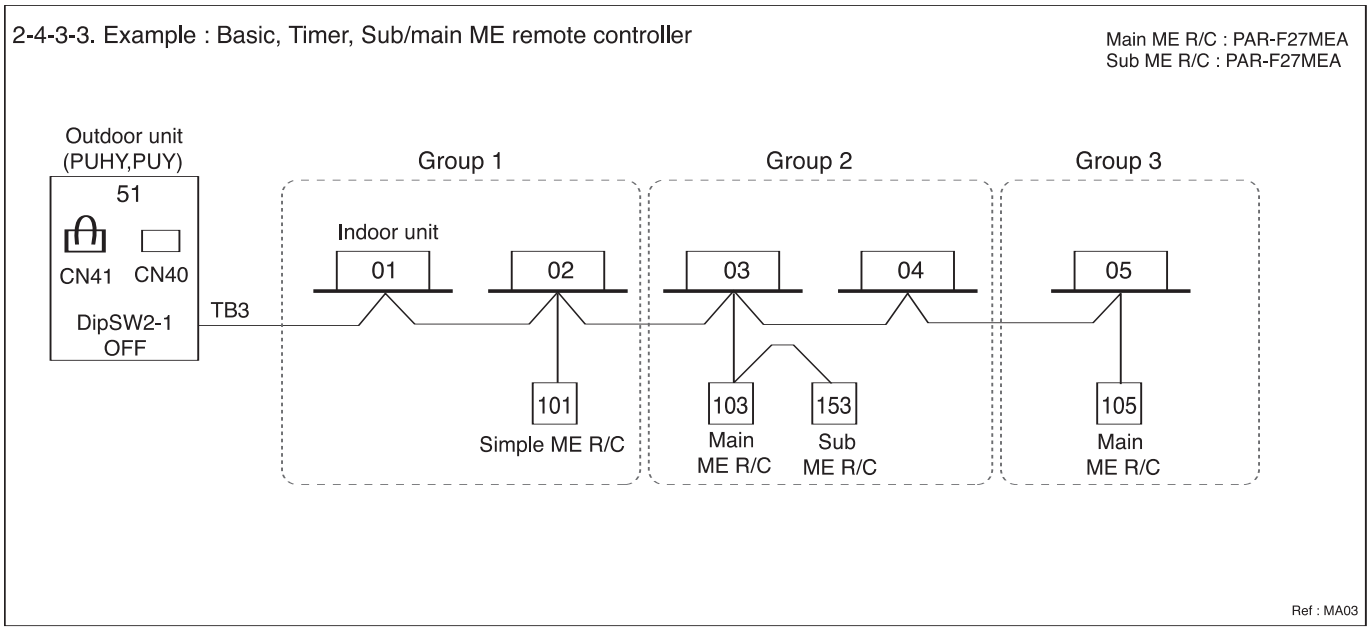
MA R/C : PAR-20MAA
 SRU(Signal receiving unit) : PAR-FA31MA
 Wireless R/C : PAR-FL31MA
 System remote controller : PAC-SF44SRA



Ref : MA02

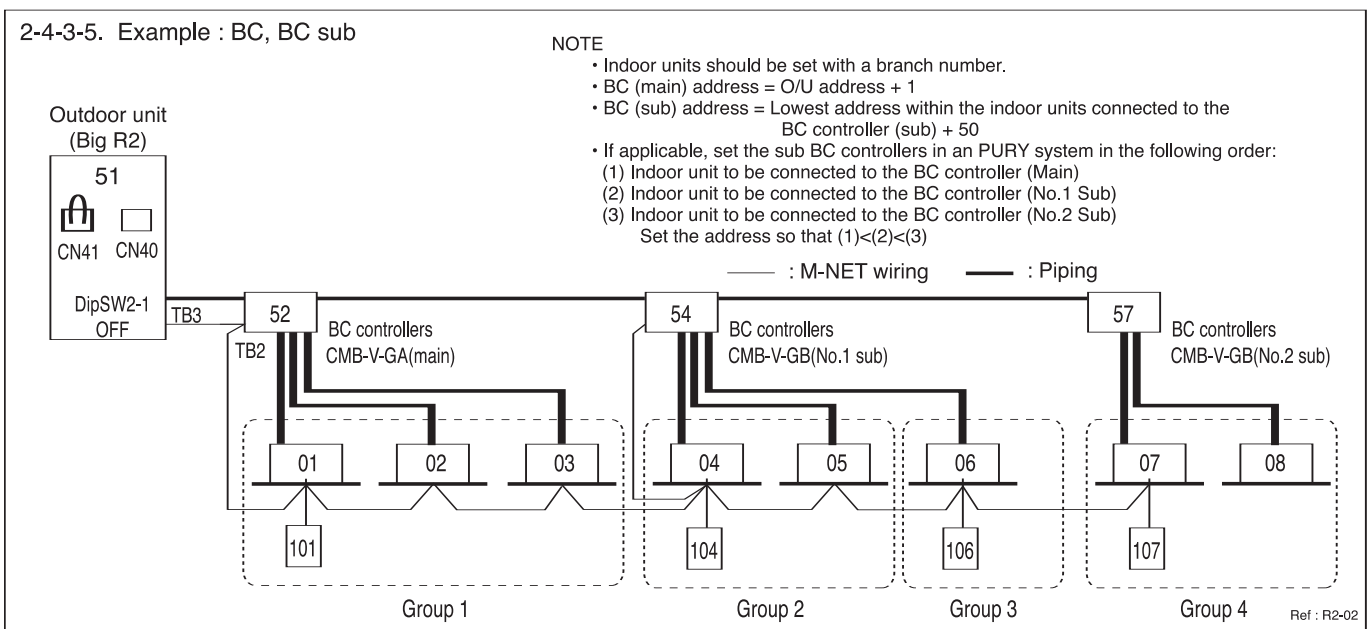
2-4. Address setting

2-4-3. System examples



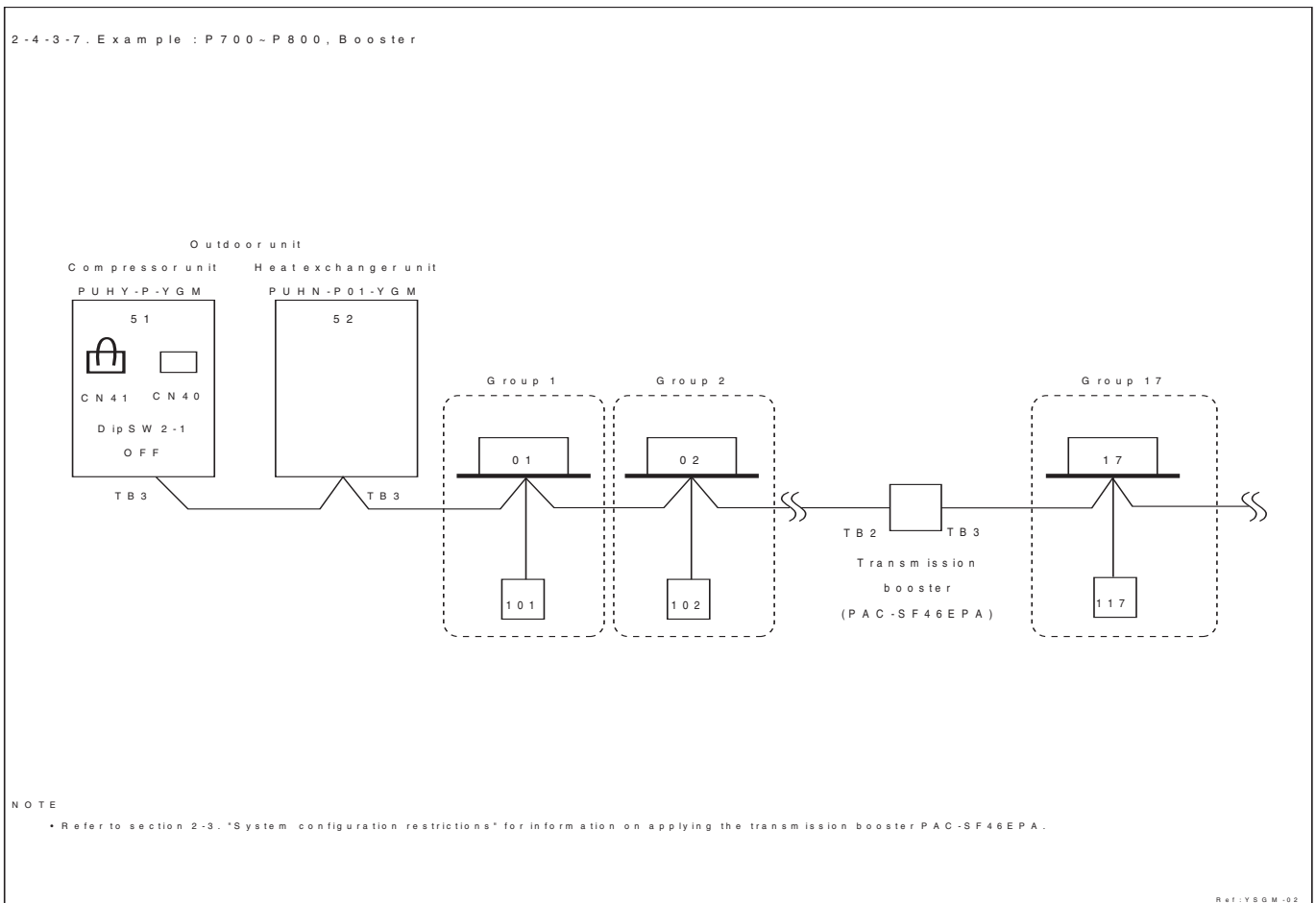
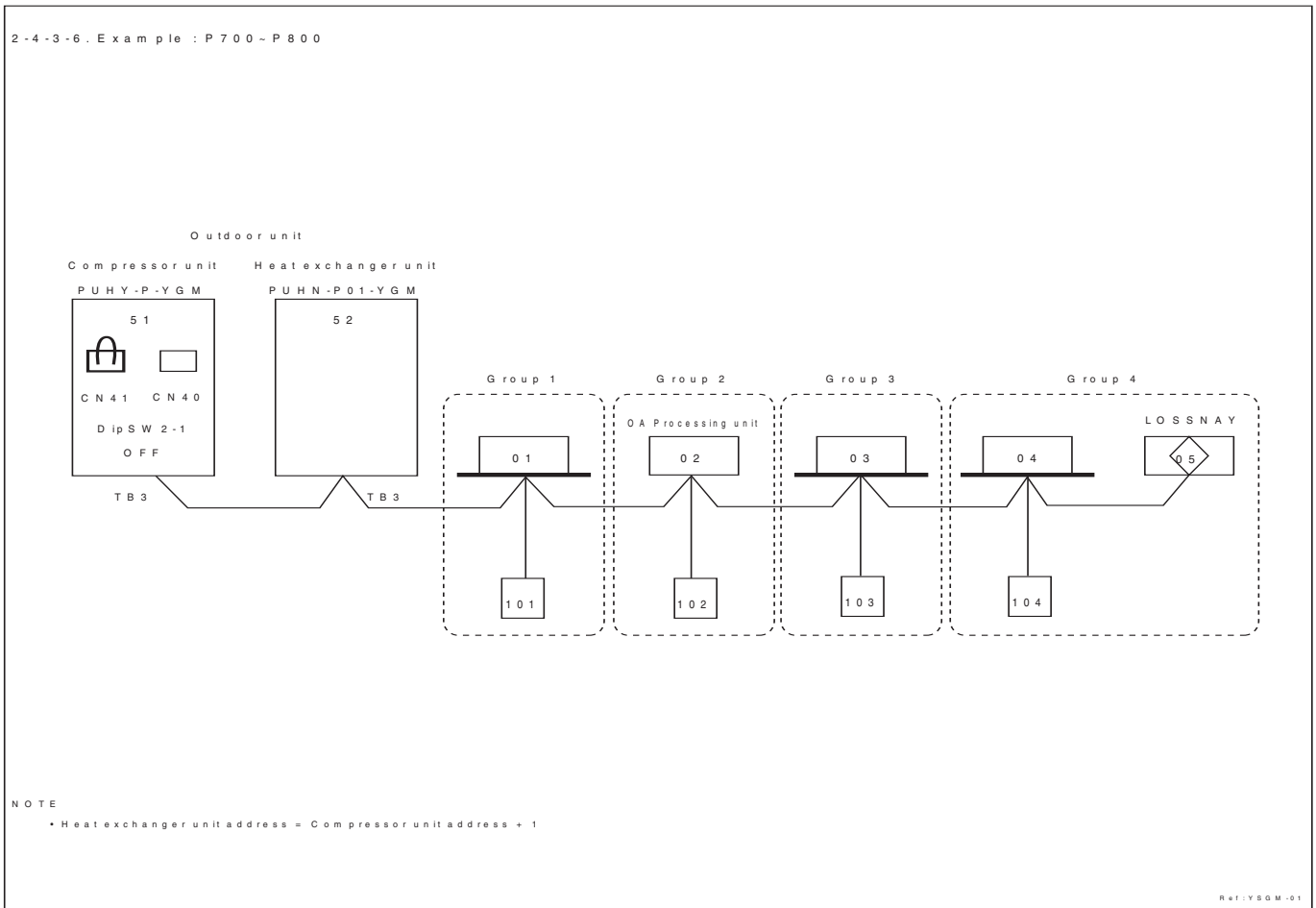
NOTE

- BC address = O/U address + 1
- R/C address = the smallest address of indoor unit + 100 in same group
- Sub R/C address = Main R/C address + 50
- Indoor units should be set with a branch number.



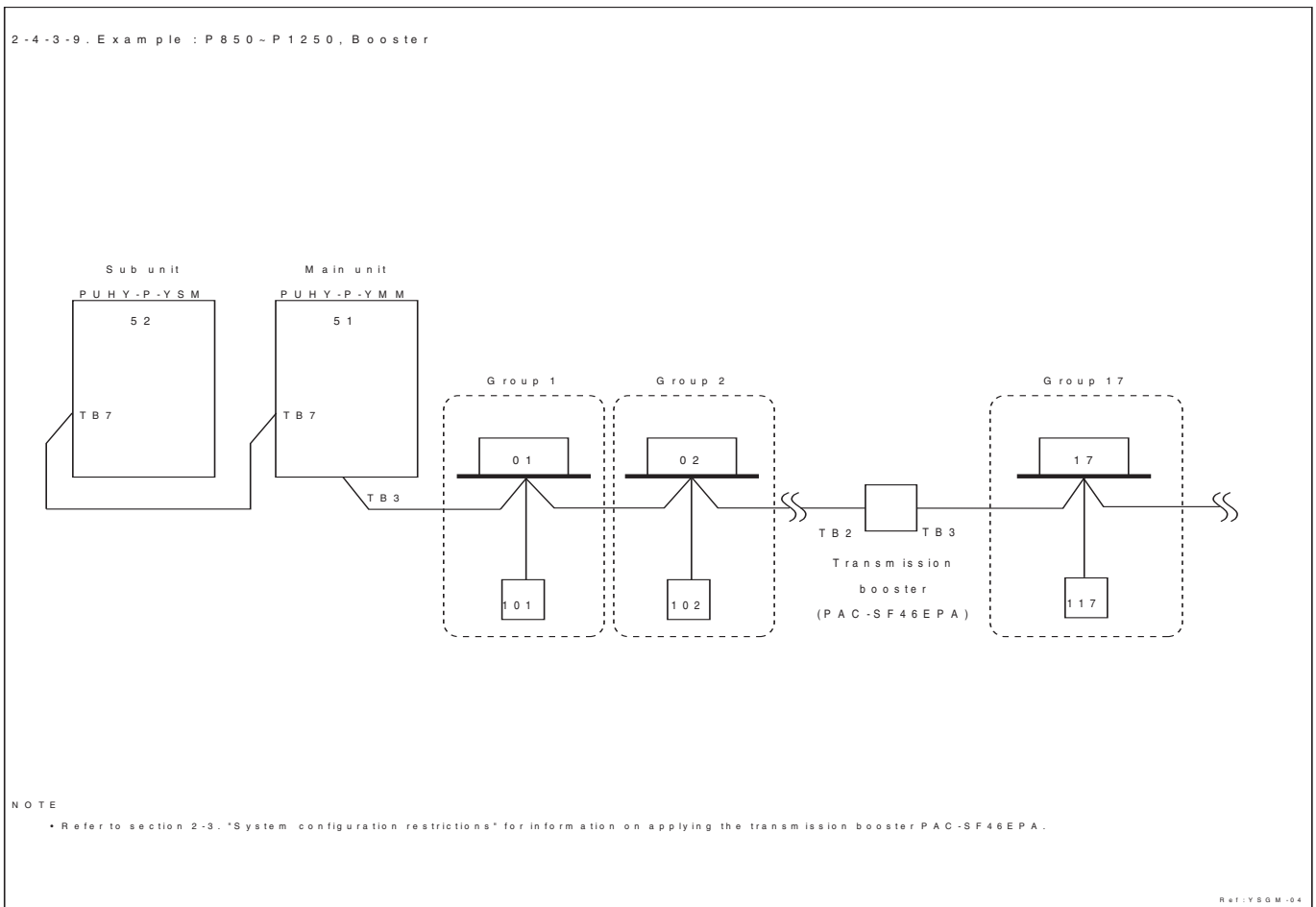
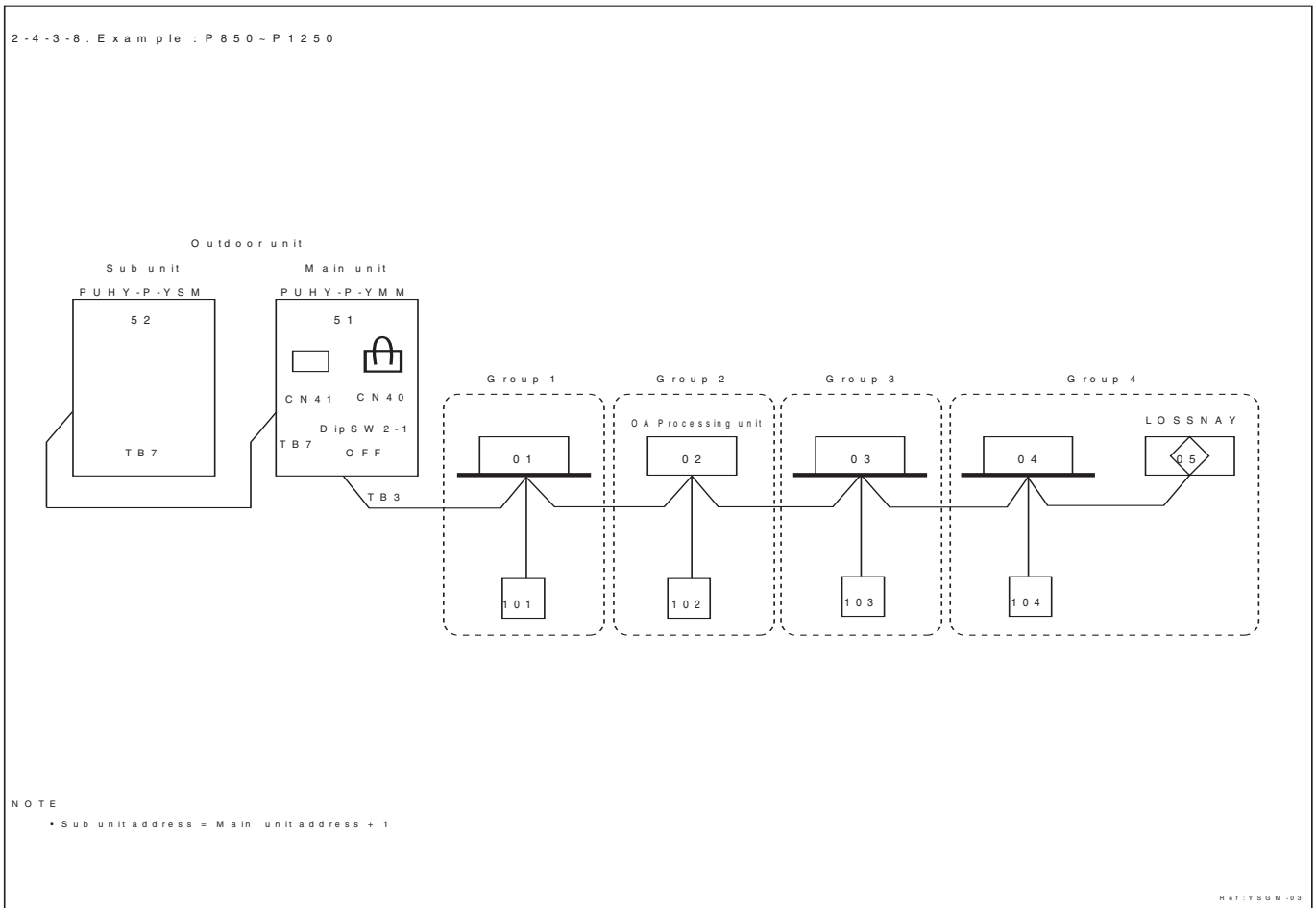
2-4. Address setting

2-4-3. System examples



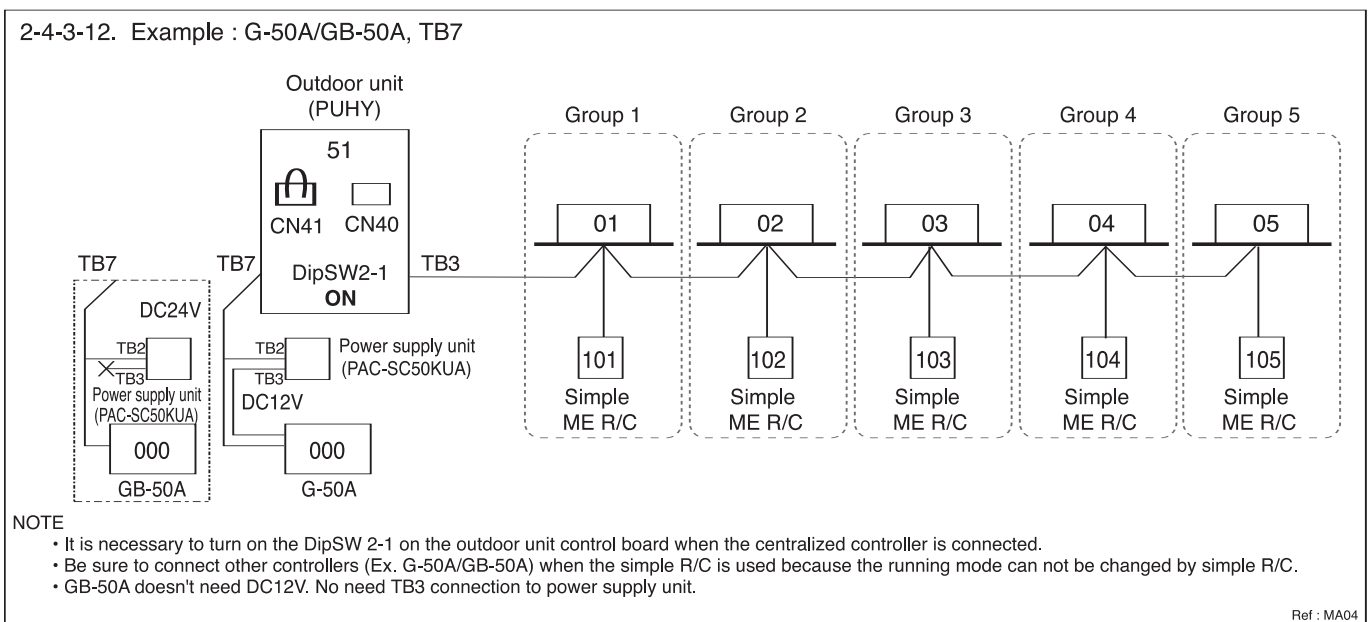
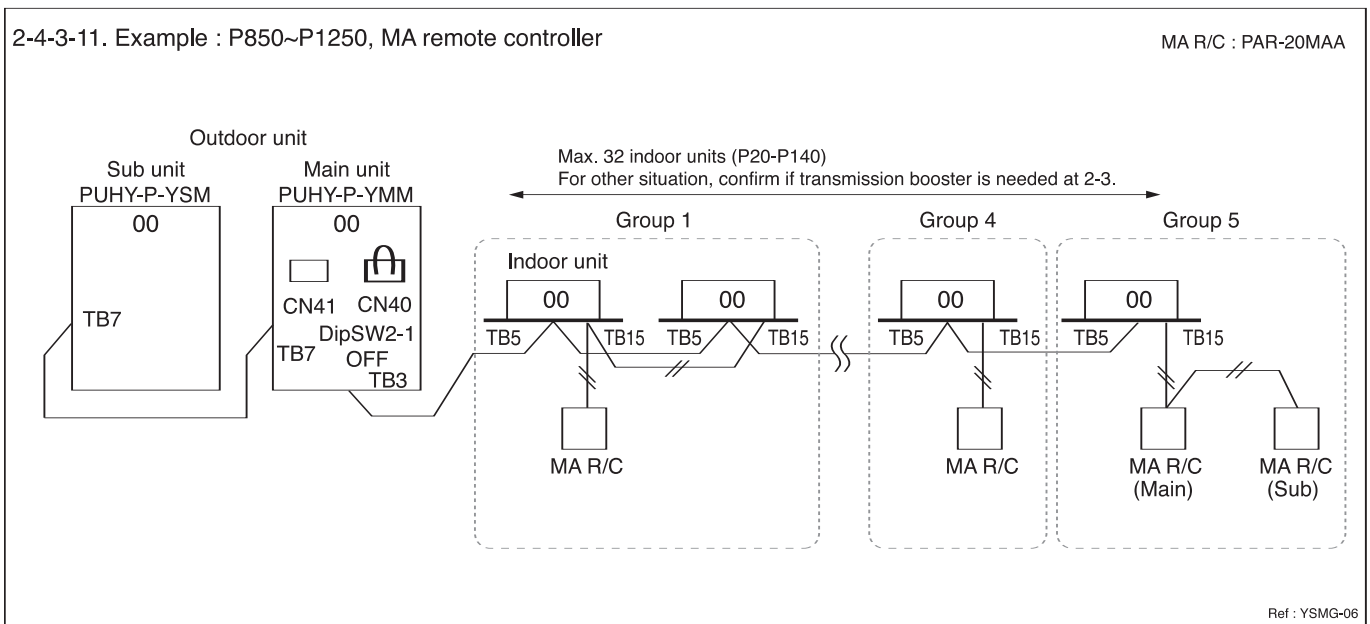
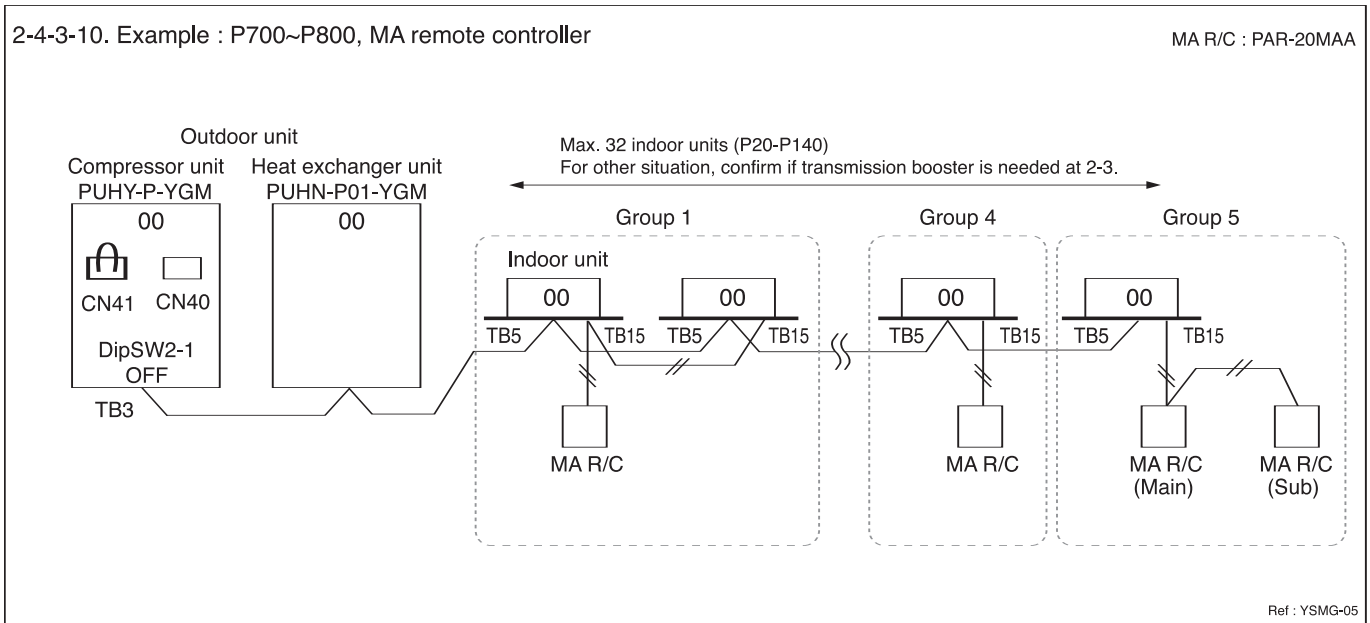
2-4. Address setting

