

*Changes for the Better*

AIR CONDITIONING SYSTEMS

for a greener tomorrow



# CITY MULTI

## DATA BOOK

### R410A series

# YKMM

DATABOOK describes the technical specifications of MITSUBISHI ELECTRIC Corp.'s CITYMULTI air conditioning system products.

DATABOOK YKM is updated from DATABOOK G9.  
The contents below are added as well as some minor revisions.

Indoor: PLFY-P-VCM-E is changed to PLFY-P-VCM-E2.  
PFFY-P-VKM-E is changed to PFFY-P-VKM-E2.

Outdoor: PUHY-EP-Y(S)JM-A(1) is changed to PUHY-EP-Y(S)KM-A.  
PURY-EP-Y(S)JM-A(1) is changed to PURY-EP-Y(S)KM-A.  
PUMY-P-YHMB, PUMY-P-VHMB, PUHY-P-Y(S)JM-A(1), PUHY-HP-Y(S)HM-A, PURY-P-Y(S)JM-A(1),  
PQHY-P-Y(S)HM-A, PQRV-P-Y(S)HM-A are deleted.

Controller: For detailed specifications, refer to the latest DATABOOK.

We recommend DATABOOK users to read carefully and take advantage of all the contents inside to design the CITY MULTI air conditioning system and/or to prepare documents for promotions.

Along with the DATABOOK, MITSUBISHI ELECTRIC provides a Design-Tool software to ensure the users to design the system correctly and simplify the calculations. Please contact your local distributor for this software.

Please be notified that specifications are subject to change without notice due to continual improvements of the product.  
For any inquiries, please contact your local distributor.

# CITY MULTI

## Databook YKM

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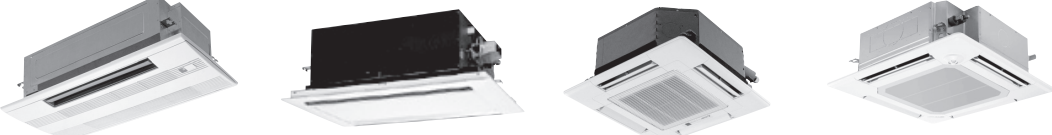



# CITY MULTI

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

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

Model size	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250																																																																											
Nominal HP	0.6HP	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	1.7	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	1,450	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	5,800	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	1.8	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	1,500	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	6,100	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	1.9	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	1,600	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	6,500	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																																																																										
Ceiling concealed	 <p style="text-align: center;"> <b>PEFY-P-VMR-E-L/R    PEFY-P-VMS1(L)-E    PEFY-P-VMH(S)-E    PEFY-P-VMA(L)-E    PEFY-P-VMH-E-F</b> </p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>PEFY-P-VMR-E-L/R</td> <td></td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PEFY-P-VMS1(L)-E</td> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PEFY-P-VMH(S)-E</td> <td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>PEFY-P-VMA(L)-E</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>PEFY-P-VMH-E-F</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> </table>														PEFY-P-VMR-E-L/R		●	●	●											PEFY-P-VMS1(L)-E	●	●	●	●	●	●	●								PEFY-P-VMH(S)-E					●	●	●	●	●	●	●	●	●	●	PEFY-P-VMA(L)-E		●	●	●	●	●	●	●	●	●	●	●	●	●	PEFY-P-VMH-E-F									●	●	●	●	●	●
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Ceiling cassette	 <p style="text-align: center;"> <b>PMFY-P-VBM-E    PLFY-P-VLMD-E    PLFY-P-VCM-E2    PLFY-P-VBM-E</b> </p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>PMFY-P-VBM-E</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PLFY-P-VLMD-E</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td> </tr> <tr> <td>PLFY-P-VCM-E2</td> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td> </tr> <tr> <td>PLFY-P-VBM-E</td> <td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td> </tr> </table>														PMFY-P-VBM-E		●	●	●	●										PLFY-P-VLMD-E		●	●	●	●	●	●		●	●	●				PLFY-P-VCM-E2	●	●	●	●	●	●	●		●	●	●				PLFY-P-VBM-E				●	●	●	●		●	●	●																		
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Ceiling suspended	 <p style="text-align: center;"><b>PCFY-P-VKM-E</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>PCFY-P-VKM-E</td> <td></td><td></td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td></td><td></td> </tr> </table>														PCFY-P-VKM-E					●	●			●	●																																																																
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Floor standing	 <p style="text-align: center;"> <b>PFFY-P-VKM-E2    PFFY-P-VLEM-E    PFFY-P-VLRM-E PFFY-P-VLRMM-E</b> </p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>PFFY-P-VKM-E2</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PFFY-P-VLEM-E</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PFFY-P-VLRM-E</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PFFY-P-VLRMM-E</td> <td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														PFFY-P-VKM-E2		●	●	●	●										PFFY-P-VLEM-E		●	●	●	●	●	●								PFFY-P-VLRM-E		●	●	●	●	●	●								PFFY-P-VLRMM-E		●	●	●	●	●	●																						
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PFFY-P-VLRMM-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-VMR-E-L/R, PEFY-P-VMS1(L)-E, PEFY-P-VMH(S)-E**

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# 1. SPECIFICATIONS

EP-YKM

PEFY

Model		PEFY-P20VMR-E-L/R	PEFY-P25VMR-E-L/R	PEFY-P32VMR-E-L/R		
Power source		1-phase 220-240V 50Hz / 220-230V 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	
	*4	Power input	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
*4	Current input	A	0.29 / 0.29 (220V)	0.29 / 0.29 (220V)	0.34 / 0.38 (220V)	
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	
	*4	Power input	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
	*4	Current input	A	0.29 / 0.29 (220V)	0.29 / 0.29 (220V)	0.34 / 0.38 (220V)
External finish		Galvanized				
External dimension H x W x D		mm	292 x 640 x 580	292 x 640 x 580	292 x 640 x 580	
		in.	11-1/2 x 25-1/4 x 22-7/8	11-1/2 x 25-1/4 x 22-7/8	11-1/2 x 25-1/4 x 22-7/8	
Net weight		kg (lbs)	18 (40)	18 (40)	18 (40)	
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	
	External (220V) static press. (230, 240V)	Pa	5	5	5	
		mmH <sub>2</sub> O	0.5	0.5	0.5	
		Pa	5	5	5	
		*5 mmH <sub>2</sub> O	0.5	0.5	0.5	
	Motor type		1-phase induction motor			
	Motor output	kW	0.018	0.018	0.023	
	Driving mechanism		Direct-driven by motor			
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min	4.8 - 5.8 - 7.9	4.8 - 5.8 - 7.9	4.8 - 5.8 - 9.3	
		L / s	80 - 97 - 132	80 - 97 - 132	80 - 97 - 155	
cfm		170 - 205 - 279	170 - 205 - 279	170 - 205 - 328		
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>	20 - 25 - 30 * (220V)	20 - 25 - 30 * (220V)	20 - 25 - 33 * (220V)		
	dB <A>	21 - 26 - 32 * (230V)	21 - 26 - 32 * (230V)	21 - 26 - 35 * (230V)		
	dB <A>	22 - 27 - 30 * (240V)	22 - 27 - 30 * (240V)	22 - 27 - 33 * (240V)		
	*4					
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 CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	
Field drain pipe size		mm (in.)	O.D. 26mm (1)			
Drawing	External		IU-KB94-C854	IU-KB94-C854	IU-KB94-C854	
	Wiring		IU-KB94-C858	IU-KB94-C858	IU-KB94-C858	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose I.D. 26mm (1) (flexible joint)			
Remark		* Above sound pressure level is tested in rear air inlet case. It will be a little higher in bottom air inlet case.				
Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>	*1 Nominal cooling conditions		*2 Nominal cooling conditions		*3 Nominal heating conditions	
	Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)		27°CDB/19.5°CWB (81°FDB/67°FWB)		20°CDB (68°FDB)	
	Outdoor : 35°CDB (95°FDB)		35°CDB (95°FDB)		7°CDB/6°CWB (45°FDB/43°FWB)	
	Pipe length : 7.5 m (24-9/16 ft)		5 m (16-3/8 ft)		7.5 m (24-9/16 ft)	
	Level difference : 0 m (0 ft)		0 m (0 ft)		0 m (0 ft)	
				Unit converter		
				kcal/h = kW x 860		
				BTU/h = kW x 3,412		
				cfm = m <sup>3</sup> /min x 35.31		
				lbs = kg / 0.4536		
				*Above specification data is subject to rounding variation.		
				* Nominal conditions *1, *3 are subject to JIS B8615-2.		
				* Due to continuing improvement, above specification may be subject to change without notice.		
				*4 The values are measured at the factory setting of external static pressure.		
				*5 The external static pressure is set to 5 Pa and 0.5 mmH <sub>2</sub> O.		

# 1. SPECIFICATIONS

Model		PEFY-P15VMS1(L)-E	PEFY-P20VMS1(L)-E	PEFY-P25VMS1(L)-E	PEFY-P32VMS1(L)-E		
Power source		220-240V (50/60Hz)					
Cooling capacity (Nominal)	*1	kW	1.7	2.2	2.8	3.6	
	*1	kcal / h	1,450	1,900	2,400	3,100	
		BTU / h	5,800	7,500	9,600	12,300	
	*2	kcal / h	1,500	2,000	2,500	3,150	
	*4	Power input	kW	0.05<0.03>	0.05<0.03>	0.06<0.04>	0.07<0.05>
*4	Current input	A	0.42<0.31>	0.47<0.36>	0.50<0.39>	0.50<0.39>	
Heating capacity (Nominal )	*3	kW	1.9	2.5	3.2	4.0	
	*3	kcal / h	1,600	2,200	2,800	3,400	
		BTU / h	6,500	8,500	10,900	13,600	
	*4	Power input	kW	0.03<0.03>	0.03<0.03>	0.04<0.04>	0.05<0.05>
	*4	Current input	A	0.31<0.31>	0.36<0.36>	0.39<0.39>	0.39<0.39>
External finish		Galvanized					
External dimension H x W x D		mm	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700	
		in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	
Net weight		kg (lbs)	19(42)<18(40)>	19(42)<18(40)>	19(42)<18(40)>	20(44)<19(42)>	
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 (220V) static press. (230, 240V)	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
		mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
		*5	mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>
	Motor type		DC motor				
	Motor output		kW	0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven				
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min		5 - 6 - 7	5.5 - 6.5 - 8	5.5 - 7 - 9	6 - 8 - 10
		L / s		83 - 100 - 117	91 - 108 - 133	91 - 117 - 150	100 - 133 - 167
cfm		176 - 212 - 247	194 - 229 - 282	194 - 247 - 317	212 - 282 - 353		
Sound pressure level (Low-Mid-High) (measured in anechoic room) *4		dB <A>	22 - 24 - 28(15Pa,220-240V)	23 - 25 - 29(15Pa,220-240V)	24 - 26 - 30(15Pa,220-240V)	24 - 27 - 32(15Pa,220-240V)	
Insulation material		Polystyrene foam, Polyethylene foam, Urethane foam					
Air filter		PP Honeycomb fabric (washable)					
Protection device		Fuse					
Refrigerant control device		LEV					
Connectable outdoor unit		PURY-P-Y(S)JM-A,PUHY-P-Y(S)JM-A PUMY-P-VHMB,PUMY-P-YHMB PQRY-P-Y(S)HM-A,PQHY-P-Y(S)HM-A		R410A CITY MULTI			
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)				
Drawing	External		IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	IU-KB94-G728<IU-KB94-G731>	
	Wiring		IU-KB94-G668	IU-KB94-G668	IU-KB94-G668	IU-KB94-G668	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose (flexible joint)				
Remark	Optional parts						
	Drain pump		<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>	
	Control Box Replace kit		<PAC-KE70HS-E>	<PAC-KE70HS-E>	<PAC-KE70HS-E>	<PAC-KE70HS-E>	
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31 lbs = kg / 0.4536		
* Nominal conditions *1, *3 are subject to JIS B8615-2.		* Due to continuing improvement, above specification may be subject to change without notice.		* The external static pressure is set to 15 Pa at factory shipment. * < > is in case of PEFY-P-VMS1L-E model.		*Above specification data is subject to rounding variation.	
*4 The values are measured at the factory setting of external static pressure. *5 The factory setting of external static pressure is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.							



# 1. SPECIFICATIONS

EP-YKM

PEFY

Model		PEFY-P40VMS1(L)-E	PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E		
Power source		220-240V (50/60Hz)				
Cooling capacity (Nominal)	*1	kW	4.5	5.6	7.1	
	*1	kcal / h	3,900	4,800	6,100	
	*1	BTU / h	15,400	19,100	24,200	
	*2	kcal / h	4,000	5,000	6,300	
	*4	Power input	kW	0.07<0.05>	0.09<0.07>	0.09<0.07>
*4	Current input	A	0.56<0.45>	0.67<0.56>	0.72<0.61>	
Heating capacity (Nominal)	*3	kW	5.0	6.3	8.0	
	*3	kcal / h	4,300	5,400	6,900	
	*3	BTU / h	17,100	21,500	27,300	
	*4	Power input	kW	0.05<0.05>	0.07<0.07>	0.07<0.07>
	*4	Current input	A	0.45<0.45>	0.56<0.56>	0.61<0.61>
External finish		Galvanized				
External dimension H x W x D		mm	200 x 990 x 700	200 x 990 x 700	200 x 1190 x 700	
		in.	7-7/8 x 39 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16	
Net weight		kg (lbs)	24(53)<23(51)>	24(53)<23(51)>	28(62)<27(60)>	
Heat exchanger		Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4	
	External (220V) static press. (230, 240V)	Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
		mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
		Pa	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	<5> - 15 - <35> - <50>	
	*5	mmH <sub>2</sub> O	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	<0.5> - 1.5 - <3.6> - <5.1>	
	Motor type		DC motor			
	Motor output		kW	0.096	0.096	0.096
	Driving mechanism		Direct-driven			
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min		8 - 9.5 - 11	9.5 - 11 - 13	12 - 14 - 16.5
		L / s		133 - 158 - 183	158 - 183 - 217	200 - 233 - 275
cfm		282 - 335 - 388	335 - 388 - 459	424 - 494 - 583		
Sound pressure level (Low-Mid-High) (measured in anechoic room) *4		dB <A>	28 - 30 - 33 (15Pa,220-240V)	30 - 32 - 35(15Pa,220-240V)	30 - 33 - 36 (15Pa,220-240V)	
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 CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø9.52 (ø3/8) Brazed	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)			
Drawing	External		IU-KB94-G728(IU-KB94-G731)	IU-KB94-G728(IU-KB94-G731)	IU-KB94-G728(IU-KB94-G731)	
	Wiring		IU-KB94-G668	IU-KB94-G668	IU-KB94-G668	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose (flexible joint)			
Remark	Optional parts					
	Drain pump		<PAC-KE07DM-E>	<PAC-KE07DM-E>	<PAC-KE07DM-E>	
	Control Box Replace kit		<PAC-KE70HS-E>	<PAC-KE70HS-E>	<PAC-KE70HS-E>	
Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31 lbs = kg / 0.4536	
* Nominal conditions *1, *3 are subject to JIS B8615-2.		* Due to continuing improvement, above specification may be subject to change without notice.		* The external static pressure is set to 15 Pa at factory shipment. * < > is in case of PEFY-P-VMS1L-E model.		
*4 The values are measured at the factory setting of external static pressure.		*5 The factory setting of external static pressure is shown without < >.				
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.						

# 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	
	*1	kcal / h	3,900	4,800	6,100	6,900	
	*1	BTU / h	15,400	19,100	24,200	27,300	
	*2	kcal / h	4,000	5,000	6,300	7,100	
	*4	Power input	kW	0.19 / 0.23	0.19 / 0.23	0.24 / 0.30	0.26 / 0.33
*4	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	
	*3	kcal / h	4,300	5,400	6,900	7,700	
	*3	BTU / h	17,100	21,500	27,300	30,700	
	*4	Power input	kW	0.19 / 0.23	0.19 / 0.23	0.24 / 0.30	0.26 / 0.33
	*4	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 (lbs)	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	Sirocco fan x 1	Sirocco fan x 1	
	External (220V) static press. (230, 240V)	Pa	<50> - 100 - <200>	<50> - 100 - <200>	<50> - 100 - <200>	<50> - 100 - <200>	
		mmH <sub>2</sub> 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>	<100> - 150 - <200>	<100> - 150 - <200>	<100> - 150 - <200>	
	*5	mmH <sub>2</sub> 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	0.080	0.080	0.120	0.140
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min		10.0 - 14.0	10.0 - 14.0	13.5 - 19.0	15.5 - 22.0
		L / s		167 - 233	167 - 233	225 - 317	258 - 367
cfm		353 - 494	353 - 494	477 - 671	547 - 777		
Sound pressure level (Low-Mid-High) (measured in anechoic room) *4		dB <A>	27 - 34 (220V)	27 - 34 (220V)	32 - 38 (220V)	32 - 39 (220V)	
		dB <A>	31 - 37 (230, 240V)	31 - 37 (230, 240V)	36 - 41 (230, 240V)	35 - 41 (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 CITY MULTI					
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)				
Drawing	External		IU-W27-5924				
	Wiring		IU-W65-3956				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose I.D. 32mm (1-1/4) (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		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.					
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31			
Level difference : 0 m (0 ft)		0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536			
* Nominal conditions *1, *3 are subject to JIS B8615-2.							
* Due to continuing improvement, above specification may be subject to change without notice.							
*4 The values are measured at the factory setting of external static pressure.							
*5 The factory setting of external static pressure is shown without < >.							
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.							
		*Above specification data is subject to rounding variation.					

# 1. SPECIFICATIONS

EP-YKM

PEFY

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	
	*1	kcal / h	7,700	9,600	12,000	13,800	
	*1	BTU / h	30,700	38,200	47,800	54,600	
	*2	kcal / h	8,000	10,000	12,500	14,000	
	*4	Power input	kW	0.32 / 0.40	0.48 / 0.58	0.48 / 0.58	0.48 / 0.59
	*4	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	
	*3	kcal / h	8,600	10,800	13,800	15,500	
	*3	BTU / h	34,100	42,700	54,600	61,400	
	*4	Power input	kW	0.32 / 0.40	0.48 / 0.58	0.48 / 0.58	0.48 / 0.59
	*4	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 (lbs)	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 (220V) static press. (230, 240V)	Pa	<50> - 100 - <200>	<50> - 100 - <200>	<50> - 100 - <200>	<50> - 100 - <200>	
		mmH <sub>2</sub> 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>	<100> - 150 - <200>	<100> - 150 - <200>	<100> - 150 - <200>	
		*5	mmH <sub>2</sub> 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 <sup>3</sup> / 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		
Sound pressure level (Low-Mid-High) (measured in anechoic room) *4		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 CITY MULTI					
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	
	Gas (R410A)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)				
Drawing	External		IU-W27-5924				
	Wiring		IU-W65-3956				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose I.D. 32mm (1-1/4) (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		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.				
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31		
		Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536		
		* Nominal conditions *1, *3 are subject to JIS B8615-2.				*Above specification data is subject to rounding variation.	
		* Due to continuing improvement, above specification may be subject to change without notice.					
		*4 The values are measured at the factory setting of external static pressure.					
		*5 The factory setting of external static pressure is shown without < > .					
		Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.					

# 1. SPECIFICATIONS

EP-YKM

PEFY

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		
	*1	kcal / h	19,300	24,100		
	*1	BTU / h	76,400	95,500		
	*2	kcal / h	20,000	25,000		
	*4	Power input	kW	0.99 / 1.14	1.23 / 1.41	
*4	Current input	A	1.62 / 1.86	2.0 / 2.3		
Heating capacity (Nominal )	*3	kW	25.0	31.5		
	*3	kcal / h	21,500	27,100		
	*3	BTU / h	85,300	107,500		
	*4	Power input	kW	0.99 / 1.14	1.23 / 1.41	
	*4	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 (lbs)	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 (380V) static press. (400, 415V)	Pa	110- 220	110- 220		
		mmH <sub>2</sub> O	11.2- 22.4	11.2- 22.4		
		Pa	130- 260	130- 260		
		*5 mmH <sub>2</sub> 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 <sup>3</sup> / min	58	72		
		L / s	967	1,200		
cfm		2,048	2,543			
Sound pressure level (Low-Mid-High) (measured in anechoic room)	*4	dB <A>	42 / 45 (380V)	50 / 52 (380V)		
		dB <A>	44 / 47 (400, 415V)	52 / 54 (400, 415V)		
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 CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed		
	Gas (R410A)	mm (in.)	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed		
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)			
Drawing	External		IU-W27-5925			
	Wiring		IU-W65-3957			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory		Drain hose I.D. 32mm (1-1/4) (flexible joint)			
Remark	Optional parts					
	Long life filter		PAC-KE85LAF	PAC-KE85LAF		
	Filter box		PAC-KE250TB-F	PAC-KE250TB-F		
	Drain pump		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.				
<b>Note :</b>		*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	*Above specification data is subject to rounding variation.	
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 <sup>3</sup> /min x 35.31		
Level difference : 0 m (0 ft)		0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536		
* Nominal conditions *1, *3 are subject to JIS B8615-2.						
* Due to continuing improvement, above specification may be subject to change without notice.						
*4 The values are measured at the factory setting of external static pressure.						
*5 The factory setting of external static pressure is shown without < >.						
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.						

# 1. SPECIFICATIONS

EP-YKM

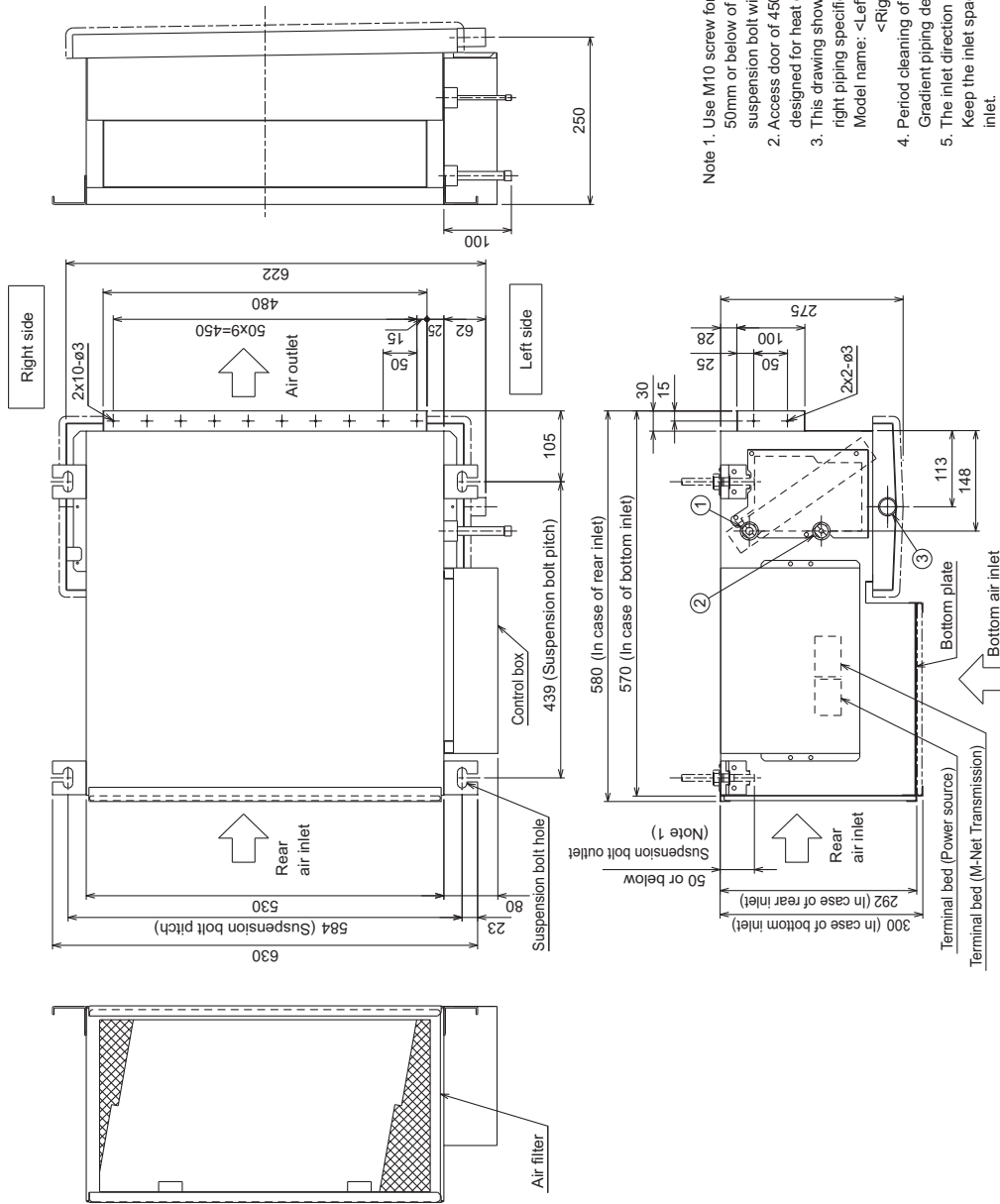
PEFY

Model		PEFY-P200VMHS-E	PEFY-P250VMHS-E		
Power source		1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 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	Power input	kW	0.63	0.82
	*2	Current input	A	3.47 - 3.32 - 3.18 (220-230-240V)	4.72 - 4.43 - 4.14 (220-230-240V)
Heating capacity (Nominal)	*3	kW	25.0	31.5	
	*3	kcal / h	21,500	27,100	
	*3	BTU / h	85,300	107,500	
	*2	Power input	kW	0.63	0.82
	*2	Current input	A	3.47 - 3.32 - 3.18 (220-230-240V)	4.72 - 4.43 - 4.14 (220-230-240V)
External finish		Galvanized steel plate	Galvanized steel plate		
External dimension HxWxD		mm	470 x 1,250 x 1,120	470 x 1,250 x 1,120	
		inch	18-1/2 x 49-1/4 x 44-1/8	18-1/2 x 49-1/4 x 44-1/8	
Net weight		kg(lbs)	97(214)	100(221)	
Heat exchanger		Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	
	*4	External static press.	Pa	<50> - <100> - 150 - <200> - <250>	<50> - <100> - 150 - <200> - <250>
			mmH <sub>2</sub> O	<5.1> - <10.2> - 15.3 - <20.4> - <25.5>	<5.1> - <10.2> - 15.3 - <20.4> - <25.5>
	Motor Type		DC motor	DC motor	
	Motor output		kW	0.870	0.870
	Driving mechanism		Inverter-control	Inverter-control	
	Air flow rate		(Low-Mid-High)		(Low-Mid-High)
			m <sup>3</sup> / min	50.0 - 61.0 - 72.0	58.0 - 71.0 - 84.0
			L/s	833 - 1,017 - 1,200	967 - 1,183 - 1,400
cfm		1,766 - 2,154 - 2,542	2,048 - 2,507 - 2,966		
Sound pressure level (measured in anechoic room)		(Low-Mid-High)		(Low-Mid-High)	
*2		dB <A>	36-39-43	39-42-46	
Insulation material		EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam		
Air filter		Option:Synthetic fiber un- woven cloth filter(long life filter) and filter box are recom- mended.	Option:Synthetic fiber un- woven cloth filter(long life filter) and filter box are recom- mended.		
Protection device		Fuse	Fuse		
Refrigerant control device		LEV	LEV		
Connectable outdoor unit		R410A CITY MULTI	R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)	mm(inch)	9.52(3/8")Braze	9.52(3/8")Braze	
	Gas (R410A)	mm(inch)	19.05(3/4")Braze	22.22(7/8")Braze	
Field drain pipe size		mm(inch)	O.D.32(1-1/4")	O.D.32(1-1/4")	
Drawing	External		KD94G757	KD94G757	
	Wiring		KD94G911	KD94G911	
	Refrigerant cycle		-	-	
Standard attachment	Document		Installation Manual, Instruc- tion Book	Installation Manual, Instruc- tion Book	
	Accessory		Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Drain pump kit		PAC-KE05DM-F	PAC-KE05DM-F	
	Long life filter		PAC-KE85LAF	PAC-KE85LAF	
	Filter box		PAC-KE250TB-F	PAC-KE250TB-F	
Remark		* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :	Unit converter
1.Nominal cooling conditions(subject to JIS B8615-2) Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB) Pipe length:7.5m(24-9/16"ft.), Level difference:0m(0ft.)	kcal =kW x 860
2.The values are measured at the factory setting of external static pressure.	BTU/h =kW x 3,412
3.Nominal heating conditions(subject to JIS B8615-2) Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB) Pipe length:7.5m(24-9/16"ft.) Level, difference:0m(0ft.)	cfm =m <sup>3</sup> /min x 35.31
4.The factory setting of external static pressure is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.