2-4-3. System examples



2-4. Address setting

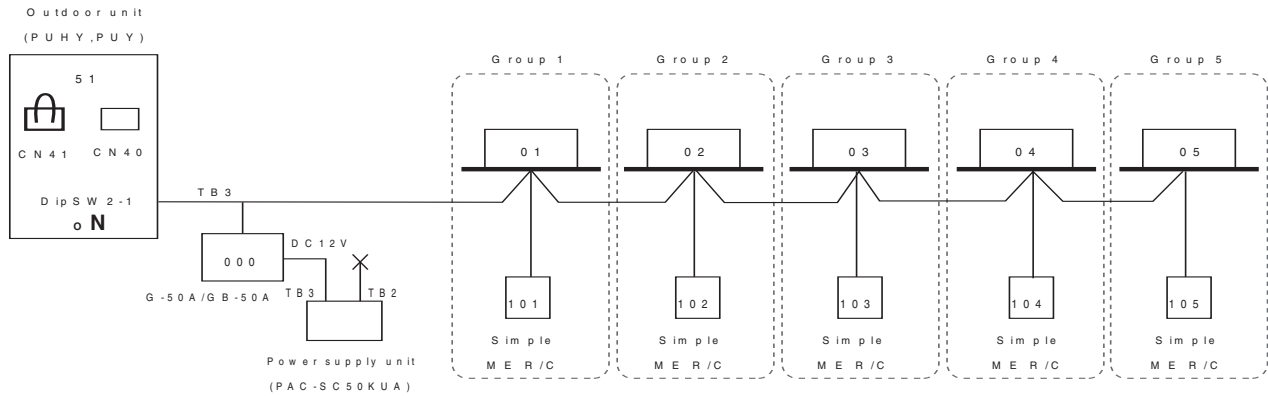
2-4-3. System examples



2-4. Address setting

2-4-3. System examples

2-4-3-13. Example : G -50A /GB -50A , TB3

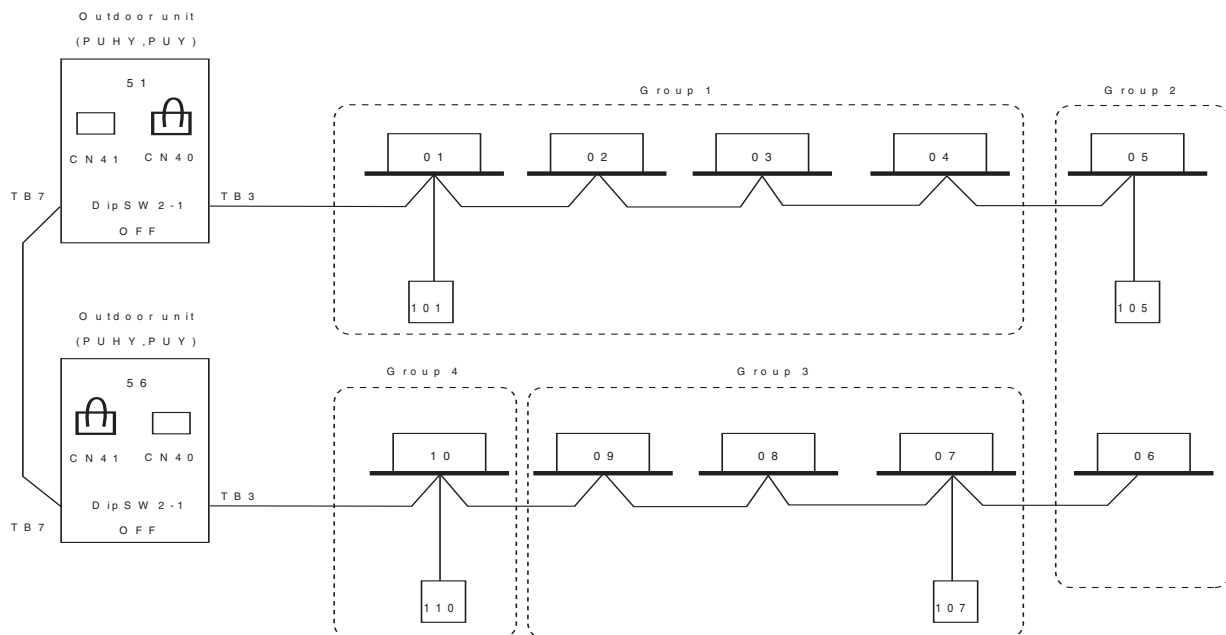


NOTE

- It is not necessary to connect the M-NET line between G-50A and Power supply unit (TB2) when G-50A is connected on the indoor line.
- G-B-50A need power from TB3 of the outdoor unit only.

Ref: MA05

2-4-3-14. Example : Grouping in different refrigerant system



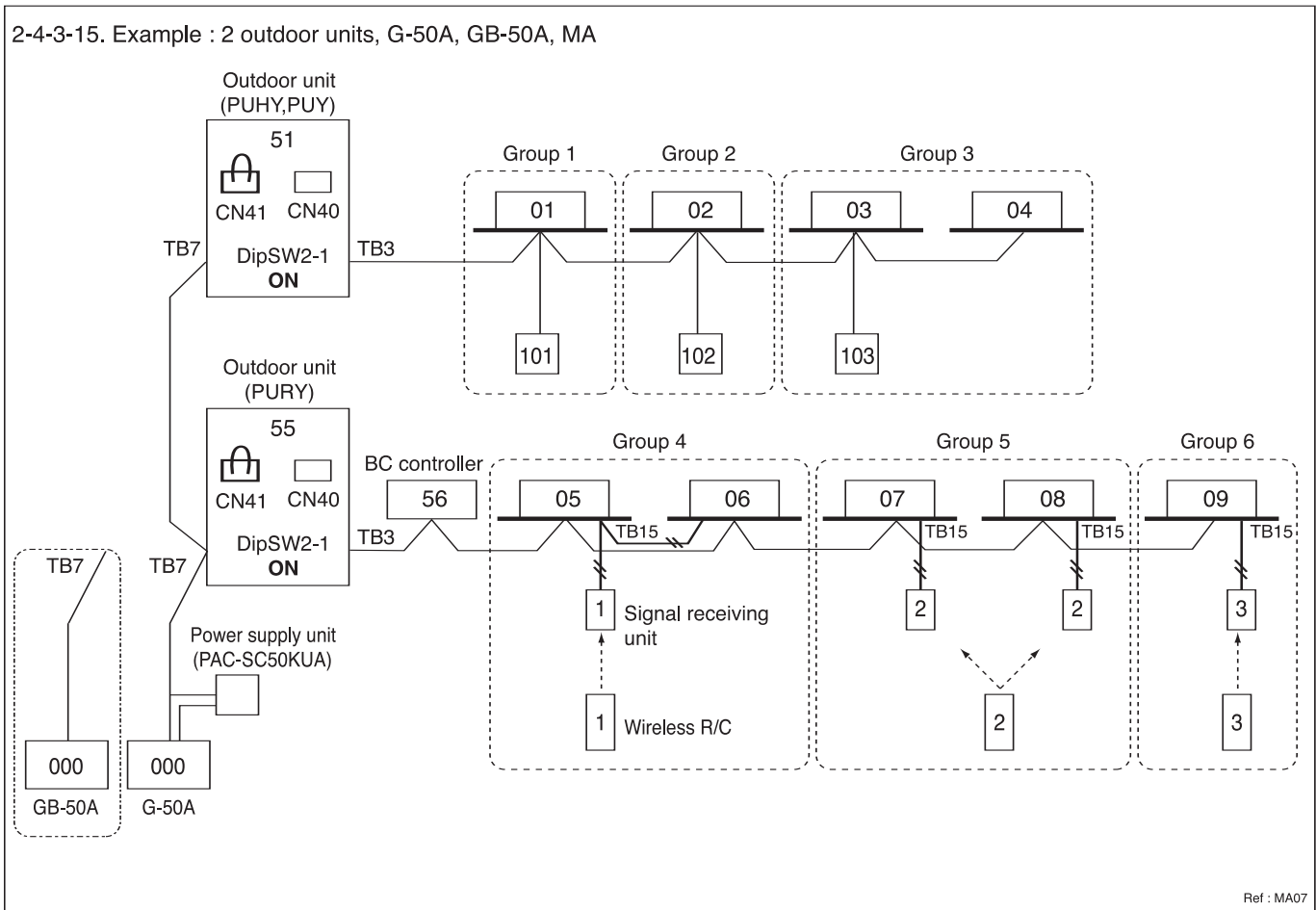
NOTE

- It is necessary to change the connector to CN 40 on the outdoor unit control board (only one outdoor unit) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

Ref: MA06

2-4. Address setting

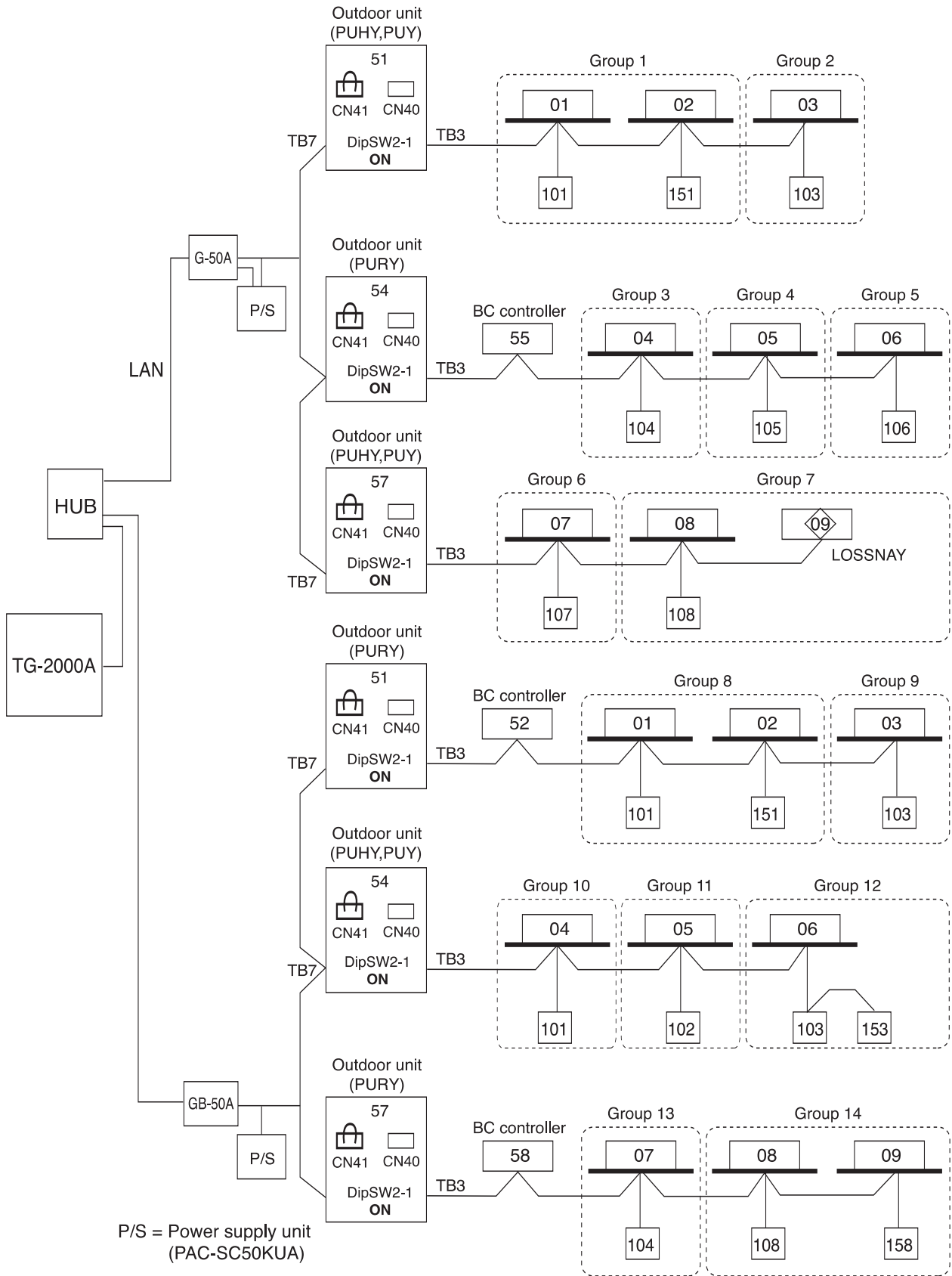
2-4-3. System examples



2-4. Address setting

2-4-3. System examples

2-4-3-16. Example : TG-2000A



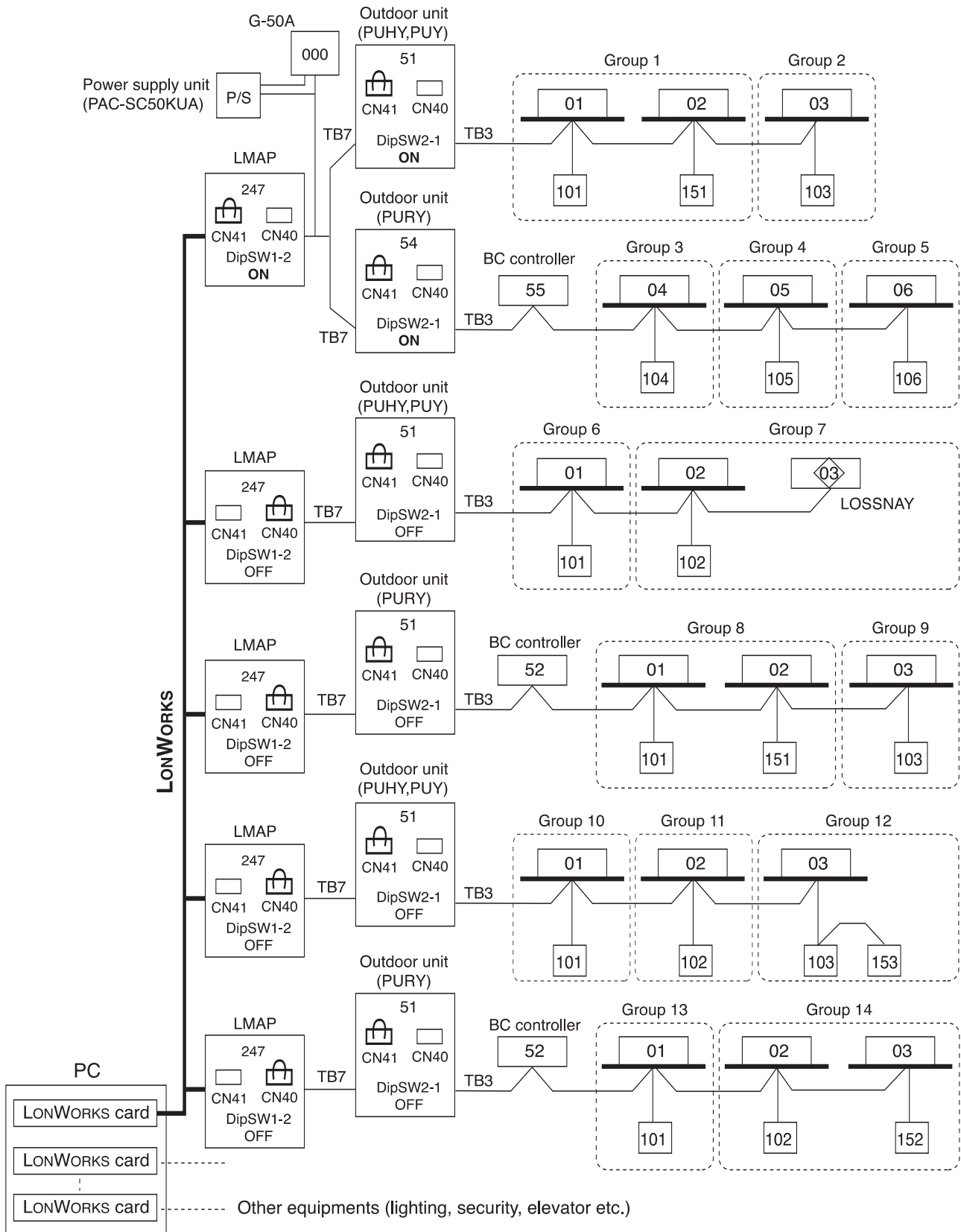
P/S = Power supply unit (PAC-SC50KUA)

- NOTE
- G-50A/GB-50A can control maximum 50 indoor units.
 - TG-2000A can control maximum 40 G-50A/GB-50As.
 - TG-2000A can control 2000 indoor units.

2-4. Address setting

2-4-3. System examples

2-4-3-17. Example : LONWORKS



NOTE

- LMAP (LMAP 02-E) can control 50 indoor units.
- It is necessary to turn on the DipSW1-2 on the LMAP control board and the DipSW2-1 on the outdoor unit control board with central controllers (Power supply unit).
- It is necessary to change the connector to CN40 on the LMAP control board without central controllers (Power supply unit).

Ref : MA09

3-1. PUHY-P-YGM, PURY-P-YGM, PQHY-P-YGM, PQRV-P-YGM, PUMY-P-YHM's Piping material

Refrigerant pipe for CITY MULTI shall be made of phosphorus deoxidized copper, and has two types.

A. Type-O : Soft copper pipe (annealed copper pipe), can be easily bent with human's hand.

B. Type-1/2H pipe : Hard copper pipe (Straight pipe), being stronger than Type-O pipe of the same radical thickness.

The maximum operation pressure of R410A air conditioner is 4.30 MPa . The refrigerant piping should ensure the safety under the maximum operation pressure. MITSUBISHI ELECTRIC recommends pipe size as Table 3-1, or You shall follow the local industrial standard. Pipes of radical thickness 0.7mm or less shall not be used.

Table 3-1. Copper pipe size and radial thickness for R410A CITY MULTI.

| Size (mm) | Size (inch) | Radial thickness (mm) | Pipe type |
|-----------|-------------|-----------------------|----------------|
| ø6.35 | ø1/4" | 0.8 | Type-O |
| ø9.52 | ø3/8" | 0.8 | Type-O |
| ø12.7 | ø1/2" | 0.8 | Type-O |
| ø15.88 | ø5/8" | 1.0 | Type-O |
| ø19.05 | ø3/4" | 1.2 | Type-O |
| ø19.05 | ø3/4" | 1.0 | Type-1/2H or H |
| ø22.2 | ø7/8" | 1.0 | Type-1/2H or H |
| ø25.4 | ø1" | 1.0 | Type-1/2H or H |
| ø28.58 | ø1-1/8" | 1.0 | Type-1/2H or H |
| ø31.75 | ø1-1/4" | 1.1 | Type-1/2H or H |
| ø34.93 | ø1-3/8" | 1.2 | Type-1/2H or H |

* For pipe sized ø19.05 (3/4") for R410A air conditioner, choice of pipe type is up to you.

3-2. PUHY-P-YGM's Piping Design

3-2-1. PUHY-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

A. PUHY-P200,250,300,350,400YGM; PUY-P200,250,300,350YGM

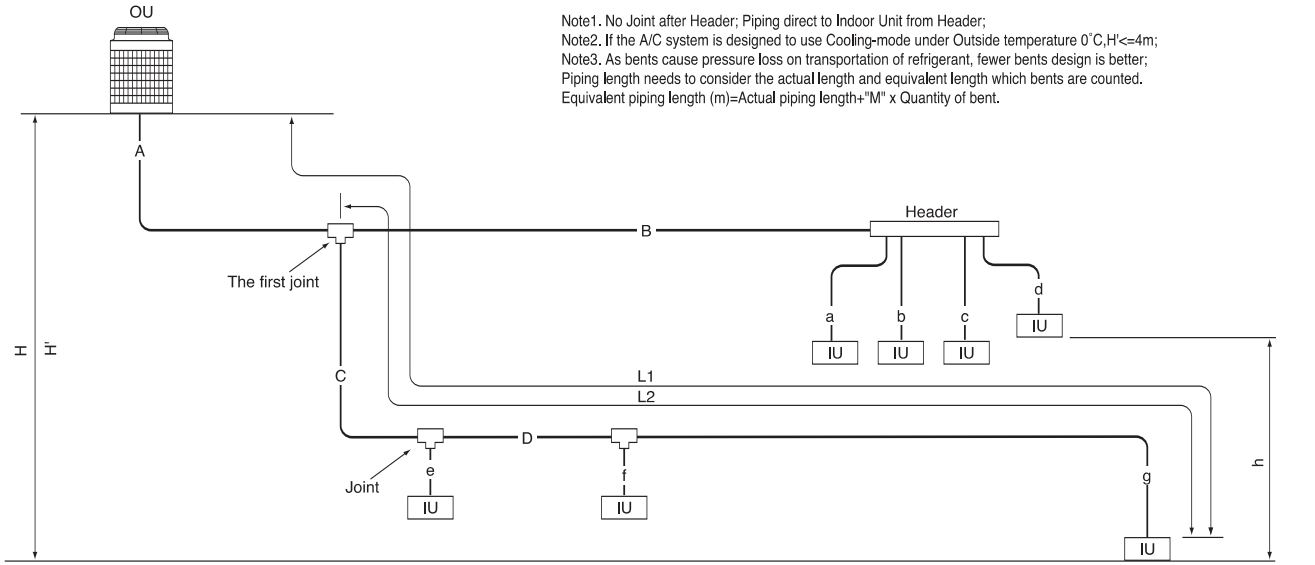


Fig. 3-2-1A PU(H)Y-P200,250,300,350,400YGM piping scheme

IU : Indoor unit , OU : Outdoor unit

Note1. No Joint after Header; Piping direct to Indoor Unit from Header;
 Note2. If the A/C system is designed to use Cooling-mode under Outside temperature 0°C, H'≤4m;
 Note3. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
 Piping length needs to consider the actual length and equivalent length which bents are counted.
 Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

Table3-2-1A1. PU(H)Y-P200-400YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|-----------------------|-------------|-----------------|
| Total piping length | A+B+C+D+a+b+c+d+e+f+g | 300m | - |
| Farthest IU from OU (L1) | A+C+D+g / A+B+d | 150m | 175m |
| Farthest IU from first Joint (L2) | C+D+g / B+d | 40m | 40m |
| Height between OU and IU (OU above IU) | H | 50m | - |
| Height between OU and IU (OU under IU) | H' | 40m | - |
| Height between IU and IU | h | 15m | - |

OU: Outdoor Unit, IU: Indoor Unit

Table3-2-1A2. PUHY-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|----------------|------------|
| PU(H)Y-P200YGM | 0.35 |
| PU(H)Y-P250YGM | 0.42 |
| PU(H)Y-P300YGM | 0.42 |
| PU(H)Y-P350YGM | 0.47 |
| PUHY-P400YGM | 0.50 |

Table3-2-1A3. PU(H)Y-P200-400YGM's piping "A" size selection rule (mm)

| Outdoor and the first Joint | Pipe(Liquid) | Pipe(Gas) |
|-------------------------------------|--------------|-----------|
| PU(H)Y-P200YGM=CMY-Y102L-G1,Y102S-G | ø9.52 | ø19.05 |
| PU(H)Y-P250YGM=CMY-Y102-G1 | *1 ø9.52 | ø22.20 |
| PU(H)Y-P300YGM=CMY-Y202-G1 | *2 ø9.52 | ø22.20 |
| PU(H)Y-P350YGM=CMY-Y202-G1 | ø12.70 | ø28.58 |
| PUHY-P400YGM=CMY-Y202-G1 | ø12.70 | ø28.58 |

*1. A>=90m, ø12.70mm ; *2. A>=40m, ø12.70mm

Table3-2-1-6. R410A Joint selection rule

| Total down-stream Indoor capacity | Joint |
|-----------------------------------|--------------|
| ~ P200 | CMY-Y102S-G |
| P201 ~ P400 | CMY-Y102L-G1 |
| P401 ~ P650 | CMY-Y202-G1 |
| P651 ~ | CMY-Y302-G1 |

*PUHY-P450-650YGM's first Joint is always CMY-Y202-G1;

*PUHY-P700-1250YGM's first Joint is always CMY-Y302-G1;

*Concerning detailed usage of Joint parts, refer to its Installation Manual.

Table3-2-1A4. PU(H)Y-P200-400YGM's piping "B", "C", "D" size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |
| P141 ~ P200 | ø9.52 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø22.20 |
| P301 ~ P400 | ø12.70 | ø28.58 |
| P401 ~ P650 | ø15.88 | ø28.58 |
| P651 ~ P800 | ø19.05 | ø34.93 |
| P801 ~ | ø19.05 | ø41.28 |

Table3-2-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e", "f", "g" size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 | ø9.52 | ø19.05 |
| P250 | ø9.52 | ø22.20 |

Table3-2-1-7. R410A Header selection rule

| | 4-branch Header | 8-branch Header | 10-branch Header |
|-----------------------------------|-----------------|-----------------|------------------|
| | CMY-Y104-G | CMY-Y108-G | CMY-Y1010-G |
| Total down-stream Indoor capacity | <=P200 | <=P400 | <=P650 |

* CMY-Y104-G can directly connect PU(H)Y-P200YGM, but can NOT directly connect PU(H)Y-P250YGM or above;

* CMY-Y108-G can directly connect PU(H)Y-P200-400YGM, but can NOT directly connect PUHY-P450YGM or above;

* CMY-Y1010-G can directly connect PUHY-P200-650YGM, but can NOT directly connect PUHY-P700YGM or above;

* CMY-Y104-G can NOT connect P200,P250 Indoor, but CMY-Y108, Y1010-G can do;

* Concerning detailed usage of Header parts, refer to its Installation Manual.

Note4. Indoor capacity is described as its model size.