## PEFY-P20,25,32VMR-E-L/R

Unit : mm



- Note 1. Use M10 screw for the suspension bolt (field supply).  
50mm or below of clearance between the indoor unit top and the end of the suspension bolt will make maintenance of the indoor heat exchanger easier.
2. Access door of 450mmx450mm at the ceiling under the drain pan should be designed for heat exchanger cleaning and maintenance.
3. This drawing shows the left piping specification. The symmetry shows the right piping specification.  
Model name: <Left piping> PEFY-P20 · 25 · 32VMR-E-L  
<Right piping> PEFY-P20 · 25 · 32VMR-E-R
4. Period cleaning of drain pan will prevent water overflowing.  
Gradient piping design is needed for water draining.
5. The inlet direction can be changed between rear inlet and bottom inlet.  
Keep the inlet space between the ceiling and the unit in case of bottom inlet.

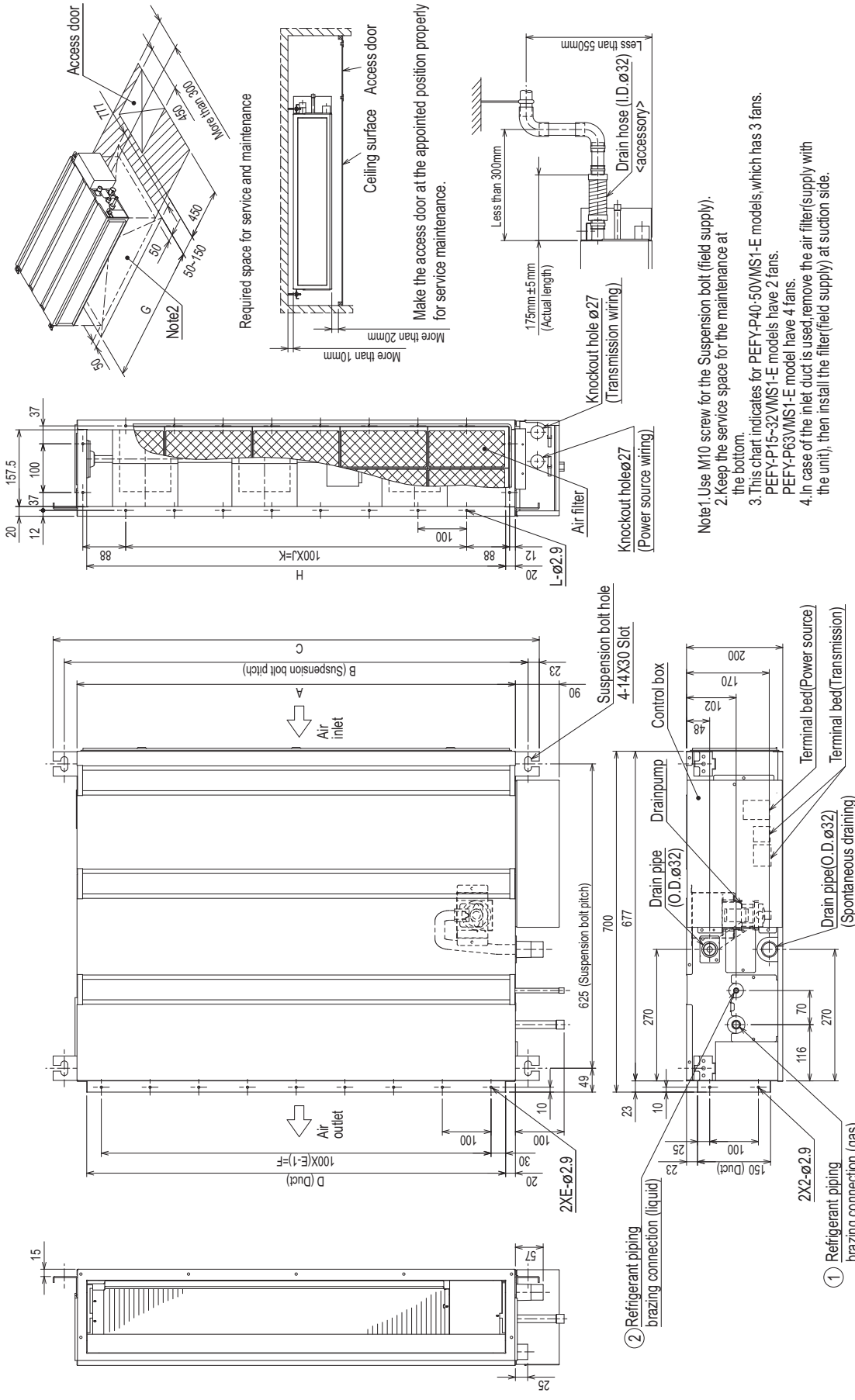
# 2. EXTERNAL DIMENSIONS

EP-YKM

PEFY

## PEFY-P15,20,25,32,40,50,63VMS1-E

Unit : mm



Model	A	B	C	D	E	F	G	H	J	K	L	① Gas pipe	② Liquid pipe
PEFY-P15,20,25,32VMS1-E	700	752	798	660	7	600	800	660	5	500	16	ø12.7	ø6.35
PEFY-P40VMS1-E	900	962	998	860	9	800	1000	860	7	700	20	ø12.7	ø6.35
PEFY-P50VMS1-E	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	ø15.88	ø9.52







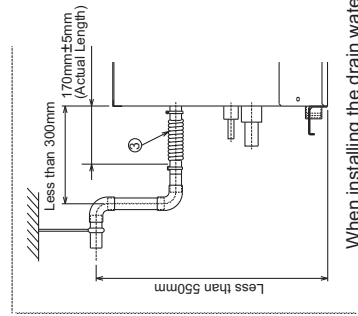
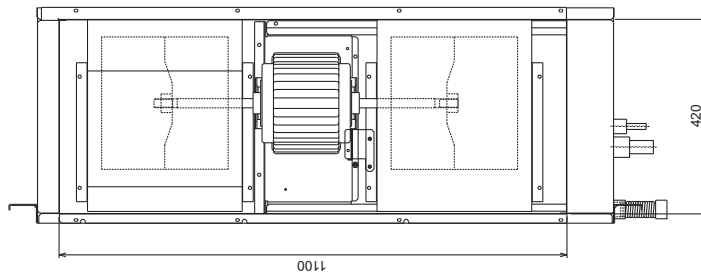
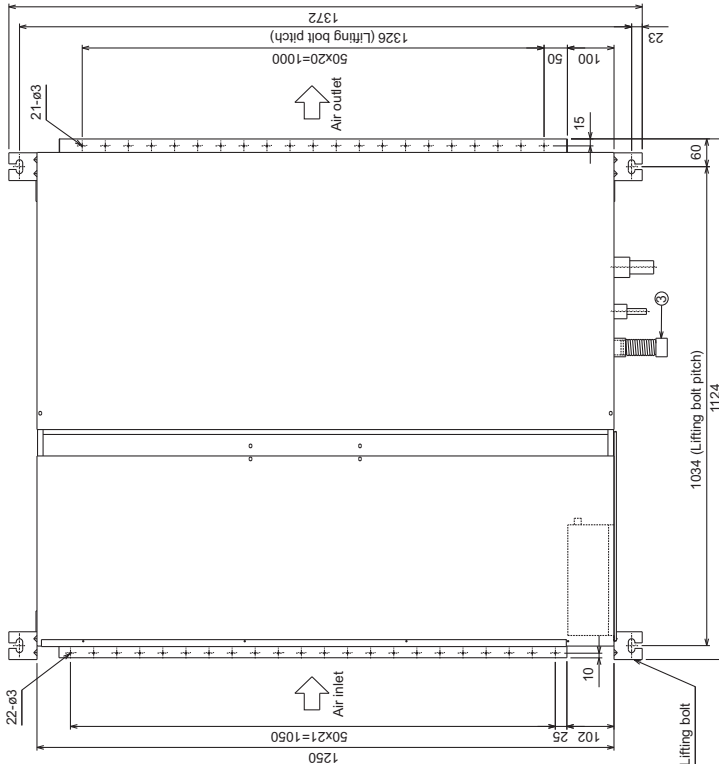
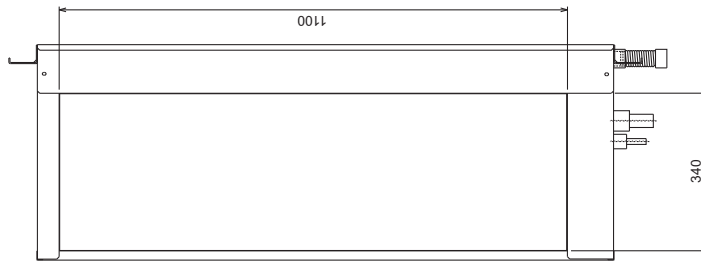
## PEFY-P200, 250VMH-E

Unit : mm

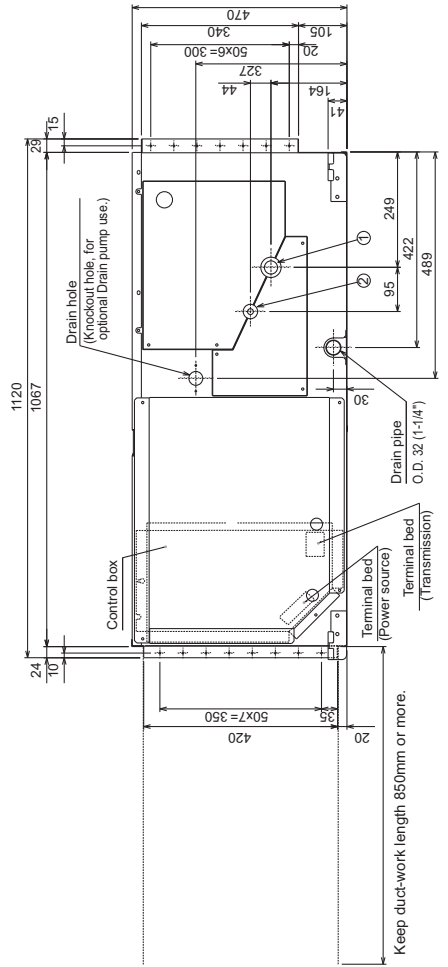
- Note : 1. Use M10 screw for the lifting bolt (field supply).  
 2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.  
 3. Make sure to install the air filter (field supply) on the air intake side. In case field supplied air filter is used, attach it where the filter service is easily done.

Model	A	B
P200VMH-E	ø19.05	ø9.52
P250VMH-E	ø22.2	ø9.52

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



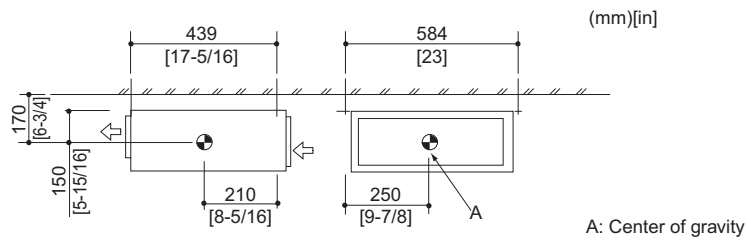
When installing the drain water lifting-up mech(option).



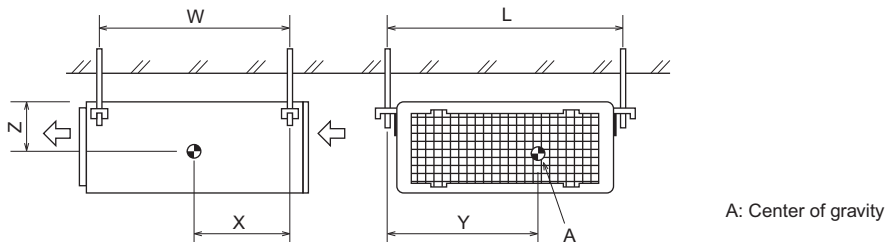
Keep duct-work length 850mm or more.



#### PEFY-P20, 25, 32VMR-E/L/R

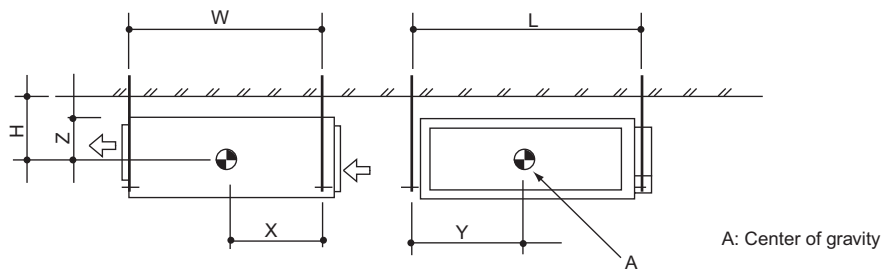


#### PEFY-P15,20,25,32,40,50,63VMS1(L)-E



Model name	W	L	X	Y	Z
PEFY-P15VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-P20VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-P25VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	263 [10-3/8]	338 [13-5/16]	105 [4-5/32]
PEFY-P32VMS1(L)-E	625 [24-5/8]	752 [29-5/8]	275 [10-27/32]	340 [13-13/32]	104 [4-1/8]
PEFY-P40VMS1(L)-E	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-P50VMS1(L)-E	625 [24-5/8]	952 [37-1/2]	280 [11-1/32]	422 [16-5/8]	104 [4-1/8]
PEFY-P63VMS1(L)-E	625 [24-5/8]	1152 [45-3/8]	285 [11-1/4]	511 [20-1/8]	104 [4-1/8]

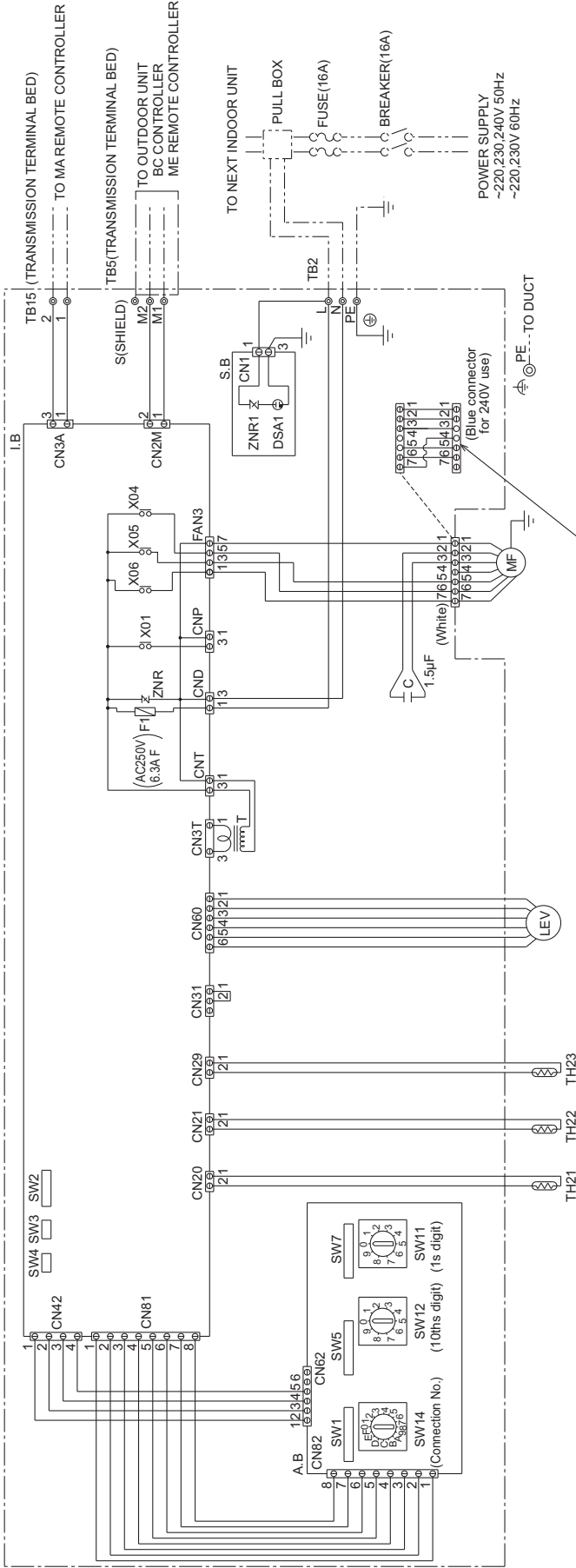
#### PEFY-P40,50,63,71,80,100,125,140,200,250VMH(S)-E



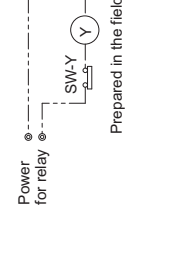
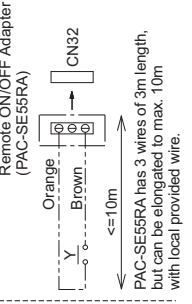
Model name	W	L	H	X	Y	Z
PEFY-P40VMH-E	814 [32-1/16]	754 [29-11/16]	210 [8-9/32]	374 [14-3/4]	440 [17-11/32]	190 [7-1/2]
PEFY-P50VMH-E	814 [32-1/16]	754 [29-11/16]	210 [8-9/32]	374 [14-3/4]	440 [17-11/32]	190 [7-1/2]
PEFY-P63VMH-E	814 [32-1/16]	754 [29-11/16]	210 [8-9/32]	374 [14-3/4]	440 [17-11/32]	190 [7-1/2]
PEFY-P71VMH-E	814 [32-1/16]	1004 [39-17/32]	210 [8-9/32]	394 [15-17/32]	584 [22-32/32]	190 [7-1/2]
PEFY-P80VMH-E	814 [32-1/16]	1004 [39-17/32]	210 [8-9/32]	394 [15-17/32]	584 [22-32/32]	190 [7-1/2]
PEFY-P100VMH-E	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P125VMH-E	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P140VMH-E	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P200VMH(S)-E	1034 [40-23/32]	1326 [52-7/32]	255 [10-1/16]	462 [18-7/32]	660 [25-32/32]	235 [9-9/32]
PEFY-P250VMH(S)-E	1034 [40-23/32]	1326 [52-7/32]	255 [10-1/16]	462 [18-7/32]	660 [25-32/32]	235 [9-9/32]

PEFY-P20,25,32VMR-E-L/R

INSIDE SECTION OF CONTROL BOX



At factory shipment, the motor connector is connected for 220-230V power. If 240V power is used, insert the attached Blue connector between the Motor connector and White connector from indoor board.  
 Connector color: for power source  
 White: 220V/230V  
 Blue: 240V



SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH21	Thermistor (inlet temp. detection)
C	Capacitor (for MF) 1.5μF	TH22	Thermistor (piping temp. detection/liquid)
I.B	Indoor controller board	TH23	Thermistor (piping temp. detection/gas)
A.B	Address board	SW1(A,B)	Switch (1s digit address set)
TB2	Power source terminal bed	SW2(A,B)	Switch (10ths digit address set)
TB5	Transmission terminal bed	SW4(A,B)	Switch (connection No. set)
TB15	Transmission terminal bed	SW1(A,B)	Switch (for mode selection)
F1	Fuse AC250V 6.3A F	SW2(I,B)	Switch (for capacity code)
T	Transformer	SW3(I,B)	Switch (for mode selection)
LEV	Electronic linear expansion valve	SW4(I,B)	Switch (for model selection)
S.B	Surge absorber board	SW5(A,B)	Switch (for voltage selection)
X04-X06	Aux. relay	SW7(A,B)	Switch (for mode selection)

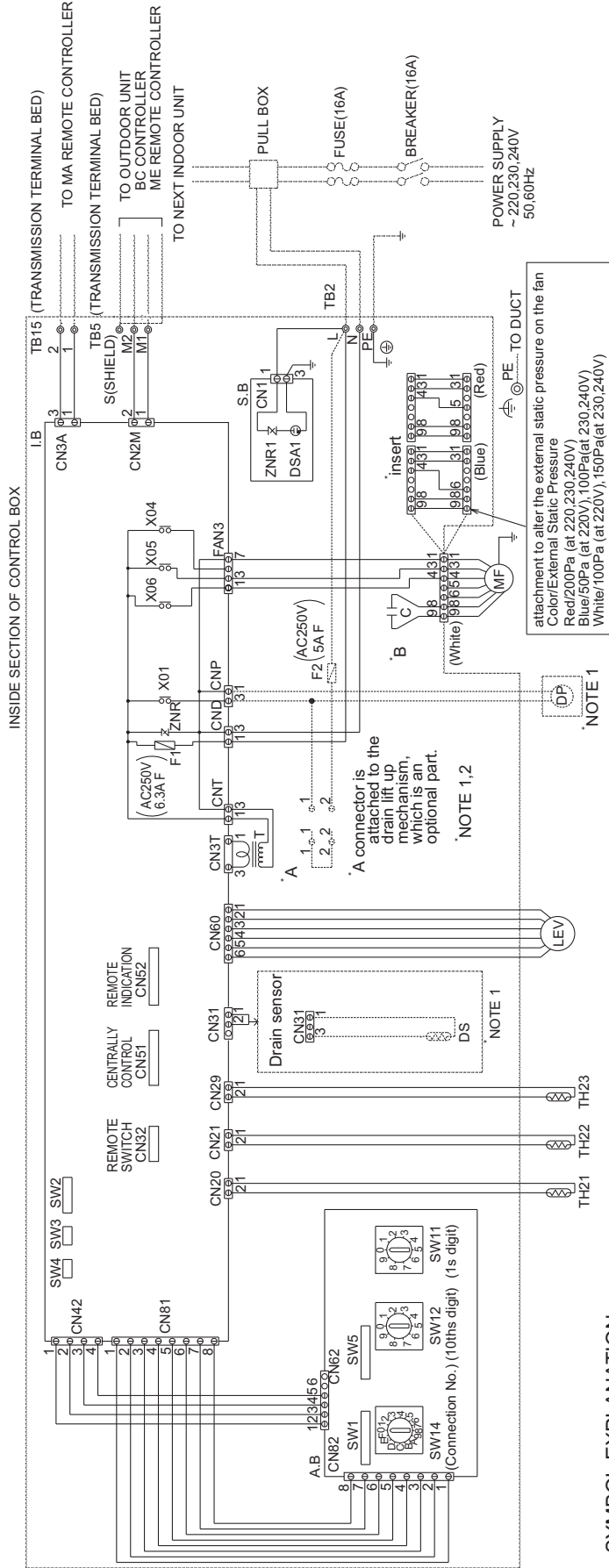
SW-Y	Status	Display and operation at Local Remote Controller
OFF	Obey to local remote controller (Allowed)	Operation permitted
ON	Remote - OFF	"Central control" displayed. Local Remote Controller operation prohibited (not functioning)

Y: Aux. relay (Load  $\geq$  12VDC 1mA)

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.