For example, PEFY-P63VML-E, its capacity is P63;

Note5. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95;

Note6. Piping size determined by the total down-stream indoor capacity is NOT necessary to be bigger than the up-stream one.
 i.e. A>=B; A>C>=D

3-2. PUHY-P-YGM's Piping Design

3-2-1. PUHY-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

B. PUHY-P450,500,550,600,650YGM

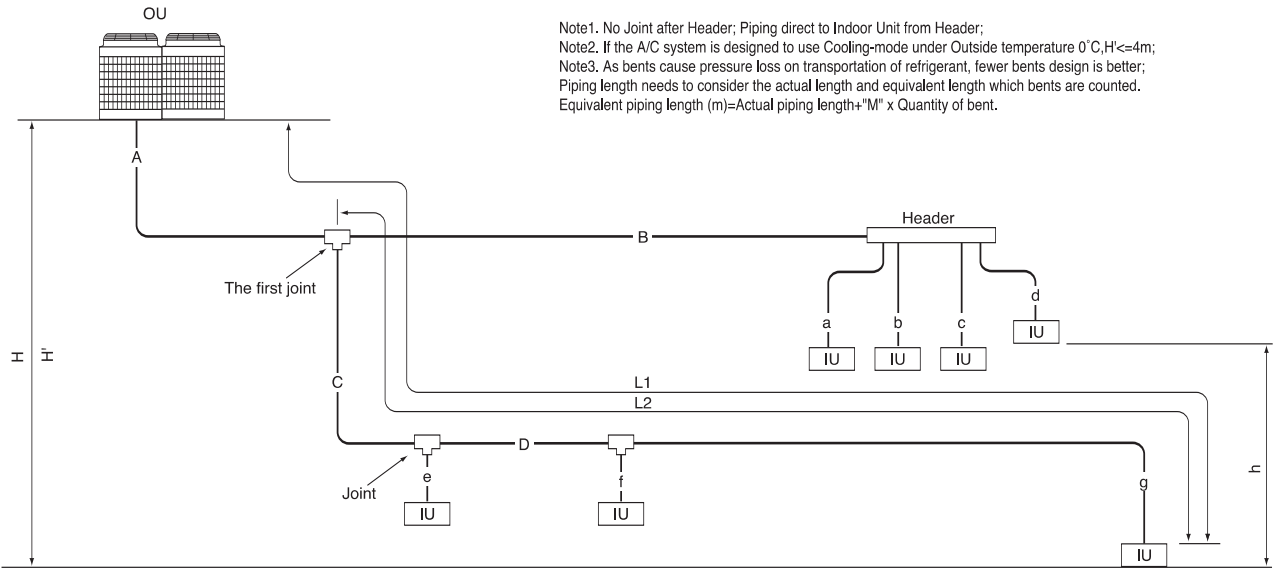


Fig. 3-2-1B. PUHY-P450,500,550,600,650YGM piping scheme

IU : Indoor unit , OU : Outdoor unit

Table3-2-1B1. PUHY-P450-650YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|-----------------------|-------------|-----------------|
| Total piping length | A+B+C+D+a+b+c+d+e+f+g | 300m | - |
| Farthest IU from OU (L1) | A+C+D+g / A+B+d | 150m | 175m |
| Farthest IU from first Joint (L2) | C+D+g / B+d | 40m | 40m |
| Height between OU and IU (OU above IU) | H | 50m | - |
| Height between OU and IU (OU under IU) | H' | 40m | - |
| Height between IU and IU | h | 15m | - |

OU: Outdoor Unit; IU: Indoor Unit

Table3-2-1B2. PUHY-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PUHY-P450YGM | 0.5 |
| PUHY-P500YGM | 0.5 |
| PUHY-P550YGM | 0.5 |
| PUHY-P600YGM | 0.5 |
| PUHY-P650YGM | 0.5 |

Table3-2-1B3. PUHY-P450-650YGM's piping "A" size selection rule (mm)

| Outdoor and the first Joint | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------|--------------|-----------|
| PUHY-P450YGM=CMY-Y202-G1 | ø15.88 | ø28.58 |
| PUHY-P500YGM=CMY-Y202-G1 | ø15.88 | ø28.58 |
| PUHY-P550YGM=CMY-Y202-G1 | ø15.88 | ø28.58 |
| PUHY-P600YGM=CMY-Y202-G1 | ø15.88 | ø28.58 |
| PUHY-P650YGM=CMY-Y202-G1 | ø15.88 | ø28.58 |

Table3-2-1-6. R410A Joint selection rule

| Total down-stream Indoor capacity | Joint |
|-----------------------------------|--------------|
| ~ P200 | CMY-Y102S-G |
| P201 ~ P400 | CMY-Y102L-G1 |
| P401 ~ P650 | CMY-Y202-G1 |
| P651 ~ | CMY-Y302-G1 |

*PUHY-P450-650YGM's first Joint is always CMY-Y202-G1;
 *PUHY-P700-1250YSGM's first Joint is always CMY-Y302-G1;
 *Concerning detailed usage of Joint parts, refer to its Installation Manual.

Table3-2-1B4. PUHY-P450-650YGM's piping "B", "C", "D" size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |
| P141 ~ P200 | ø9.52 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø22.20 |
| P301 ~ P400 | ø12.70 | ø28.58 |
| P401 ~ P650 | ø15.88 | ø28.58 |
| P651 ~ P800 | ø19.05 | ø34.93 |
| P801 ~ | ø19.05 | ø41.28 |

Table3-2-1-7. R410A Header selection rule

| | 4-branch Header | 8-branch Header | 10-branch Header |
|-----------------------------------|-----------------|-----------------|------------------|
| | CMY-Y104-G | CMY-Y108-G | CMY-Y1010-G |
| Total down-stream Indoor capacity | <=P200 | <=P400 | <=P650 |

* CMY-Y104-G can directly connect PU(H)Y-P200YGM, but can NOT directly connect PU(H)Y-P250YGM or above;
 * CMY-Y108-G can directly connect PU(H)Y-P200-400YGM, but can NOT directly connect PUHY-P450YGM or above;
 * CMY-Y1010-G can directly connect PUHY-P200-650YGM, but can NOT directly connect PUHY-P700YSGM or above;
 * CMY-Y104-G can NOT connect P200,P250 Indoor, but CMY-Y108, Y1010-G can do;
 * Concerning detailed usage of Header parts, refer to its Installation Manual.

Table3-2-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e", "f", "g" size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20, P25, P32, P40, P50, GUF-50RD(H) | ø6.35 | ø12.70 |
| P63, P71, P80, P100, P125, P140, GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 | ø9.52 | ø19.05 |
| P250 | ø9.52 | ø22.20 |

Note4. Indoor capacity is described as its model size.
 For example, PEFY-P63VML-E, its capacity is P63;
 Note5. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
 For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95;
 Note6. Piping size determined by the total down-stream indoor capacity is NOT necessary to be bigger than the up-stream one.
 i.e. A>=B; A>=C>=D

3-2. PUHY-P-YGM's Piping Design

3-2-2. PUHY-P-YGM's refrigerant charging calculation

(1) Original charge of refrigerant and the maximum total charge.

At factory shipment, refrigerant are charged in the outdoor unit as shown at Table3-2-2-1 & 3-2-2-2. When extending the piping in the field, additional charge of refrigerant is needed. Yet, the maximum total charge in the air conditioner system should not be exceeded. The maximum additional charge varies on models, shown as at Table3-2-2-1 & 3-2-2-2.

Table 3-2-2-1

| PUHY-P-YGM | P200 | P250,300,350 | P400 | P450,500,550, 600,650 | P700,750,800 | P850,900,950,1000,1050, 1100,1150,1200,1250 |
|----------------------------------|------|--------------|------|--------------------------|--------------|--|
| Original charge A (kg) | 7.0 | 9.5 | 13.0 | 22.0 | 27.0 | 44.0 |
| Maximum total charge B (kg) | 40.0 | 40.0 | 40.0 | 67.0 | 73.0 | 104.0 |
| Maximum additional charge C (kg) | 33.0 | 30.5 | 27.0 | 45.0 | 46.0 | 60 |

Table 3-2-2-2

| PUY-P-YGM | P200 | P250,300,350 |
|----------------------------------|------|--------------|
| Original charge A (kg) | 7.0 | 9.5 |
| Maximum total charge B (kg) | 40.0 | 40.0 |
| Maximum additional charge C (kg) | 30.0 | 30.5 |

(2) Calculate the additional charge for the air conditioner system in the field.

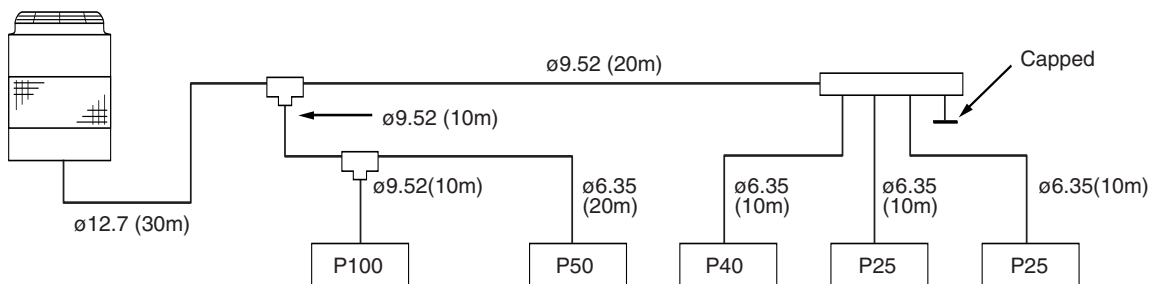
The additional charge (F kg) is calculated as follows. F should be round up to 0.1 digital, like 10.52 → 10.6 kg. Yet, if F results bigger than C, the additional charge is the maximum additional charge C.

$$F \text{ (kg)} = (0.29 \times Lc) + (0.2 \times Ld) + (0.12 \times Le) + (0.06 \times Lf) + (0.024 \times Lg) + D$$

- Where
- Lc(m) : Length of liquid pipe sized $\phi 19.05$
 - Ld(m) : Length of liquid pipe sized $\phi 15.88$
 - Le(m) : Length of liquid pipe sized $\phi 12.7$
 - Lf (m) : Length of liquid pipe sized $\phi 9.52$
 - Lg(m) : Length of liquid pipe sized $\phi 6.35$
 - D(kg) : Additional charge of refrigerant required by the total capacity of indoor units in the refrigerant system.

| Total capacity of indoor units connected | ~160 | 161~330 | 331~480 | 481~630 | 631~710 | 711~890 | 891~1070 | 1071~1250 | 1251~1625 |
|--|------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| D (kg) | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 9.0 |

Example: PUHY-P350YGM-A



This calculation concerns only the liquid pipes.

- Le($\phi 12.7$) : 30m
- Lf ($\phi 9.52$) : 10m + 20m + 10m = 40m
- Lg($\phi 6.35$) : 20m + 10m + 10m + 10m = 50m

Total capacity of indoor units connected:

$$100 + 50 + 40 + 25 + 25 = 240$$

Therefore, D = 2.0kg

Calculation of additional amount :

$$F \text{ (kg)} = (0.12 \times 30) + (0.06 \times 40) + (0.024 \times 50) + 2.0 = 9.2 \text{ kg}$$

$$F < C = 30.5 \text{ kg}$$

Therefore, F=9.2kg

3-3. PURY-P-YGM's Piping Design

3-3-1. PURY-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

A. PURY-P-YGM (with 1 BC controller)

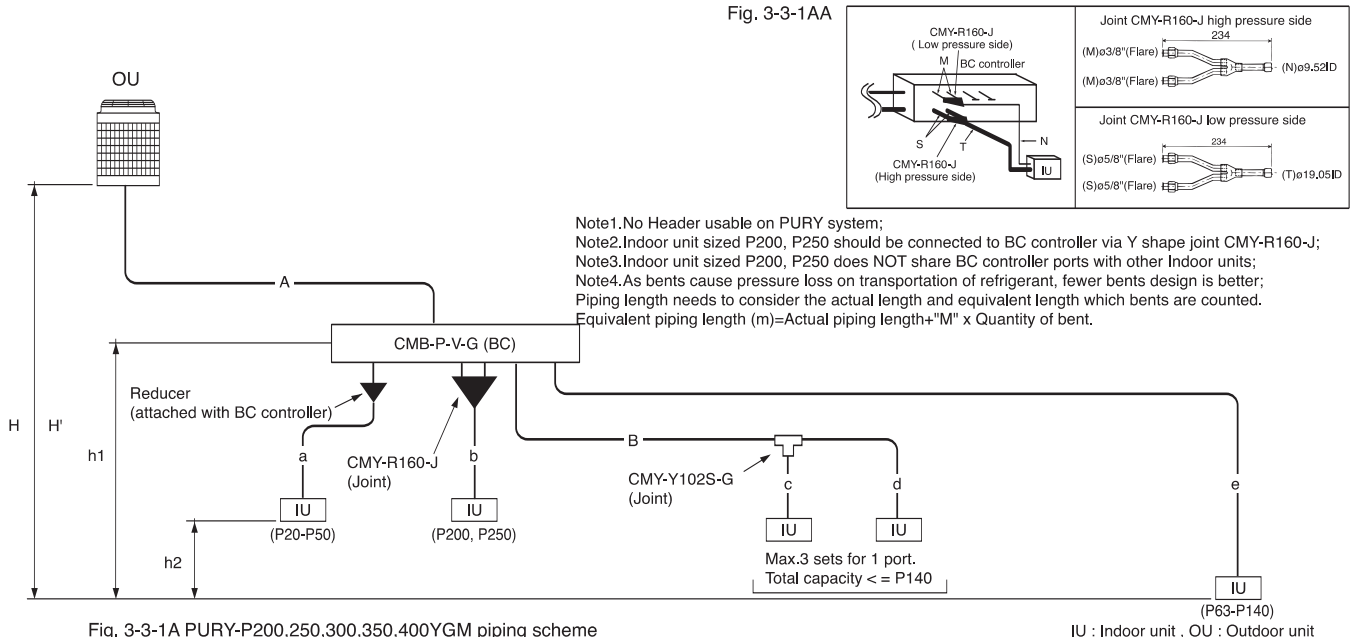


Fig. 3-3-1A PURY-P200,250,300,350,400YGM piping scheme

IU : Indoor unit , OU : Outdoor unit

Table3-3-1A1. PURY-P-YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|----------------------|-------------|-----------------|
| Total piping length | A+B+a+b+c+d+e | 300m *2 | - |
| Farthest IU from OU (L1) | A+e | 150m | 175m |
| Distance between OU and BC | A | 110m *2 | 110m *2 |
| Farthest IU from BC controller | e | 40m *3 | 40m *3 |
| Height between OU and IU (OU above IU) | H | 50m | - |
| Height between OU and IU (OU under IU) | H' | 40m | - |
| Height between IU and BC | h1 | 15(10)m *1 | - |
| Height between IU and IU | h2 | 15(10)m *1 | - |

Table3-3-1A2. PURY-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PURY-P200YGM | 0.35 |
| PURY-P250YGM | 0.42 |
| PURY-P300YGM | 0.42 |
| PURY-P350YGM | 0.47 |
| PURY-P400YGM | 0.50 |
| PURY-P450YGM | 0.50 |
| PURY-P500YGM | 0.50 |
| PURY-P550YGM | 0.50 |
| PURY-P600YGM | 0.50 |
| PURY-P650YGM | 0.50 |

OU: Outdoor Unit; IU: Indoor Unit; BC: BC controller

*1. Distance of Indoor sized P200, P250 from BC must be less than 10m, if any;

*2. Total piping length can expand more than 300m till 400m, details refer to Fig.3-3-1;

*3. Farthest Indoor from BC controller "e" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig. 3-3-2.

Fig. 3-3-1 PURY-P-YGM's total piping length

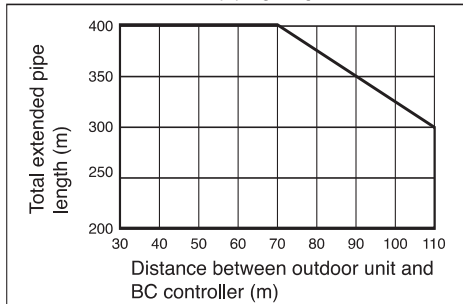
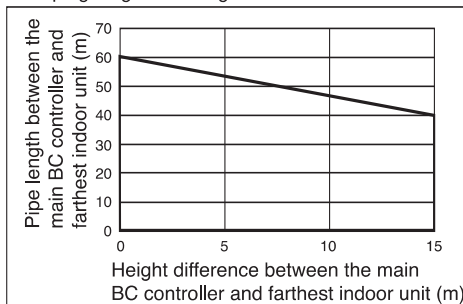


Fig. 3-3-2 Piping length and height between Indoor and BC controller



Note5. Indoor capacity is described as its model size.

For example, PEFY-P63VML-E, its capacity is P63;

Note6. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95.

Table3-3-1A3. PURY-P-YGM's piping "A"size selection rule (mm)

| Outdoor and BC controller | Pipe(Liquid) | Pipe(Gas) |
|---------------------------|--------------|-----------|
| PURY-P200YGM=CMB-P-V-G(A) | ø15.88 | ø19.05 |
| PURY-P250YGM=CMB-P-V-G(A) | ø19.05 | ø22.20 |
| PURY-P300YGM=CMB-P-V-G(A) | ø19.05 | ø22.20 |
| PURY-P350YGM=CMB-P-V-G(A) | ø19.05 | ø28.58 |
| PURY-P400YGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PURY-P450YGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PURY-P500YGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PURY-P550YGM=CMB-P-V-G(A) | ø28.58 | ø28.58 |
| PURY-P600YGM=CMB-P-V-G(A) | ø28.58 | ø28.58 |
| PURY-P650YGM=CMB-P-V-G(A) | ø28.58 | ø28.58 |

Table3-3-1A4. PURY-P-YGM's piping "B"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |

Table3-3-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 *1 | ø9.52 | ø19.05 |
| P250 *1 | ø9.52 | ø22.20 |

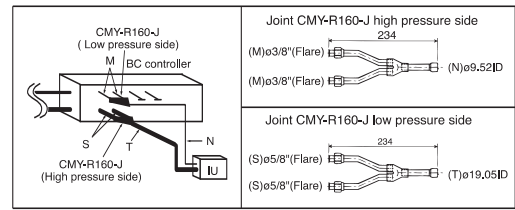
* CMY-R160-J is used to combine two ports of BC controller for the Indoor sized P200,P250.

3-3. PURY-P-YGM's Piping Design

3-3-1. PURY-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

B. PURY-P-YGM (with 2 or 3 BC controller)

Fig. 3-3-1AA



Note1.No Header usable on PURY system;
 Note2.Indoor unit sized P200, P250 should be connected to BC controller via Y shape joint CMY-R160-J;
 Note3.Indoor unit sized P200, P250 does NOT share BC controller ports with other Indoor units;
 Note4.As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
 Piping length needs to consider the actual length and equivalent length which bents are counted.
 Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

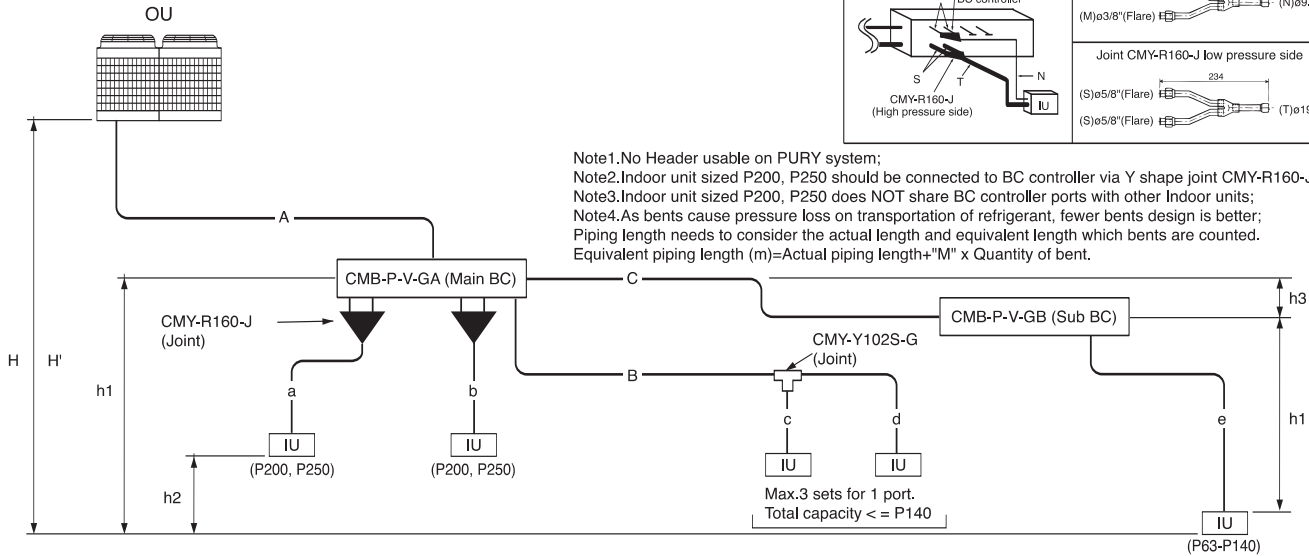


Fig. 3-3-1B PURY-P200,250,300,350,400YGM piping scheme

IU : Indoor unit , OU : Outdoor unit

Table3-3-1B1. PURY-P200-400YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|----------------------|--------------|-----------------|
| Total piping length | A+B+C+a+b+c+d+e | 300m *2 | - |
| Farthest IU from OU (L1) | A+C+e | 150m | 175m |
| Distance between OU and BC | A | 110m *2 | 110m *2 |
| Farthest Indoor from BC controller | B+d or C+e | 40m *3 | 40m *3 |
| Height between OU and IU (OU above IU) | H | 50m | - |
| Height between OU and IU (OU under IU) | H' | 40m | - |
| Height between IU and BC | h1 | 15(10)m *1 | - |
| Height between IU and IU | h2 | 15(10)m *1 | - |
| Height between BC(Main) and BC(Sub) | h3 | 15(10)m *1*4 | - |

OU: Outdoor Unit; IU: Indoor Unit; BC: BC controller

- *1. Distance of Indoor sized P200, P250 from BC must be less than 10m, if any;
- *2. Total piping length can expand more than 300m till 400m, details refer to Fig.3-3-1;
- *3. Farthest Indoor from BC controller "e" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig. 3-3-2;
- *4. When using 2 Sub BC controllers, max. height "h2" should be considered.

Table3-3-1B2. PURY-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PURY-P200YGM | 0.35 |
| PURY-P250YGM | 0.42 |
| PURY-P300YGM | 0.42 |
| PURY-P350YGM | 0.47 |
| PURY-P400YGM | 0.50 |
| PURY-P450YGM | 0.50 |
| PURY-P500YGM | 0.50 |
| PURY-P550YGM | 0.50 |
| PURY-P600YGM | 0.50 |
| PURY-P650YGM | 0.50 |

Fig. 3-3-1 PURY-P-YGM's total piping length

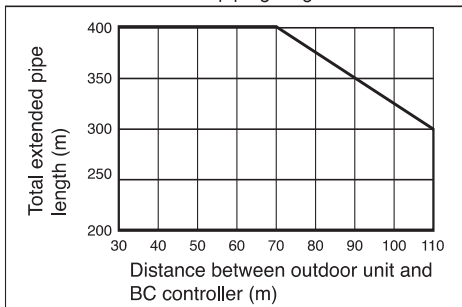
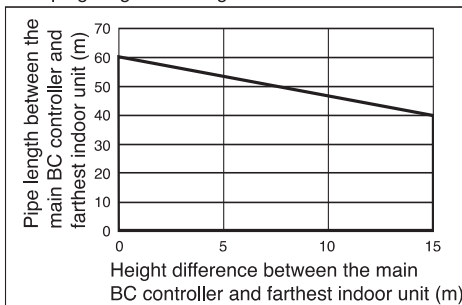


Fig. 3-3-2 Piping length and height between Indoor and BC controller



Note5. Indoor capacity is described as its model size.

For example, PEFY-P63VML-E, its capacity is P63;

Note6. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
 For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95.

Table3-3-1B3. PURY-P-YGM's piping "A"size selection rule (mm)

| Outdoor and BC controller | Pipe(Liquid) | Pipe(Gas) |
|---------------------------|--------------|-----------|
| PURY-P200YGM=CMB-P-V-G(A) | ø15.88 | ø19.05 |
| PURY-P250YGM=CMB-P-V-G(A) | ø19.05 | ø22.20 |
| PURY-P300YGM=CMB-P-V-G(A) | ø19.05 | ø22.20 |
| PURY-P350YGM=CMB-P-V-G(A) | ø19.05 | ø28.58 |
| PURY-P400YGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PURY-P450YGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PURY-P500YGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PURY-P550YGM=CMB-P-V-G(A) | ø28.58 | ø28.58 |
| PURY-P600YGM=CMB-P-V-G(A) | ø28.58 | ø28.58 |
| PURY-P650YGM=CMB-P-V-G(A) | ø28.58 | ø28.58 |

Table3-3-1B4. PURY-P-YGM's piping"B"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |

Table3-3-1B5. PURY-P-YGM's piping"C"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(HP Gas) | Pipe(LP Gas) |
|-----------------------------------|--------------|--------------|--------------|
| ~ P200 | ø9.52 | ø15.88 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø19.05 | ø22.20 |
| P301 ~ P350 | ø12.70 | ø19.05 | ø28.58 |

* HP: High pressure ; LP: Low pressure

Table3-3-1-5. R410A Indoor's direct piping"a", "b", "c", "d", "e"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20, P25, P32, P40, P50, GUF-50RD(H) | ø6.35 | ø12.70 |
| P63, P71, P80, P100, P125, P140, GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 *1 | ø9.52 | ø19.05 |
| P250 *1 | ø9.52 | ø22.20 |

* CMY-R160-J is used to combine two ports of BC controller for the Indoor sized P200, P250.

3-3. PURY-P-YGM's Piping Design

3-3-2. PURY-P-YGM's refrigerant charging calculation

(1) Original charge of refrigerant and the maximum total charge.

At factory shipment, refrigerant are charged in the outdoor unit as shown at Table3-3-2-1. When extending the piping in the field, additional charge of refrigerant is needed. Yet, the maximum total charge in the air conditioner system should not be exceeded. The maximum additional charge varies on models, shown as at Table3-3-2-1

Table 3-3-2-1

| PURY-P-YGM | P200 | P250,300,350 | P400 | P450,500,550,600,650 |
|----------------------------------|------|--------------|------|----------------------|
| Original charge A (kg) | 10.5 | 13.0 | 16.5 | 22.0 |
| Maximum total charge B (kg) | 51.7 | 51.7 | 64.0 | 89.1 |
| Maximum additional charge C (kg) | 41.2 | 38.7 | 47.5 | 67.1 |

(2) Calculate the additional charge for the air conditioner system in the field.