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



### SYMBOL EXPLANATION

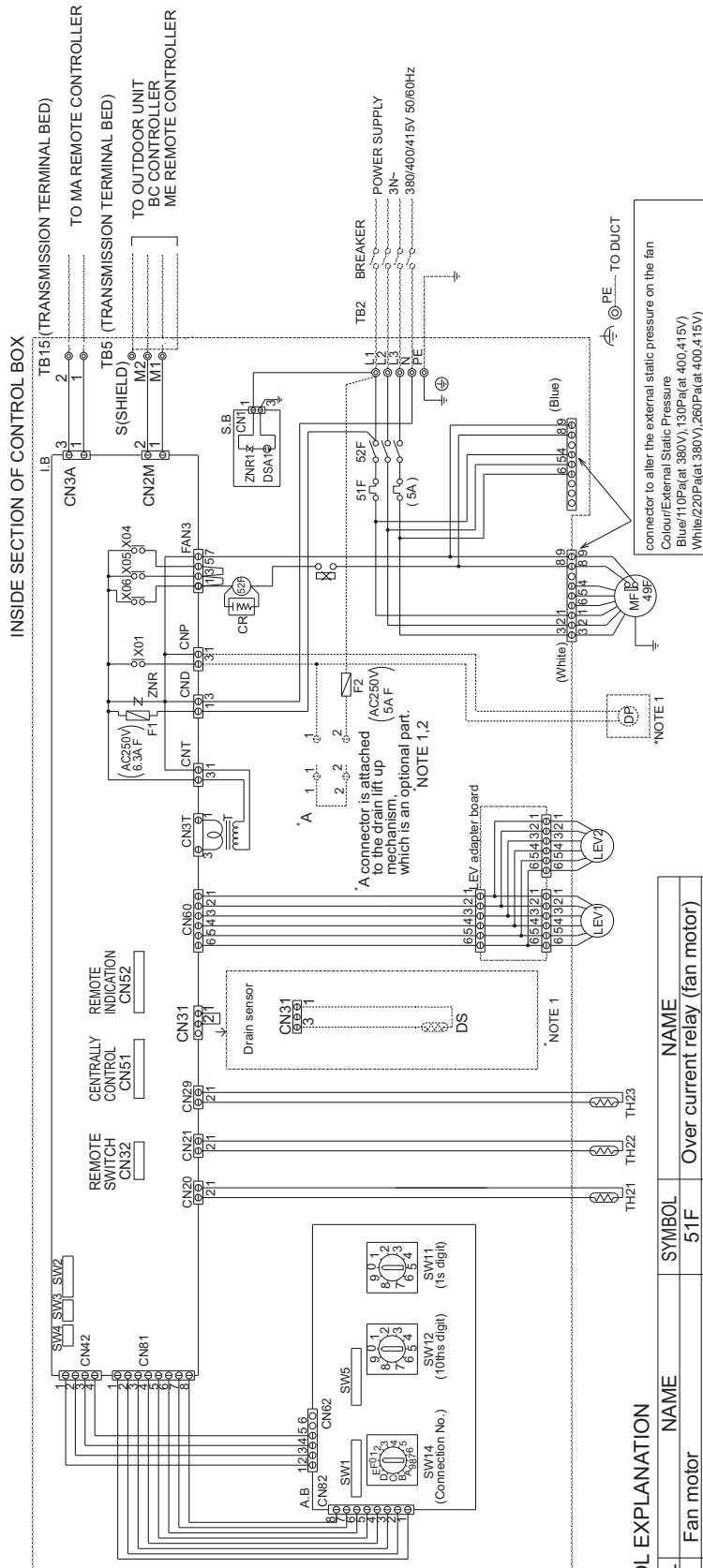
SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	S.B	Surge absorber board
C	B Capacitor (for MF)	TH21	Thermistor (inlet temp. detection)
I.B	Indoor controller board	TH22	Thermistor (piping temp. detection/liquid)
A.B	Address board	TH23	Thermistor (piping temp. detection/gas)
TB2	Power source terminal bed	SW11(A,B)	Switch (1s digit address set)
TB5	Transmission terminal bed	SW12(A,B)	Switch (10ths 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(I,B)	Switch (for capacity code)
T	Transformer	SW3(I,B)	Switch (for mode selection)
<DP>	Drain Pump	SW4(I,B)	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 3.0μF  
 MODEL 63 4.0μF  
 MODELS 71/80 5.0μF  
 MODELS 100/125/140 7.0μF

PEFY-P200,250VMH-E



**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 (1s digit address set)
TB15	Transmission terminal bed	SW12(A,B)	Switch (10ths digit address set)
F1	Fuse AC250V/6.3A F	SW14(A,B)	Switch (connection No. set)
<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

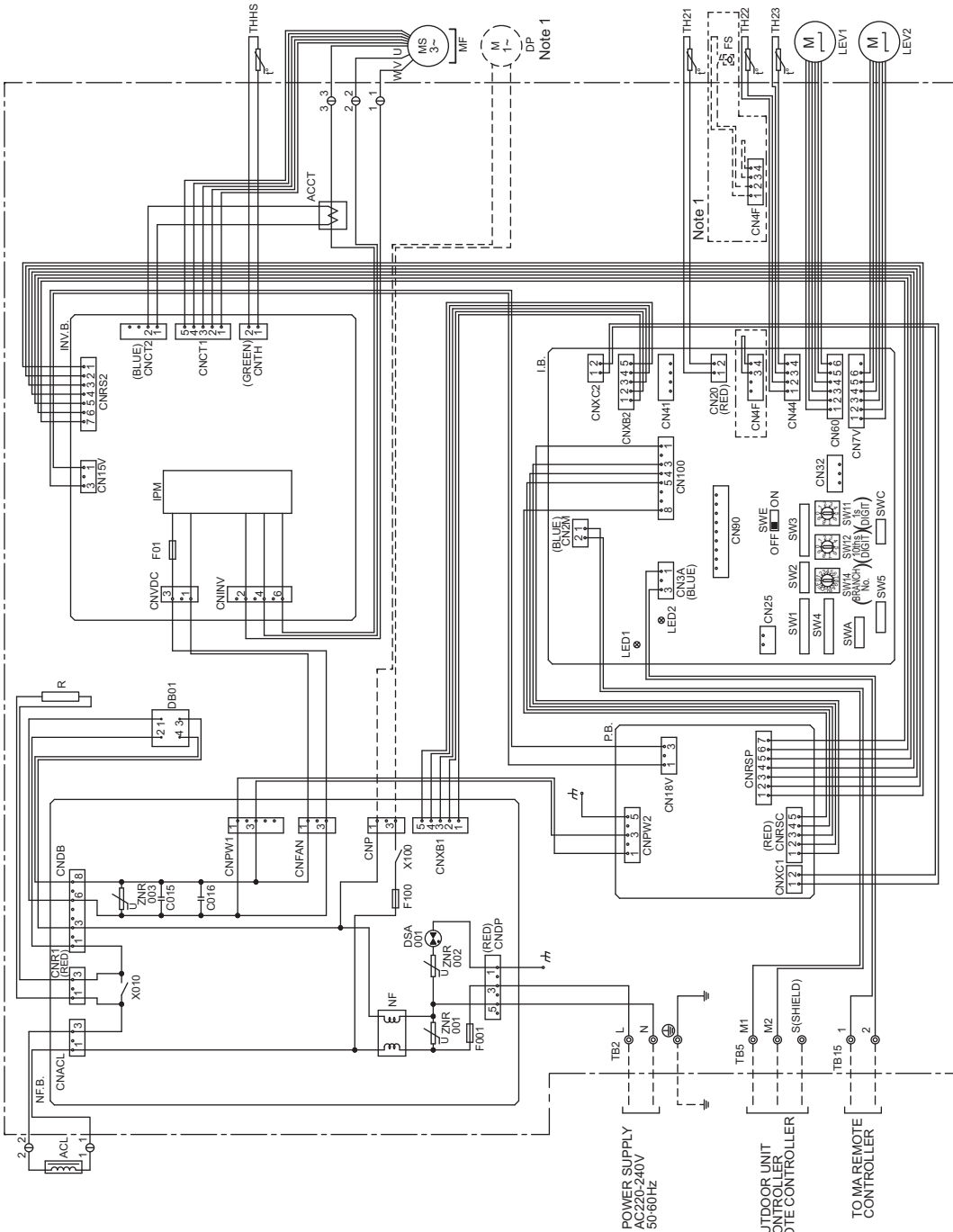
inside < > is the optional parts



## PEFY-P200,P250VMHS-E

SYMBOL	EXPLANATION	NAME
I.B.		
CN25	Indoor controller board	
CN32	Connector (Remote switch)	
CN41	Connector (HA terminal-A)	
CN90	Connector (Wireless)	
SW1	Switch (for mode selection)	
SW2	Switch (for capacity code)	
SW3	Switch (for mode selection)	
SW4	Switch (for model selection)	
SW5	Switch (for mode selection)	
SW11	Switch (10ths digit address set)	
SW12	Switch (10ths digit address set)	
SW14	Switch (BRANCH No.)	
SWA	Switch (for static pressure selection)	
SWC	Switch (for static pressure selection)	
SWE	Connector (emergency operation)	
NF.B.		
DSA001	Noise filter board	
ZNR01~	Arrestor	
ZNR03	Varistor	
X010.X100	Aux. relay	
F001	Fuse(AC250V 10A)	
F100	Fuse(3.15A)	
NF	Noise filter	
P.B.	Power supply board	
INV.B.	Inverter board	
IPM	Intelligent power module	
F01	Fuse(AC250V 15A)	
TB2	Power source terminal block	
TB5	Transmission terminal block	
TB15	Transmission terminal block	
TH21	Thermistor (inlet air temp.detection)	
TH22	Thermistor (piping temp.detection/liquid)	
TH23	Thermistor (piping temp.detection/gas)	
THHS	Thermistor(heatsink)	
MF	Fan motor	
LEV1,LEV2	Electronic linear expans.valve	
ACL	AC reactor (Power factor improvement)	
R	Resistor	
DB01	Diode bridge	
ACCT	Current Sensor (AC)	
LED1	LED (Power supply)	
LED2	LED (Remote controller supply)	
<DP>	Drain pump	
<FS>	Float switch	
	Inside <	> is the optional parts.

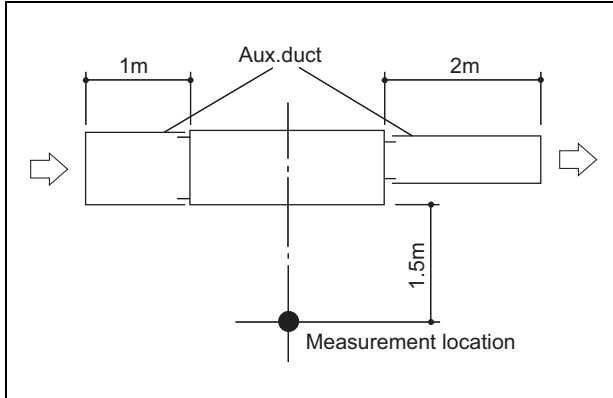
### INSIDE SECTION OF CONTROL BOX



NOTE:1 The part of thin dotted line indicates the circuit for optional parts.  
 2. To perform a drainage test for the drain pump turn on the SWE on the control board while the indoor unit is being powered.  
 \*Be sure to turn off the SWE after completing a drainage test or test run.  
 3. The wirings to TB2, TB5, TB15 shown in dotted line are field work.  
 4. Mark Ⓞ indicates terminal block, ⊕ connector.

## 5-1. Sound levels

PEFY-P-VMR-E-L/R,VMS1(L)-E,VMH(S)-E



\* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

		Sound level dB ( A )	
PEFY-P20VMR-E-L/R	220V	20 - 25 - 30	
	230V	21 - 26 - 32	
	240V	22 - 27 - 30	
PEFY-P25VMR-E-L/R	220V	20 - 25 - 30	
	230V	21 - 26 - 32	
	240V	22 - 27 - 30	
PEFY-P32VMR-E-L/R	220V	20 - 25 - 33	
	230V	21 - 26 - 35	
	240V	22 - 27 - 33	

Sound level at anechoic room : Low-Mid-High

		Sound level dB ( A )				
		5Pa	15Pa	35Pa	50Pa	
PEFY-P15VMS1(L)-E	220-240V	22 - 24 - 26	22 - 24 - 28	23 - 26 - 29	23 - 27 - 30	
PEFY-P20VMS1(L)-E	220-240V	22 - 25 - 28	23 - 25 - 29	24 - 27 - 30	25 - 28 - 32	
PEFY-P25VMS1(L)-E	220-240V	22 - 25 - 29	23 - 26 - 30	24 - 28 - 31	25 - 29 - 33	
PEFY-P32VMS1(L)-E	220-240V	23 - 27 - 30	23 - 27 - 32	24 - 28 - 33	25 - 29 - 34	
PEFY-P40VMS1(L)-E	220-240V	26 - 28 - 30	28 - 30 - 33	30 - 32 - 35	31 - 33 - 36	
PEFY-P50VMS1(L)-E	220-240V	29 - 31 - 34	30 - 32 - 35	31 - 34 - 37	32 - 34 - 38	
PEFY-P63VMS1(L)-E	220-240V	29 - 32 - 35	30 - 33 - 36	31 - 35 - 39	32 - 36 - 40	

Sound level at anechoic room : Low-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
PEFY-P140VMH-E	230,240V	36 - 42	38 - 44	38 - 47
PEFY-P200VMH-E	380V	42	-	45
	400,415V	44	-	47
PEFY-P250VMH-E	380V	50	-	52
	400,415V	52	-	54

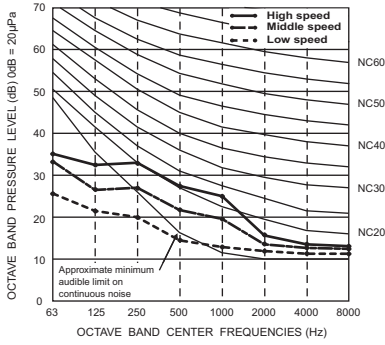
\* External static pressure of PEFY-P40-140VMH-E  
 Low : 50Pa at 220V, 100Pa at 230, 240V  
 Mid : 100Pa at 220V, 150Pa at 230, 240V  
 High : 200Pa at 220V, 200Pa at 230, 240V  
 \* External static pressure of PEFY-P200-250VMH-E  
 Low : 110Pa at 380V, 130Pa at 400,415V  
 High : 220Pa at 380V, 260Pa at 400,415V

Sound level at anechoic room : Low-Mid-High

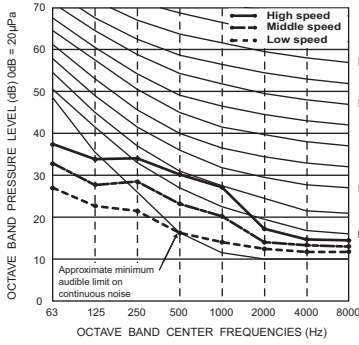
		Sound level dB (A)				
		50Pa	100Pa	150Pa	200Pa	250Pa
PEFY-P200VMHS-E	220-240V	32 - 35 - 39	34 - 37 - 41	36 - 39 - 43	38 - 41 - 45	40 - 43 - 47
PEFY-P250VMHS-E	220-240V	35 - 38 - 42	37 - 40 - 44	39 - 42 - 46	41 - 44 - 48	43 - 46 - 50

5-2. NC curves

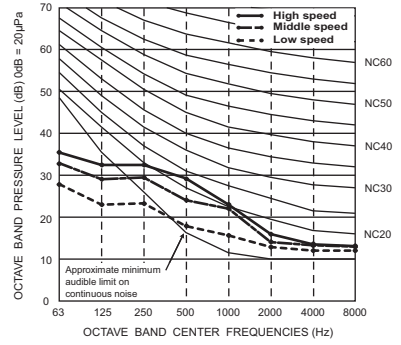
**PEFY-P20,25VMR-E-L/R**  
 External static pressure : 5Pa  
 Power source : 220V, 50/60Hz



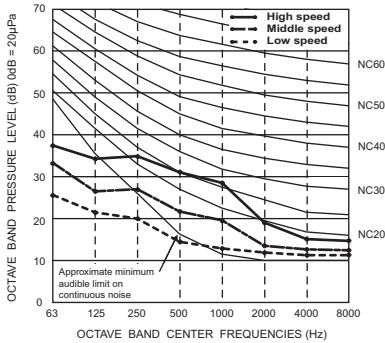
**PEFY-P20,25VMR-E-L/R**  
 External static pressure : 5Pa  
 Power source : 230V, 50/60Hz



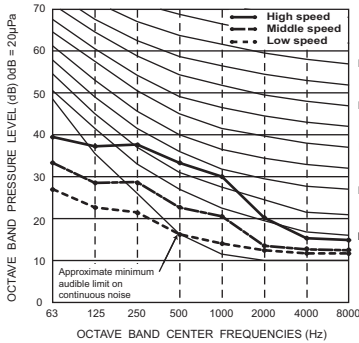
**PEFY-P20,25VMR-E-L/R**  
 External static pressure : 5Pa  
 Power source : 240V, 50Hz



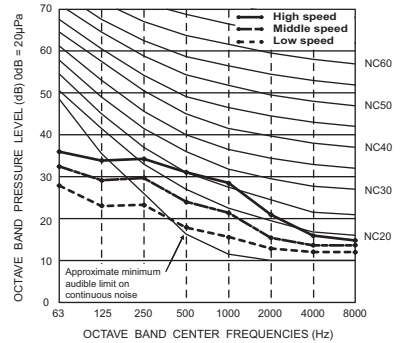
**PEFY-P32VMR-E-L/R**  
 External static pressure : 5Pa  
 Power source : 220V, 50/60Hz



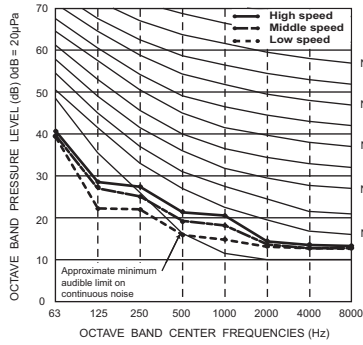
**PEFY-P32VMR-E-L/R**  
 External static pressure : 5Pa  
 Power source : 230V, 50/60Hz



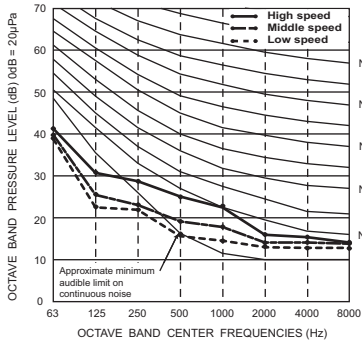
**PEFY-P32VMR-E-L/R**  
 External static pressure : 5Pa  
 Power source : 240V, 50Hz



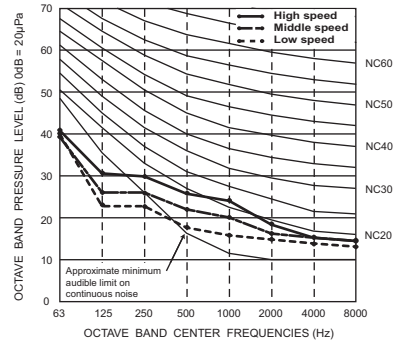
**PEFY-P15VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



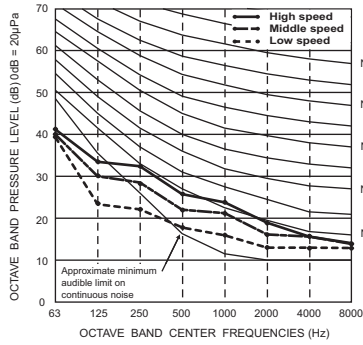
**PEFY-P15VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz



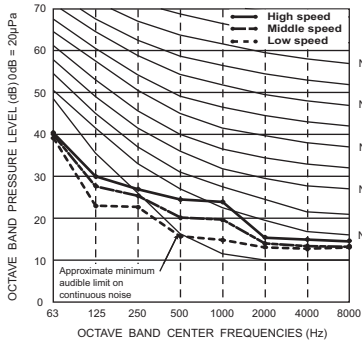
**PEFY-P15VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz



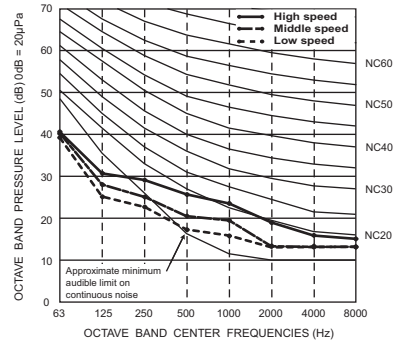
**PEFY-P15VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz



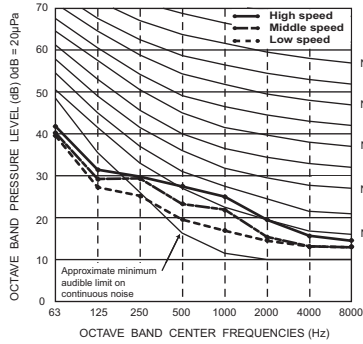
**PEFY-P20VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



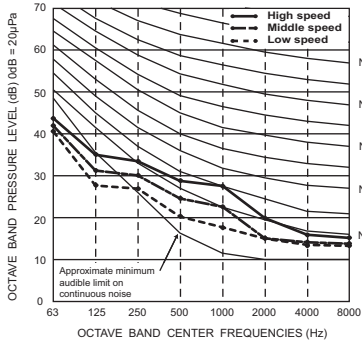
**PEFY-P20VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz



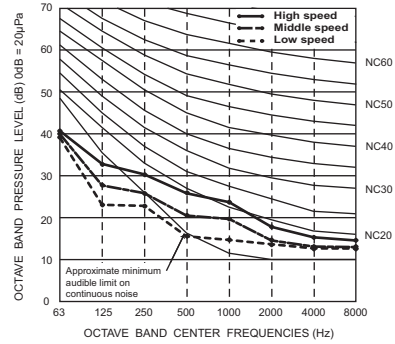
**PEFY-P20VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz



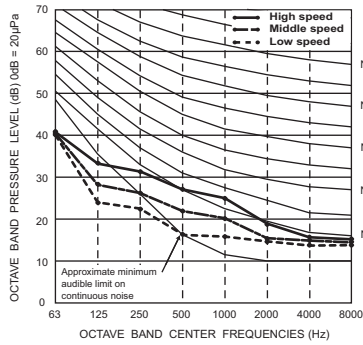
**PEFY-P20VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz



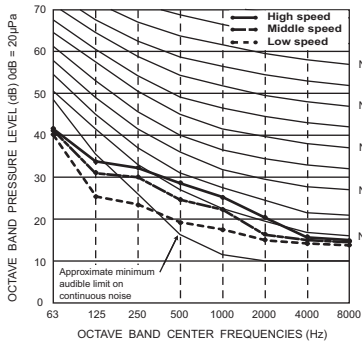
**PEFY-P25VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



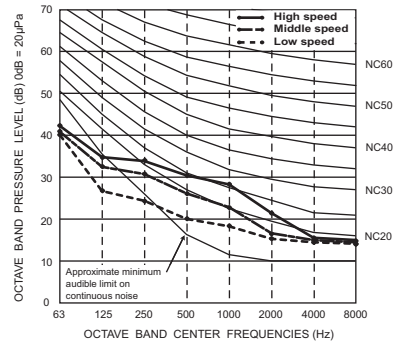
**PEFY-P25VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz

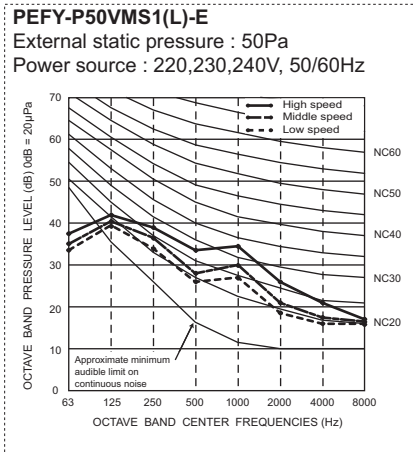
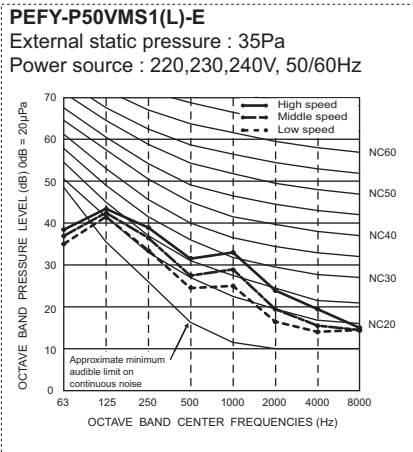
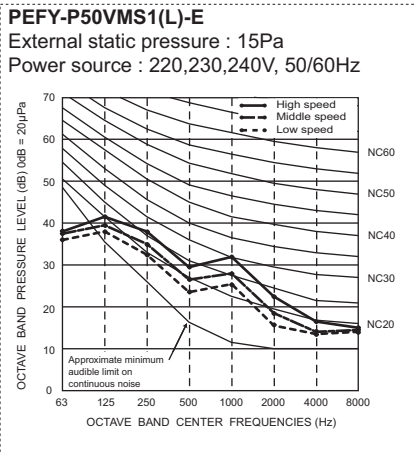
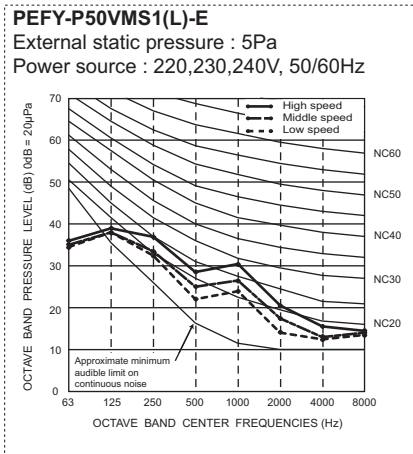
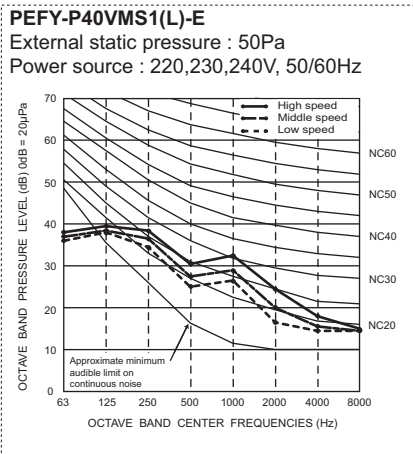
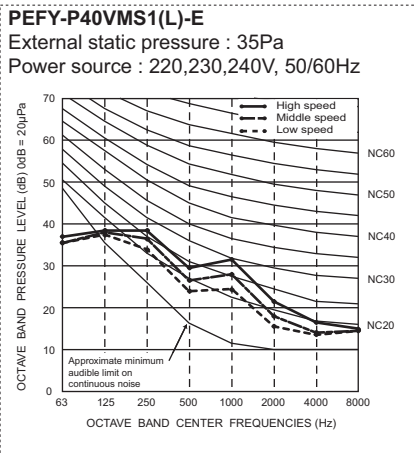
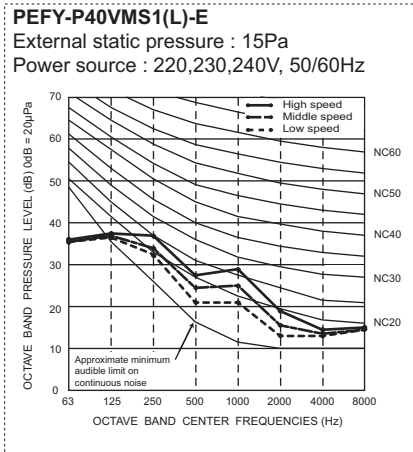
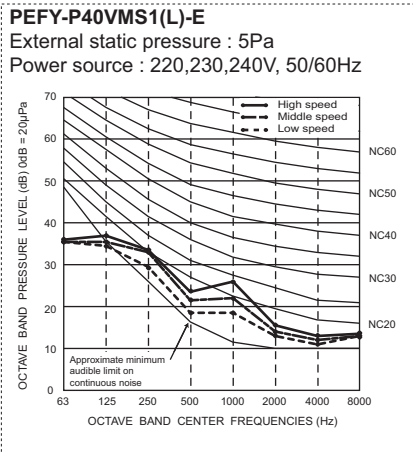
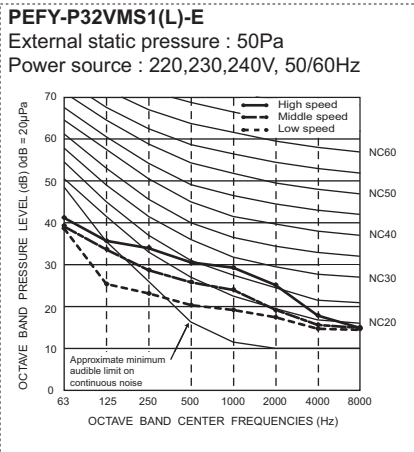
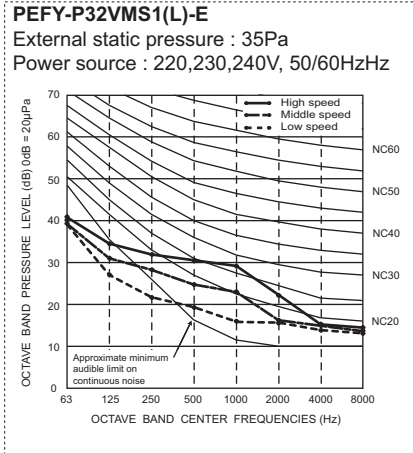
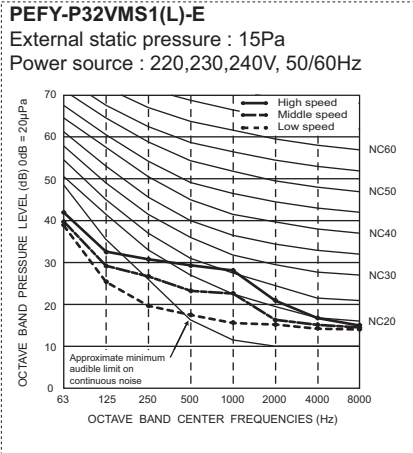
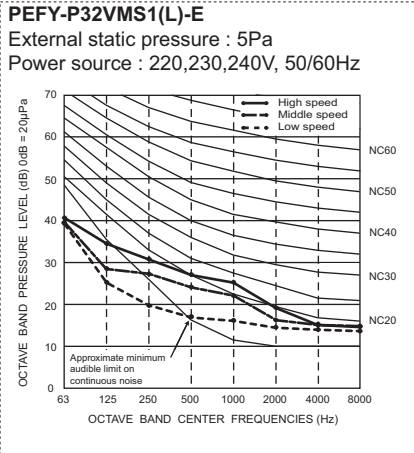


**PEFY-P25VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz

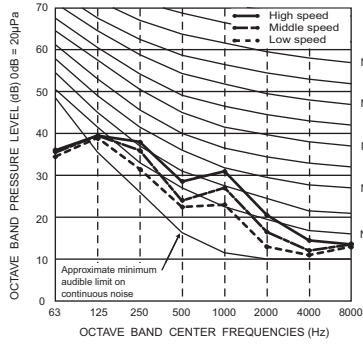


**PEFY-P25VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz

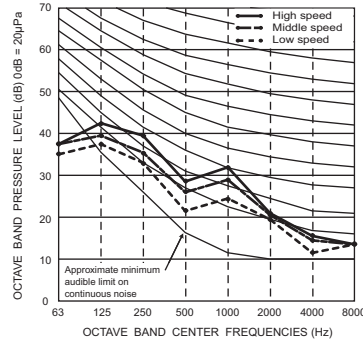




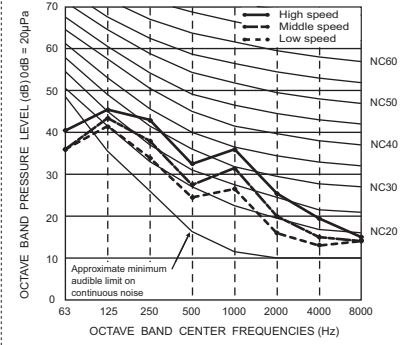
**PEFY-P63VMS1(L)-E**  
 External static pressure : 5Pa  
 Power source : 220,230,240V, 50/60Hz



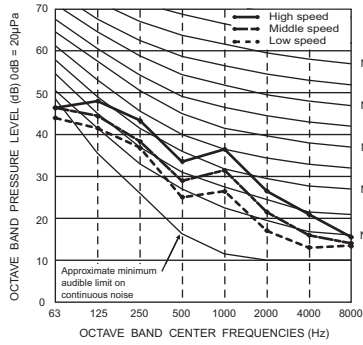
**PEFY-P63VMS1(L)-E**  
 External static pressure : 15Pa  
 Power source : 220,230,240V, 50/60Hz



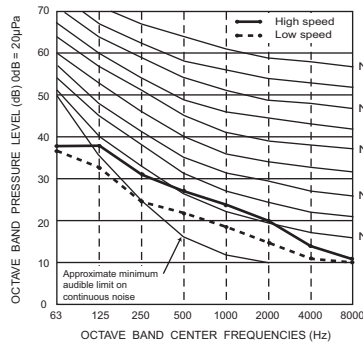
**PEFY-P63VMS1(L)-E**  
 External static pressure : 35Pa  
 Power source : 220,230,240V, 50/60Hz



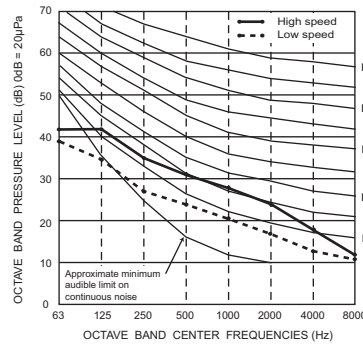
**PEFY-P63VMS1(L)-E**  
 External static pressure : 50Pa  
 Power source : 220,230,240V, 50/60Hz



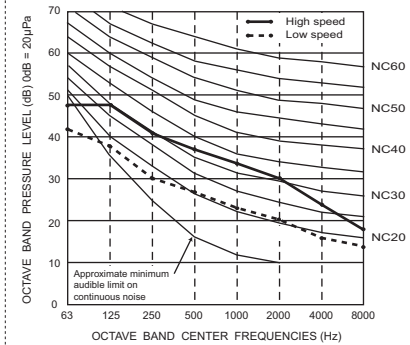
**PEFY-P40,50VMH-E**  
 External static pressure : 50Pa  
 Power source : 220V, 50/60Hz



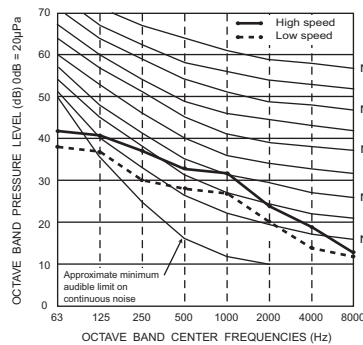
**PEFY-P40,50VMH-E**  
 External static pressure : 100Pa  
 Power source : 220V, 50/60Hz



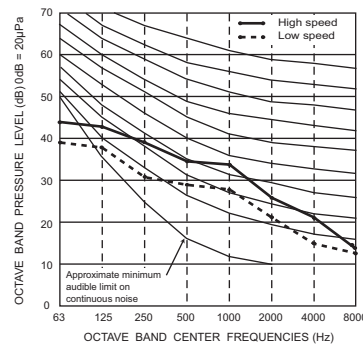
**PEFY-P40,50VMH-E**  
 External static pressure : 200Pa  
 Power source : 220V, 50/60Hz



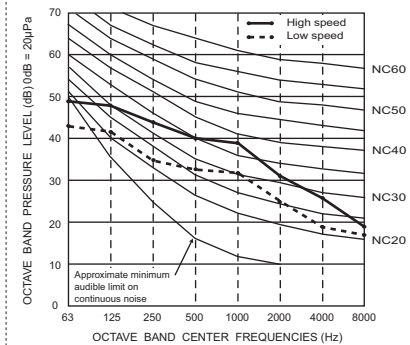
**PEFY-P63VMH-E**  
 External static pressure : 50Pa  
 Power source : 220V, 50/60Hz



**PEFY-P63VMH-E**  
 External static pressure : 100Pa  
 Power source : 220V, 50/60Hz

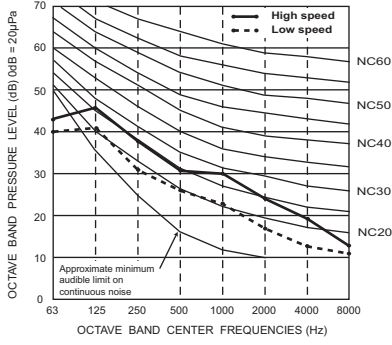


**PEFY-P63VMH-E**  
 External static pressure : 200Pa  
 Power source : 220V, 50/60Hz



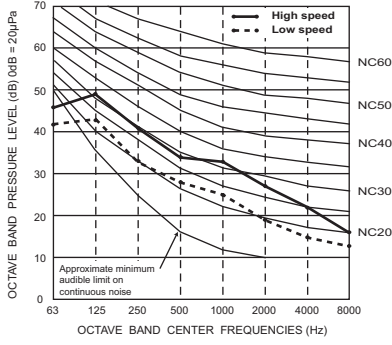
**PEFY-P71VMH-E**

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



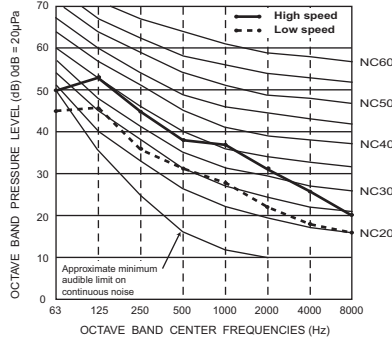
**PEFY-P71VMH-E**

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



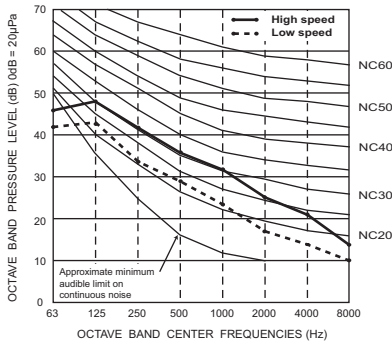
**PEFY-P71VMH-E**

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



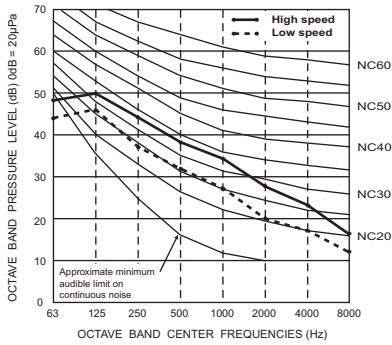
**PEFY-P80VMH-E**

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



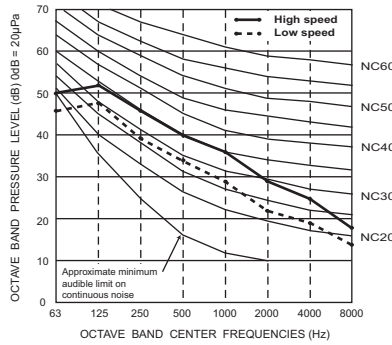
**PEFY-P80VMH-E**

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



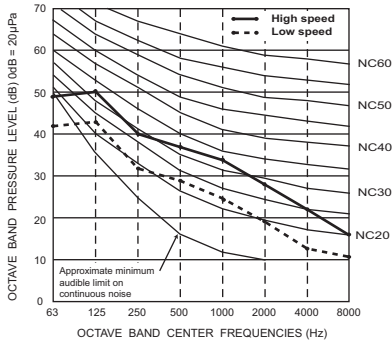
**PEFY-P80VMH-E**

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



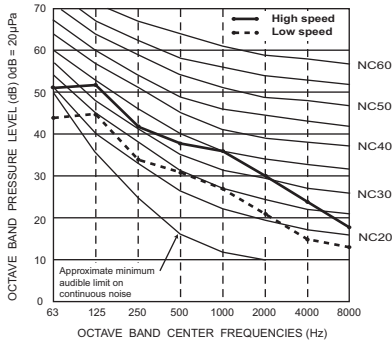
**PEFY-P100,125,140VMH-E**

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



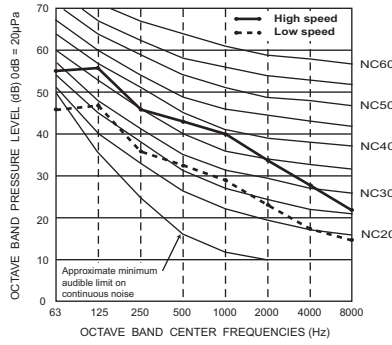
**PEFY-P100,125,140VMH-E**

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



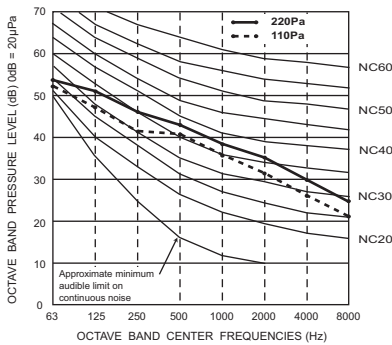
**PEFY-P100,125,140VMH-E**

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



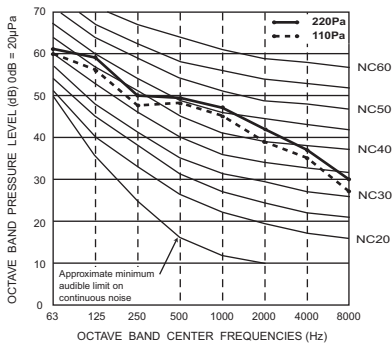
**PEFY-P200VMH-E**

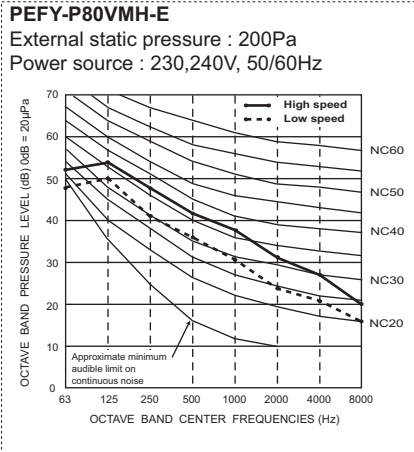
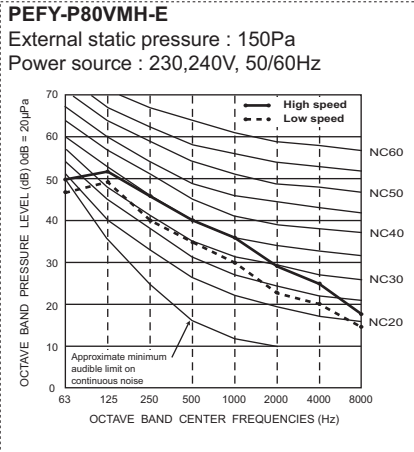
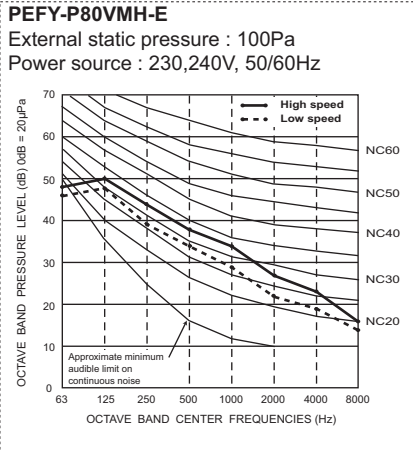
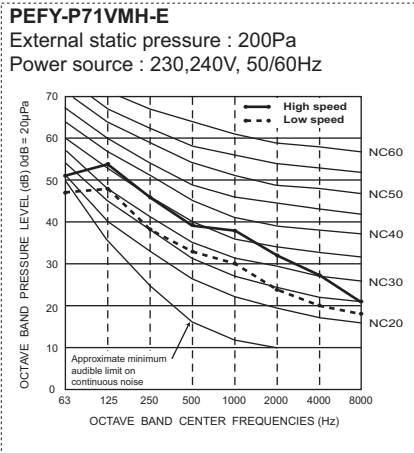
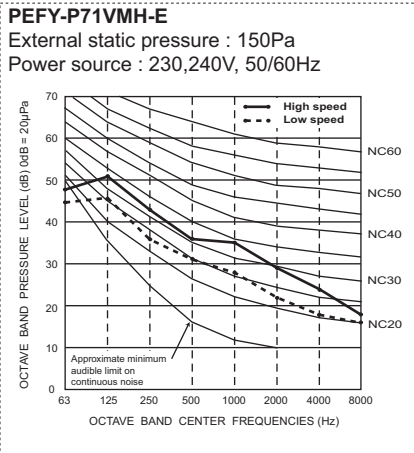
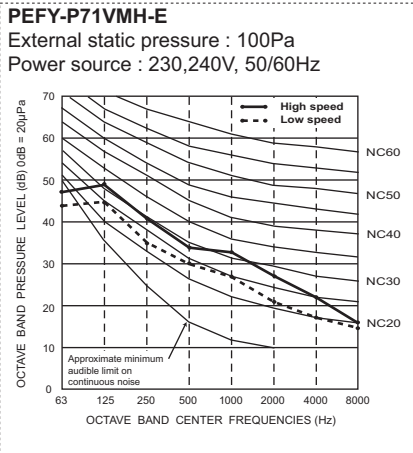
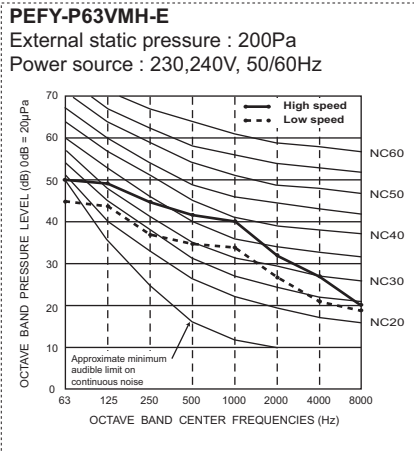
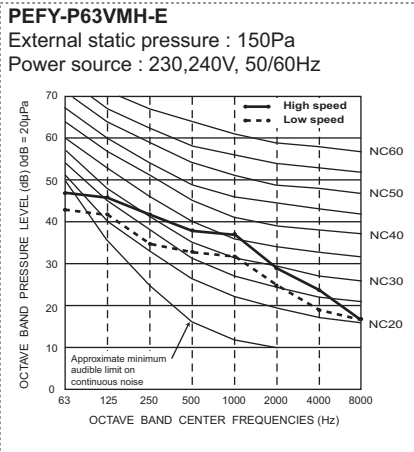
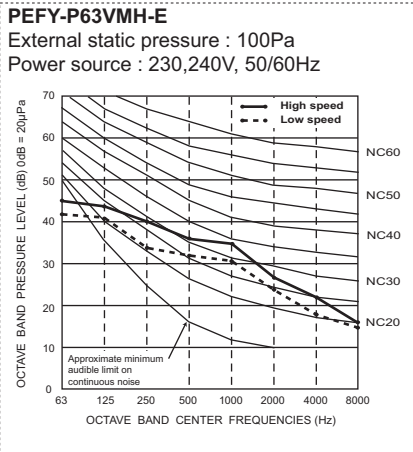
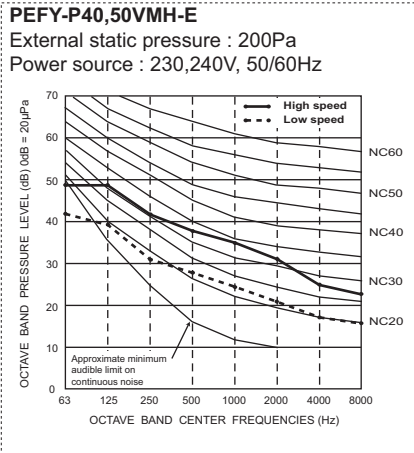
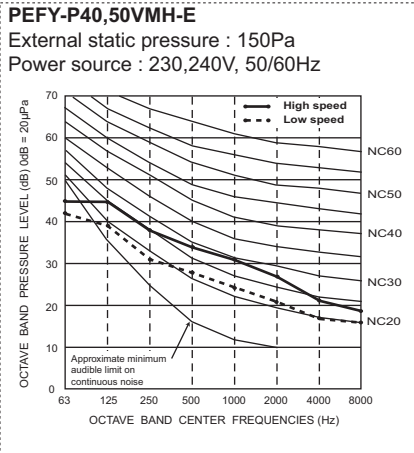
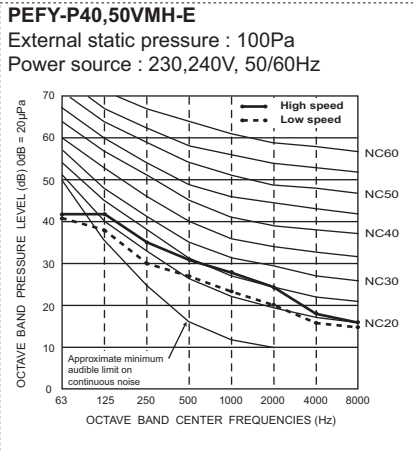
External static pressure : 110,220Pa  
Power source : 380V, 50/60Hz



**PEFY-P250VMH-E**

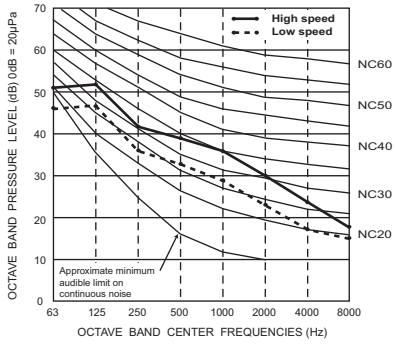
External static pressure : 110,220Pa  
Power source : 380V, 50/60Hz



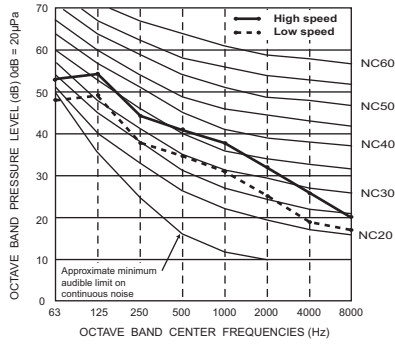




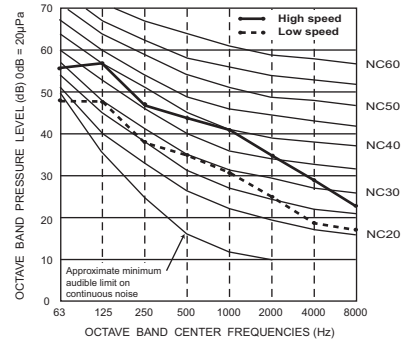
**PEFY-P100,125,140VMH-E**  
 External static pressure : 100Pa  
 Power source : 230,240V, 50/60Hz



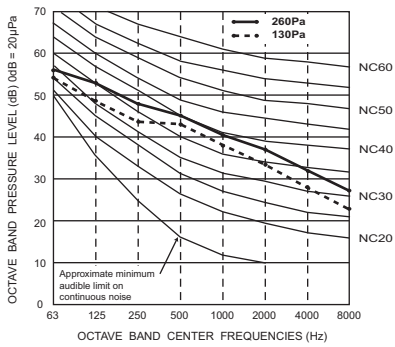
**PEFY-P100,125,140VMH-E**  
 External static pressure : 150Pa  
 Power source : 230,240V, 50/60Hz



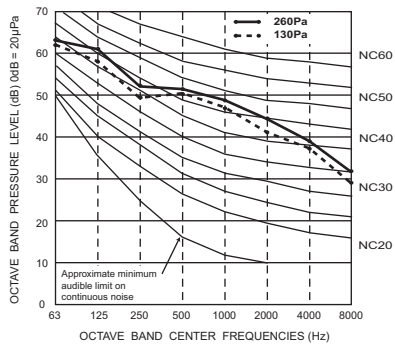
**PEFY-P100,125,140VMH-E**  
 External static pressure : 200Pa  
 Power source : 230,240V, 50/60Hz

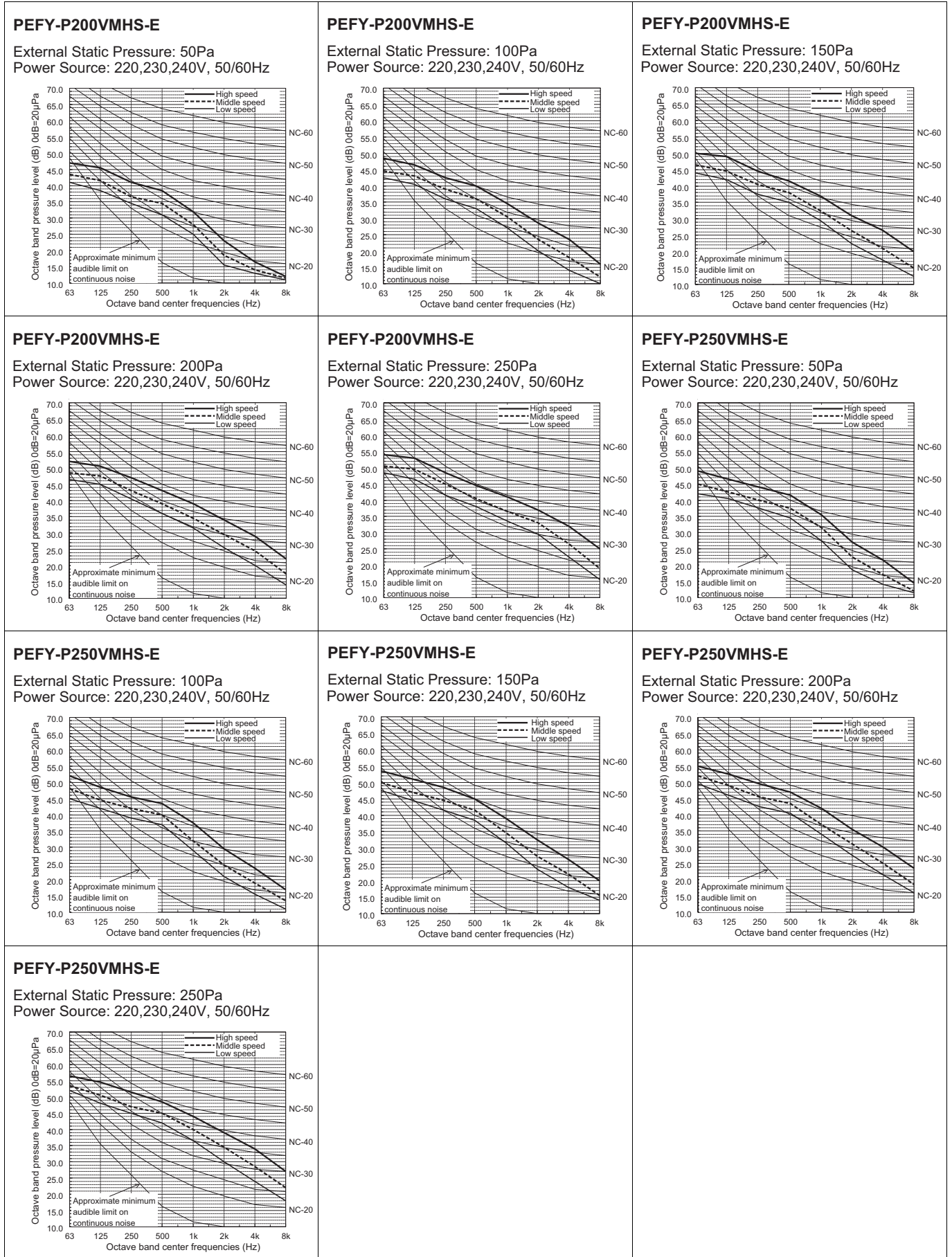


**PEFY-P200VMH-E**  
 External static pressure : 130,260Pa  
 Power source : 400,415V, 50/60Hz



**PEFY-P250VMH-E**  
 External static pressure : 130,260Pa  
 Power source : 400,415V, 50/60Hz





# 6. FAN CHARACTERISTICS CURVES

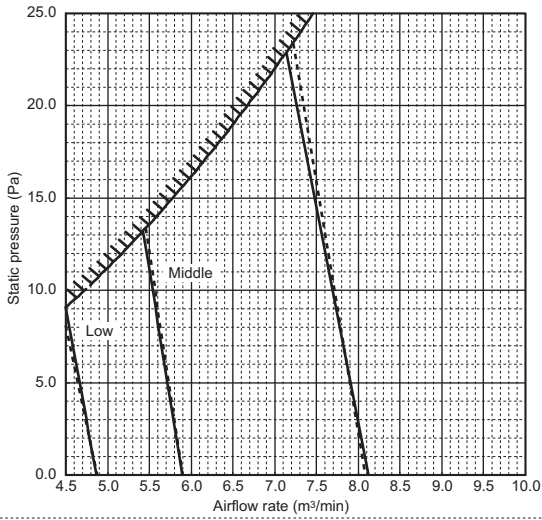
EP-YKM

PEFY

## PEFY-P20,25VMR-E-L/R

External static pressure : 5Pa  
Power source : 220,230,240V

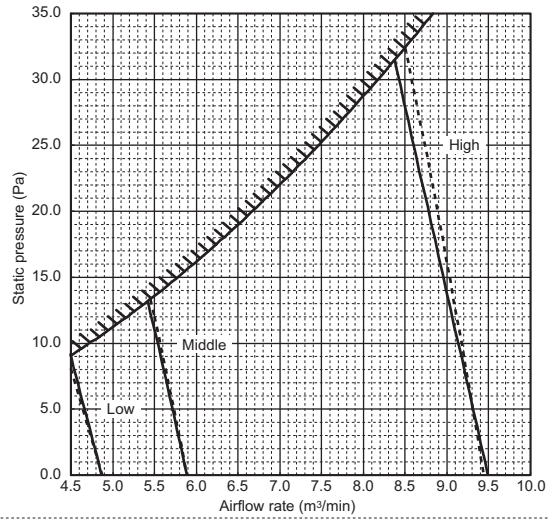
Suction : Back inlet  
— 50Hz  
- - - 60Hz



## PEFY-P32VMR-E-L/R

External static pressure : 5Pa  
Power source : 220,230,240V

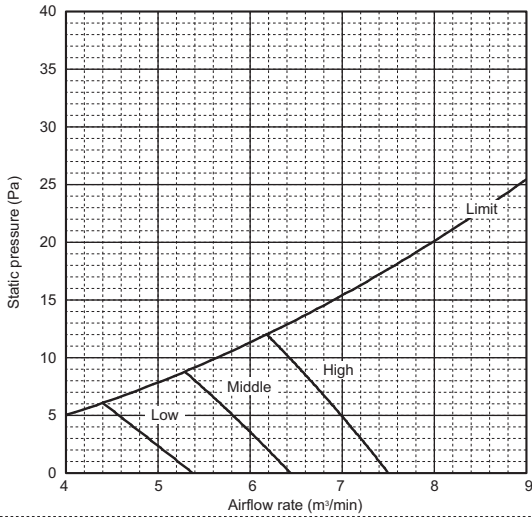
Suction : Back inlet  
— 50Hz  
- - - 60Hz



## PEFY-P15VMS1(L)-E

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

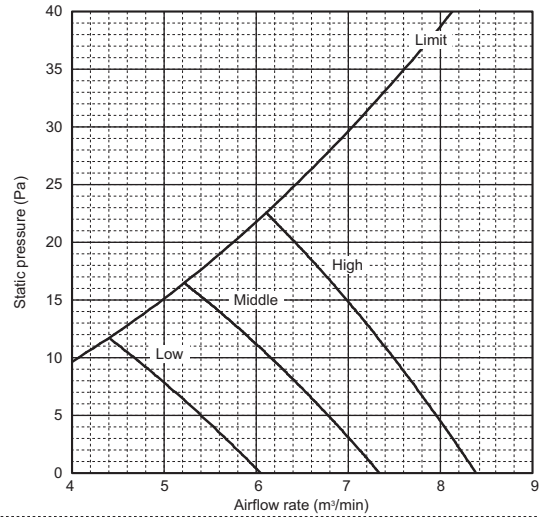
Suction : Back inlet



## PEFY-P15VMS1(L)-E

External static pressure : 15Pa  
Power source : 220,230,240V, 50/60Hz

Suction : Back inlet

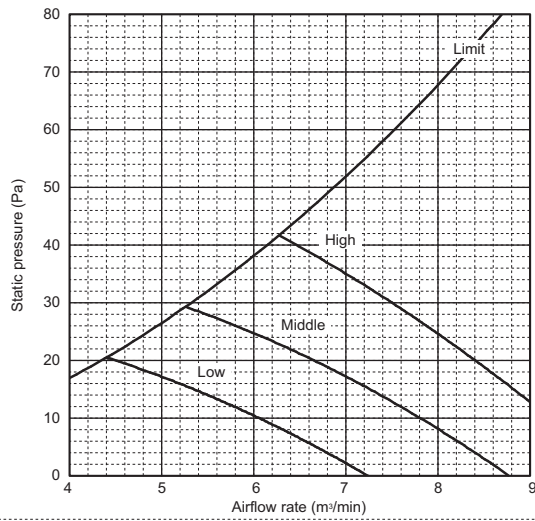


# 6. FAN CHARACTERISTICS CURVES

**PEFY-P15VMS1(L)-E**

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

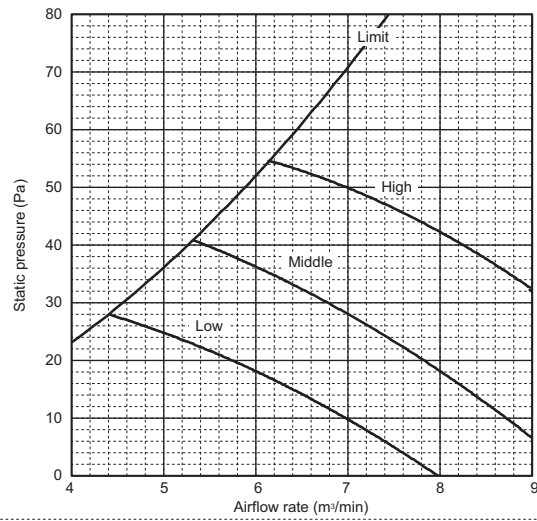
Suction : Back inlet



**PEFY-P15VMS1(L)-E**

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

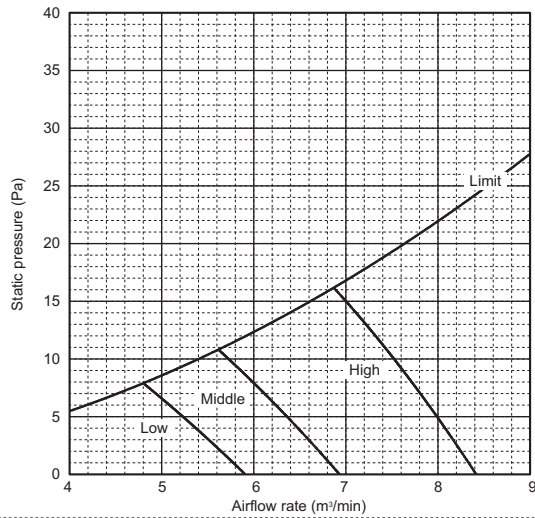
Suction : Back inlet



**PEFY-P20VMS1(L)-E**

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

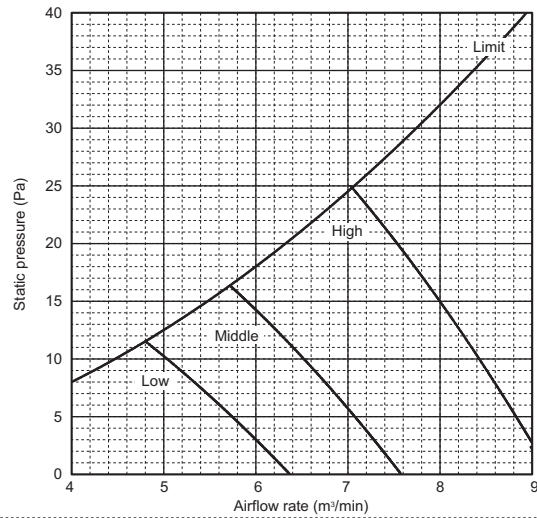
Suction : Back inlet



**PEFY-P20VMS1(L)-E**

External static pressure : 15Pa  
Power source : 220,230,240V, 50/60Hz

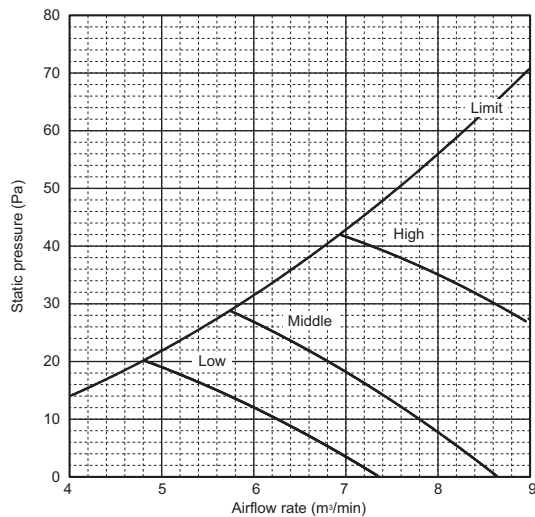
Suction : Back inlet



**PEFY-P20VMS1(L)-E**

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

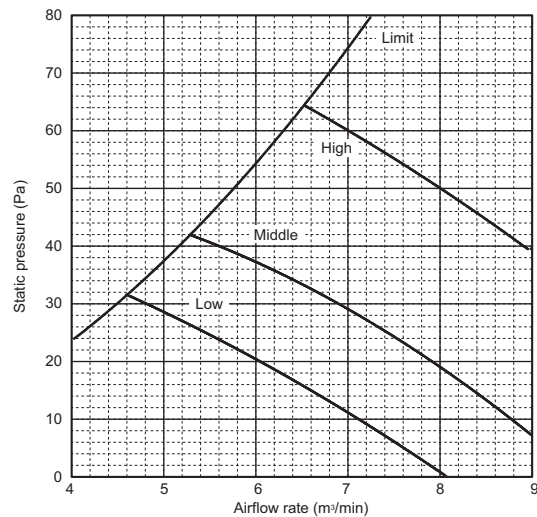
Suction : Back inlet



**PEFY-P20VMS1(L)-E**

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

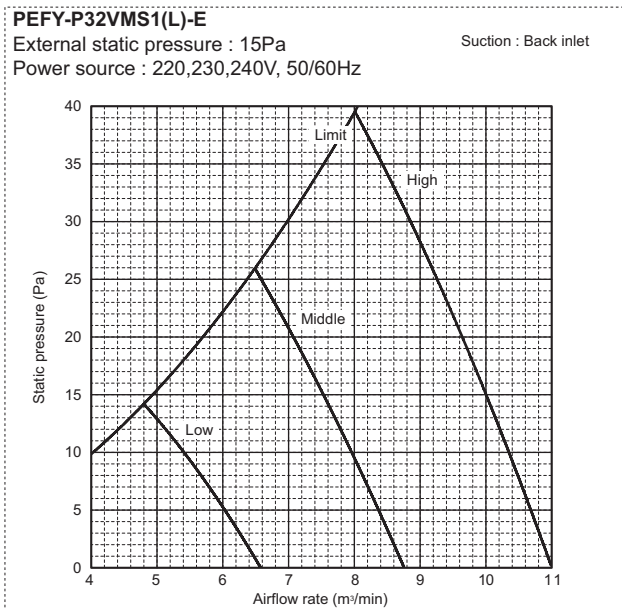
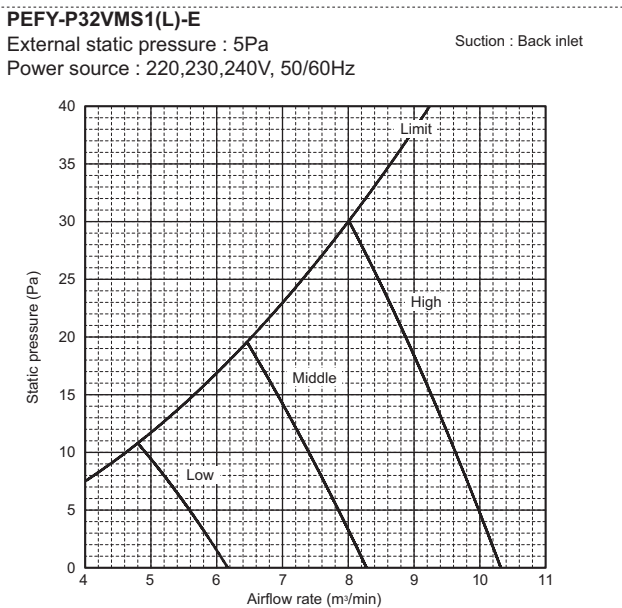
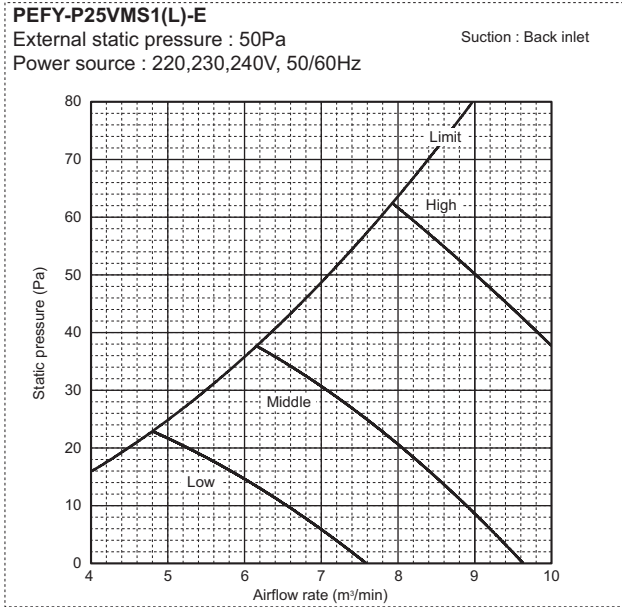
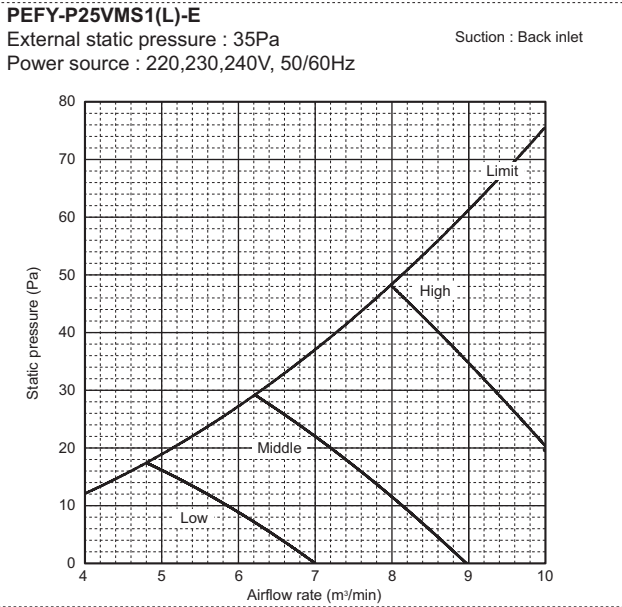
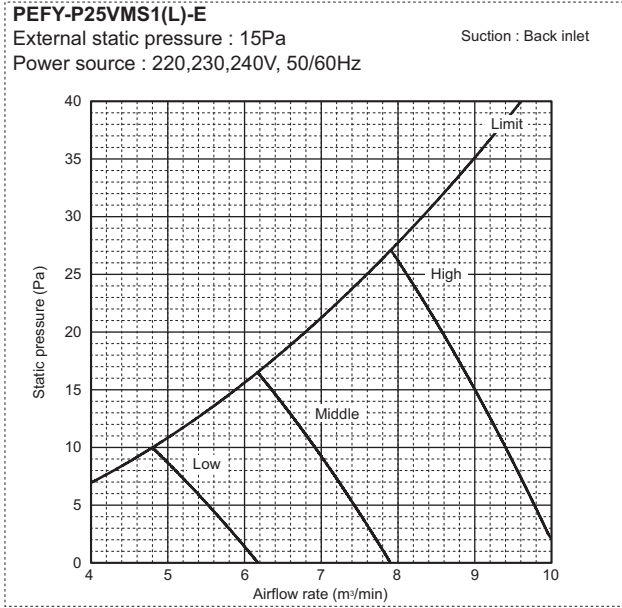
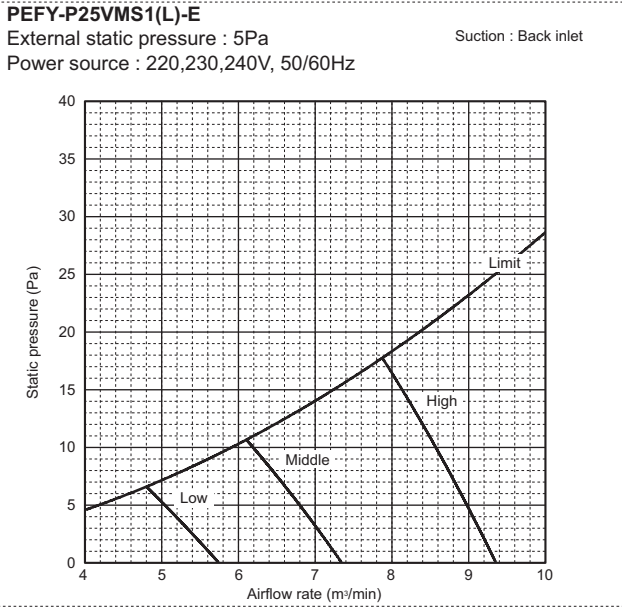
Suction : Back inlet



# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY

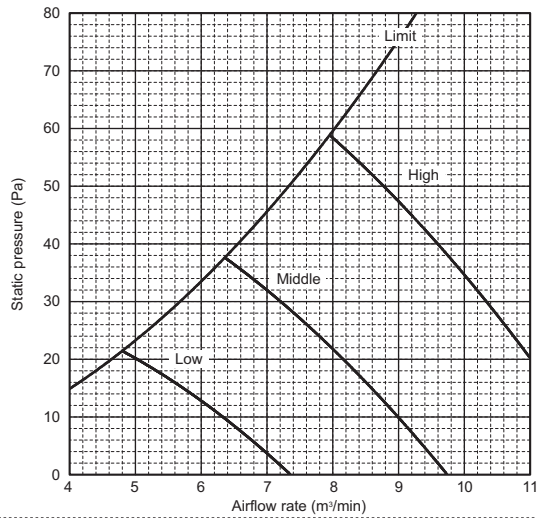


# 6. FAN CHARACTERISTICS CURVES

**PEFY-P32VMS1(L)-E**

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

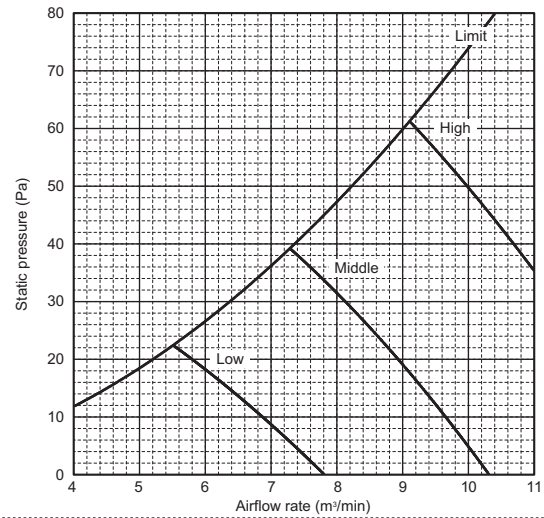
Suction : Back inlet



**PEFY-P32VMS1(L)-E**

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

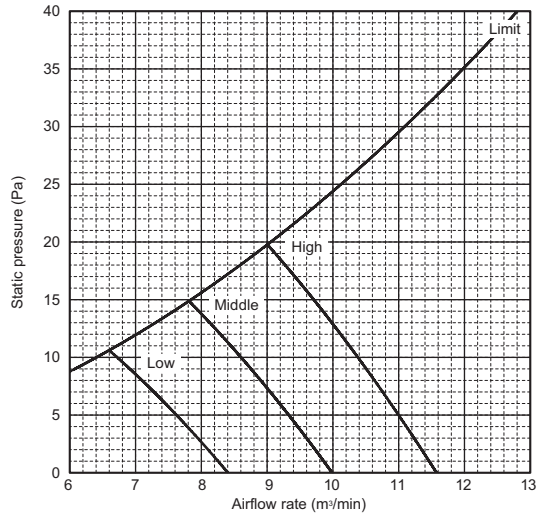
Suction : Back inlet



**PEFY-P40VMS1(L)-E**

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

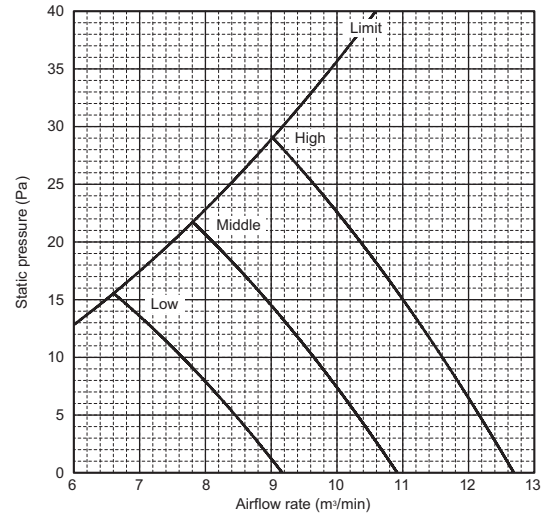
Suction : Back inlet



**PEFY-P40VMS1(L)-E**

External static pressure : 15Pa  
Power source : 220,230,240V, 50/60Hz

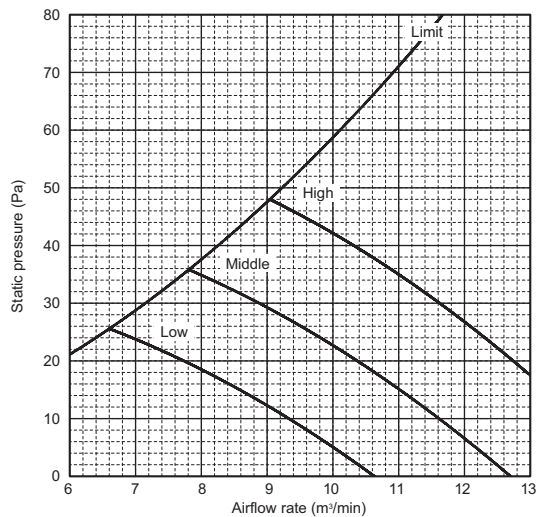
Suction : Back inlet



**PEFY-P40VMS1(L)-E**

External static pressure : 35Pa  
Power source : 220,230,240V, 50/60Hz

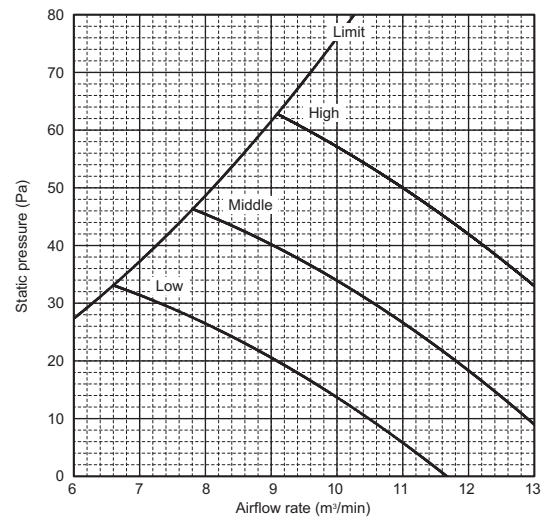
Suction : Back inlet



**PEFY-P40VMS1(L)-E**

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

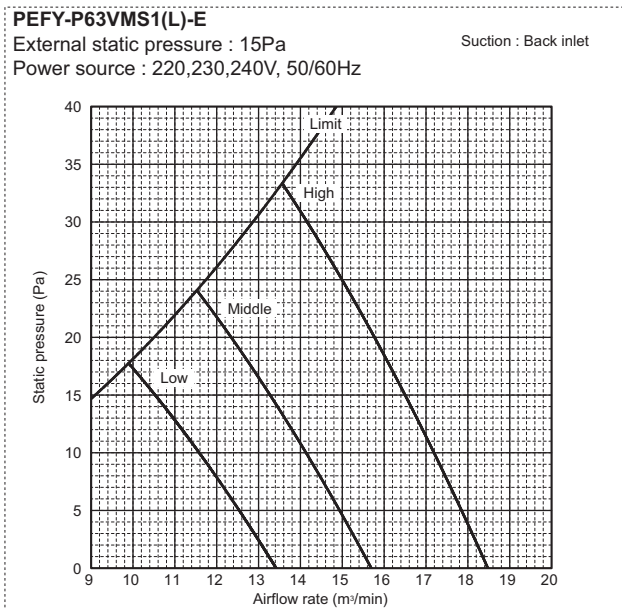
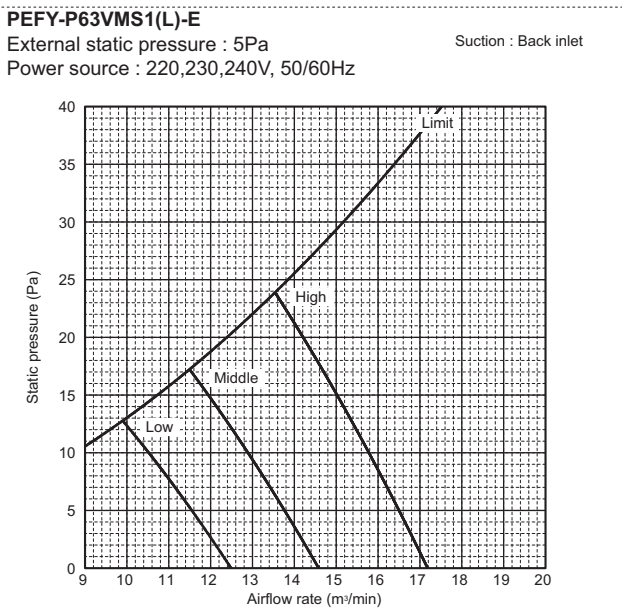
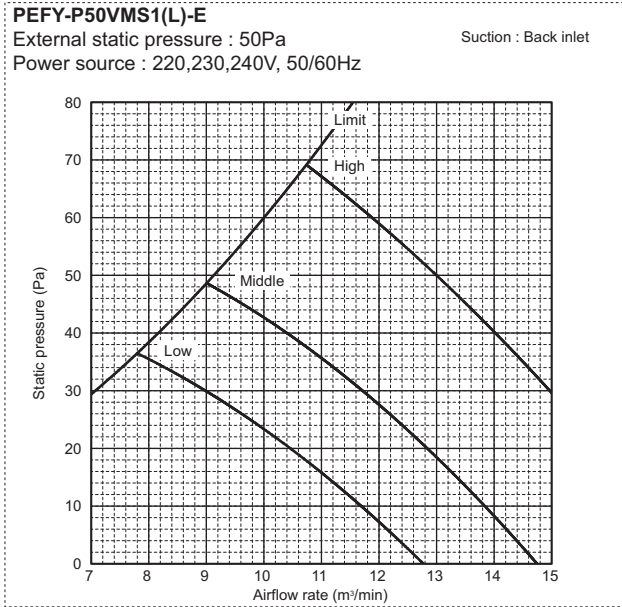
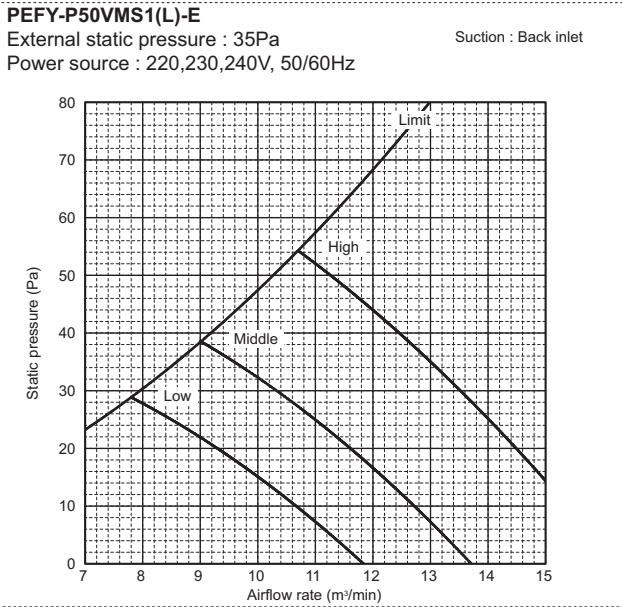
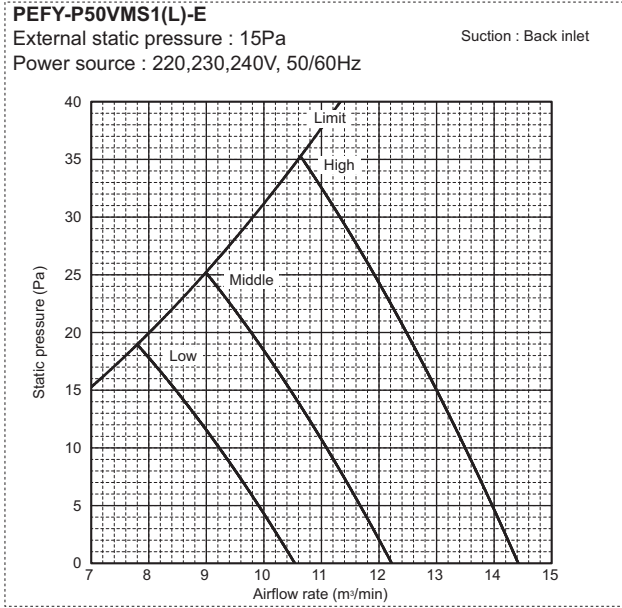
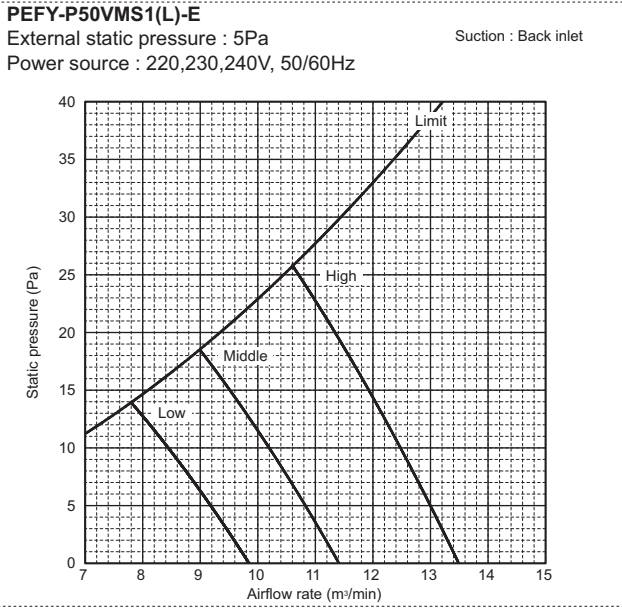
Suction : Back inlet



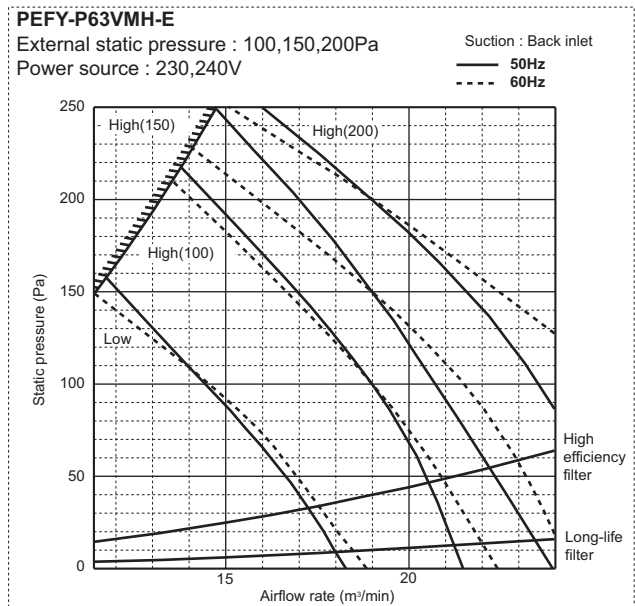
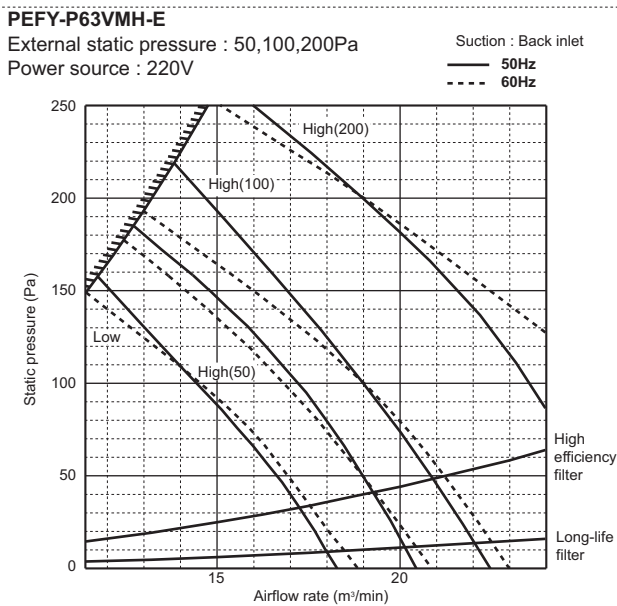
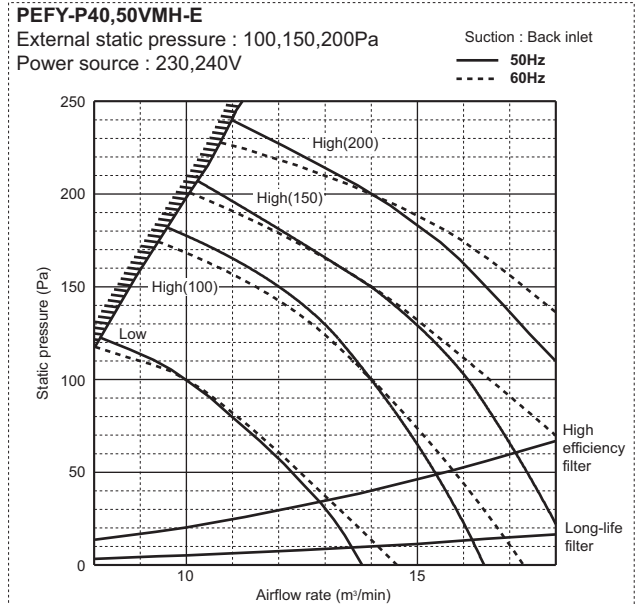
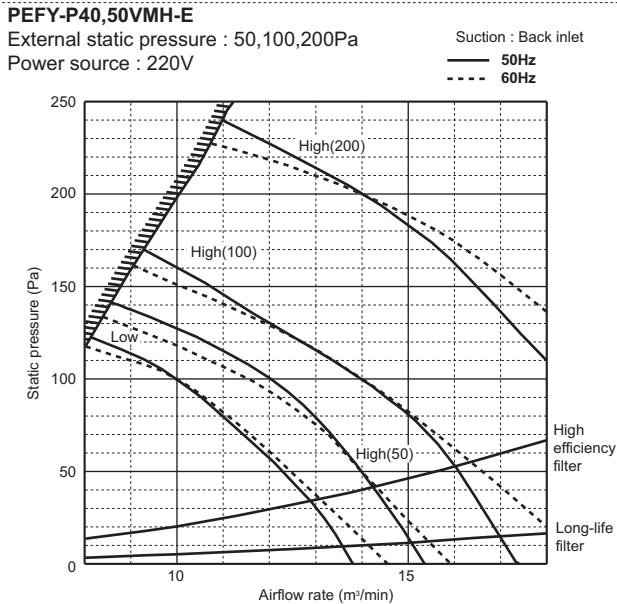
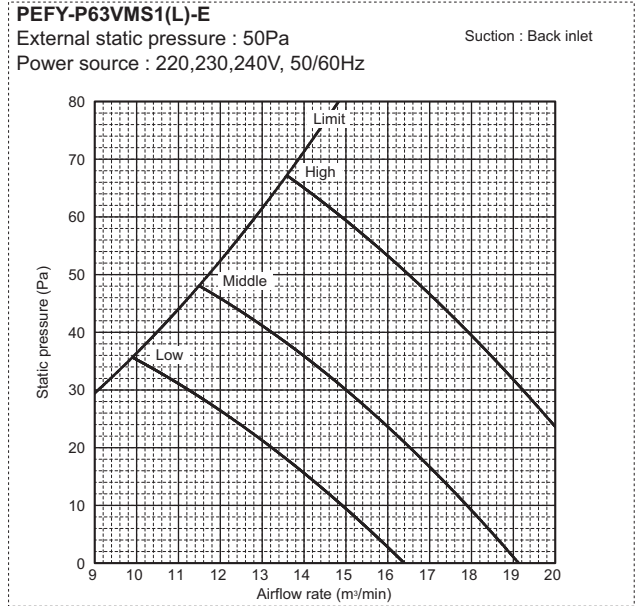
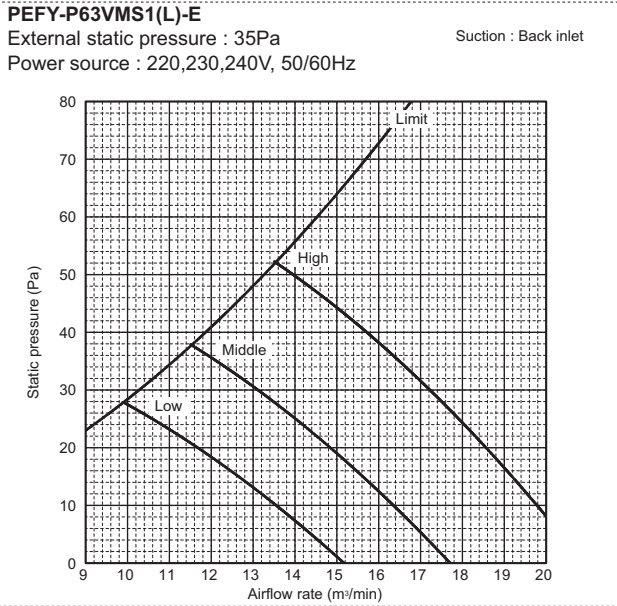
# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY



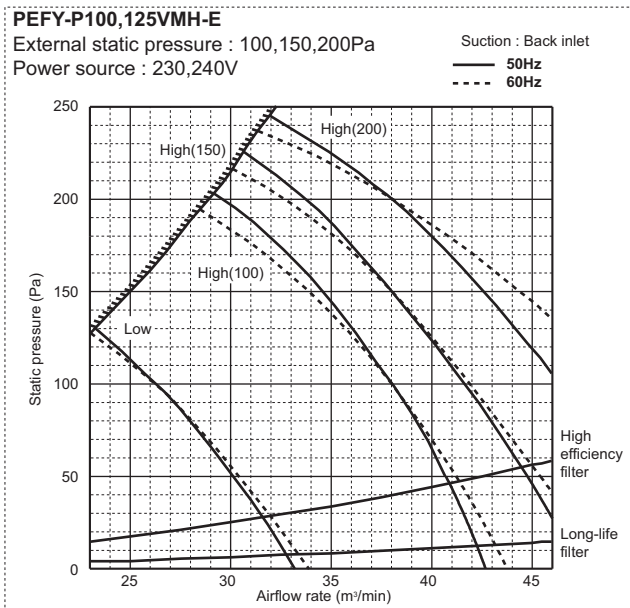
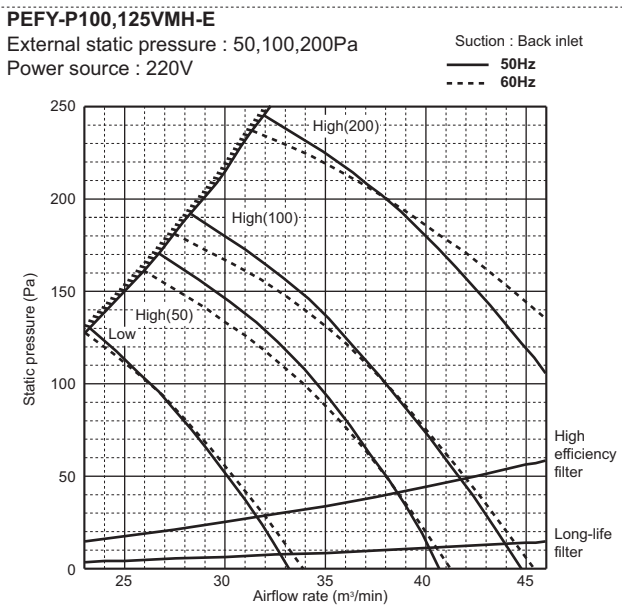
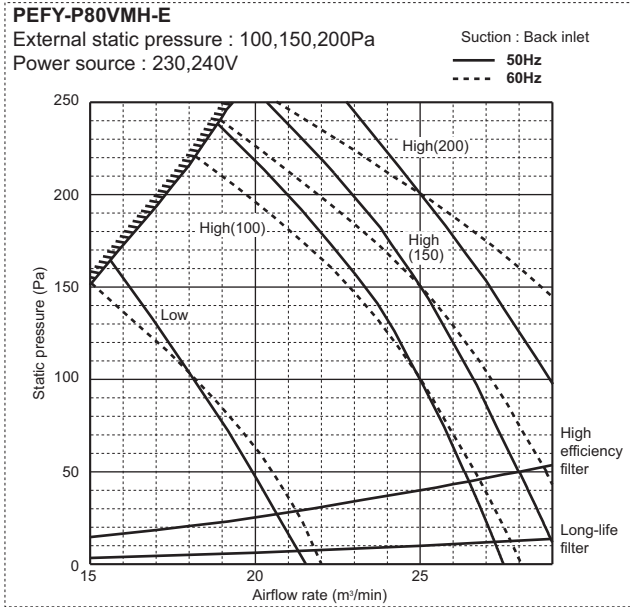
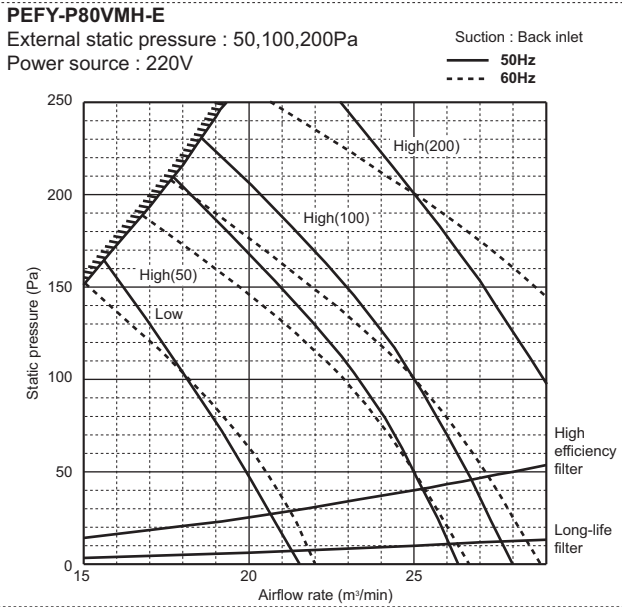
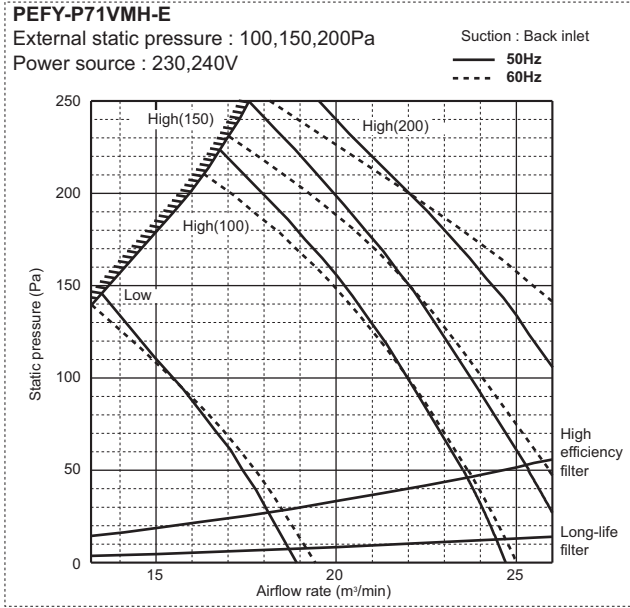
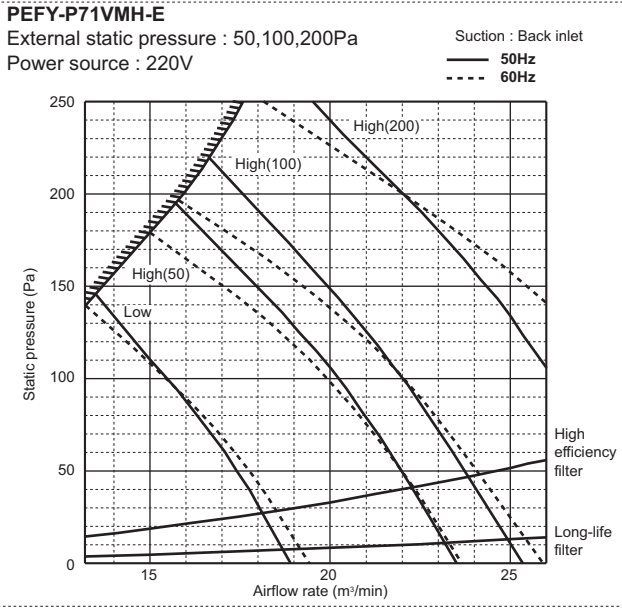
# 6. FAN CHARACTERISTICS CURVES