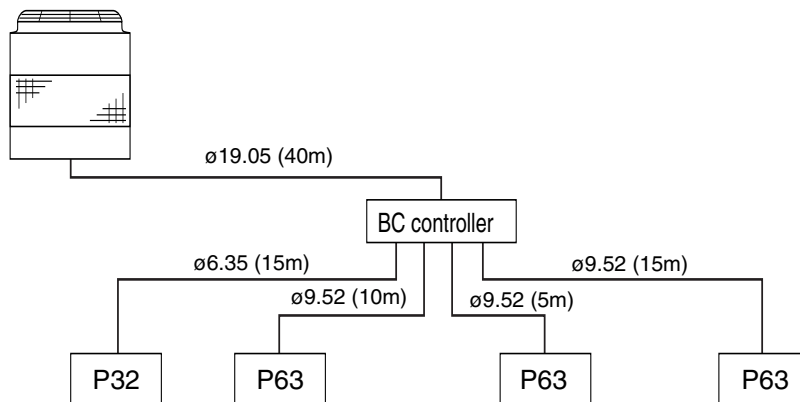
The additional charge (F kg) is calculated as follows. F should be round up to 0.1 digital, like 10.52 → 10.6 kg.

$$F \text{ (kg)} = (0.36 \times La) + (0.23 \times Lb) + (0.16 \times Lc) + (0.11 \times Ld) + (0.12 \times Le) + (0.06 \times Lf) + (0.024 \times Lg) + D + E$$

- Where
- La(m) : Length of high pressure pipe sized $\phi 28.58$
 - Lb(m) : Length of high pressure pipe sized $\phi 22.2$
 - Lc(m) : Length of high pressure pipe sized $\phi 19.05$
 - Ld(m) : Length of high pressure pipe sized $\phi 15.88$
 - Le(m) : Length of liquid pipe sized $\phi 12.7$
 - Lf (m) : Length of liquid pipe sized $\phi 9.52$
 - Lg(m) : Length of liquid pipe sized $\phi 6.35$
 - D(kg) : Additional charge of refrigerant required by the total capacity of indoor units in the refrigerant system.
 - E(kg) : Additional charge of refrigerant required by the BC controller (Sub).

| Total capacity of indoor units connected | ~160 | 161~330 | 331~480 | 481~630 | 631~710 | 711~890 | 891~1070 |
|--|--|---------|---------|---------|---------|---------|----------|
| D (kg) | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
| E (kg) | One BC controller (Sub), E=1.0kg; More than 1 BC controller (Sub), E=2.0kg | | | | | | |

Example: PURY-P350YGM-A



This calculation concerns only the high pressure (liquid) pipes.

- $Lc(\phi 19.05)$: 40m
- $Lf(\phi 9.52)$: 10m + 15m + 10m = 30m
- $Lg(\phi 6.35)$: 15m

Total capacity of indoor units connected:

$$32 + 63 + 63 + 63 = 221$$

Therefore, D = 2.0kg

Calculation of additional amount :

$$F \text{ (kg)} = (0.16 \times 40) + (0.06 \times 30) + (0.024 \times 15) + 2.0 = 10.56 \text{ kg} \approx 10.6 \text{ kg}$$

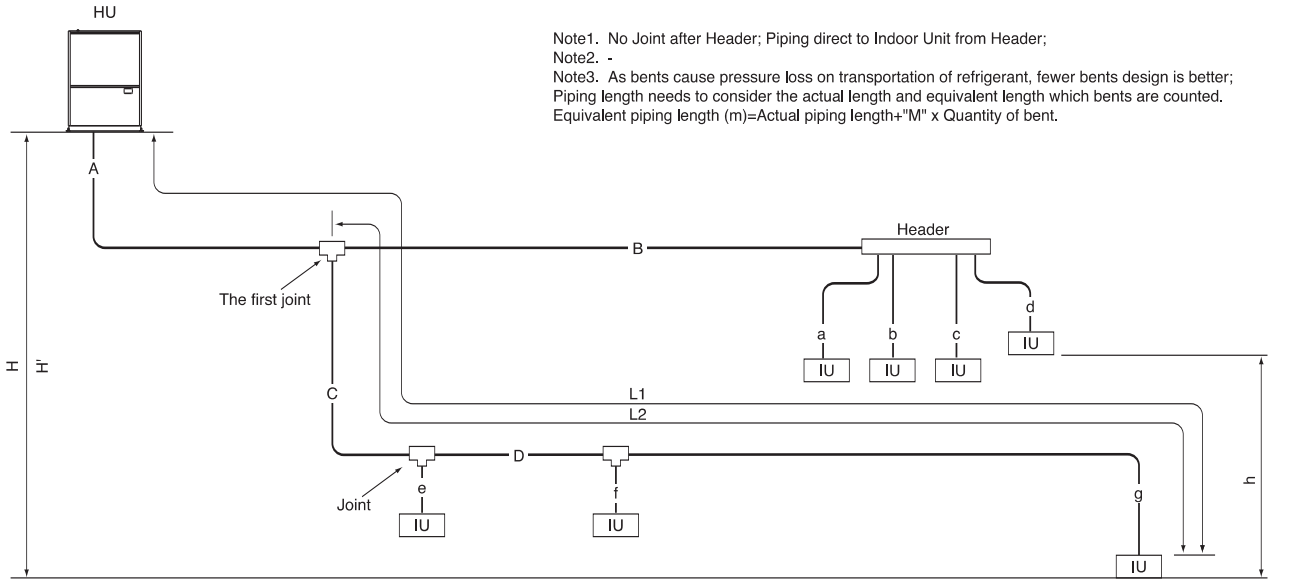
$$F < C = 38.7 \text{ kg}$$

Therefore, F=10.6kg

3-4. PQHY-P-YGM's Piping Design

3-4-1. PQHY-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

A. PQHY-P200,250YGM



Note1. No Joint after Header; Piping direct to Indoor Unit from Header;
 Note2. -
 Note3. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
 Piping length needs to consider the actual length and equivalent length which bents are counted.
 Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

Fig. 3-4-1A PQHY-P200,250YGM piping scheme

IU : Indoor unit

Table3-4-1A1. PQHY-P200,250YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max.equivalent |
|--|-----------------------|-------------|----------------|
| Total piping length | A+B+C+D+a+b+c+d+e+f+g | 300m | - |
| Farthest IU from HU (L1) | A+C+D+g / A+B+d | 150m | 175m |
| Farthest Indoor from First Joint (L2) | C+D+g / B+d | 40m | 40m |
| Height between HU and IU (HU above IU) | H | 50m | - |
| Height between HU and IU (HU under IU) | H' | 40m | - |
| Height between IU and IU | h | 15m | - |

IU: Indoor Unit; HU: PQHY-P200,250YGM

Table3-4-1A2. PQHY-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PQHY-P200YGM | 0.35 |
| PQHY-P250YGM | 0.42 |

Table3-4-1A3. PQHY-P200,250YGM's piping "A"size selection rule (mm)

| Heat source unit and the first Joint | Pipe(Liquid) | Pipe(Gas) |
|--------------------------------------|--------------|-----------|
| PQHY-P200YGM=CMY-Y102L-G1 | ø9.52 | ø19.05 |
| PQHY-P250YGM=CMY-Y102L-G1 | ø9.52 *1 | ø22.20 |

*1. if "A">=90m, ø12.7

Table3-4-1-6. R410A Joint selection rule

| Total down-stream Indoor capacity | Joint |
|-----------------------------------|--------------|
| ~ P200 | CMY-Y102S-G |
| P201 ~ P400 | CMY-Y102L-G1 |
| P401 ~ P650 | CMY-Y202-G1 |

*PUHY-P400,500YGM's first Joint is always CMY-Y202-G1;

*Concerning detailed usage of Joint parts, refer to its Installation Manual.

Table3-4-1-4. PQHY-P-YGM's piping "B","C","D"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |
| P141 ~ P200 | ø9.52 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø22.20 |
| P301 ~ P400 | ø12.70 | ø28.58 |
| P401 ~ P650 | ø15.88 | ø28.58 |

Table3-4-1-7. R410A Header selection rule

| Total down-stream Indoor capacity | 4-branch Header | 8-branch Header | 10-branch Header |
|-----------------------------------|-----------------|-----------------|------------------|
| | CMY-Y104-G | CMY-Y108-G | CMY-Y1010-G |
| | <=P200 | <=P400 | <=P650 |

* CMY-Y104-G can directly connect PQHY-P200YGM, but can NOT directly connect PQHY-P250YGM or above;

* CMY-Y108-G can directly connect PQHY-P200,250YGM, PQHY-P400YGM, but can NOT directly connect PQHY-P500YGM;

* CMY-Y104-G can NOT connect P200,P250 Indoor, but CMY-Y108, Y1010-G can do;

* Concerning detailed usage of Header parts, refer to its Installation Manual.

Table3-4-1-5. R410A Indoor's direct piping "a","b","c","d","e","f","g"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 | ø9.52 | ø19.05 |
| P250 | ø9.52 | ø22.20 |

Note4. Indoor capacity is described as its model size.

For example, PEFY-P63VML-E, its capacity is P63;

Note5. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95;

Note6. Piping size determined by the Total down-stream indoor capacity is NOT necessary; to be bigger than the up-stream one.

i.e. A>=B; A>C>=D

3-4. PQHY-P-YGM's Piping Design

3-4-1. PQHY-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

B. PQHY-P400,500YSGM

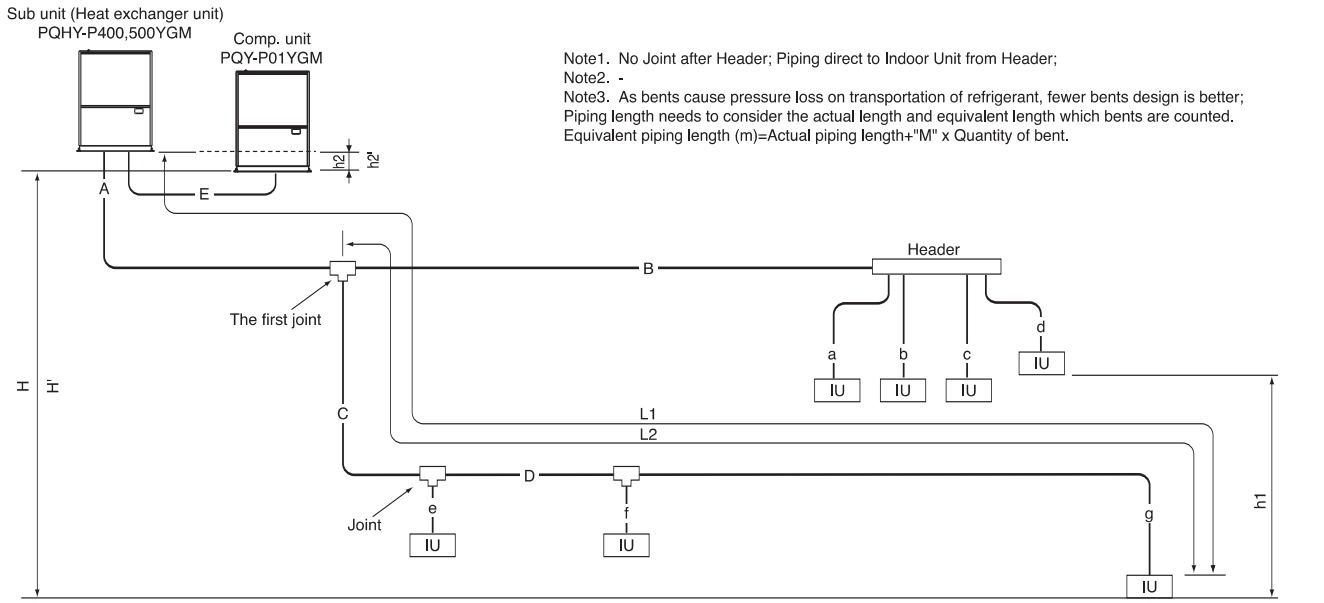


Fig. 3-4-1B PQHY-P400,500YSGM piping scheme

IU : Indoor unit

- Note1. No Joint after Header; Piping direct to Indoor Unit from Header;
- Note2. -
- Note3. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better; Piping length needs to consider the actual length and equivalent length which bents are counted. Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

Table3-4-1B1. PQHY-P400,500YSGM's piping length limitation

| Item | Piping in the figure | Max. length | Max.equivalent |
|--|-------------------------|-------------|----------------|
| Total piping length | A+B+C+D+E+a+b+c+d+e+f+g | 300m | - |
| Farthest IU from CU (L1) | A+C+D+g+E / A+B+d+E | 150m | 175m |
| Farthest Indoor from First Joint (L2) | C+D+g / B+d | 40m | 40m |
| Distance of HU from CU | E | 10m | - |
| Height between CU and IU (CU above IU) H | | 50m | - |
| Height between CU and IU (CU under IU) H' | | 40m | - |
| Height between IU and IU | h1 | 15m | - |
| Height between CU and HU (CU above HU) h2 | | 0m | - |
| Height between CU and HU (CU under HU) h2' | | 10m | - |

IU: Indoor Unit; CU: PQY-P01YGM; HU: PQHY-P400,500YGM

Table3-4-1B2. PQHY-P-YSGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PQHY-P400YSGM | 0.50 |
| PQHY-P500YSGM | 0.50 |

Table3-4-1B3. PQHY-P400,500YSGM's piping "A"size selection rule (mm)

| Heat source unit and the first Joint | Pipe(Liquid) | Pipe(Gas) |
|--------------------------------------|--------------|-----------|
| PQHY-P400YSGM=CMY-Y202-G1 | ø12.70 | ø28.58 |
| PQHY-P500YSGM=CMY-Y202-G1 | ø15.88 | ø28.58 |

Table3-4-1-6. R410A Joint selection rule

| Total down-stream Indoor capacity | Joint |
|-----------------------------------|--------------|
| ~ P200 | CMY-Y102S-G |
| P201 ~ P400 | CMY-Y102L-G1 |
| P401 ~ P650 | CMY-Y202-G1 |

*PUHY-P400,500YSGM's first Joint is always CMY-Y202-G1;

*Concerning detailed usage of Joint parts, refer to its Installation Manual.

Table3-4-1-4. PQHY-P-YGM's piping "B", "C", "D"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |
| P141 ~ P200 | ø9.52 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø22.20 |
| P301 ~ P400 | ø12.70 | ø28.58 |
| P401 ~ P650 | ø15.88 | ø28.58 |

Table3-4-1-7. R410A Header selection rule

| Total down-stream Indoor capacity | 4-branch Header | 8-branch Header | 10-branch Header |
|-----------------------------------|-----------------|-----------------|------------------|
| | CMY-Y104-G | CMY-Y108-G | CMY-Y1010-G |
| <=P200 | <=P200 | <=P400 | <=P650 |

* CMY-Y104-G can directly connect PQHY-P200YGM, but can NOT directly connect PQHY-P250YGM or above;

* CMY-Y108-G can directly connect PQHY-P200,250YGM, PQHY-P400YSGM, but can NOT directly connect PQHY-P500YSGM;

* CMY-Y104-G can NOT connect P200,P250 Indoor, but CMY-Y108, Y1010-G can do;

* Concerning detailed usage of Header parts, refer to its Installation Manual.

Table3-4-1B5. PQHY-P400,500YSGM=PQY-P01YGM piping "E" (mm)

| High pressure pipe | Low pressure pipe | Bypass pipe |
|--------------------|-------------------|-------------|
| ø19.05 | ø28.58 | ø9.52 |

Table3-4-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e", "f", "g"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 | ø9.52 | ø19.05 |
| P250 | ø9.52 | ø22.20 |

Note4. Indoor capacity is described as its model size.

For example, PEFY-P63VML-E, its capacity is P63;

Note5. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95;

Note6. Piping size determined by the Total down-stream indoor capacity is NOT necessary; to be bigger than the up-stream one.

i.e. A>=B; A>=C>=D

3-4. PQHY-P-YGM's Piping Design

3-4-2. PQHY-P-YGM's refrigerant charging calculation

(1) Original charge of refrigerant and the maximum total charge.

At factory shipment, refrigerant are charged in the Heat source unit as shown at Table3-4-1. When extending the piping in the field, additional charge of refrigerant is needed. Yet, the maximum total charge in the air conditioner system should not be exceeded. The maximum additional charge varies on models, shown as at Table3-4-1.

Table 3-4-1

| PQHY-P-YGM | | P200 | P250 | P400 | P500 |
|---------------------------|--------|------|------|------|------|
| Original charge | A (kg) | 7.0 | 8.0 | 12.0 | 12.0 |
| Maximum total charge | B (kg) | 40.0 | 40.0 | 40.0 | 67.0 |
| Maximum additional charge | C (kg) | 33.0 | 32.0 | 28.0 | 45.0 |

(2) Calculate the additional charge for the air conditioner system in the field.

The additional charge (F kg) is calculated as follows. F should be round up to 0.1 digital, like 10.52 → 10.6 kg. Yet, if F results bigger than C, the additional charge is the maximum additional charge C.

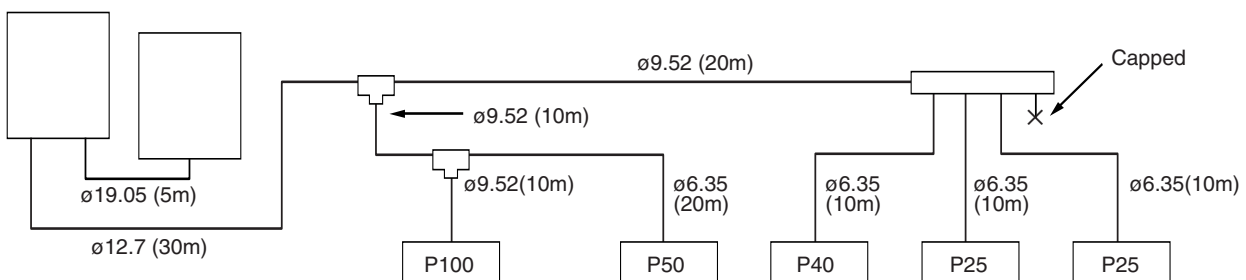
$$F \text{ (kg)} = (0.16 \times L_c) + (0.2 \times L_d) + (0.12 \times L_e) + (0.06 \times L_f) + (0.024 \times L_g) + D + E$$

- Where
- Lc(m) : Length of liquid pipe sized $\phi 19.05$
 - Ld(m) : Length of liquid pipe sized $\phi 15.88$
 - Le(m) : Length of liquid pipe sized $\phi 12.7$
 - Lf (m) : Length of liquid pipe sized $\phi 9.52$
 - Lg(m) : Length of liquid pipe sized $\phi 6.35$
 - D(kg) : Additional charge of refrigerant required by the total capacity of indoor units in the refrigerant system.
 - E(kg) : Additional charge of refrigerant required by the Heat source unit type in the refrigerant system.

| Total capacity of indoor units connected | ~160 | 161~330 | 331~480 | 481~630 | 631~710 |
|--|------|---------|---------|---------|---------|
| D (kg) | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 |

| Heat source unit type | P200~P400 | P500 |
|-----------------------|-----------|------|
| E (kg) | 0.0 | 2.0 |

Example: PQHY-P400YSGM



This calculation concerns only the liquid pipes.

- Lc($\phi 19.05$) : 5m
- Le($\phi 12.7$) : 30m
- Lf ($\phi 9.52$) : 10m + 20m + 10m = 40m
- Lg($\phi 6.35$) : 20m + 10m + 10m + 10m = 50m

Total capacity of indoor units connected:

$$100 + 50 + 40 + 25 + 25 = 240$$

Therefore, D = 2.0kg

$$E = 0.0\text{kg}$$

Calculation of additional amount :

$$F \text{ (kg)} = (0.16 \times 5) + (0.12 \times 30) + (0.06 \times 40) + (0.024 \times 50) + 2.0 = 10.0 \text{ kg}$$

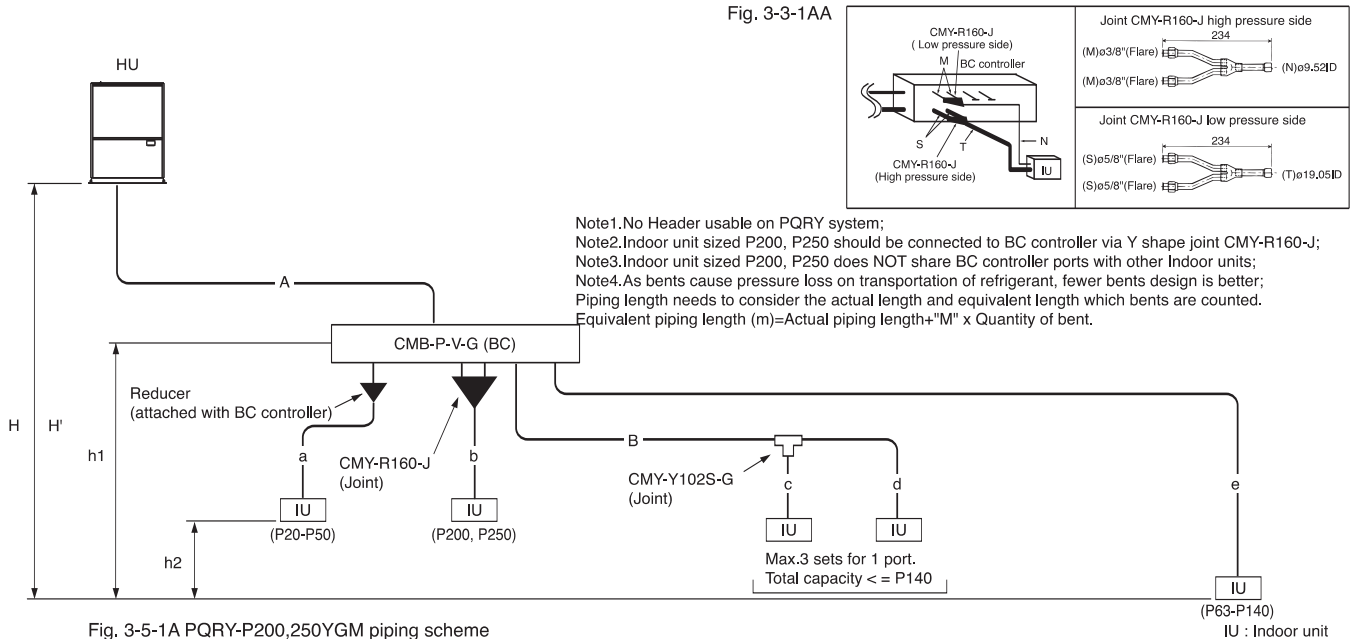
$$F < C = 28.0\text{kg}$$

Therefore, F=10.0kg

3-5. PQRV-P-YGM's Piping Design

3-5-1. PQRV-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

A. PQRV-P200,250YGM (with 1 BC controller)



Note1.No Header usable on PQRV system;
 Note2.Indoor unit sized P200, P250 should be connected to BC controller via Y shape joint CMY-R160-J;
 Note3.Indoor unit sized P200, P250 does NOT share BC controller ports with other Indoor units;
 Note4.As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
 Piping length needs to consider the actual length and equivalent length which bents are counted.
 Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

Table3-5-1A1. PQRV-P200,250YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|----------------------|-------------|-----------------|
| Total piping length | A+B+a+b+c+d+e | 300m *2 | - |
| Farthest IU from HU (L1) | A+e | 150m | 175m |
| Distance of BC from HU | A | 110m *2 | 110m *2 |
| Farthest IU from BC | e | 40m *3 | 40m *3 |
| Height between HU and IU (HU above IU) | H | 50m | - |
| Height between HU and IU (IU under IU) | H' | 40m | - |
| Height between IU and BC | h1 | 15(10)m *1 | - |
| Height between IU and IU | h2 | 15(10)m *1 | - |

Table3-5-1A2. PQRV-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PQRV-P200YGM | 0.35 |
| PQRV-P250YGM | 0.42 |

IU: Indoor Unit; HU: PQRV-P200,250YGM; BC: BC controller
 *1. Height of Indoor sized P200, P250 from BC must be less than 10m, if any;
 *2. Total piping length can expand more than 300m till 400m, details refer to Fig.3-5-1;
 *3. Farthest Indoor from BC controller "e" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig. 3-5-2.

Fig. 3-5-1 PQRV-P-YGM's total piping length

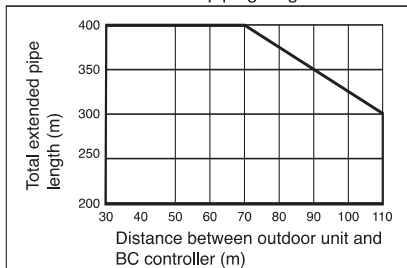
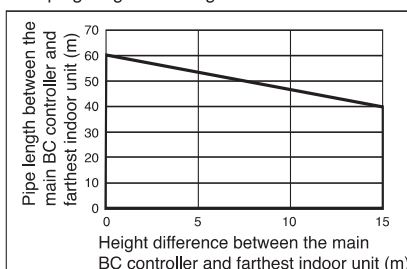


Fig. 3-5-2 Piping length and height between Indoor and BC controller



Note5. Indoor capacity is described as its model size.
 For example, PEFY-P63VML-E, its capacity is P63;
 Note6. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
 For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95.

Table3-5-1A3. PQRV-P200,250YGM's piping "A"size selection rule (mm)

| Outdoor and BC controller | Pipe(Liquid) | Pipe(Gas) |
|---------------------------|--------------|-----------|
| PQRV-P200YGM=CMB-P-V-G(A) | ø15.88 | ø19.05 |
| PQRV-P250YGM=CMB-P-V-G(A) | ø19.05 | ø22.20 |

Table3-5-1-4. PQRV-P-YGM's piping "B"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |

Table3-5-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 *1 | ø9.52 | ø19.05 |
| P250 *1 | ø9.52 | ø22.20 |

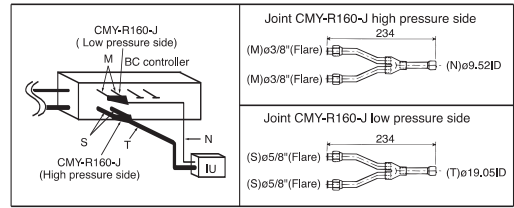
*1 CMY-R160-J is used to combine two ports of BC controller for the Indoor sized P200,P250.

3-5. PQRV-P-YGM's Piping Design

3-5-1. PQRV-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

B. PQRV-P400,500YSGM (with 1 BC controller)

Fig. 3-3-1AA



Note1.No Header usable on PQRV system;
 Note2.Indoor unit sized P200, P250 should be connected to BC controller via Y shape joint CMY-R160-J;
 Note3.Indoor unit sized P200, P250 does NOT share BC controller ports with other Indoor units;
 Note4.As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
 Piping length needs to consider the actual length and equivalent length which bents are counted.
 Equivalent piping length (m)=Actual piping length+''M'' x Quantity of bent.