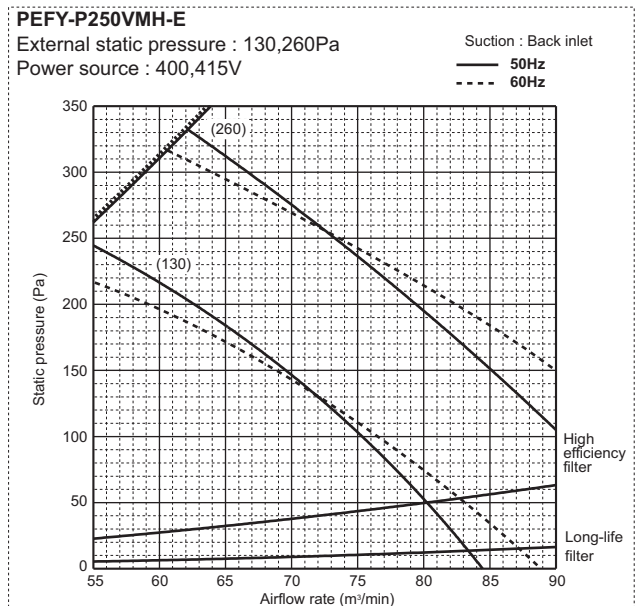
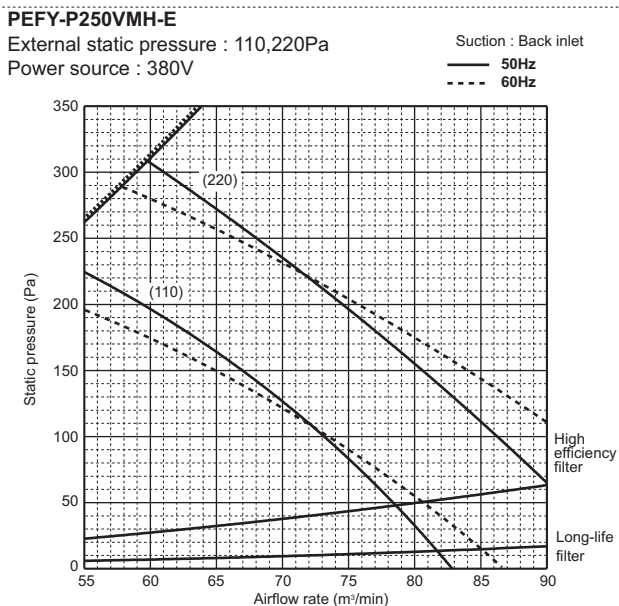
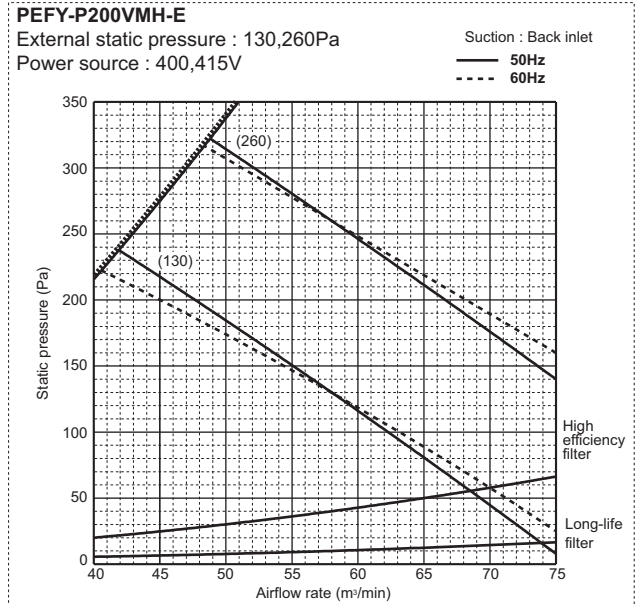
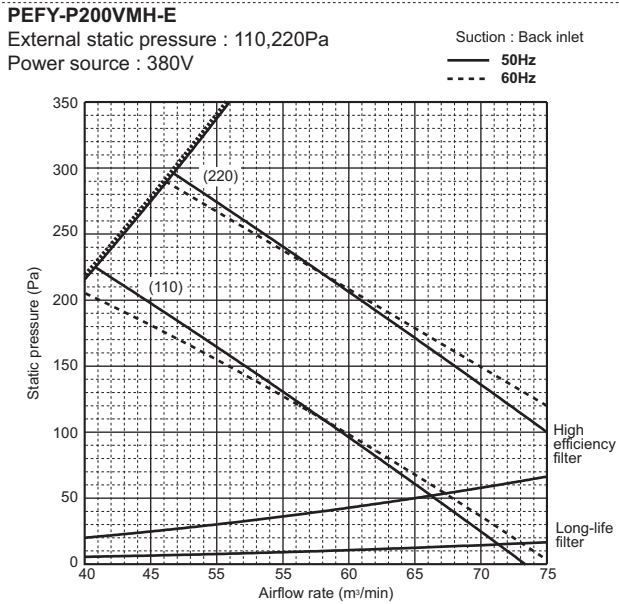
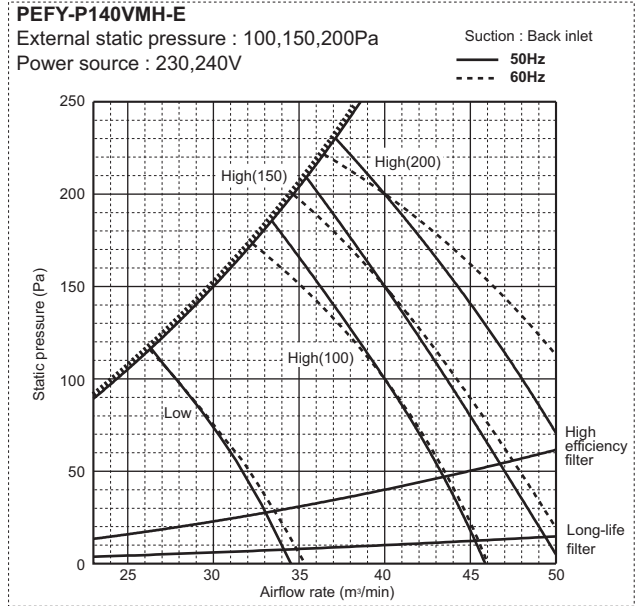
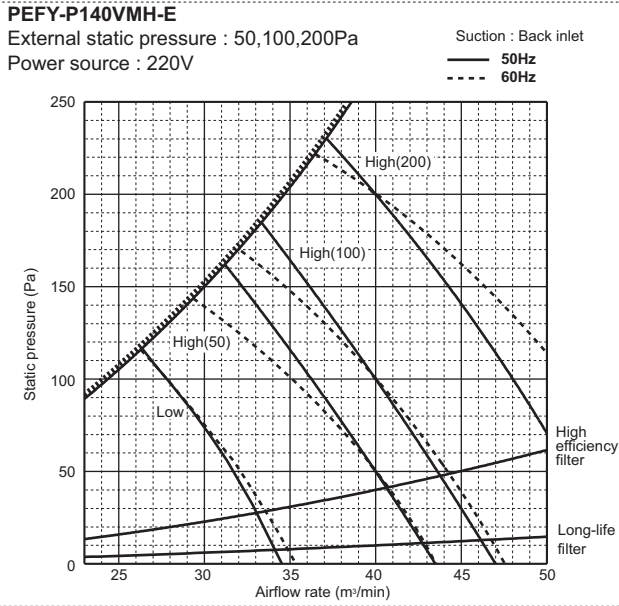


# 6. FAN CHARACTERISTICS CURVES

PEFY



# 6. FAN CHARACTERISTICS CURVES



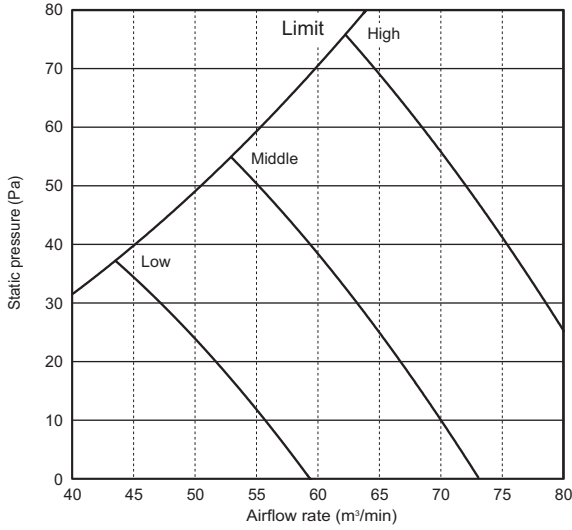
# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY

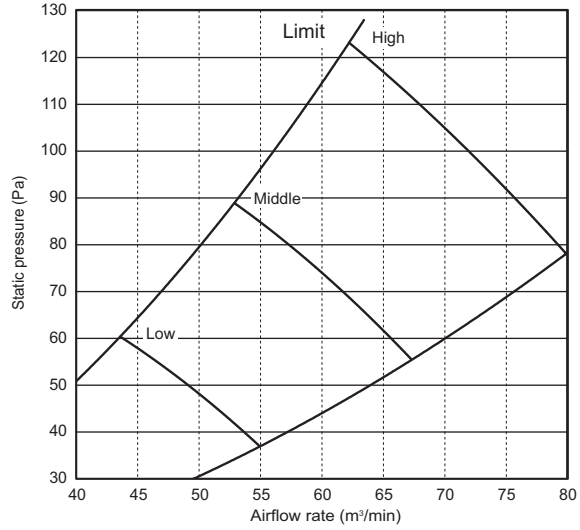
## PEFY-P200VMHS-E

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



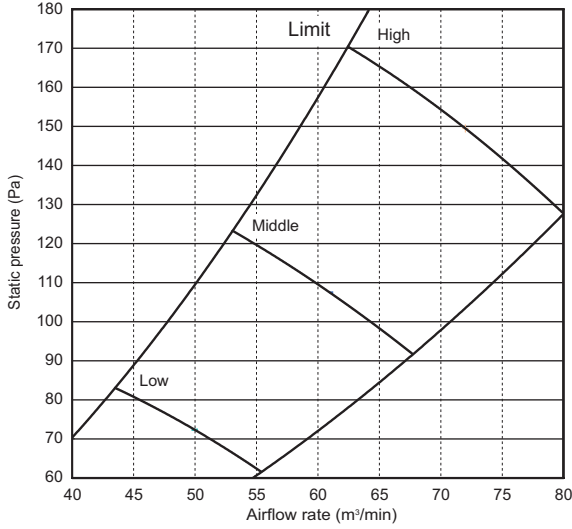
## PEFY-P200VMHS-E

External static pressure : 100Pa  
Power source : 220,230,240V, 50/60Hz



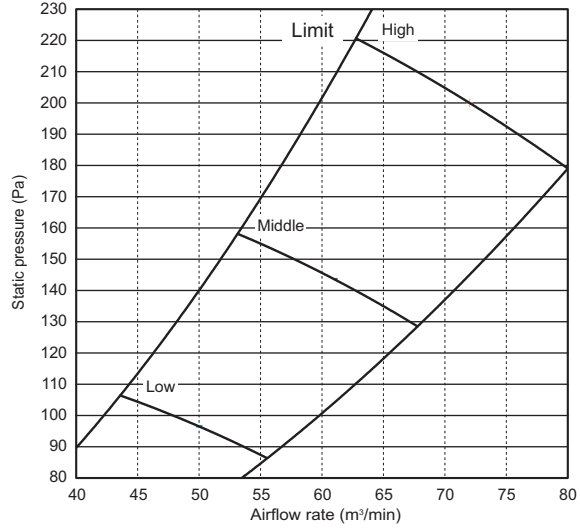
## PEFY-P200VMHS-E

External static pressure : 150Pa  
Power source : 220,230,240V, 50/60Hz



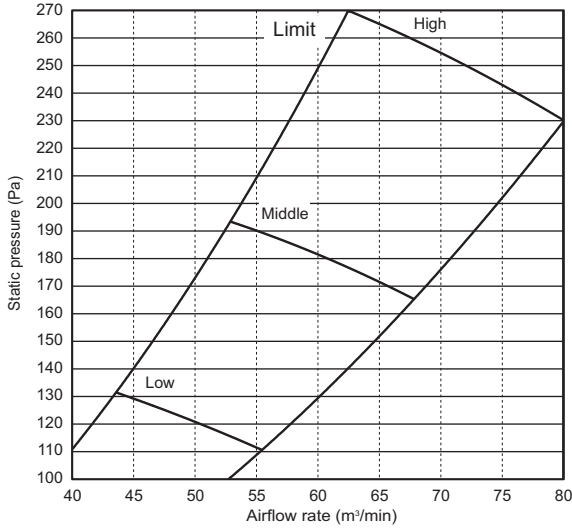
## PEFY-P200VMHS-E

External static pressure : 200Pa  
Power source : 220,230,240V, 50/60Hz



## PEFY-P200VMHS-E

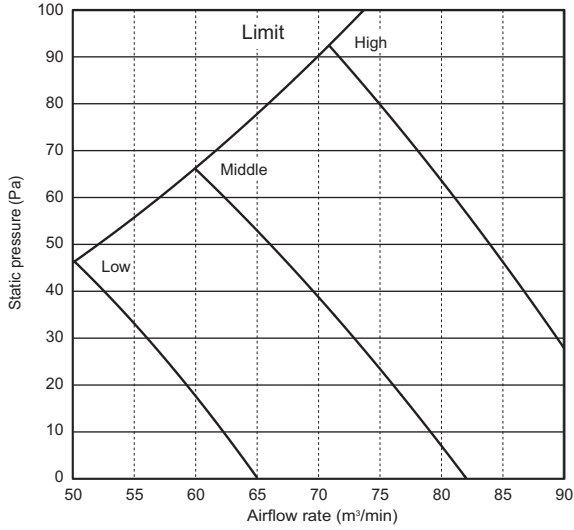
External static pressure : 250Pa  
Power source : 220,230,240V, 50/60Hz



# 6. FAN CHARACTERISTICS CURVES

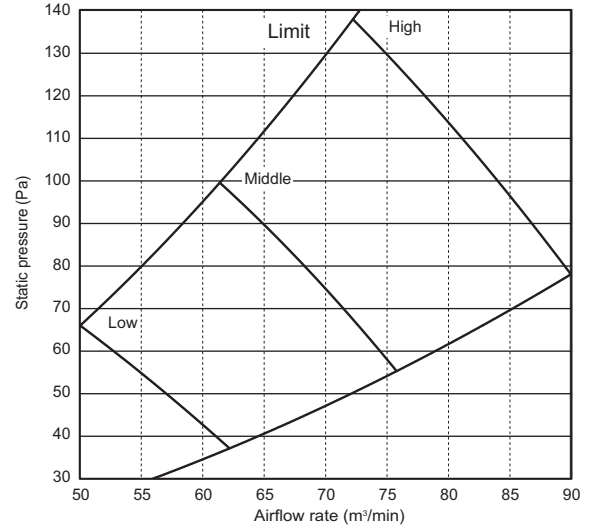
**PEFY-P250VMHS-E**

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



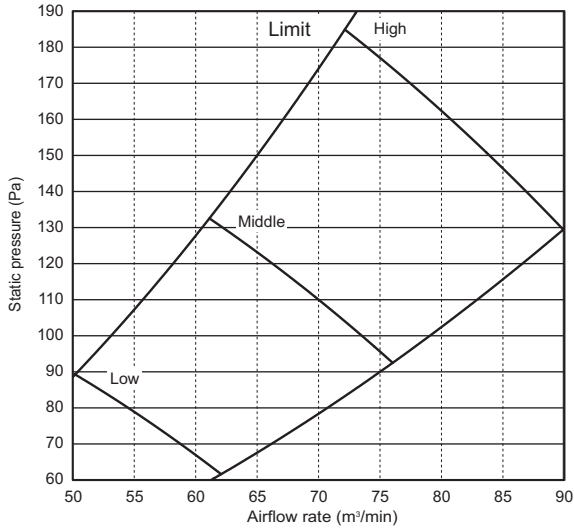
**PEFY-P250VMHS-E**

External static pressure : 100Pa  
Power source : 220,230,240V, 50/60Hz



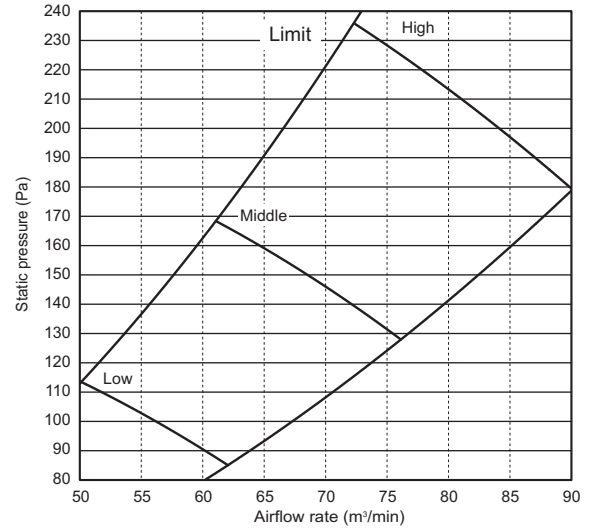
**PEFY-P250VMHS-E**

External static pressure : 150Pa  
Power source : 220,230,240V, 50/60Hz



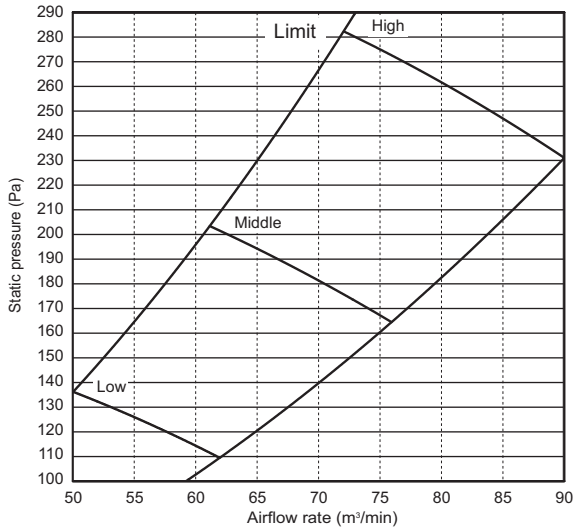
**PEFY-P250VMHS-E**

External static pressure : 200Pa  
Power source : 220,230,240V, 50/60Hz



**PEFY-P250VMHS-E**

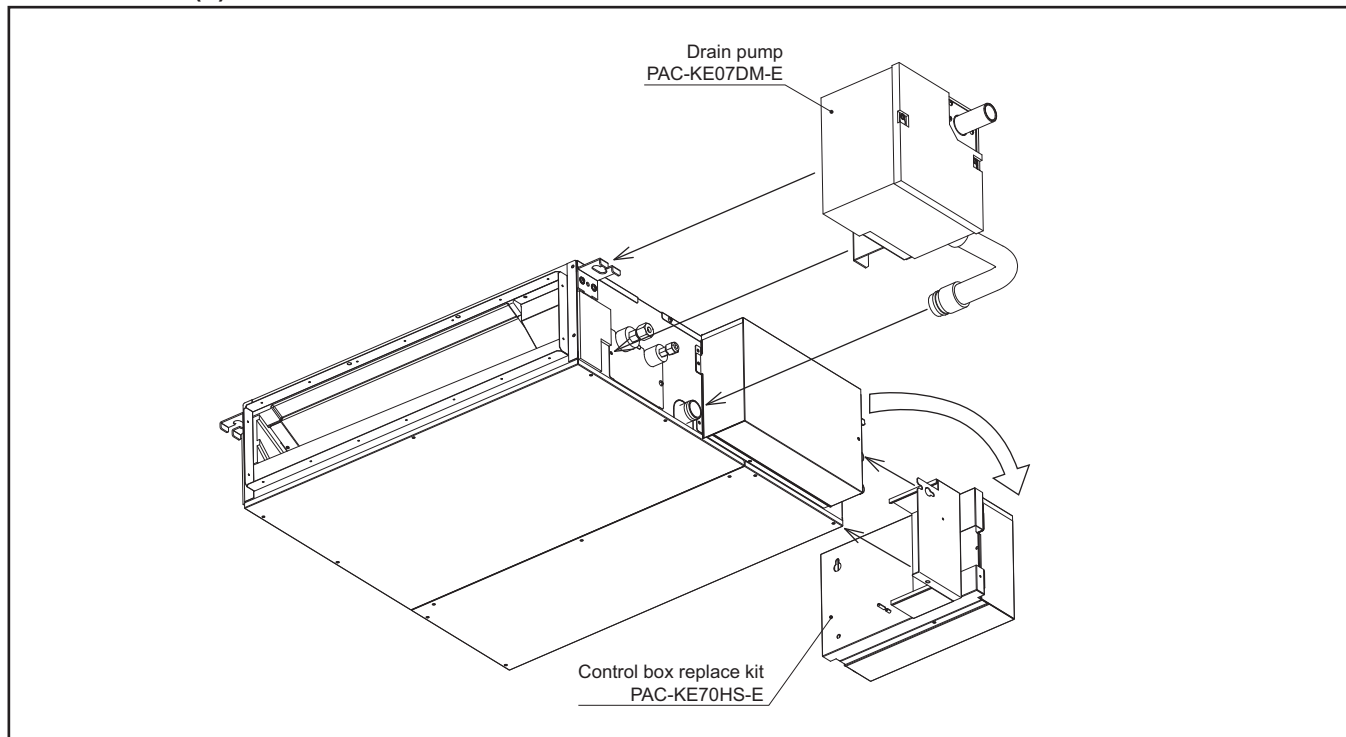
External static pressure : 250Pa  
Power source : 220,230,240V, 50/60Hz



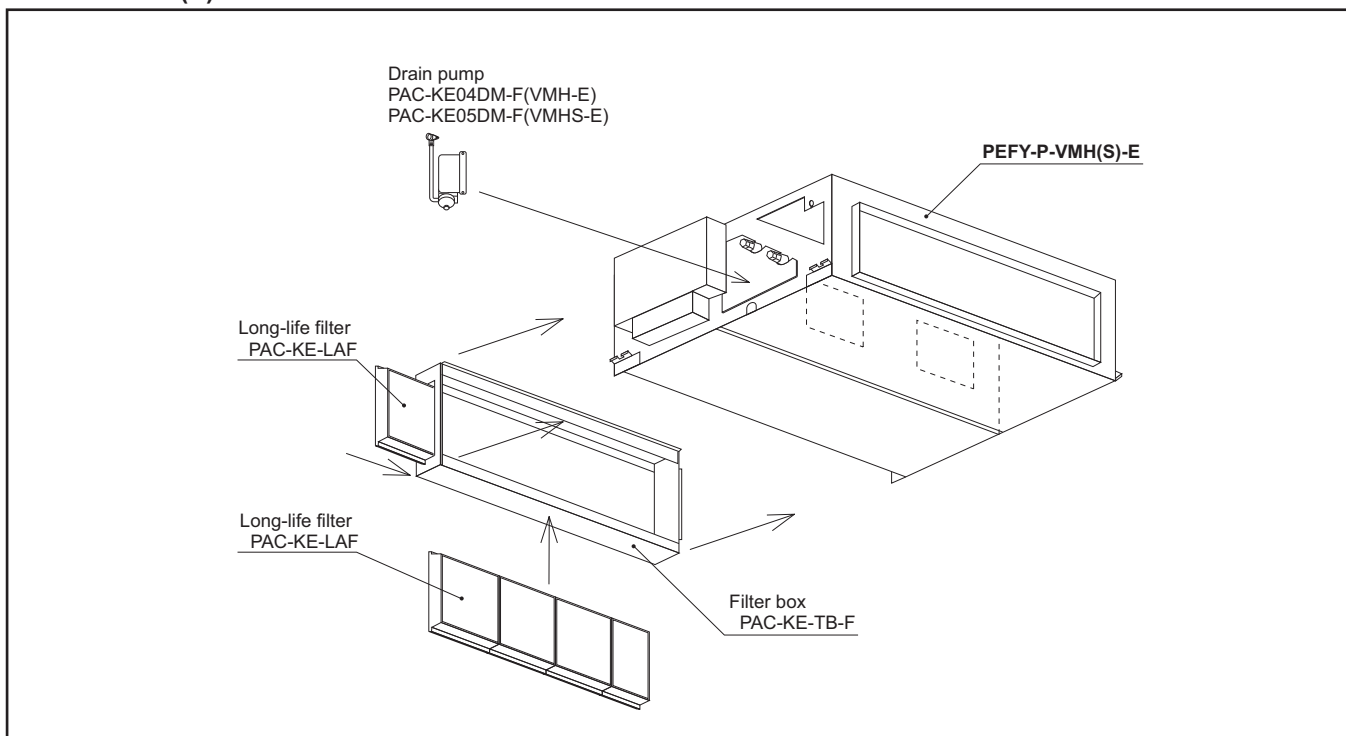
## 7-1. Optional parts line up for the Indoor unit

	Drain pump	Control box replace kit		
PEFY-P15,20,25,32,40,50,63VMS1-E	-	PAC-KE70HS-E		
PEFY-P15,20,25,32,40,50,63VMS1L-E	PAC-KE07DM-E	PAC-KE70HS-E		
	Long-life filter	Filter box	Drain pump	
PEFY-P40,50,63VMH-E	PAC-KE86LAF	PAC-KE63TB-F	PAC-KE04DM-F	
PEFY-P71,80VMH-E	PAC-KE88LAF	PAC-KE80TB-F	PAC-KE04DM-F	
PEFY-P100,125,140VMH-E	PAC-KE89LAF	PAC-KE140TB-F	PAC-KE04DM-F	
PEFY-P200,250VMH-E	PAC-KE85LAF	PAC-KE250TB-F	PAC-KE04DM-F	
PEFY-P200,250VMHS-E	PAC-KE85LAF	PAC-KE250TB-F	PAC-KE05DM-F	

### PEFY-P-VMS1 (L) -E



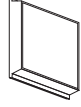
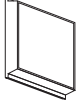
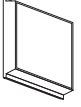
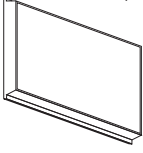
### PEFY-P-VMH (S) -E



7-2. Long-life filter


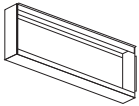
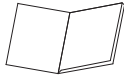
Life span: 2,500 hr (Dust concentration 0.15mg/m<sup>3</sup>)  
 \* The actual dust situation affects the filter life span, which should be considered at the applying site.  
 Material: Synthetic fiber unwoven cloth filter  
 Static pressure loss is referred to 6 "FAN CHARACTERISTICS CURVES".  
 Long-life filter should be used together with filter box PAC-KE-TB-F.

**PAC-KE-LAF**

Item	PAC-KE86LAF	PAC-KE88LAF	PAC-KE89LAF	PAC-KE85LAF
Quantity	2	3	3	2
	(298X300)	(298X300)	(298X300)	(411X600)
Shape				

Detailed installation information should be referred to its Installation Manual (WT02574X06)

**PAC-KE-TB-F**

Item	① Screw	② Filter box	③ Installation manual	
Quantity	10/12*	1	1	
Shape				*PAC-KE250TB has 12 pieces of screw.

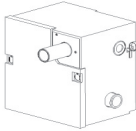




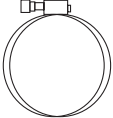


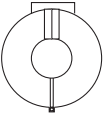
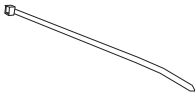


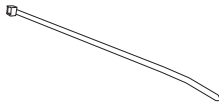
Detailed installation information should be referred to its Installation Manual (WT03018X02, WT03019X04)

## 7-3. Drain pump

PEFY

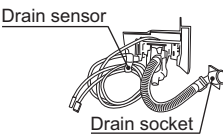
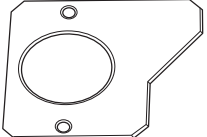






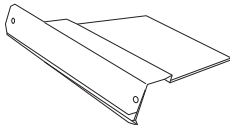
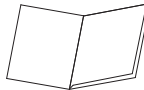
Drain pump is an optional part for VMS1L, and a standard for VMS1. When using drain pump, PAC-KE07DM-E (mounting type) is required.

### PAC-KE07DM-E

Item	① Drain pump	② Attachment	③ Drain hose 1 (385mm)	④ Pipe cover 1 (255mm)	⑤ Pipe cover 2 (200mm)
Quantity	1	1	1	1	1
Shape					
Item	⑥ Hose band	⑦ Screw	⑧ Clamp	⑨ Ferrite clamp	⑩ Band 1 (100mm)
Quantity	1	3	3	1	2
Shape					
Item	⑪ Drain hose 2 (175mm)	⑫ Pipe cover 3	⑬ Band 2 (380mm)		
Quantity	1	1	6		
Shape					

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-KE04DM-F can pump water up to 550mm [21-11/16 in.] high from the drain pan.