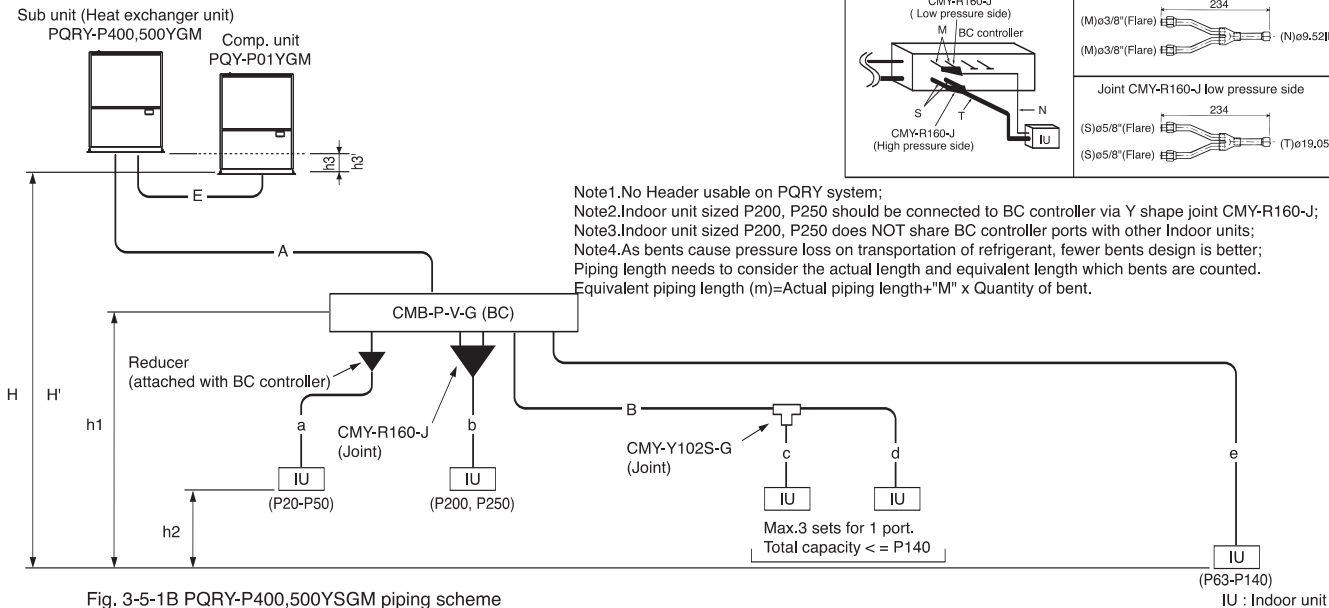


Fig. 3-5-1B PQRV-P400,500YSGM piping scheme

Table3-5-1B1. PQRV-P400,500YSGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|----------------------|-------------|-----------------|
| Total piping length | A+B+E+a+b+c+d+e | 300m *2 | - |
| Farthest IU from CU (L1) | A+E+e | 150m | 175m |
| Distance of BC from CU | A | 110m *2 | 110m *2 |
| Farthest IU from BC | e | 40m *3 | 40m *3 |
| Distance of HU from CU | E | 10m | - |
| Height between CU and IU (CU above IU) | H | 50m | - |
| Height between CU and IU (CU under IU) | H' | 40m | - |
| Height between IU and BC | h1 | 15(10)m *1 | - |
| Height between IU and IU | h2 | 15(10)m *1 | - |
| Height between CU and HU (CU above HU) | h3 | 0m | - |
| Height between CU and HU (CU under HU) | h3' | 10m | - |

IU: Indoor Unit; CU: PQY-P01YGM; HU: PQRV-P400,500YGM; BC: BC controller
 *1. Height of Indoor sized P200, P250 from BC must be less than 10m, if any;
 *2. Total piping length can expand more than 300m till 400m, details refer to Fig.3-5-1;
 *3. Farthest Indoor from BC controller "e" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig. 3-5-2.

Table3-5-1B2. PQRV-P-YSGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PQRV-P400YSGM | 0.50 |
| PQRV-P500YSGM | 0.50 |

Fig. 3-5-1 PQRV-P-YGM's total piping length

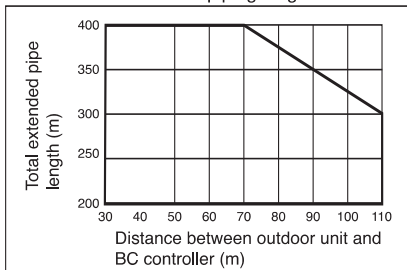
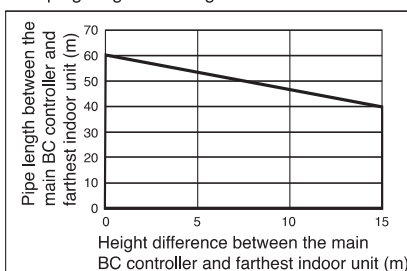


Fig. 3-5-2 Piping length and height between Indoor and BC controller



Note5. Indoor capacity is described as its model size.
 For example, PEFY-P63VML-E, its capacity is P63;
 Note6. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
 For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95.

Table3-5-1B3. PQRV-P400,500YSGM's piping "A"size selection rule (mm)

| Outdoor and BC controller | Pipe(Liquid) | Pipe(Gas) |
|----------------------------|--------------|-----------|
| PQRV-P400YSGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PQRV-P500YSGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |

Table3-5-1-4. PQRV-P-YGM's piping "B"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |

Table3-5-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20, P25, P32, P40, P50, GUF-50RD(H) | ø6.35 | ø12.70 |
| P63, P71, P80, P100, P125, P140, GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 *1 | ø9.52 | ø19.05 |
| P250 *1 | ø9.52 | ø22.20 |

*1 CMY-R160-J is used to combine two ports of BC controller for the Indoor sized P200, P250.

3-5. PQRV-P-YGM's Piping Design

3-5-1. PQRV-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

C. PQRV-P200,250YGM (with 2 or 3 BC controllers)

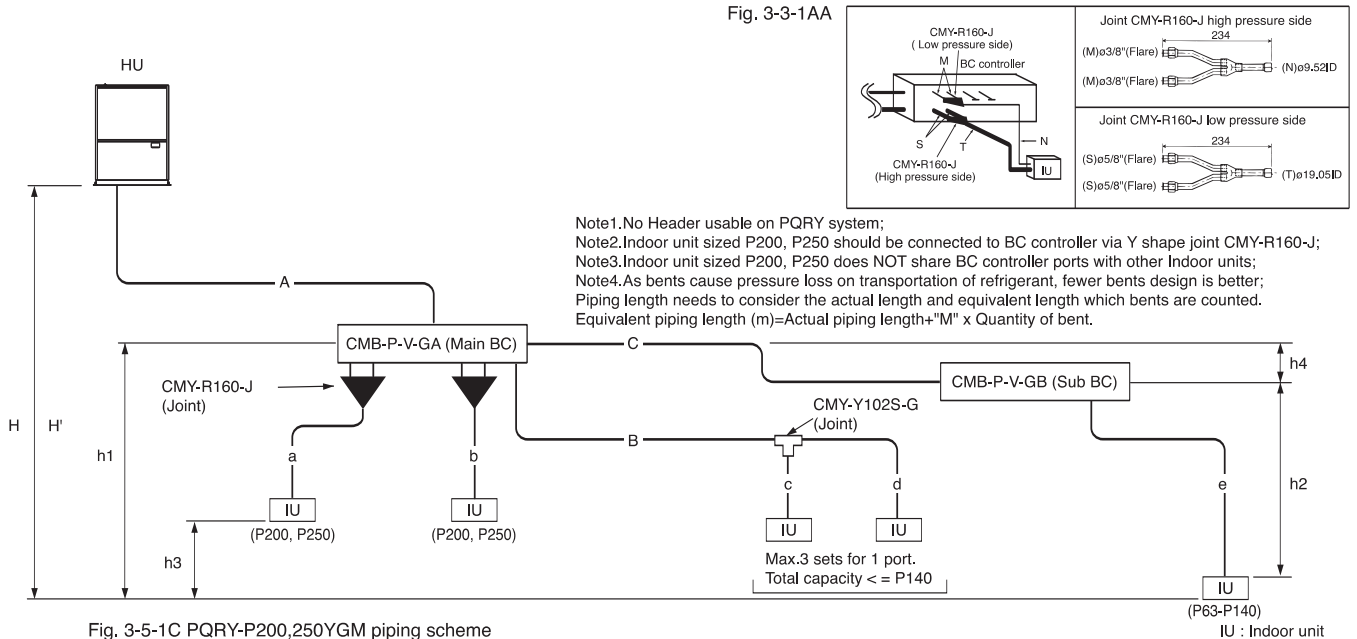


Fig. 3-5-1C PQRV-P200,250YGM piping scheme

Table3-5-1C1. PQRV-P200,250YGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|----------------------|--------------|-----------------|
| Total piping length | A+B+C+a+b+c+d+e | 300m *2 | - |
| Farthest IU from HU | A+C+e / A+B+d | 150m | 175m |
| Distance of BC from HU | A | 110m *2 | 110m *2 |
| Farthest IU from BC (Main/Sub) | B+d / e | 40m *3 | 40m *3 |
| Height between HU and IU (HU above IU) | H | 50m | - |
| Height between HU and IU (HU under IU) | H' | 40m | - |
| Height between IU and BC (Main/Sub) | h1 / h2 | 15(10)m *1 | - |
| Height between IU and IU | h3 | 15(10)m *1 | - |
| Height between BC(Main) and BC(Sub) | h4 | 15(10)m *1*4 | - |

IU: Indoor Unit; HU: PQRV-P200,250YGM; BC: BC controller

- *1. Height of Indoor sized P200, P250 from BC must be less than 10m, if any;
- *2. Total piping length can expand more than 300m till 400m, details refer to Fig.3-5-1;
- *3. Farthest Indoor from BC controller "e" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig. 3-5-2;
- *4. When using 2 Sub BC controllers, max. height "h2" should be considered.

Table3-5-1C2. PQRV-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PQRV-P200YGM | 0.35 |
| PQRV-P250YGM | 0.42 |

Fig. 3-5-1 PQRV-P-YGM's total piping length

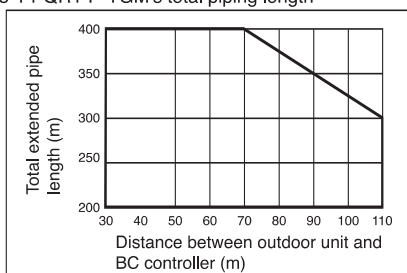
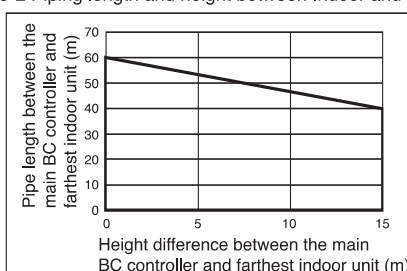


Fig. 3-5-2 Piping length and height between Indoor and BC controller



- Note5. Indoor capacity is described as its model size.
For example, PEFY-P63VML-E, its capacity is P63;
- Note6. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95.

Table3-5-1C3. PQRV-P200,250YGM's piping "A"size selection rule (mm)

| Outdoor and BC controller | Pipe(Liquid) | Pipe(Gas) |
|---------------------------|--------------|-----------|
| PQRV-P200YGM=CMB-P-V-G(A) | ø15.88 | ø19.05 |
| PQRV-P250YGM=CMB-P-V-G(A) | ø19.05 | ø22.20 |

Table3-5-1-4. PQRV-P-YGM's piping "B"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |

Table3-5-1C5. PQRV-P200,250YGM's piping "C"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(HP Gas) | Pipe(LP Gas) |
|-----------------------------------|--------------|--------------|--------------|
| ~ P200 | ø9.52 | ø15.88 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø19.05 | ø22.20 |
| P301 ~ P350 | ø12.70 | ø19.05 | ø28.58 |

* HP: High pressure ; LP: Low pressure

Table3-5-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 *1 | ø9.52 | ø19.05 |
| P250 *1 | ø9.52 | ø22.20 |

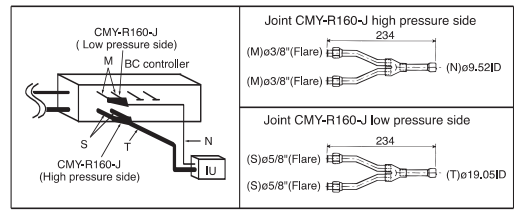
*1. CMY-R160-J is used to combine two ports of BC controller for the Indoor sized P200,P250.

3-5. PQRV-P-YGM's Piping Design

3-5-1. PQRV-P-YGM's piping length limitation, Piping dimension selection, Joint and Header selection rule

D. PQRV-P400,500YSGM (with 2 or 3 BC controllers)

Fig. 3-3-1AA



Note1.No Header usable on PQRV system;
 Note2.Indoor unit sized P200, P250 should be connected to BC controller via Y shape joint CMY-R160-J;
 Note3.Indoor unit sized P200, P250 does NOT share BC controller ports with other Indoor units;
 Note4.As bents cause pressure loss on transportation of refrigerant, fewer bents design is better;
 Piping length needs to consider the actual length and equivalent length which bents are counted.
 Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

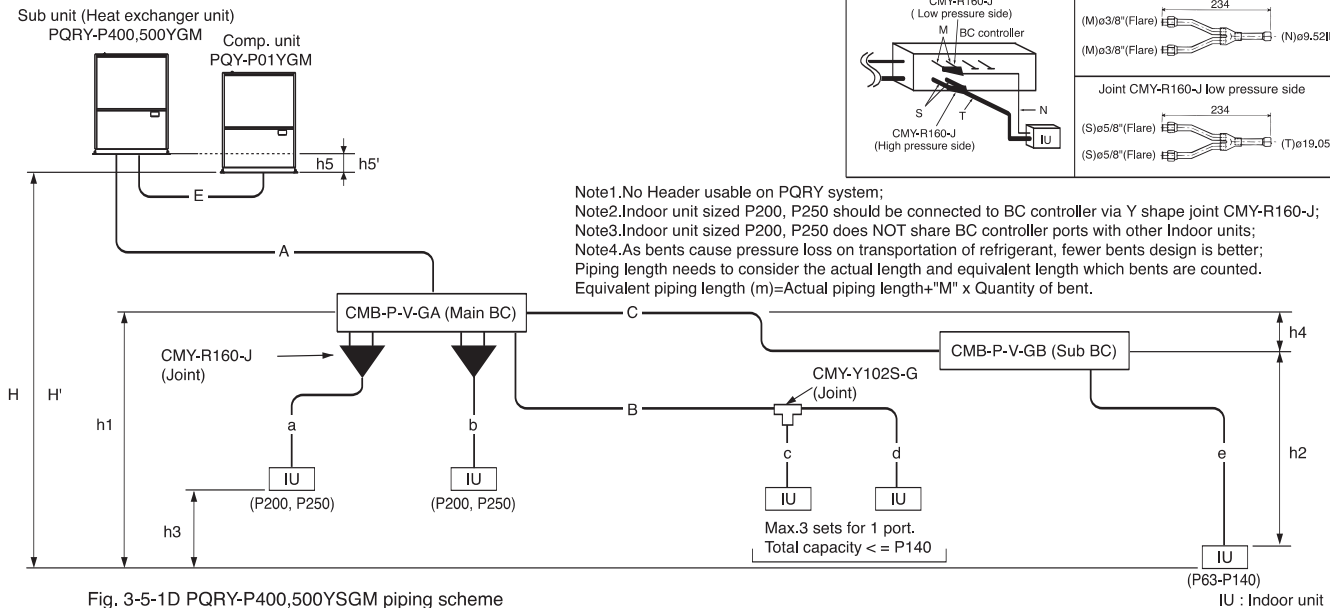


Fig. 3-5-1D PQRV-P400,500YSGM piping scheme

Table3-5-1D1. PQRV-P400,500YSGM's piping length limitation

| Item | Piping in the figure | Max. length | Max. equivalent |
|--|----------------------|--------------|-----------------|
| Total piping length | A+B+C+E+a+b+c+d+e | 300m *2 | - |
| Farthest IU from CU | A+C+E+e / A+B+E+d | 150m | 175m |
| Distance of BC from CU | A+E | 110m *2 | 110m *2 |
| Farthest IU from BC (Main/Sub) | B+d / e | 40m *3 | 40m *3 |
| Distance of HU from CU | E | 10m | - |
| Height between CU and IU (CU above IU) | H | 50m | - |
| Height between CU and IU (CU under IU) | H' | 40m | - |
| Height between IU and BC (Main/Sub) | h1 / h2 | 15(10)m *1 | - |
| Height between IU and IU | h3 | 15(10)m *1 | - |
| Height between BC(Main) and BC(Sub) | h4 | 15(10)m *1*4 | - |
| Height between CU and HU (CU above HU) | h5 | 0m | - |
| Height between CU and HU (CU under HU) | h5' | 10m | - |

IU: Indoor Unit; CU: PQRV-P01YGM; HU: PQRV-P400,500YGM; BC: BC controller
 *1. Height of Indoor sized P200, P250 from BC must be less than 10m, if any;
 *2. Total piping length can expand more than 300m till 400m, details refer to Fig.3-5-1;
 *3. Farthest Indoor from BC controller "e" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig. 3-5-2;
 *4. When using 2 Sub BC controllers, max. height "h2" should be considered.

Fig. 3-5-1 PQRV-P-YGM's total piping length

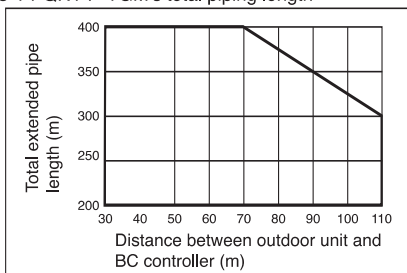
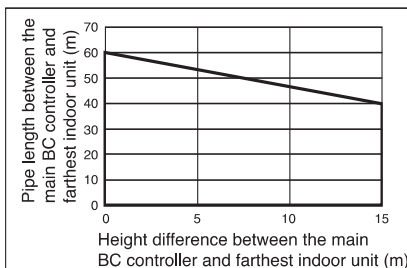


Fig. 3-5-2 Piping length and height between Indoor and BC controller



Note5. Indoor capacity is described as its model size.
 For example, PEFY-P63VML-E, its capacity is P63;
 Note6. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.
 For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95.

Table3-5-1D2. PQRV-P-YGM's bent equivalent length "M"

| Outdoor Model | M (m/bent) |
|---------------|------------|
| PQRV-P400YSGM | 0.50 |
| PQRV-P500YSGM | 0.50 |

Table3-5-1D3. PQRV-P400,500YSGM's piping "A"size selection rule (mm)

| Outdoor and BC controller | Pipe(Liquid) | Pipe(Gas) |
|----------------------------|--------------|-----------|
| PQRV-P400YSGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |
| PQRV-P500YSGM=CMB-P-V-G(A) | ø22.20 | ø28.58 |

Table3-5-1-4. PQRV-P-YGM's piping "B"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P140 | ø9.52 | ø15.88 |

Table3-5-1D5. PQRV-P400,500YSGM's piping "C"size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(HP Gas) | Pipe(LP Gas) |
|-----------------------------------|--------------|--------------|--------------|
| ~ P200 | ø9.52 | ø15.88 | ø19.05 |
| P201 ~ P300 | ø9.52 | ø19.05 | ø22.20 |
| P301 ~ P350 | ø12.70 | ø19.05 | ø28.58 |

* HP: High pressure ; LP: Low pressure

Table3-5-1-5. R410A Indoor's direct piping "a", "b", "c", "d", "e"size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|---|--------------|-----------|
| P20,P25,P32,P40,P50,GUF-50RD(H) | ø6.35 | ø12.70 |
| P63,P71,P80,P100,P125,P140,GUF-100RD(H) | ø9.52 | ø15.88 |
| P200 *1 | ø9.52 | ø19.05 |
| P250 *1 | ø9.52 | ø22.20 |

*1. CMY-R160-J is used to combine two ports of BC controller for the Indoor sized P200,P250.

3-5. PQRV-P-YGM's Piping Design

3-5-2. PQRV-P-YGM's refrigerant charging calculation

(1) Original charge of refrigerant and the maximum total charge.

At factory shipment, refrigerant are charged in the outdoor unit as shown at Table3-5-2. When extending the piping in the field, additional charge of refrigerant is needed. Yet, the maximum total charge in the air conditioner system should not be exceeded. The maximum additional charge varies on models, shown as at Table3-5-2.

Table 3-5-2

| PQRV-P-YGM | P200 | P250 | P400 | P500 |
|----------------------------------|------|------|------|------|
| Original charge A (kg) | 7.5 | 8.5 | 12.0 | 12.0 |
| Maximum total charge B (kg) | 51.7 | 51.7 | 64.0 | 64.0 |
| Maximum additional charge C (kg) | 44.2 | 43.2 | 52.0 | 52.0 |

(2) Calculate the additional charge for the air conditioner system in the field.

The additional charge (F kg) is calculated as follows. F should be round up to 0.1 digital, like 10.52 → 10.6 kg.

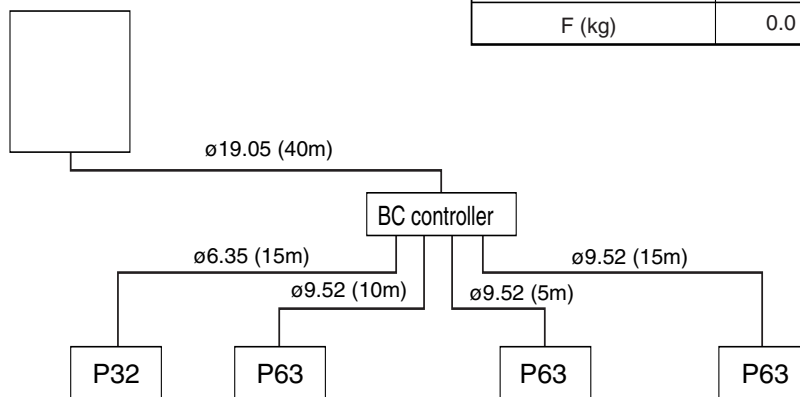
$$F \text{ (kg)} = (0.23 \times L_b) + (0.16 \times L_c) + (0.11 \times L_d) + (0.12 \times L_e) + (0.06 \times L_f) + (0.024 \times L_g) + D + E$$

- Where
- L_b(m) : Length of high pressure pipe sized ø22.2
 - L_c(m) : Length of high pressure pipe sized ø19.05
 - L_d(m) : Length of high pressure pipe sized ø15.88
 - L_e(m) : Length of liquid pipe sized ø12.7
 - L_f(m) : Length of liquid pipe sized ø9.52
 - L_g(m) : Length of liquid pipe sized ø6.35
 - D(kg) : Additional charge of refrigerant required by the total capacity of indoor units in the refrigerant system.
 - E(kg) : Additional charge of refrigerant required by the BC controller (Sub).
 - F(kg) : Additional charge of refrigerant required by the Heat source unit type.

| Total capacity of indoor units connected | ~160 | 161~330 | 331~480 | 481~630 | 631~710 | 711~890 | 891~1070 |
|--|--|---------|---------|---------|---------|---------|----------|
| D (kg) | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
| E (kg) | One BC controller (Sub), E=1.0kg; More than 1 BC controller (Sub), E=2.0kg | | | | | | |

Example: PQRV-P250YGM

| Heat source unit type | P200~P400 | P500 |
|-----------------------|-----------|------|
| F (kg) | 0.0 | 2.0 |



This calculation concerns only the high pressure (liquid) pipes.

- L_c(ø19.05) : 40m
- L_f(ø9.52) : 10m + 15m + 10m = 30m
- L_g(ø6.35) : 15m

Total capacity of indoor units connected:

$$32 + 63 + 63 + 63 = 221$$

Therefore, D = 2.0kg E = 0.0kg F = 0.0kg

Calculation of additional amount :

$$F \text{ (kg)} = (0.16 \times 40) + (0.06 \times 30) + (0.024 \times 15) + 2.0 = 10.56 \text{ kg} \approx 10.6 \text{ kg}$$

$$F < C = 43.2 \text{ kg}$$

Therefore, F=10.6kg

3-6. PUMY-P-YHM's Piping Design

3-6-1. PUMY-P-YHM's piping length limitation, Piping dimension selection, Joint and Header selection rule

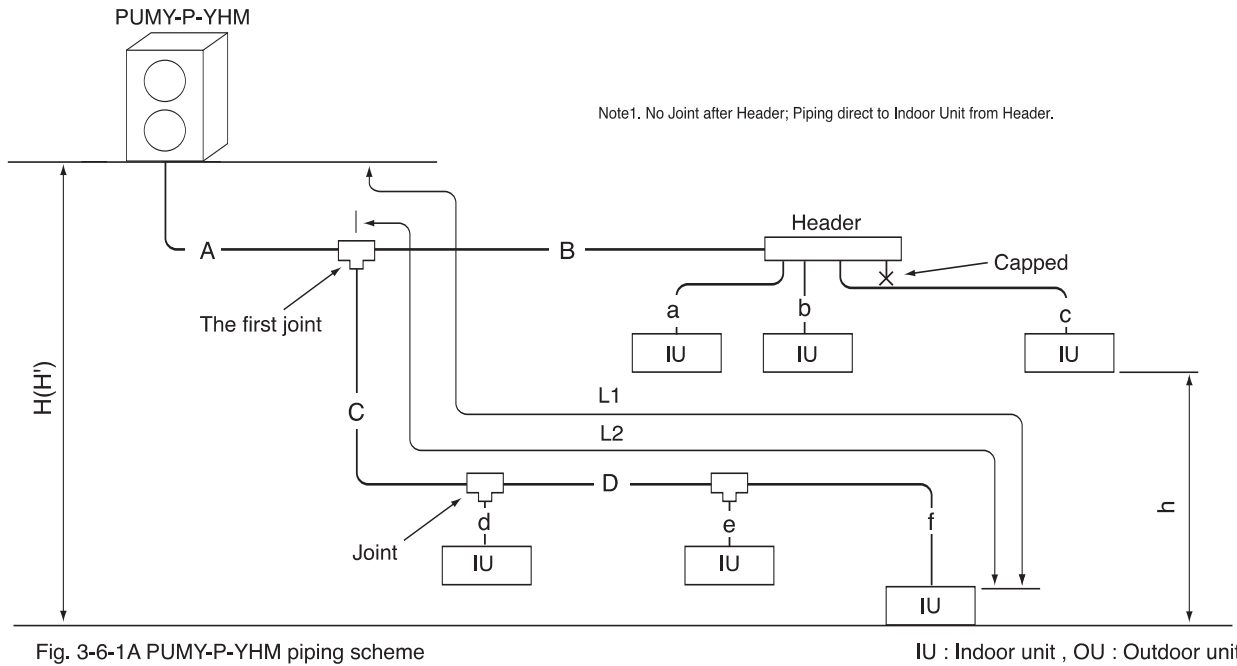


Fig. 3-6-1A PUMY-P-YHM piping scheme

IU : Indoor unit , OU : Outdoor unit

Table3-6-1-1. PUMY-P-YHM's piping length limitation

| Item | Piping in the figure | Max. length |
|--|----------------------|-------------|
| Total piping length | A+B+C+D+a+b+c+d+e+f | 120m |
| Farthest IU from OU (L1) | A+C+D+f / A+B+c | 80m |
| Farthest IU from the first Joint (L2) | C+D+f / B+c | 30m |
| Height between OU and IU (OU above IU) | H | 30m |
| Height between OU and IU (OU under IU) | H' | 20m |
| Height between IU and IU | h | 12m |

OU: Outdoor Unit, IU: Indoor Unit

Table3-6-1-2. PUMY-P-YHM's piping "A" size selection rule (mm)

| Outdoor and the first-Joint/Header | Pipe(Liquid) | Pipe(Gas) |
|------------------------------------|--------------|-----------|
| PUMY-P-YHM=CMY-Y62-G-E | φ9.52 | φ15.88 |
| PUMY-P-YHM=CMY-Y64,Y68-G-E | φ9.52 | φ15.88 |

Table3-6-1-3. PUMY-P-YHM's piping "B", "C", "D" size selection rule (mm)

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas) |
|-----------------------------------|--------------|-----------|
| ~ P182 | φ9.52 | φ15.88 |

Table3-6-1-4. Indoor Unit's direct piping "a", "b", "c", "d", "e", "f" size selection rule (mm)

| Indoor Unit size | Pipe(Liquid) | Pipe(Gas) |
|----------------------------|--------------|-----------|
| P20,P25,P32,P40,P50 | φ6.35 | φ12.70 |
| P63,P71,P80,P100,P125,P140 | φ9.52 | φ15.88 |

Table3-6-1-5. PUMY-P-YHM's Joint, Header selection rule

| Joint | 4-branch Header | 8-branch Header |
|-------------|-----------------|-----------------|
| CMY-Y62-G-E | CMY-Y64-G-E | CMY-Y68-G-E |

* For details of installation of Joint, header, and distributor, refer to its Installation Manual.

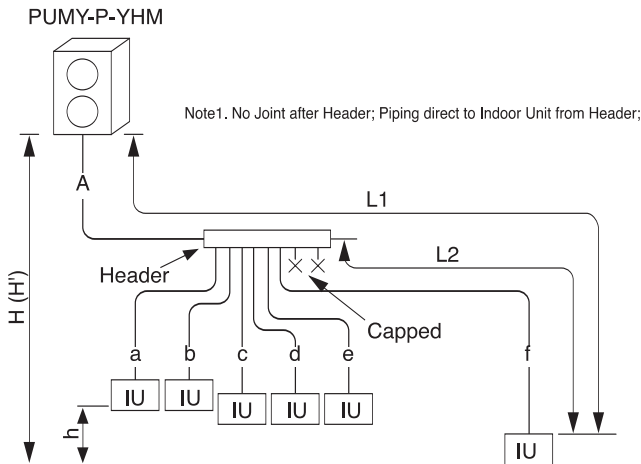


Fig. 3-6-1B PUMY-P-YHM piping scheme

Table3-6-1B1. PUMY-P-YHM's piping length limitation

| Item | Piping in the figure | Max. length |
|--|----------------------|-------------|
| Total piping length | A+a+b+c+d+e+f | 120m |
| Farthest IU from OU (L1) | A+f | 80m |
| Farthest IU from Header (L2) | f | 30m |
| Height between OU and IU (OU above IU) | H | 30m |
| Height between OU and IU (OU under IU) | H' | 20m |
| Height between IU and IU | h | 12m |

Note2. Indoor capacity is described as its model size.

For example, PEFY-P63VML-E, capacity P63;

Note3. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P63VML-E+PEFY-P32VML-E: Total Indoor capacity=P63+P32=P95;

3-6. PUMY-P-YHM's Piping Design

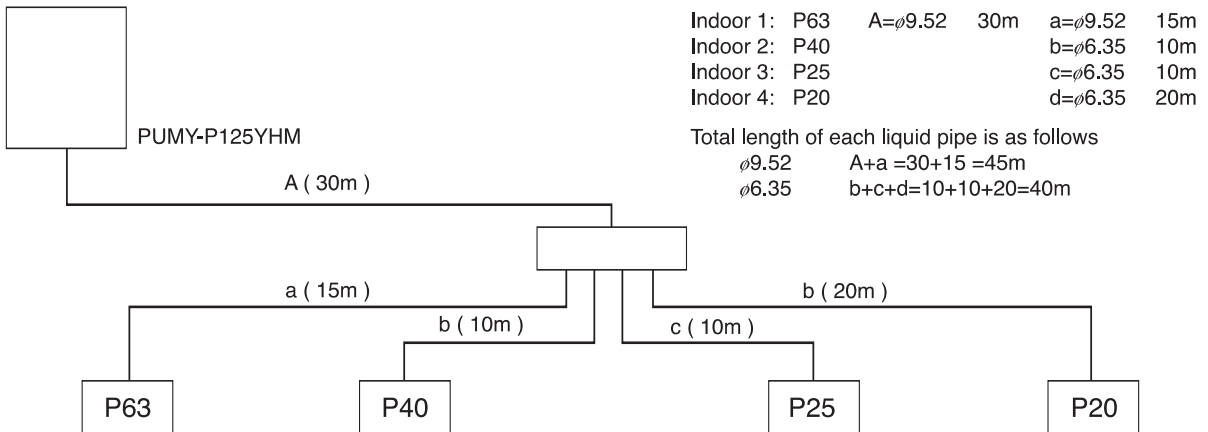
3-6-2. PUMY-P-YHM's refrigerant charging calculation

Original refrigerant charge for PUMY-P-YHM is 8.5kg, including 3 kg for 50m total extended piping length use. Thus, there is no need to charge additional refrigerant to the system if the total extended piping length is 50m or less.

If the total extended piping length is over 50m, calculate the additional refrigerant using following procedure. Yet, if the calculated result is negative, no additional charge is needed.

| | | | | | | |
|-------------------------------|---|--|---|---|---|-----------------|
| Additional refrigerant charge | = | Total length of liquid pipe sized $\phi 9.52 \times 0.06$ | + | Total length of liquid pipe sized $\phi 6.35 \times 0.024$ | - | Original charge |
| (kg) | | (m) x 0.06 (kg/m) | | (m) x 0.024 (kg/m) | | 3.0(kg) |

Example:



| | | | | | | |
|-------------------------------|---|--|---|---|---|-----------------|
| Additional refrigerant charge | = | Total length of liquid pipe sized $\phi 9.52 \times 0.06$ | + | Total length of liquid pipe sized $\phi 6.35 \times 0.024$ | - | Original charge |
| (kg) | | 45 (m) x 0.06 (kg/m) | | 40 (m) x 0.024 (kg/m) | | 3.0(kg) |

$$= 2.70 + 0.96 - 3.00$$

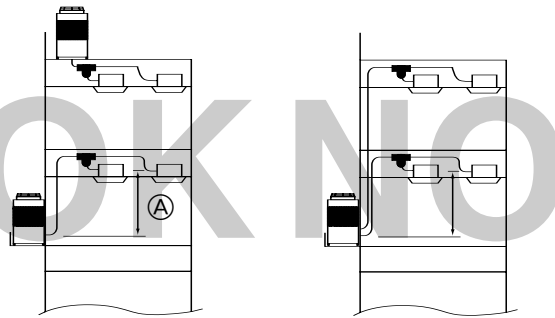
$$= 0.66$$

0.7 kg (round-up)

4-1. PUHY-P-YGM'c Installation

4-1-1. PUHY-P-YGM'c Equipment on Installation Site

1. No direct thermal radiation to the unit;
2. No possibility of annoying the neighbors by the sound of the unit;
3. With strength to bear the weight of the unit;
4. Drain flow from the unit is cared at heating mode;
5. Enough space for installation and service as shown at 4-1-2;
6. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.
7. If the air conditioner system is designed to use cooling-mode below outdoor air temperature 0°C, the installation restriction is as follow.



Ⓐ 4 m or less

(Same floor as indoor unit, or floor above)

4-1. PUHY-P-YGM'c In-c tallation

4-1-2 Spainw PUHY -P-YGM

A. Spacing PUHY-P200-400YGM, PUY-P200-350YGM

<A> : Top view

 : Side view

<C> : When there is little space up to an obstruction

(A) : ?Front

(B) : ?No restrictions on wall height (left and right)

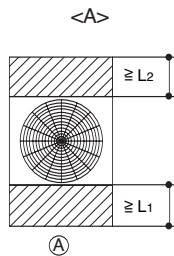
(C) : ?Air outlet guide (Procured at the site)

(D) : Must be open

(E) : Wall height (H)

(F) : No restrictions on wall height

(1) 2ac icc pæ b equibed



| (1) ~ (4) (mm) | |
|----------------|-----|
| L1 | L2 |
| 450 | 450 |

(5) 3olledi e inc tallationc and tallation

• Space required for collective installation and continuous installation :When installing several units, provide the space between each block considering passage for air and people.

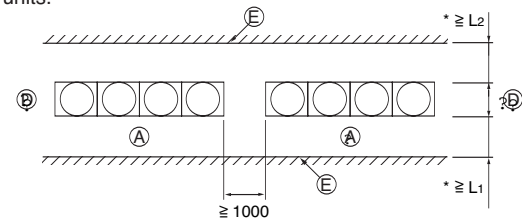
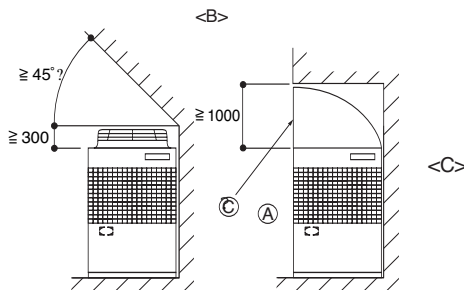
• Open in two directions.

• In case of wall height <H> exceeds total height of unit, add <h> dimension (h =wall height <H> - total height of unit) to * marked dimension.

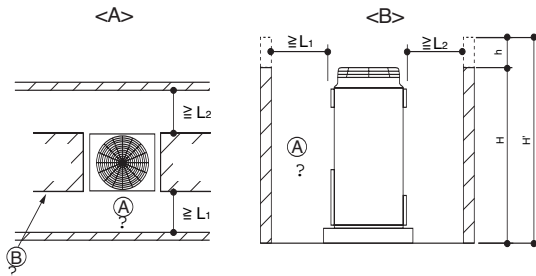
• If there is a wall at both the front and the rear of the unit, install up to 4 units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each 4 units.

| (5) (mm) | |
|----------|-----|
| L1 | L2 |
| 450 | 450 |

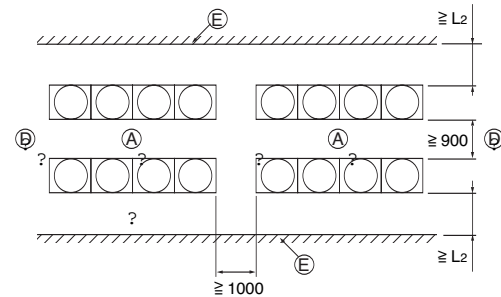
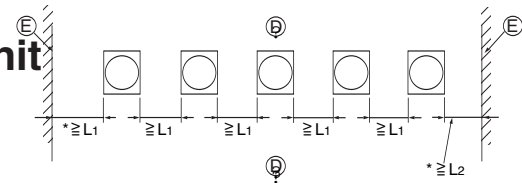
(2) Wen the b e ic an ob tæ dition ab



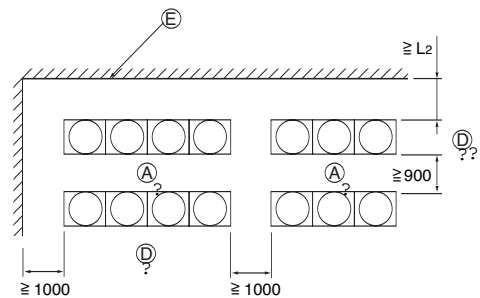
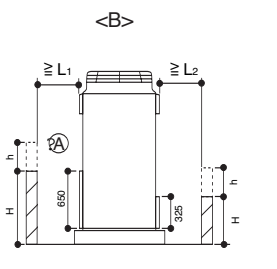
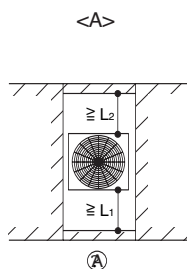
(3) Wen inlet air out and left c ide. of unit



- Wall heights <H> of the front and the back sides shall be within total height of unit.
- When wall height <H'> exceeds total height of unit, add <h> dimension to L1 and L2 of the Figure.
- <h> = wall height <H'> - total height of unit



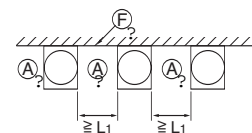
(4) Wen unibinded by g allc



Note:

- Wall heights <H> of the front and the back sides shall be lower than either the front or the back panel.
- If the panel height is exceeded, add the <h> dimension of the Figure to L1 and L2.

Example: When the <h> dimension is 100 mm, the L1 dimension becomes 450 + 100 = 550 mm.



4-1. PUHY-P-YGM'c Installation

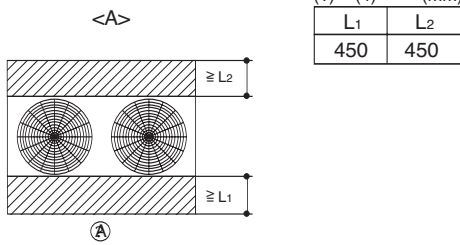
4-1-2 Spacing PUHY -P-YGM

B. Spacing PUHY-P450-650YGM

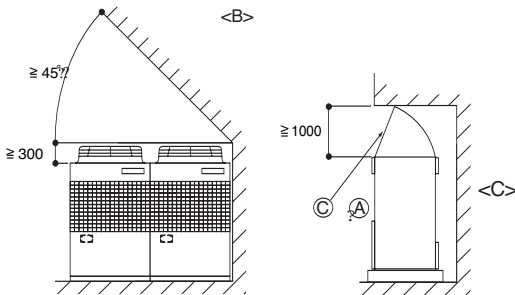
- <A> : Top view
- : Side view
- <C> : When there is little space up to an obstruction

- (A) : Front
- (B) : No restrictions on wall height (left and right)
- (C) : Air outlet guide (Procured at the site)
- (D) : Must be open
- (E) : Wall height (H)
- (F) : No restrictions on wall height

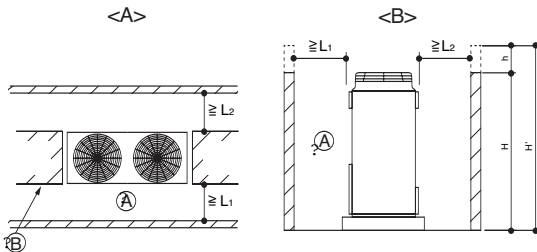
(1) Basic spacing



(2) When there is an obstruction above

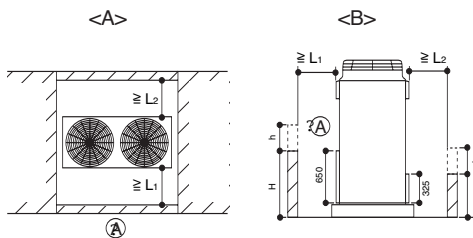


(3) When height of front and back differs



- Wall heights <H> of the front and the back sides shall be within total height of unit.
- When wall height <H'> exceeds total height of unit, add <h> dimension to L1 and L2 of the Figure.
- <h> = wall height <H'> - total height of unit

(4) When unit is bounded



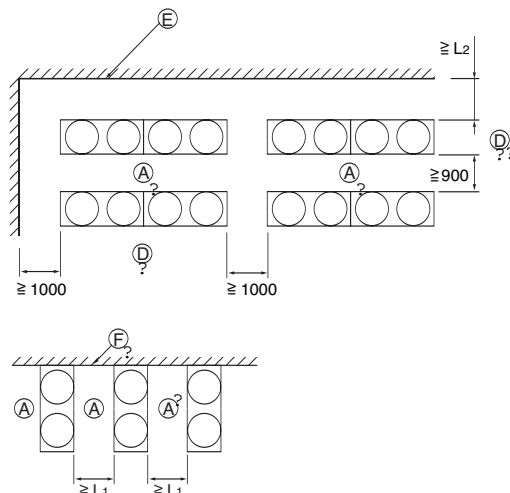
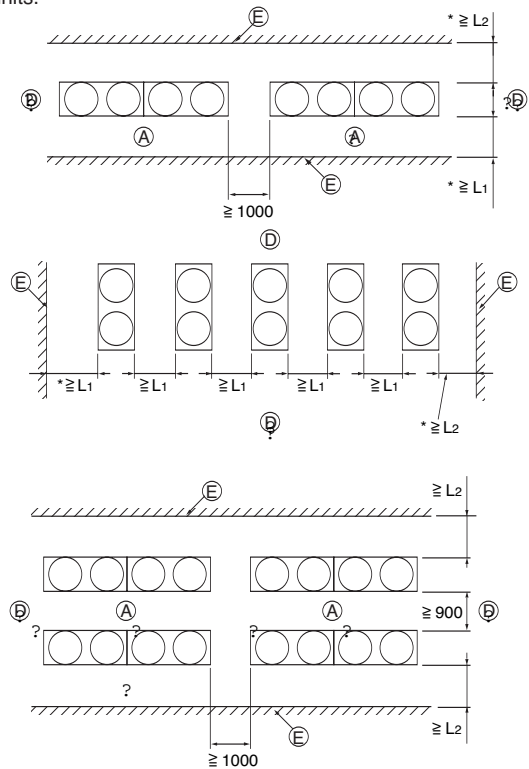
- Note:
- Wall heights <H> of the front and the back sides shall be lower than either the front or the back panel.
 - If the panel height is exceeded, add the <h> dimension of the Figure to L1 and L2.

Example: When the <h> dimension is 100 mm, the L1 dimension becomes 450 + 100 = 550 mm.

(5) Collective installation and continuous

- Space required for collective installation and continuous installation :When installing several units, provide the space between each block considering passage for air and people.
- Open in two directions.
- In case of wall height <H> exceeds total height of unit, add <h> dimension (h = wall height <H> - total height of unit) to * marked dimension.
- If there is a wall at both the front and the rear of the unit, install up to 3 units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each 3 units.

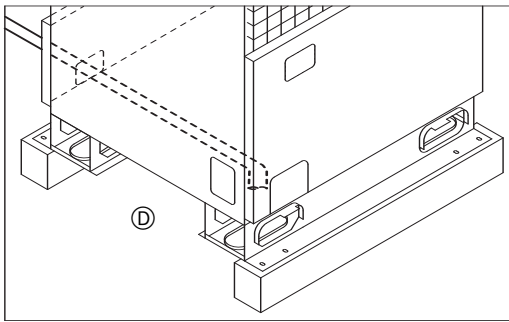
| (5) (mm) | |
|----------|-----|
| L1 | L2 |
| 450 | 450 |



4-1. PUHY-P-YGM' Installation

4-1-3 Piping direction to PUHY -P-YGM

A. Piping direction to PUHY-P200-650YGM, PUY-P200-350YGM



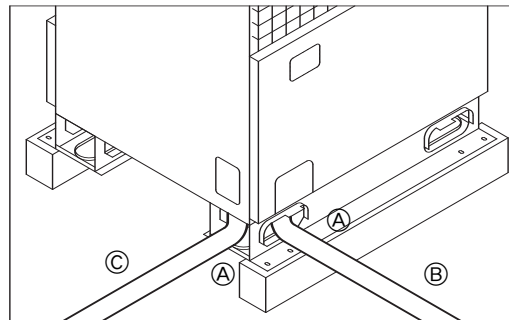
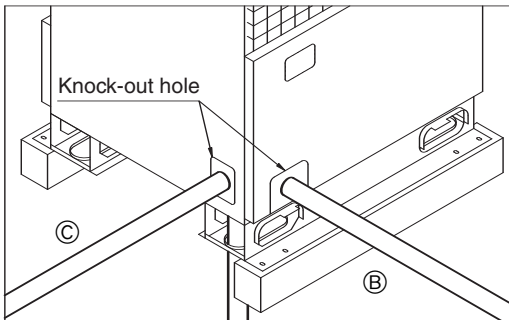
Piping with the outdoor unit as follows is possible.

- (A) Bottom piping
- (B) Front piping
- (C) Left piping
- (D) Rear piping

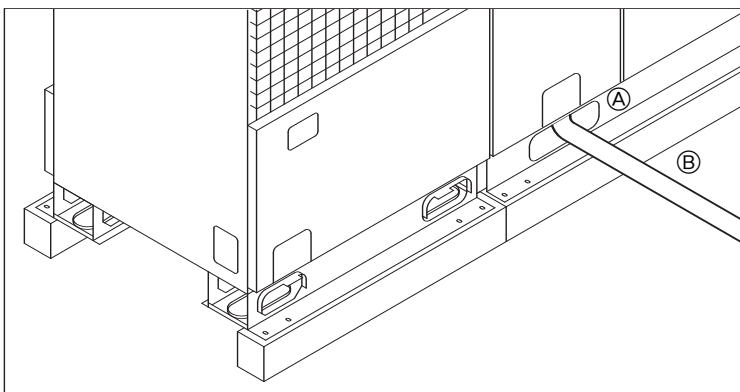
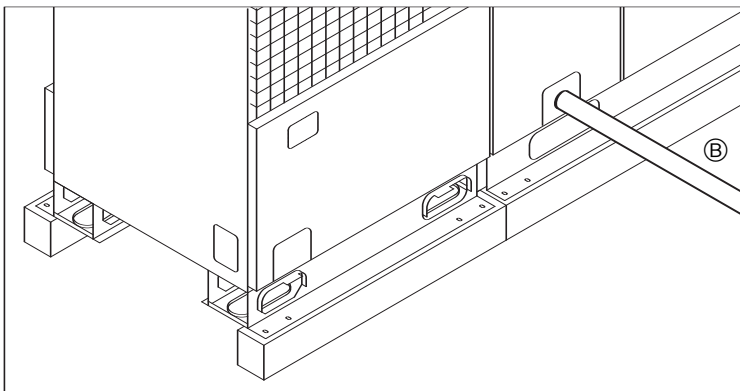
Yet, Left piping the outdoor unit could be not possible when there is another installed at the left side closely.

Also, follow 2 items of procedure are recommended for consideration:

1. In the case of bottom piping, the base is recommended to have 100mm's height to let the bottom piping easy.
2. In the case of take off the knock-out hole to do Front-piping, Rear-piping or Left-piping, closing procedure is necessary for avoiding the rain would enter the unit through the hole.



B. Piping direction to PUHY-P700-800YSGM



Piping with the outdoor unit as follows is possible.

- (A) Bottom piping
- (B) Front piping

Yet, Left piping the outdoor unit could be not possible when there is another installed at the left side closely.

Also, follow 2 items of procedure are recommended for consideration:

1. In the case of bottom piping, the base is recommended to have 100mm's height to let the bottom piping easy.
2. In the case of take off the knock-out hole to do Front-piping or Left-piping, closing procedure is necessary for avoiding the rain would enter the unit through the hole.

4-1. PUHY-P-YGM's Installation

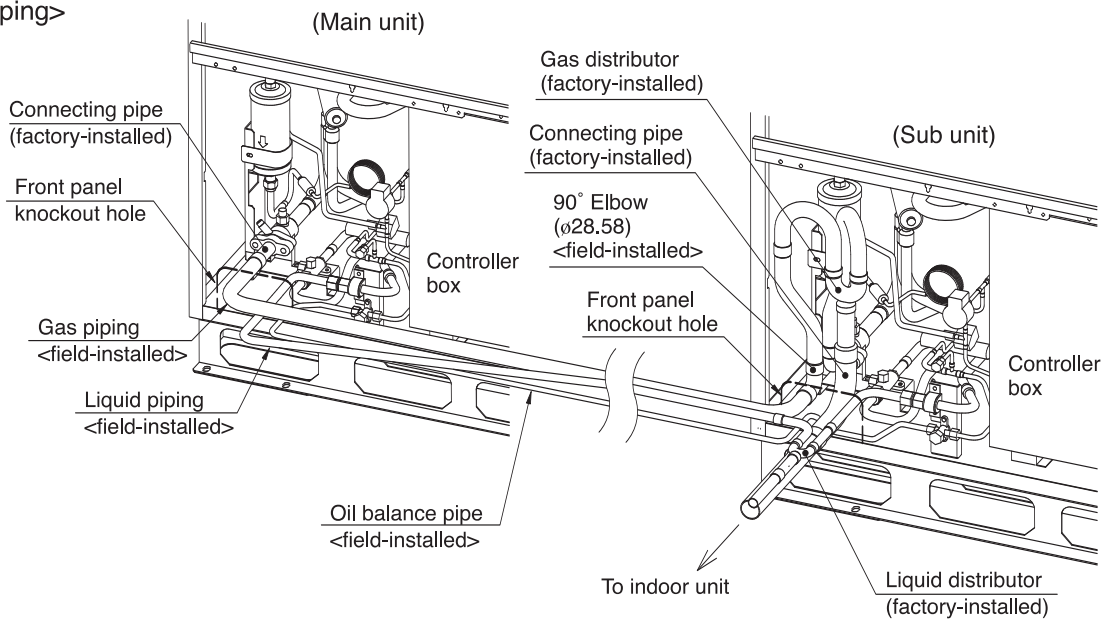
4-1-3 Piping direction to PUHY -P-YGM

C. Piping direction to PUHY-P850-1250YSGM

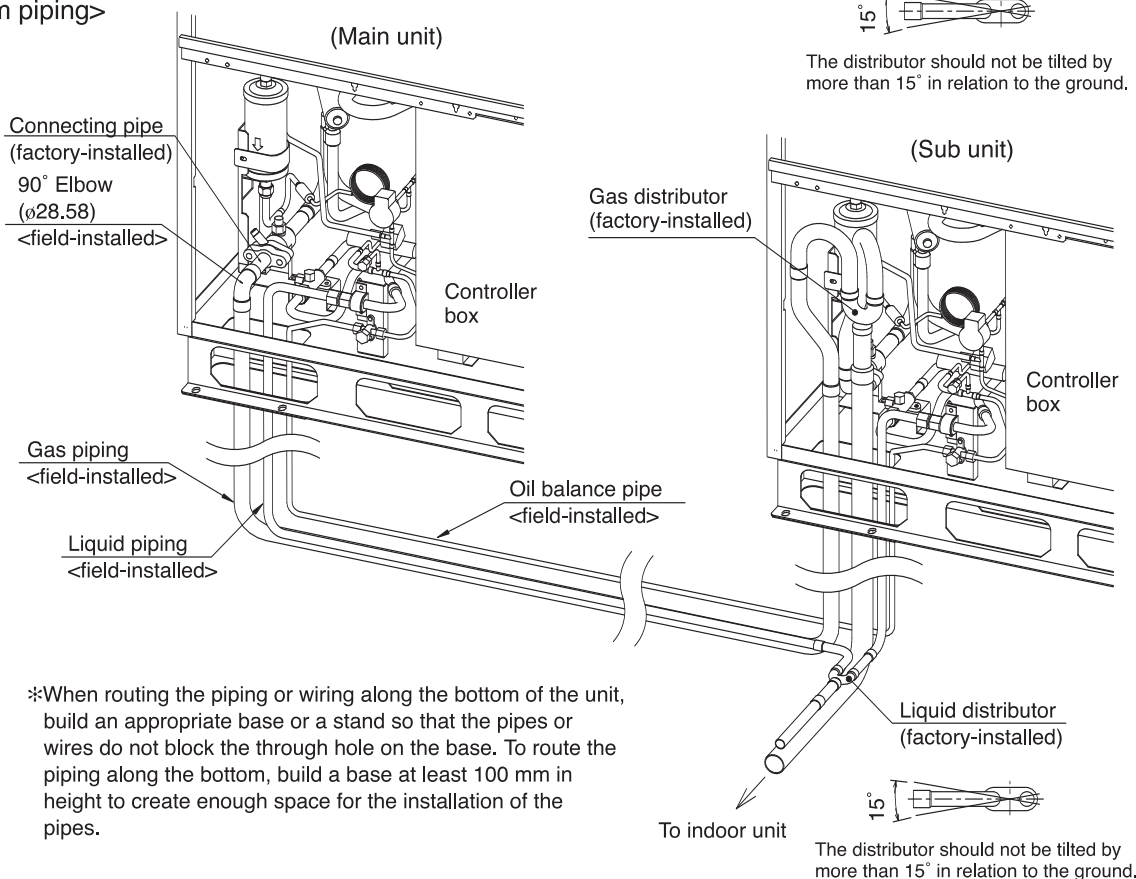
Install the piping between main unit and sub unit according to the figures below.

- The connecting pipe on the gas side and gas distributor are factory-installed on the unit.
- To braze the connecting pipe on the gas side or the gas distributor, remove them from the ball valve. Do not braze them while they are still attached to the ball valves.
- Connect the piping to the ball valve on the gas side first.
- When the connecting pipe on the gas side or the gas distributor is removed from the unit, peel off the backing of the caution label and put it on the flange surface of the ball valve to keep foreign objects from entering the ball valve.
- At factory shipment, a solid packing is used between flanges to keep refrigerant gas from leaking. The unit cannot be operated with a solid packing. Replace it with a hollow packing when installing the piping.
- Wipe of the surface of the flange and packing before installing a hollow packing. Apply a small amount of refrigerating machine oil on both sides of the packing (ester, ether, or alkylbenzene)
- The gas distributor may be installed on the main unit side.

<Front piping>



<Bottom piping>



*When routing the piping or wiring along the bottom of the unit, build an appropriate base or a stand so that the pipes or wires do not block the through hole on the base. To route the piping along the bottom, build a base at least 100 mm in height to create enough space for the installation of the pipes.

4-1. PUHY-P-YGM'c Installation

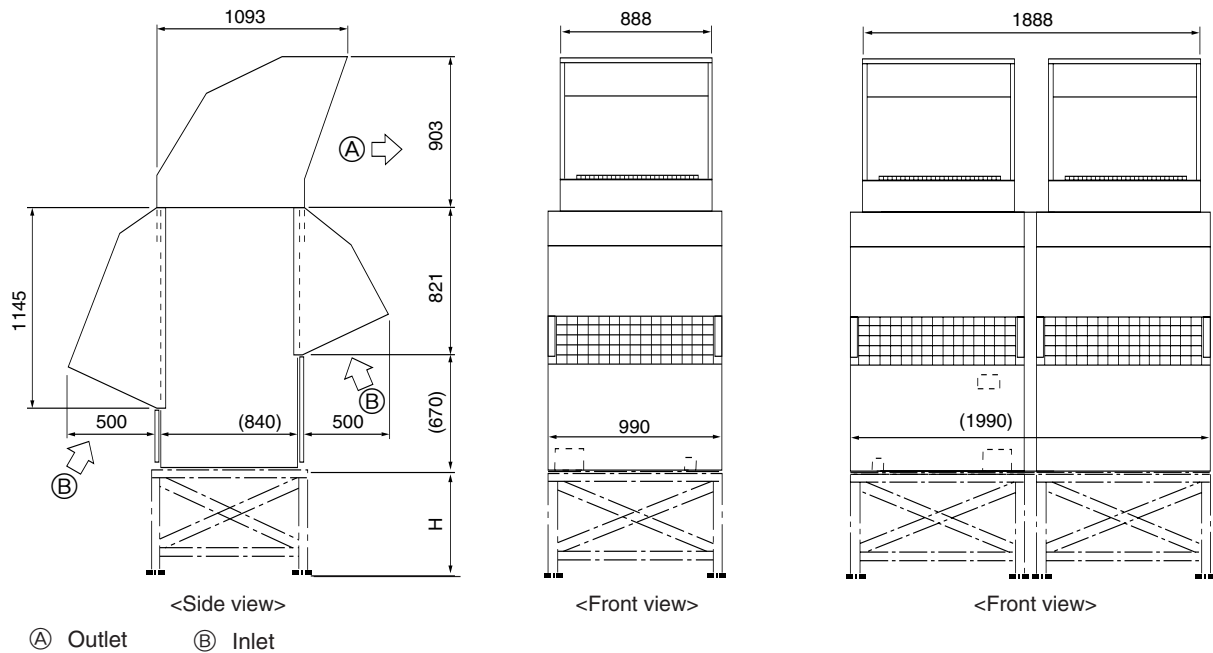
4-1-4. Weather Countermeasures for PUHY -P-YGM

In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Even in the other areas, full consideration is required for installation of unit in order to prevent abnormal operations caused by wind or snow. **When rain and snow directly fall on unit in the case of air-conditioning operation in 10 or less degrees centigrade outdoors, mount inlet and outlet duct on unit base to enable operation.**

Countermeasure to snow and wind

Prevention the Outdoor unit from wind and snow damages in cold or snowy areas, snow hood shown below is recommended and helpful.

- Snow hood

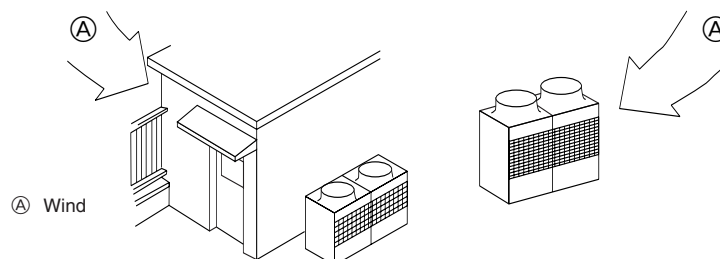


Note:

1. Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow will be accumulated on it.)
2. Install unit so that wind will not directly lash against openings of inlet and outlet ducts.
3. Build frame base at customer referring to this figure.
 Material : Galvanized steel plate 1.2T
 Painting : Overall painting with polyester powder
 Color : Munsell 5Y8/1 (same as that of unit)
4. When the unit is used in a cold region and the heating operation is continuously performed for a long time when the outside air temperature is below freezing, install a heater to the unit base or take other appropriate measures to prevent water from freezing on the base.

Countermeasure to wind

Referring to the figure shown below, take appropriate measures which will suit the actual situation of the place for installation.



4-2 PUR Y-P-YGM'c Installation

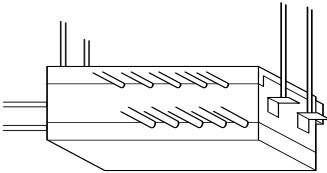
4-21. PUR Y-P-YGM'c Equipment Installation Site

1. No direct thermal radiation to the unit;
2. No possibility of annoying the neighbors by the sound of the unit;
3. With strength to bear the weight of the unit;
4. Drain flow from the unit is cared at heating mode;
5. Enough space for installation and service as shown at 4-2-3;
6. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.

4-22. BC Controller Equipment Installation Site

1. No direct thermal radiation to the BC;
2. A place can be favorable to shorter piping length;
3. A place in which drain water piping, refrigerant piping, wiring and maintenance can be easily done;
4. A place in which a downward pitch of more than 1/100 can be taken for drain piping;
5. A place with less noise effect generated from other equipment;
6. With strength to bear the weight of the unit;
7. Enough space for installation and service as shown at 4-2-3;
8. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.
9. BC controller should be used indoor, not be exposed to weather;

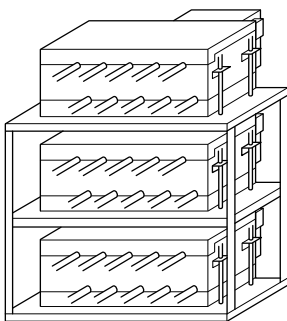
■ In case of hanging from the ceiling



Following procedures are recommended for better the BC installing situation

1. Provide a 450mm x 450mm inspection hole at the ceiling as showed at 4-2-3;
2. Put at the top of a place where people are not always there, such as bath room or corridor;
3. Hanging bolts should be mounted sustaining a pull-out load of 60kg per bolt;
4. Ensure the BC controller is installed at level.

■ In case of stacking on a rack



Following procedures are recommended for better the BC installing situation

1. Secure enough service space around the rack;
2. Ensure the floor is strong enough to support the total weight of the rack and BC controller.
3. Ensure the BC controller is installed at level.

4-2 PUR Y-P-YGM'c In-c tallation

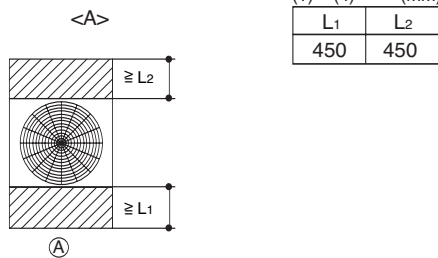
4-23 Spacn_w PUR Y-P-YGM

A. Spacing PURY-P200-400YGM

- <A> : Top view
- : Side view
- <C> : When there is little space up to an obstruction

- (A) : ?Front
- (B) : ?No restrictions on wall height (left and right)
- (C) : ?Air outlet guide (Procured at the site)
- (D) : Must be open
- (E) : Wall height (H)
- (F) : No restrictions on wall height

(1) 2ac icc pæ b equibed

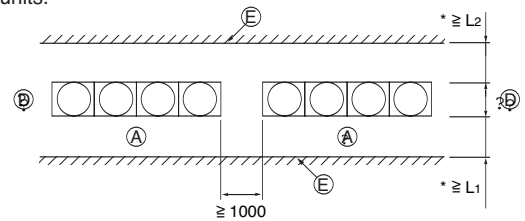
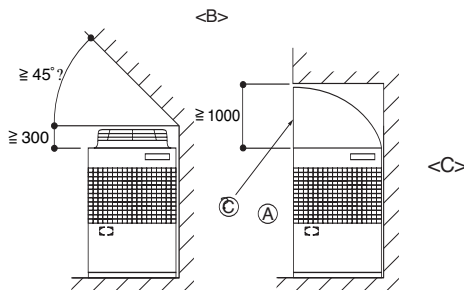


(5) 3olledi e inc tallationc and tallation

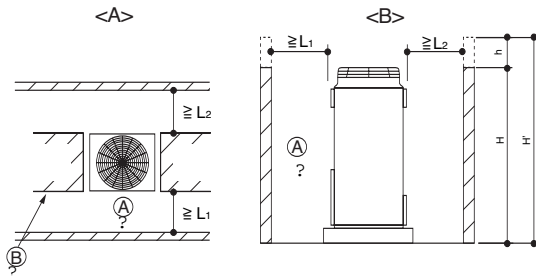
- Space required for collective installation and continuous installation :When installing several units, provide the space between each block considering passage for air and people.
- Open in two directions.
- In case of wall height <H> exceeds total height of unit, add <h> dimension (h =wall height <H> – total height of unit) to * marked dimension.
- If there is a wall at both the front and the rear of the unit, install up to 4 units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each 4 units.

| (5) (mm) | |
|----------|-----|
| L1 | L2 |
| 450 | 450 |

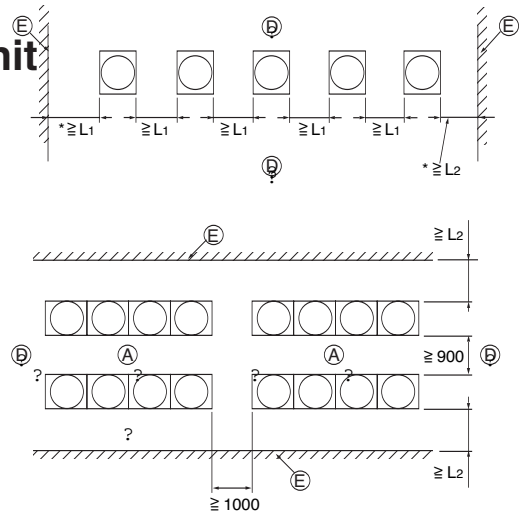
(2) Wen the b e ic an ob trectioh abo



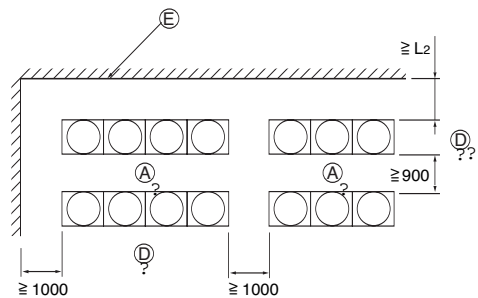
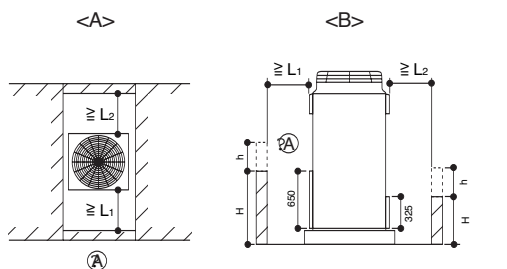
(3) Wen inlet air out and left c ide. of unit



- Wall heights <H> of the front and the back sides shall be within total height of unit.
- When wall height <H'> exceeds total height of unit, add <h> dimension to L1 and L2 of the Figure.
- <h> = wall height <H'> - total height of unit



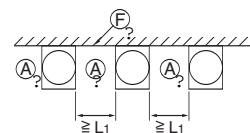
(4) Wen unobundeb by g allc



Note:

- Wall heights <H> of the front and the back sides shall be lower than either the front or the back panel.
- If the panel height is exceeded, add the <h> dimension of the Figure to L1 and L2.

Example: When the <h> dimension is 100 mm, the L1 dimension becomes 450 + 100 = 550 mm.



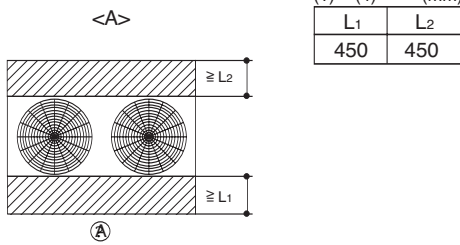
4-2 PUR Y-P-YGM's Installation
 4-23 Spacing PUR Y-P-YGM

B. Spacing PURY-P450-650YGM

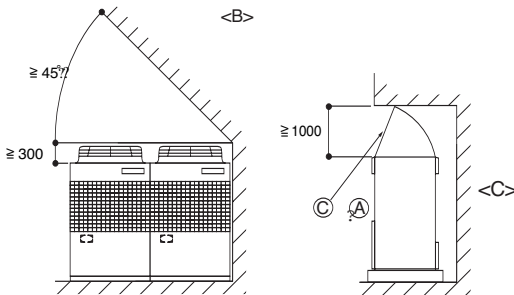
- <A> : Top view
- : Side view
- <C> : When there is little space up to an obstruction

- (A) : Front
- (B) : No restrictions on wall height (left and right)
- (C) : Air outlet guide (Procured at the site)
- (D) : Must be open
- (E) : Wall height (H)
- (F) : No restrictions on wall height

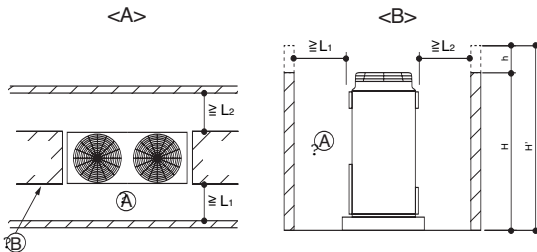
(1) Basic spacing



(2) When there is an obstruction above

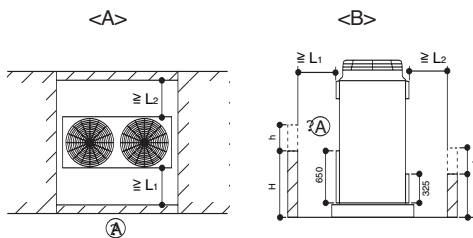


(3) When height of front and back differs



- Wall heights <H> of the front and the back sides shall be within total height of unit.
- When wall height <H'> exceeds total height of unit, add <h> dimension to L1 and L2 of the Figure.
- <h> = wall height <H'> - total height of unit

(4) When unit is bounded



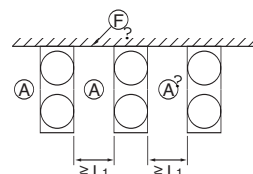
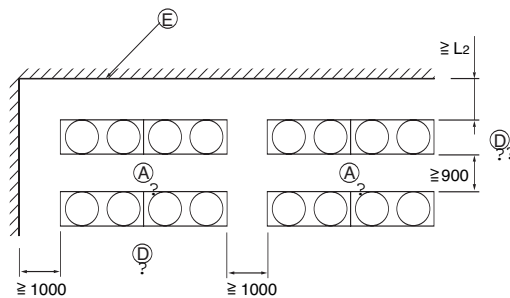
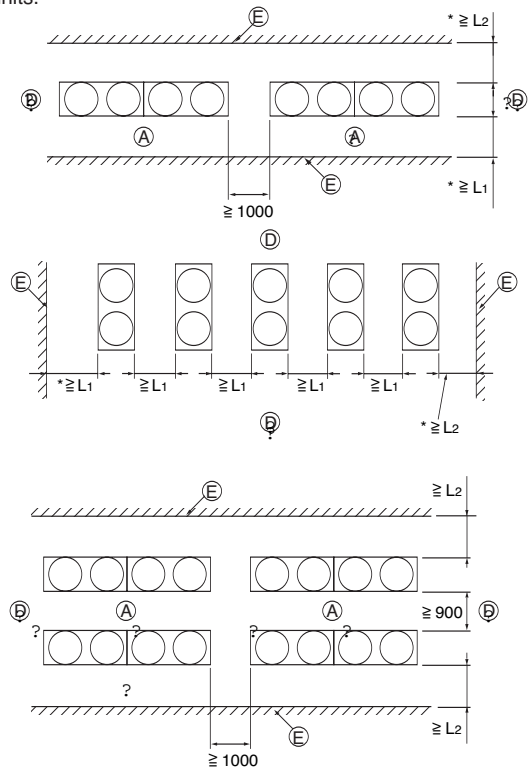
- Note:
- Wall heights <H> of the front and the back sides shall be lower than either the front or the back panel.
 - If the panel height is exceeded, add the <h> dimension of the Figure to L1 and L2.

Example: When the <h> dimension is 100 mm, the L1 dimension becomes 450 + 100 = 550 mm.

(5) Collective installation and continuous

- Space required for collective installation and continuous installation :When installing several units, provide the space between each block considering passage for air and people.
- Open in two directions.
- In case of wall height <H> exceeds total height of unit, add <h> dimension (h = wall height <H> - total height of unit) to * marked dimension.
- If there is a wall at both the front and the rear of the unit, install up to 3 units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passageway space for each 3 units.

| (5) (mm) | |
|----------|-----|
| L1 | L2 |
| 450 | 450 |



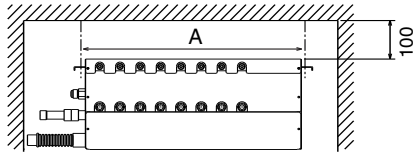
4-2 PUR Y-P-YGM'c Installation

4-23 Spacing PUR Y-P-YGM

C. Spacing BC controller

1. For hanging from the ceiling

<Front view> (when hanging to install)



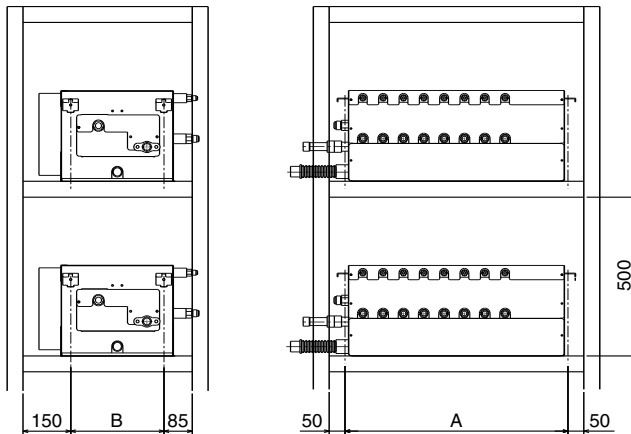
※1 Dimensions with which pipe connection can be handled at site

| Model name | A |
|-------------|------|
| CMB-104V-G | 702 |
| CMB-105V-G | 702 |
| CMB-106V-G | 702 |
| CMB-108V-G | 702 |
| CMB-1010V-G | 702 |
| CMB-1013V-G | 1152 |
| CMB-1016V-G | 1152 |

| Model name | A |
|--------------|------|
| CMB-108V-GA | 1164 |
| CMB-1010V-GA | 1164 |
| CMB-1013V-GA | 1164 |
| CMB-1016V-GA | 1164 |
| CMB-104V-GB | 702 |
| CMB-108V-GB | 702 |

2. When stacking on a rack

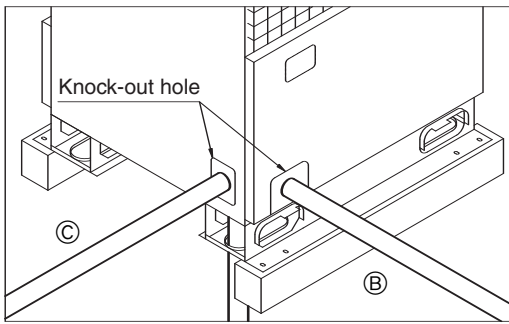
(This is a reference view showing the least installation space.)



| Model name | B |
|--------------|-----|
| CMB-104V-G | 298 |
| CMB-105V-G | 298 |
| CMB-106V-G | 298 |
| CMB-108V-G | 298 |
| CMB-1010V-G | 298 |
| CMB-1013V-G | 298 |
| CMB-1016V-G | 298 |
| CMB-108V-GA | 388 |
| CMB-1010V-GA | 388 |
| CMB-1013V-GA | 388 |
| CMB-1016V-GA | 388 |
| CMB-104V-GB | 298 |
| CMB-108V-GB | 298 |

4-2 PUR Y-P-YGM's Installation

4-24. Piping direction to PUR Y-P-YGM



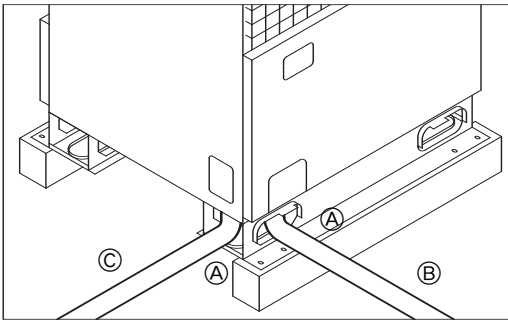
Piping with the outdoor unit as follows is possible.

- (A) Bottom piping
- (B) Front piping
- (C) Left piping

Yet, Left piping the outdoor unit could be not possible when there is another installed at the left side closely.

Also, following 2 items of procedure are recommended for consideration:

1. In the case of bottom piping, the base is recommended to have 100mm's height to let the bottom piping easy.
2. In the case of take off the knock-out hole to do Front-piping or Left-piping, closing procedure is necessary for avoiding the rain would enter the unit through the hole.



4-2 PUR Y-P-YGM'c Installation

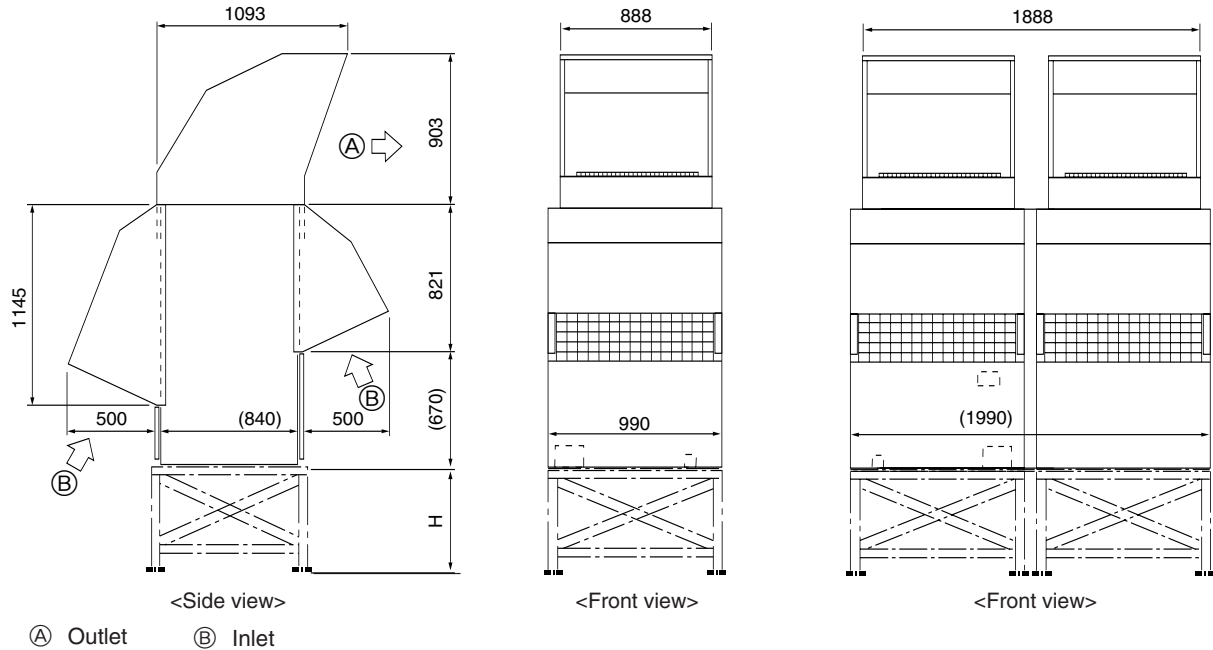
4-25 Weather Countermeasures for PUR Y-P-YGM

In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Even in the other areas, full consideration is required for installation of unit in order to prevent abnormal operations caused by wind or snow. **When rain and snow directly fall on unit in the case of air-conditioning operation in 10 or less degrees centigrade outdoors, mount inlet and outlet duct on unit base in winter operation.**

Countermeasure to snow and wind

Prevention the Outdoor unit from wind and snow damages in cold or snowy areas, snow hood shown below is recommended and helpful.

- Snow hood

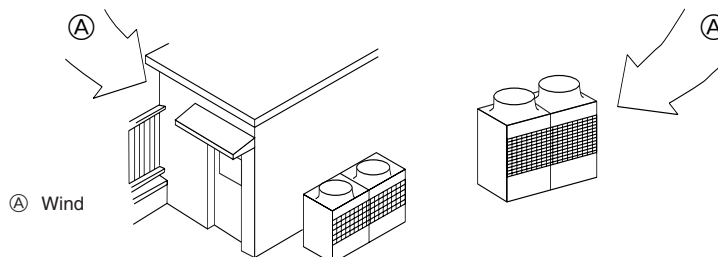


Note:

- Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow will be accumulated on it.)
- Install unit so that wind will not directly lash against openings of inlet and outlet ducts.
- Build frame base at customer referring to this figure.
 Material : Galvanized steel plate 1.2T
 Painting : Overall painting with polyester powder
 Color : Munsell 5Y8/1 (same as that of unit)
- When the unit is used in a cold region and the heating operation is continuously performed for a long time when the outside air temperature is below freezing, install a heater to the unit base or take other appropriate measures to prevent water from freezing on the base.

Countermeasure to wind

Referring to the figure shown below, take appropriate measures which will suit the actual situation of the place for installation.



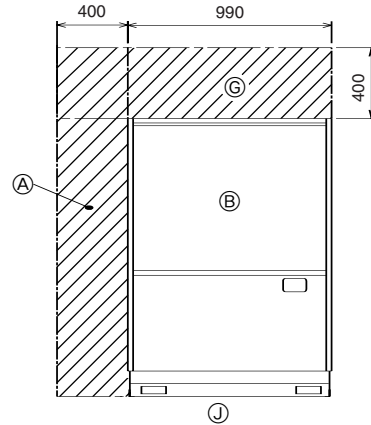
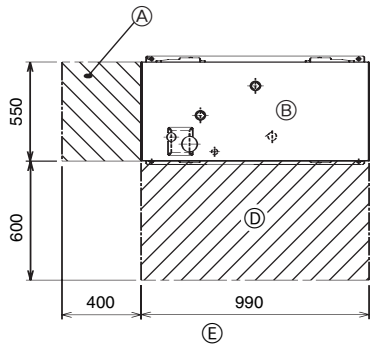
4-3 PQHY, PQRYP-YGM'c Installation

4-31. PQHY, PQRYP-YGM'c equipment on installation site

1. No direct thermal radiation to the unit;
2. No possibility of annoying the neighbors by the sound of the unit;
3. With strength to bear the weight of the unit;
4. Drain flow from the unit is cared at heating mode;
5. Enough space for installation and service as shown at 4-3-2;
6. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.
7. The unit should be secure from weather, and be installed indoor.
8. The declining gradient of the exhaust pipe should be higher than 1/100.

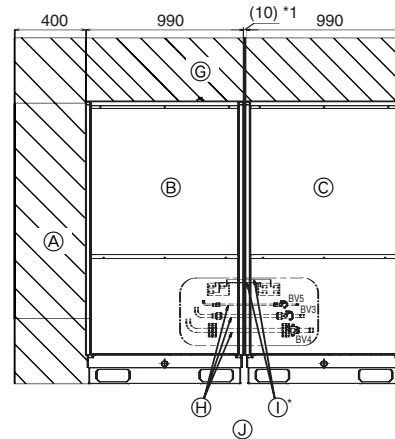
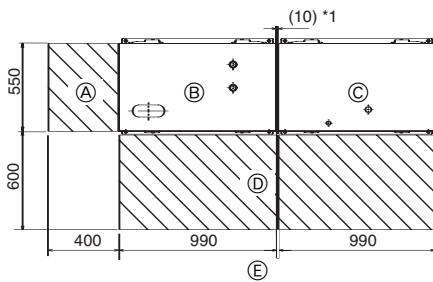
4-32 Spacing PQHY, PQRYP-YGM

PQHY, PQRYP-200,250YGM

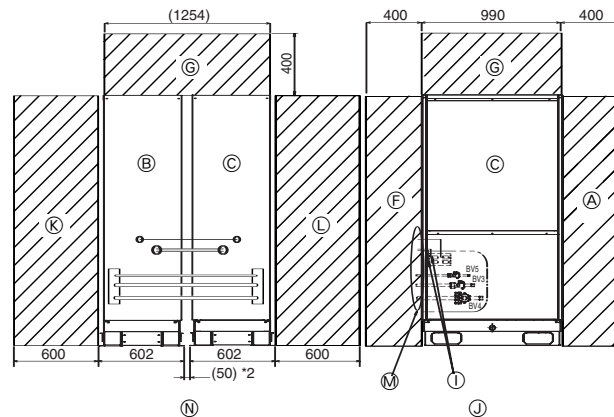
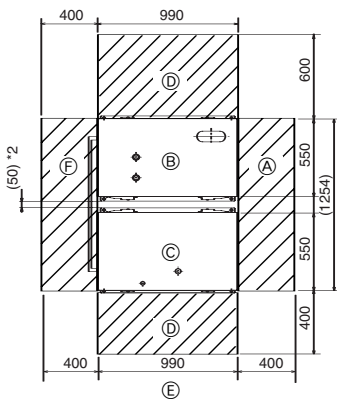


PQHY, PQRYP-400,500YSGM

■ Side-by-side installation



■ Back-by-back installation



- (A) Piping space (for side piping)
- (B) Heat exchanger unit
- (C) Compressor unit
- (D) Service space (front side)
- (E) Top view
- (F) Piping space
- (G) Piping space (for top piping)
- (H) Field-installed pipes
 - Bypass pipe $\phi 9.52$ (Flare + Brazed)
 - High press pipe $\phi 19.05$ (Flare + Brazed)
 - Low press pipe $\phi 25.4$ (Flange + Brazed)

- (I) Connecting wire between heat exchanger unit and compressor unit (External heater adapter*)
 - Control signal wire (connector, on-site connection)
 - *If the space between the heat exchanger unit and compressor unit exceeds 1.5 m (the length of the standard supplied external heater adapter), an optional external heater adapter (available in 5m or 10m) is necessary.
- (J) Front view
- (K) Service space (Heat exchanger unit side)
- (L) Service space (Compressor unit side)

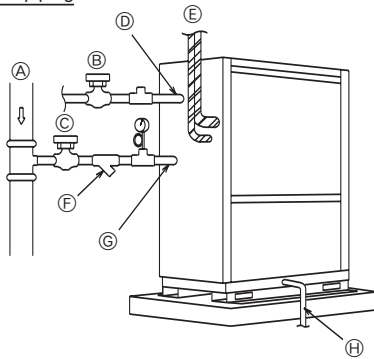
- (M) Pipe/wire output port
- (N) (Side view)

*1. Installation site should be leveled and be free from vibration so that the side panels of the units do NOT rub against each other.

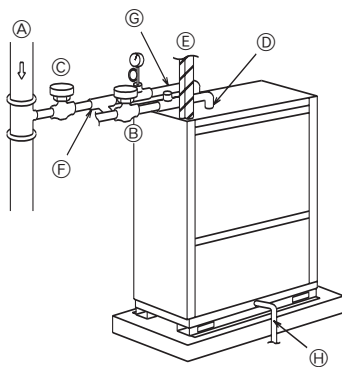
*2. Installation site should allow fixing the units to the floor.

4-3 PQHY, PQRV-P-YGM'c Indoor Installation
 4-33 Piping Modification to PQHY, PQRV-P-YGM

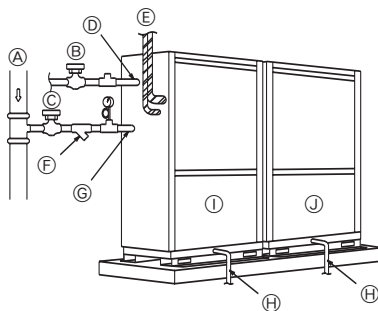
[Fig. 4.3.3]
 <Model : P200-250>
 Side piping



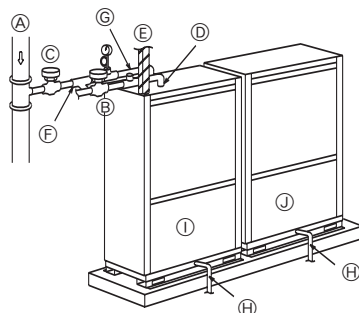
Top piping



<Model : P400-500>
 Side piping



Top piping



- (A) Water circulation pipe
- (B) Close valve
- (C) Close valve
- (D) Water outlet
- (E) Refrigerant piping
- (F) Y-type strainer
- (G) Water inlet
- (H) Drain pipe
- (I) Heat exchanger unit
- (J) Compressor unit

1. Insulation installation

With City Multi WY/WR2 Series piping, as long as the temperature range of the circulating water is kept to average temperatures year-round (30°C in the summer, 20°C in the winter), there is no need to insulate or otherwise protect indoor piping from exposure. You should use insulation in the following situations:

- Any heat source piping.
- Indoor piping in cold-weather regions where frozen pipes are a problem.
- When air coming from the outside causes condensation to form on piping.
- Any drainage piping.

2. Water processing and water quality control

To preserve water quality, use the closed type of cooling tower for WY/WR2. When the circulating water quality is poor, the water heat exchanger can develop scales, leading to a reduction in heat-exchange power and possible corrosion of the heat exchanger. Please pay careful attention to water processing and water quality control when installing the water circulation system.

- Removal of foreign objects or impurities within the pipes. During installation, be careful that foreign objects, such as welding fragments, sealant particles, or rust, do not enter the pipes.

• Water Quality Processing

- ① Depending on the quality of the cold-temperature water used in the air conditioner, the copper piping of the heat exchanger may become corroded. We recommend regular water quality processing.

Cold water circulation systems using open heat storage tanks are particularly prone to corrosion.

When using an open-type heat storage tank, install a water-to-water heat exchanger, and use a closed-loop circuit on the air conditioner side. If a water supply tank is installed, keep contact with air to a minimum, and keep the level of dissolved oxygen in the water no higher than 1mg/ℓ.

② Water quality standard

| Items | Lower mid-range temperature water system | | Tendency | |
|--|--|--------------------|-----------|---------------|
| | Recirculating water [20<T<60°C] | Make-up water | Corrosive | Scale-forming |
| pH (25°C) | 7.0 ~ 8.0 | 7.0 ~ 8.0 | ○ | ○ |
| Electric conductivity (mS/m) (25°C) | 30 or less | 30 or less | ○ | ○ |
| (μS/cm) (25°C) | [300 or less] | [300 or less] | | |
| Chloride ion (mg Cl/ℓ) | 50 or less | 50 or less | ○ | |
| Sulfate ion (mg SO ₄ ²⁻ /ℓ) | 50 or less | 50 or less | ○ | |
| Acid consumption (pH4.8) (mg CaCO ₃ /ℓ) | 50 or less | 50 or less | | ○ |
| Total hardness (mg CaCO ₃ /ℓ) | 70 or less | 70 or less | | ○ |
| Calcium hardness (mg CaCO ₃ /ℓ) | 50 or less | 50 or less | | ○ |
| Ionic silica (mg SiO ₂ /ℓ) | 30 or less | 30 or less | | ○ |
| Iron (mg Fe/ℓ) | 1.0 or less | 0.3 or less | ○ | ○ |
| Copper (mg Cu/ℓ) | 1.0 or less | 0.1 or less | ○ | |
| Sulfide ion (mg S ²⁻ /ℓ) | not to be detected | not to be detected | ○ | |
| Ammonium ion (mg NH ₄ ⁺ /ℓ) | 0.3 or less | 0.1 or less | ○ | |
| Residual chlorine (mg Cl/ℓ) | 0.25 or less | 0.3 or less | ○ | |
| Free carbon dioxide (mg CO ₂ /ℓ) | 0.4 or less | 4.0 or less | ○ | |
| Ryzner stability index | - | - | ○ | ○ |

Reference : Guideline of Water Quality for Refrigeration and Air Conditioning Equipment. (JRA GL02E-1994)

- ③ Please consult with a water quality control specialist about water quality control methods and water quality calculations before using anti-corrosive solutions for water quality management.

- ④ When replacing a previously installed air conditioning device (even when only the heat exchanger is being replaced), first conduct a water quality analysis and check for possible corrosion.

Corrosion can occur in cold-water systems even if there has been no prior signs of corrosion. If the water quality level has dropped, please adjust water quality sufficiently before replacing the unit.

4-4. PUMY-P-YHM's Installation

4-4-1. PUMY-P-YHM's requirement on installation site

4-4-1-1. General caution

- A. Avoid locations exposed to direct sunlight or other sources of heat.
- B. Select a location from which noise emitted by the unit will not inconvenience the neighbors.
- C. Select a location permitting easy wiring and pipe access to the power source and indoor unit.
- D. Avoid locations where combustible gases may leak, be produced, flow, or accumulate.
- E. Note that water may drain from the unit during operation.
- F. Select a level location that can bear the weight and vibration of the unit.
- G. Avoid locations where the unit can be covered by snow. In areas where heavy snow fall is anticipated, special precautions such as raising the installation location or installing a hood on the air intake must be taken to prevent the snow from blocking the air intake or blowing directly against it. This can reduce the airflow and a malfunction may result.
- H. Avoid locations exposed to oil, steam, or sulfuric gas.
- I. Use the transportation handles of the outdoor unit to transport the unit. If the unit is carried from the bottom, hands or fingers may be pinched.

4-4-1-3. Foundation for PUMY-P-YHM

- A. Be sure to install the unit in a sturdy, level surface to prevent rattling noises during operation. (see Fig. 4-4-1-3)
 - B. Foundation specifications are as follows.
- | Thickness of concrete | Weight-bearing capacity | Foundation bolt | Bolt length |
|-----------------------|-------------------------|-----------------|-------------|
| 120 mm | 320 kg | M10 (3/8") | 70 mm |
- C. Make sure that the length of the foundation bolt is within 30 mm of the bottom surface of the base.
 - D. Secure the base of the unit firmly with four-M10 foundation bolts in sturdy locations.

⚠ Warning:

- A. The foundation base should be strong enough to support the outdoor unit, otherwise, it may fall down and cause damage or injuries.
- B. The unit must be installed according to the instructions in order to minimize the risk of damage from earthquakes, typhoons, or strong winds.

4-4-1-2. Installation at windy location.

When installing the outdoor unit on a rooftop or other location unprotected from the wind, situate the air outlet of the unit so that it is not directly exposed to strong winds. Strong wind entering the air outlet may impede the normal airflow and a malfunction may result.

The following shows two examples of precautions against strong winds.

- 1 Install an optional air guide if the unit is installed in a location where strong winds from a typhoon, etc. may directly enter the air outlet. (Fig. 4-4-1-2a)
A Air guide
- 2 Position the unit so that the air outlet blows perpendicularly to the seasonal wind direction, if possible. (Fig. 4-4-1-2b)
B Wind direction

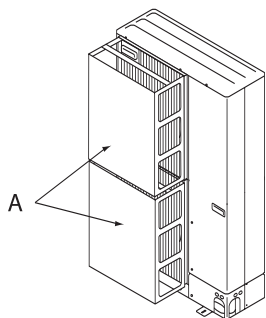


Fig. 4-4-1-2a

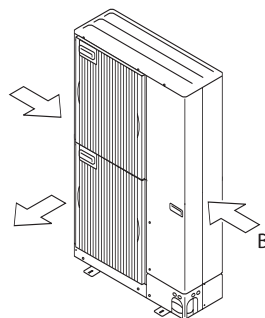


Fig. 4-4-1-2b

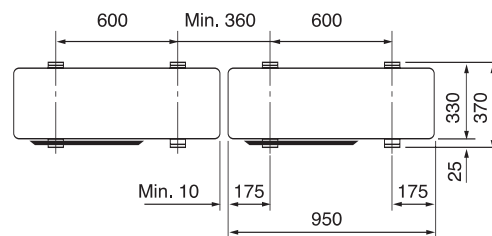
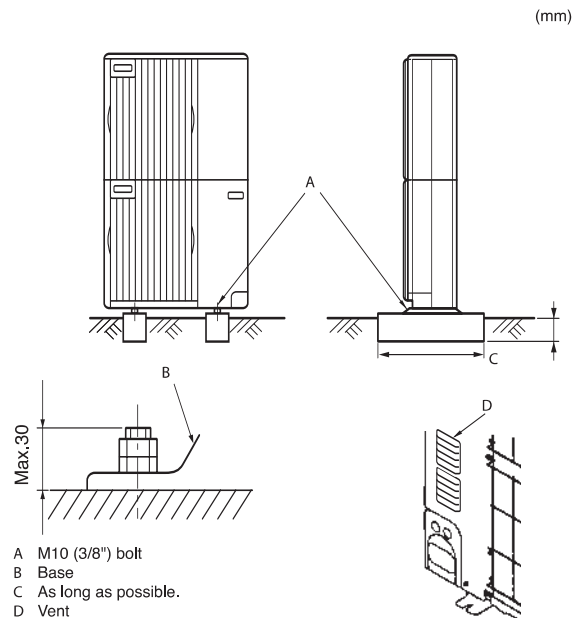


Fig. 4-4-1-3

4-4. PUMY-P-YHM's Installation

4-4-2. Spacing PUMY-P-YHM

PUMY-P100, 125, 140YHM's external dimension. (Fig.4-4-1)

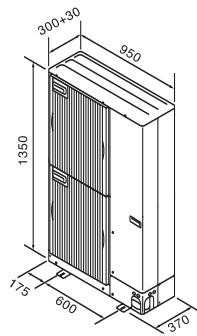


Fig. 4-4-1 PUMY-P-YHM dimension

PUMY-P-YHM can connect Indoor unit sized P20 to P140 ; and can connect totally 1-8 Indoor units with total capacity ranged 50%-130% of the outdoor unit capacity.

| | Connectable Indoor capacity*1 | Connectable Indoor unit |
|--------------|-------------------------------|-------------------------|
| PUMY-P100YHM | 5.6-14.6 kW | P20-P125, 1-6 units |
| PUMY-P125YHM | 7.1-18.2 kW | P20-P140, 1-8 units |
| PUMY-P140YHM | 8.0-20.2 kW | P20-P140, 1-8 units |

4-4-2-1. Spacing individual PUMY-P-YHM

Follow Fig. 4-4-2 ~ 7 to space individual PUMY-P-YHM at the installation site.

4-4-2-2. Spacing grouped PUMY-P-YHM

Follow Fig. 4-4-8 ~ 13 to space grouped PUMY-P-YHM at the installation site. Leave 10 mm space or more between PUMY-P-YHM units.

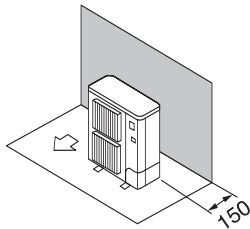


Fig. 4-4-2 Obstacles at rear only

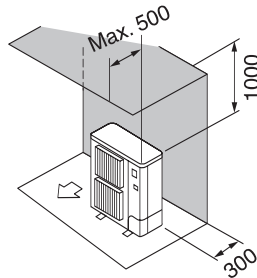


Fig. 4-4-3 Obstacles at rear and above only

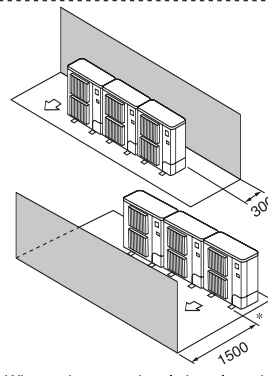
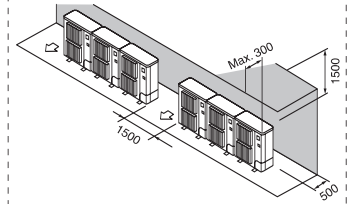


Fig. 4-4-8 Obstacles at rear or front only



* In case of side-by-side installation, <=3 units;
* Do not install the optional air outlet guides for upward airflow.

Fig. 4-4-9 Obstacles at rear and above only

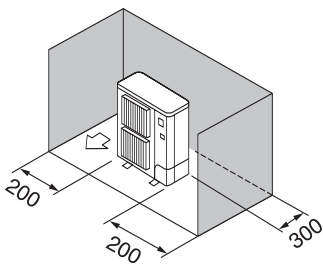


Fig. 4-4-4 Obstacles at rear and sides only

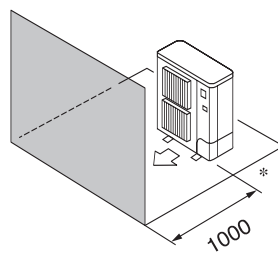


Fig. 4-4-5 Obstacles at front only

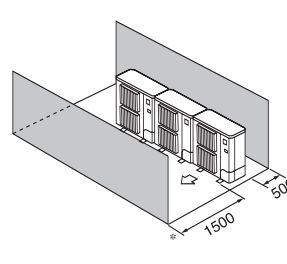


Fig. 4-4-10 Obstacles at front and rear only

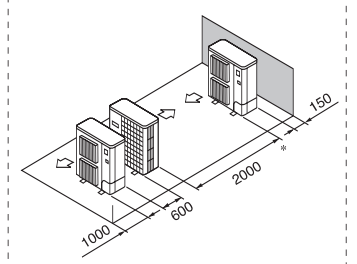
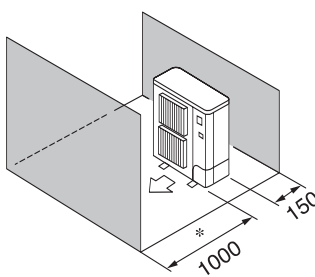
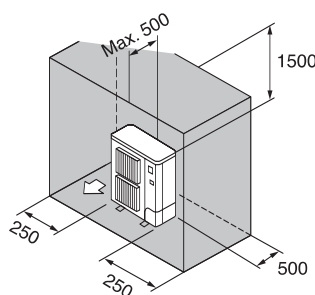


Fig. 4-4-11 Parallel individuals arrangement



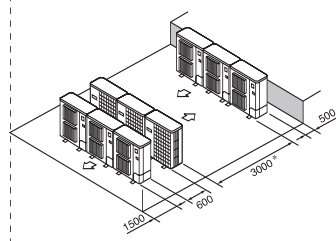
* Using an optional air outlet guide, the clearance >= 500 mm.

Fig. 4-4-6 Obstacles at front and rear only



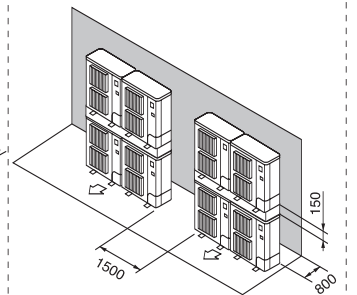
* NO upward airflow outlet guide.

Fig. 4-4-7 Obstacles at rear, sides and above only



* Using an optional air outlet guide for upward airflow, the clearance >= 1500 mm.

Fig. 4-4-12 Parallel groups arrangement

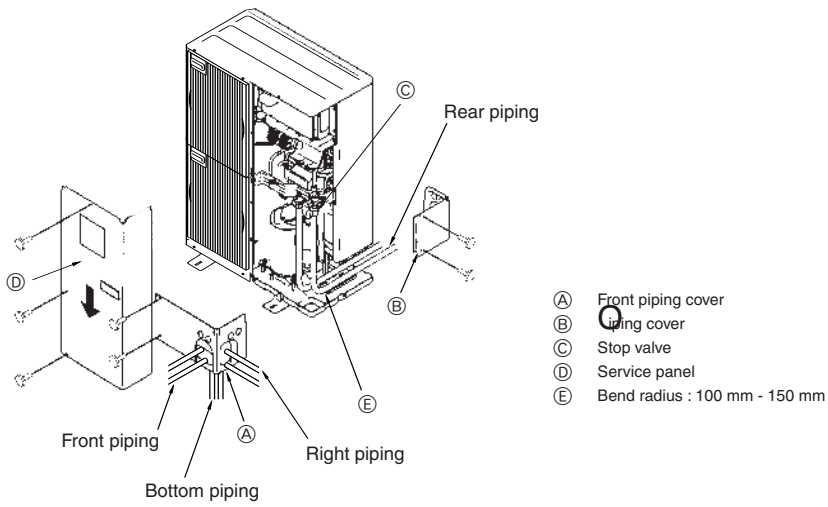


* Stacked layer <= 2 units;
* Side-by-side stacked groups <= 2 groups;

Fig. 4-4-13 Stacked groups arrangement

4-4. PUMY-P-YHM'c Installation

4-4-3 Piping direction to PUMY -P-YHM



The installer and/or air conditioning system specialist shall secure safety against refrigerant leakage according to local regulations or standards. The following standard may be applicable if no local regulation or standard is available.

5.1. Refrigerant property

Both R410A and R22 refrigerant is harmless and incombustible. The R410A and R22 are heavier than the indoor air in density. Leakage of the refrigerant in a room has possibility to lead to a hypoxia situation. Therefore, the Critical concentration specified below shall not be exceeded even if the leakage happens.

Critical concentration

Critical concentration hereby is the refrigerant concentration in which no human body would be hurt if immediate measures can be taken when refrigerant leakage happens.

| | |
|--|--|
| Critical concentration of R410A/R22 | 0.30kg/m ³ (The weight of refrigeration volume per 1 m ³ air condition volume.) |
| * The Critical concentration is subject to ISO5149, EN378-1. | |

For the CITY MULTI system, the concentration of refrigerant leaked should not have a chance to exceed the Critical concentration in any situation.

5.2. Confirm the critical concentration and take countermeasures

The maximum refrigerant leakage concentration (Rmax) is defined as the result of the possible maximum refrigerant weight (Wmax) leaked into a room divided by its room capacity (V). It is referable to Fig. 5-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.

The additional charge is calculated according to the refrigerant charging calculation of each kind of Outdoor unit, and shall not be over charged at the site. Procedure 5-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.

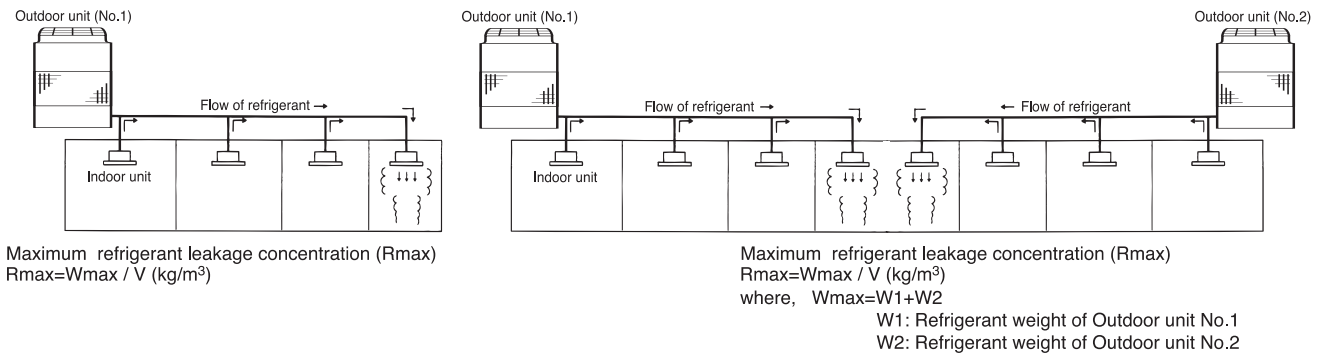


Fig. 5-1 The maximum refrigerant leakage concentration

- 5-2-1. Find the room capacity (V),
If a room having total opening area more than 0.15% of the floor area at a low position with another room/space, the two rooms/space are considered as one. The total space shall be added up.
- 5-2-2. Find the possible maximum leakage (Wmax) in the room. If a room has Indoor unit(s) from more than 1 Outdoor unit, add up the refrigerant of the Outdoor units.
- 5-2-3. Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).
- 5-2-4. Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.30kg/m³.
If no, then the CITY MULTI is safe against refrigerant leakage.
If yes, following countermeasure is recommended to do at site.
Countermeasure 1: Let-out (making V bigger)
Design an opening of more than 0.15% of the floor area at a low position of the wall to let out the refrigerant whenever leaked.
e.g. make the upper and lower seams of door big enough.
Countermeasure 2: Smaller total charge (making Wmax smaller)
e.g. Avoid connecting more than 1 Outdoor unit to one room.
e.g. Using smaller model size but more Outdoor units.
e.g. Shorten the refrigerant piping as much as possible.
Countermeasure 3: Fresh air in from the ceiling (Ventilation)
As the density of the refrigerant is bigger than that of the air. Fresh air supply from the ceiling is better than air exhausting from the ceiling.
Fresh air supply solution refers to Fig. 5-2~4.

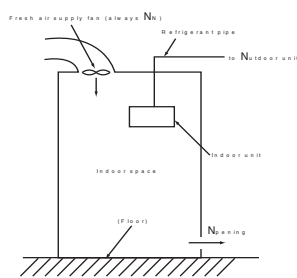


Fig.5-2. Fresh air supply always ON

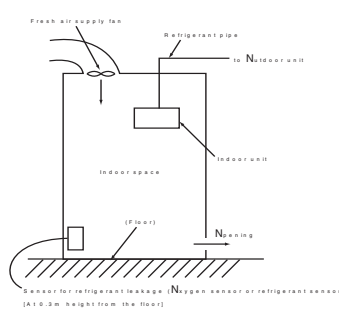


Fig.5-3. Fresh air supply upon sensor action

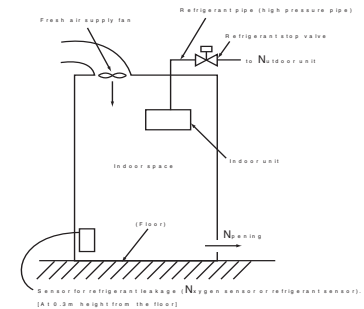


Fig.5-4. Fresh air supply and refrigerant shut-off upon sensor action

Note 1. Countermeasure 3 should be done in a proper way in which the fresh air supply shall be on whenever the leakage happens.
Note 2. In principle, MITSUBISHI ELECTRIC requires proper piping design, installation and air-tight testing after installation to avoid leakage happening. In the area should earthquake happen, anti-vibration measures should be fully considered. The piping should consider the extension due to the temperature variation.

The Natural Choice



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