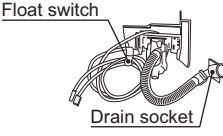


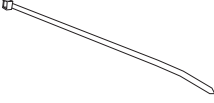


### PAC-KE04DM-F

Item	① Drain pump ass'y	② Separator	③ Rubber plug	④ Connector	⑤ Dummy connector
Quantity	1	1	2	1	1
Shape					
Item	⑥ Rubber bushing	⑦ Band	⑧ PTT screw 4X10	⑨ Fixing plate	⑩ Installation manual
Quantity	1	2	6+1 (spare)	1	1
Shape					

Detailed installation information should be referred to its Installation Manual (WT03312X07)

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-KE05DM-F can pump water up to 700mm [27-9/16 in.] high from the drain pan.

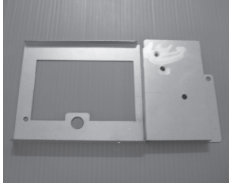
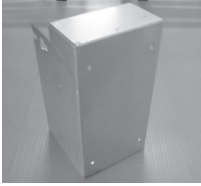
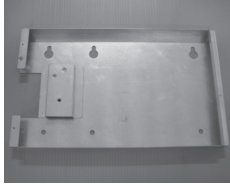
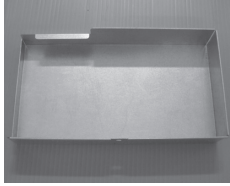
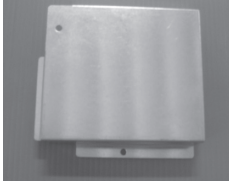










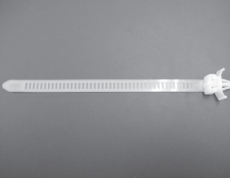




### PAC-KE05DM-F

Item	① Drain pump ass'y	② Rubber plug	③ Rubber bushing	④ Band	⑤ PTT screw 4X10
Quantity	1	2	1	2	6+1 (spare)
Shape					
Item	⑥ Installation manual				
Quantity	1				
Shape					

Detailed installation information should be referred to its Installation Manual (WT06249X01)

## 7-4. Control box replace kit

### PAC-KE70HS-E

Parts	① PLATE A	② PLATE B	③ PLATE C	④ COVER A
Q'ty	1	1	1	1
Shape				
Parts	⑤ COVER B	⑥ LEAD WIRE MOTOR	⑦ LEAD WIRE LEV	⑧ LEAD WIRE THM A
Q'ty	1	1	1	1
Shape		 White 7-pin connector	 White 6-pin connector	 White 4-pin connector
Parts	⑨ LEAD WIRE THM B	⑩ LEAD WIRE EARTH	⑪ LEAD WIRE PUMP	⑫ LEAD WIRE FS
Q'ty	1	1	1	1
Shape	 Red 2-pin connector	 Ring terminal on both ends	 Blue 3-pin connector	 White 4-pin connector
Parts	⑬ INSULATOR	⑭ Connecting terminals	⑮ BAND	⑯ CLAMP
Q'ty	3	4	6	4
Shape				
Parts	⑰ SCREW 1	⑱ SCREW 2	⑲ SCREW 3	⑳ FERRITE CORE
Q'ty	2	4	5	1
Shape	 4X10	 4X10 with a washer	 5X10 with a washer	

When installing the control box replace kit on the air inlet on the unit, ⑫ LEAD WIRE FS is not used.





**PEFY-P-VMA(L)-E**

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# 1. SPECIFICATIONS

EP-YKM

PEFY-VMA(L)

Model		PEFY-P20VMA-E	PEFY-P25VMA-E	PEFY-P32VMA-E	PEFY-P40VMA-E	
Power source		1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	
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 Power input kW	0.06	0.06	0.07	0.09	
	*2 Current input A	0.53	0.53	0.55	0.64	
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	
	*2 Power input kW	0.04	0.04	0.05	0.07	
	*2 Current input A	0.42	0.42	0.44	0.53	
External finish		Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD		mm 250 x 700 x 732	mm 250 x 700 x 732	mm 250 x 700 x 732	mm 250 x 900 x 732	
		inch 9-7/8 x 27-9/16 x 28-7/8	inch 9-7/8 x 27-9/16 x 28-7/8	inch 9-7/8 x 27-9/16 x 28-7/8	inch 9-7/8 x 35-7/16 x 28-7/8	
Net weight		kg(lbs) 23(51)	kg(lbs) 23(51)	kg(lbs) 23(51)	kg(lbs) 26(58)	
Heat exchanger		Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	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 1
	*4 External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
		mmH <sub>2</sub> O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output kW		0.085	0.085	0.085	0.085
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m <sup>3</sup> / min 6.0 - 7.5 - 8.5	m <sup>3</sup> / min 6.0 - 7.5 - 8.5	m <sup>3</sup> / min 7.5 - 9.0 - 10.5	m <sup>3</sup> / min 10.0 - 12.0 - 14.0
			L/s 100 - 125 - 142	L/s 100 - 125 - 142	L/s 125 - 150 - 175	L/s 167 - 200 - 233
			cfm 212 - 265 - 300	cfm 212 - 265 - 300	cfm 265 - 318 - 371	cfm 353 - 424 - 494
Sound pressure level (measured in anechoic room)		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
*2 *5 dB <A>		26-28-29	26-28-29	28-30-34	28-30-34	
*2 *6 dB <A>		23-25-26	23-25-26	23-26-29	23-27-30	
Insulation material		EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter		PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device		Fuse	Fuse	Fuse	Fuse	
Refrigerant control device		LEV	LEV	LEV	LEV	
Connectable outdoor unit		R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.) 6.35(1/4)Braze	mm(in.) 6.35(1/4)Braze	mm(in.) 6.35(1/4)Braze	mm(in.) 6.35(1/4)Braze	
	Gas (R410A)	mm(in.) 12.7(1/2)Braze	mm(in.) 12.7(1/2)Braze	mm(in.) 12.7(1/2)Braze	mm(in.) 12.7(1/2)Braze	
Field drain pipe size		mm(in.) O.D.32(1-1/4)	mm(in.) O.D.32(1-1/4)	mm(in.) O.D.32(1-1/4)	mm(in.) O.D.32(1-1/4)	
Drawing	External	IU-KB94-R528	IU-KB94-R528	IU-KB94-R528	IU-KB94-R528	
	Wiring	IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	
	Refrigerant cycle	-	-	-	-	
Standard attachment	Document	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Filter box	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE92TB-E	
Remarks		* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.				

Notes :	Unit converter
1.Nominal cooling conditions Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	kcal =kW x 860
2.The values are measured at the factory setting of external static pressure.	BTU/h =kW x 3,412
3.Nominal heating conditions Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	cfm =m <sup>3</sup> /min x 35.31
4.The factory setting of external static pressure is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	lbs =kg / 0.4536
5.Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-1 for details.	*Above specification data is subject to rounding variation.
6.Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-2 for details.	

# 1. SPECIFICATIONS

EP-YKM

PEFY-VMA(L)

Model			PEFY-P50VMA-E	PEFY-P63VMA-E	PEFY-P71VMA-E	PEFY-P80VMA-E	
Power source			1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	
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	Power input	kW	0.11	0.12	0.14	0.14
	*2	Current input	A	0.74	1.01	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	
	*2	Power input	kW	0.09	0.10	0.12	0.12
	*2	Current input	A	0.63	0.90	1.04	1.04
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD			mm	250 x 900 x 732	250 x 1,100 x 732	250 x 1,100 x 732	
			inch	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
Net weight			kg(lbs)	26(58)	32(71)	32(71)	
Heat exchanger			Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	
FAN			Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
Type x Quantity	*4	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
			mmH <sub>2</sub> O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor	DC motor	DC motor	DC motor	
	Motor output		kW	0.085	0.121	0.121	0.121
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)				
			m <sup>3</sup> / min	12.0 - 14.5 - 17.0	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
			L/s	200 - 242 - 283	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350
			cfm	424 - 512 - 600	477 - 565 - 671	512 - 636 - 742	512 - 636 - 742
	Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
*2 *5	dB <A>	28-32-35	29-32-36	30-34-38	30-34-38		
		*2 *6	dB <A>	25-29-32	25-29-33	26-29-34	26-29-34
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	6.35(1/4)Braze	9.52(3/8)Braze	9.52(3/8)Braze	9.52(3/8)Braze	
	Gas (R410A)	mm(in.)	12.7(1/2)Braze	15.88(5/8)Braze	15.88(5/8)Braze	15.88(5/8)Braze	
Field drain pipe size			mm(in.)	O.D.32(1-1/4)	O.D.32(1-1/4)	O.D.32(1-1/4)	
Drawing	External		IU-KB94-R528	IU-KB94-R528	IU-KB94-R528	IU-KB94-R528	
	Wiring		IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-E	PAC-KE93TB-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.				

Notes :	Unit converter
1.Nominal cooling conditions Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	kcal =kW x 860
2.The values are measured at the factory setting of external static pressure.	BTU/h =kW x 3,412
3.Nominal heating conditions Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	cfm =m <sup>3</sup> /min x 35.31
4.The factory setting of external static pressure is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	lbs =kg / 0.4536
5.Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-1 for details.	*Above specification data is subject to rounding variation.
6.Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-2 for details.	

# 1. SPECIFICATIONS

EP-YKM

PEFY-VMA(L)

Model			PEFY-P100VMA-E	PEFY-P125VMA-E	PEFY-P140VMA-E	
Power source			1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	
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	Power input	kW	0.24	0.34	0.36
	*2	Current input	A	1.47	2.05	2.21
	Heating capacity (Nominal)			12.5	16.0	18.0
	*3	kW	10,800	13,800	15,500	
	*3	kcal / h	42,700	54,600	61,400	
	*3	BTU / h	0.22	0.32	0.34	
	*2	Power input	kW	1.36	1.94	2.10
	*2	Current input	A			
	External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension HxWxD			mm	250 x 1,400 x 732	250 x 1,400 x 732	
			inch	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8
Net weight			kg(lbs)	42(93)	42(93)	
Heat exchanger			Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	
FAN			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
*4	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
		mmH <sub>2</sub> O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	
	Motor Type		DC motor	DC motor	DC motor	
	Motor output	kW	0.244	0.244	0.244	
	Driving mechanism		Direct-driven by motor*	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
		m <sup>3</sup> / min	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0	
		L/s	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700	
		cfm	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483	
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
*2 *5	dB <A>		32-37-41	35-40-44	36-41-45	
	dB <A>		28-33-37	32-36-40	33-37-42	
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	9.52(3/8)Braze	9.52(3/8)Braze	9.52(3/8)Braze	
	Gas (R410A)	mm(in.)	15.88(5/8)Braze	15.88(5/8)Braze	15.88(5/8)Braze	
Field drain pipe size			mm(in.)	O.D.32(1-1/4)	O.D.32(1-1/4)	
Drawing	External		IU-KB94-R528	IU-KB94-R528	IU-KB94-R528	
	Wiring		IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE94TB-E	PAC-KE94TB-E	PAC-KE95TB-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :	Unit converter
1.Nominal cooling conditions Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	kcal =kW x 860
2.The values are measured at the factory setting of external static pressure.	BTU/h =kW x 3,412
3.Nominal heating conditions Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	cfm =m <sup>3</sup> /min x 35.31
4.The factory setting of external static pressure is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	lbs =kg / 0.4536
5.Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-1 for details.	*Above specification data is subject to rounding variation.
6.Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-2 for details.	

# 1. SPECIFICATIONS

EP-YKM

PEFY-VMAL(L)

Model			PEFY-P20VMAL-E	PEFY-P25VMAL-E	PEFY-P32VMAL-E	PEFY-P40VMAL-E	
Power source			1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	
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	Power input	kW	0.04	0.04	0.05	0.07
		Current input	A	0.42	0.42	0.44	0.53
	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	
*2		Power input	kW	0.04	0.04	0.05	0.07
		Current input	A	0.42	0.42	0.44	0.53
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD			mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	
			inch	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net weight			kg(lbs)	22(49)	22(49)	25(56)	
Heat exchanger			Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	
FAN			Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	
*4	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	
	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
		mmH <sub>2</sub> O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	
	Motor Type		DC motor	DC motor	DC motor	DC motor	
	Motor output		kW	0.085	0.085	0.085	
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
			m <sup>3</sup> / min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0
			L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233
			cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
*2 *5	dB <A>		26-28-29	26-28-29	28-30-34	28-30-34	
	dB <A>		23-25-26	23-25-26	23-26-29	23-27-30	
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	6.35(1/4)Braze	6.35(1/4)Braze	6.35(1/4)Braze	6.35(1/4)Braze	
	Gas (R410A)	mm(in.)	12.7(1/2)Braze	12.7(1/2)Braze	12.7(1/2)Braze	12.7(1/2)Braze	
Field drain pipe size			mm(in.)	O.D.32(1-1/4)	O.D.32(1-1/4)	O.D.32(1-1/4)	
Drawing	External		IU-KB94-R548	IU-KB94-R548	IU-KB94-R548	IU-KB94-R548	
	Wiring		IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE91TB-E	PAC-KE92TB-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.				

Notes :	Unit converter
1. Nominal cooling conditions Indoor: 27°C DB / 19°C CWB (81°F DB / 66°F CWB), Outdoor: 35°C DB (95°F DB) Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)	kcal = kW x 860
2. The values are measured at the factory setting of external static pressure.	BTU/h = kW x 3,412
3. Nominal heating conditions Indoor: 20°C DB (68°F DB), Outdoor: 7°C DB / 6°C CWB (45°F DB / 43°F CWB) Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)	cfm = m <sup>3</sup> /min x 35.31
4. The factory setting of external static pressure is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	lbs = kg / 0.4536
5. Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-1 for details.	*Above specification data is subject to rounding variation.
6. Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-2 for details.	

# 1. SPECIFICATIONS

EP-YKM

PEFY-VMA(L)

Model			PEFY-P50VMAL-E	PEFY-P63VMAL-E	PEFY-P71VMAL-E	PEFY-P80VMAL-E	
Power source			1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	
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	Power input	kW	0.09	0.10	0.12	0.12
		Current input	A	0.63	0.90	1.04	1.04
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	
	*2	Power input	kW	0.09	0.10	0.12	0.12
		Current input	A	0.63	0.90	1.04	1.04
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD			mm	250 x 900 x 732	250 x 1,100 x 732	250 x 1,100 x 732	
			inch	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
Net weight			kg(lbs)	25(56)	31(69)	31(69)	
Heat exchanger			Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	
FAN			Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
*4	Type x Quantity		Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	
		mmH <sub>2</sub> O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	
	Motor Type		DC motor	DC motor	DC motor	DC motor	
	Motor output		kW	0.085	0.121	0.121	
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)				
			m <sup>3</sup> / min	12.0 - 14.5 - 17.0	13.5 - 16.0 - 19.0	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0
			L/s	200 - 242 - 283	225 - 267 - 317	242 - 300 - 350	242 - 300 - 350
			cfm	424 - 512 - 600	477 - 565 - 671	512 - 636 - 742	512 - 636 - 742
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
*2 *5	dB <A>		28-32-35	29-32-36	30-34-38	30-34-38	
	dB <A>		25-29-32	25-29-33	26-29-34	26-29-34	
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	6.35(1/4)Braze	9.52(3/8)Braze	9.52(3/8)Braze	9.52(3/8)Braze	
	Gas (R410A)	mm(in.)	12.7(1/2)Braze	15.88(5/8)Braze	15.88(5/8)Braze	15.88(5/8)Braze	
Field drain pipe size			mm(in.)	O.D.32(1-1/4)	O.D.32(1-1/4)	O.D.32(1-1/4)	
Drawing	External		IU-KB94-R548	IU-KB94-R548	IU-KB94-R548	IU-KB94-R548	
	Wiring		IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE93TB-E	PAC-KE93TB-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.				

Notes :	Unit converter
1. Nominal cooling conditions Indoor: 27°CDB/19°CWB(81°FDB/66°FWB), Outdoor: 35°CDB(95°FDB) Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)	kcal =kW x 860 BTU/h =kW x 3,412 cfm =m <sup>3</sup> /min x 35.31 lbs =kg / 0.4536
2. The values are measured at the factory setting of external static pressure.	
3. Nominal heating conditions Indoor: 20°CDB(68°FDB), Outdoor: 7°CDB/6°CWB(45°FDB/43°FWB) Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)	
4. The factory setting of external static pressure is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	
5. Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-1 for details.	
6. Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-2 for details.	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Model			PEFY-P100VMAL-E	PEFY-P125VMAL-E	PEFY-P140VMAL-E	
Power source			1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	1-phase 220-230-240V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	11.2	14.0	16.0	
		kcal / h	9,600	12,000	13,800	
		BTU / h	38,200	47,800	54,600	
	*2	Power input	kW	0.22	0.32	0.34
	*2	Current input	A	1.36	1.94	2.10
Heating capacity (Nominal)	*3	kW	12.5	16.0	18.0	
		kcal / h	10,800	13,800	15,500	
		BTU / h	42,700	54,600	61,400	
	*2	Power input	kW	0.22	0.32	0.34
	*2	Current input	A	1.36	1.94	2.10
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	
External dimension HxWxD			mm	250 x 1,400 x 732	250 x 1,400 x 732	
			inch	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8
Net weight			kg(lbs)	41(91)	45(100)	
Heat exchanger			Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	Cross fin(Aluminum fin and copper tube)	
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	
	*4	External static press.	Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
			mmH <sub>2</sub> O	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>	<3.6> - 5.1 - <7.1> - <10.2> - <15.3>
	Motor Type		DC motor	DC motor	DC motor	
	Motor output		kW	0.244	0.244	0.244
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	
	Air flow rate		(Low-Mid-High)			
			m <sup>3</sup> / min	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0
L/s			383 - 467 - 550	467 - 567 - 667	492 - 592 - 700	
		cfm	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483	
Sound pressure level (measured in anechoic room)			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	
		*2 *5	dB <A>	32-37-41	35-40-44	36-41-45
		*2 *6	dB <A>	28-33-37	32-36-40	33-37-42
Insulation material			EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	EPS, Polyethylene foam, Urethane foam	
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	9.52(3/8)Braze	9.52(3/8)Braze	9.52(3/8)Braze	
	Gas (R410A)	mm(in.)	15.88(5/8)Braze	15.88(5/8)Braze	15.88(5/8)Braze	
Field drain pipe size			mm(in.)	O.D.32(1-1/4)	O.D.32(1-1/4)	
Drawing	External		IU-KB94-R548	IU-KB94-R548	IU-KB94-R548	
	Wiring		IU-KB94-R069	IU-KB94-R069	IU-KB94-R069	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	Insulation pipe for refrigerant pipe, Washer, Drain hose, Tie band	
Optional parts	Filter box		PAC-KE94TB-E	PAC-KE94TB-E	PAC-KE95TB-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :	1.Nominal cooling conditions Indoor:27°CDB/19°CWB(81°FDB/66°FWB), Outdoor:35°CDB(95°FDB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	Unit converter kcal =kW x 860 BTU/h =kW x 3,412 cfm =m <sup>3</sup> /min x 35.31 lbs =kg / 0.4536
	2.The values are measured at the factory setting of external static pressure.	
3.Nominal heating conditions Indoor:20°CDB(68°FDB), Outdoor:7°CDB/6°CWB(45°FDB/43°FWB) Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)	4.The factory setting of external static pressure is shown without < > . Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.	*Above specification data is subject to rounding variation.
	5.Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-1 for details.	
6.Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit. Refer to 5-1-2 for details.		



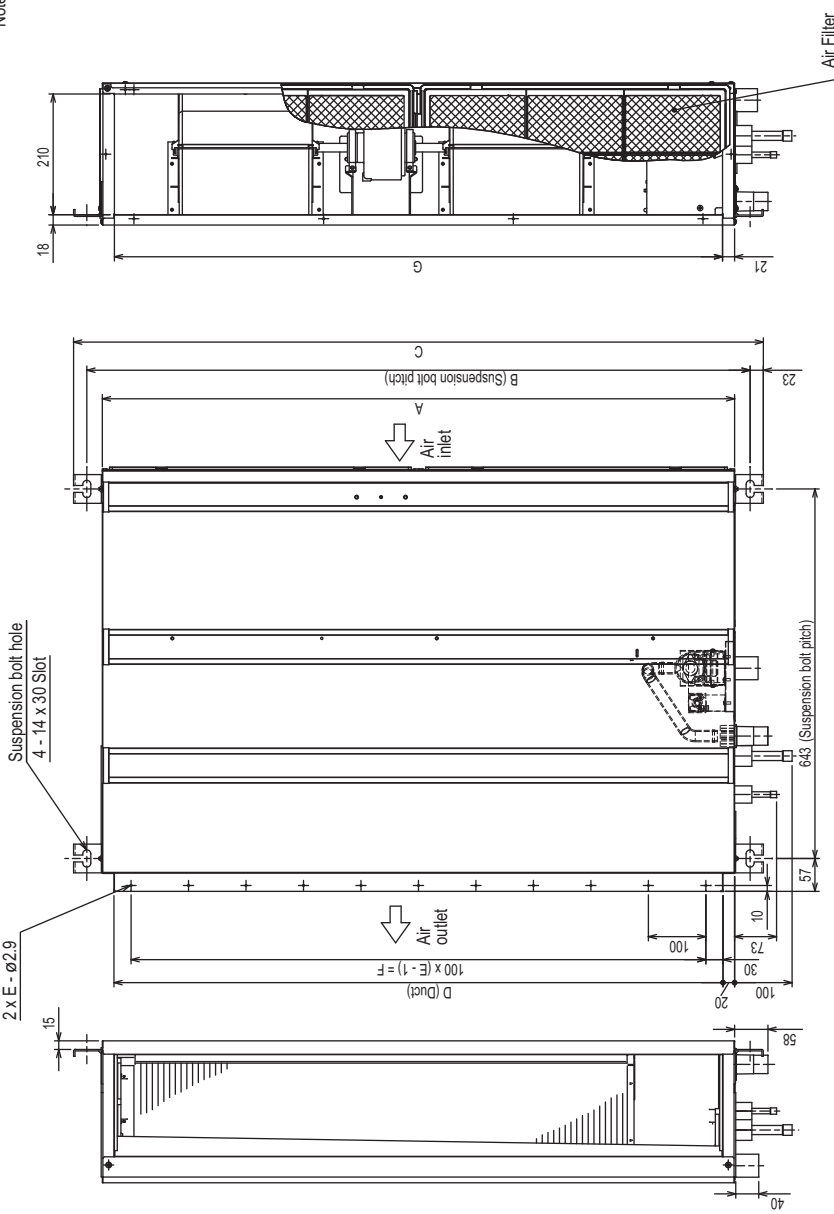
# 2. EXTERNAL DIMENSIONS

EP-YKM

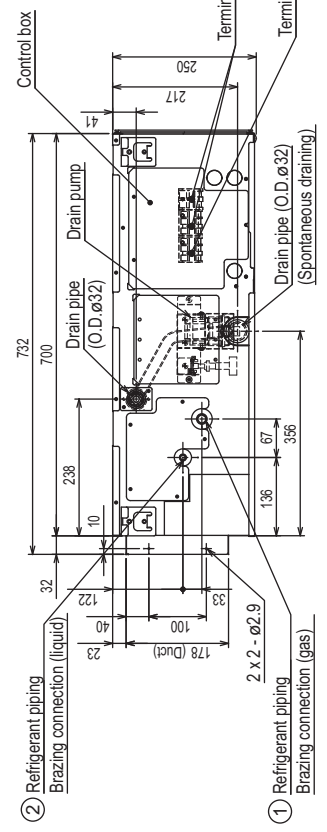
PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E

Unit : mm

- Note 1. Use M10 screw for the Suspension bolt (field supply).  
 2. Keep the service space for the maintenance at the bottom.  
 3. This chart indicates for PEFY-P63-71-80-100-125-140VMA-E models, which have 2 fans. PEFY-P20-25-32-40-50VMA-E models have 1 fan.  
 4. In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



Model	A	B	C	D	E	F	G	① Gas pipe	② Liquid pipe
PEFY-P20, 25, 32VMA-E	700	754	800	660	7	600	658	ø12.7	ø6.35
PEFY-P40, 50VMA-E	900	954	1000	860	9	800	858	ø15.88	ø9.52
PEFY-P63, 71, 80VMA-E	1100	1154	1200	1060	11	1000	1058	ø15.88	ø9.52
PEFY-P100, 125VMA-E	1400	1454	1500	1360	14	1300	1358	ø15.88	ø9.52
PEFY-P140VMA-E	1600	1654	1700	1560	16	1500	1558	ø15.88	ø9.52

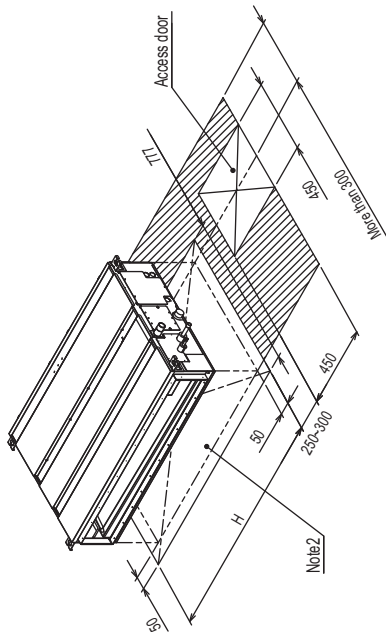
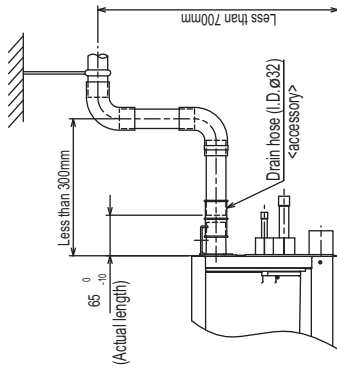


## 2. EXTERNAL DIMENSIONS

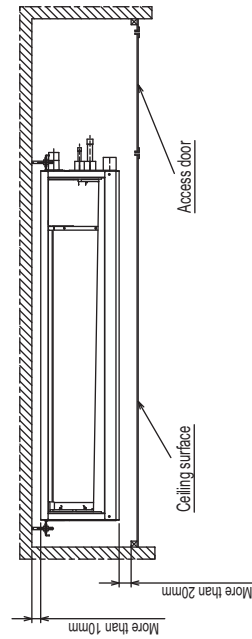
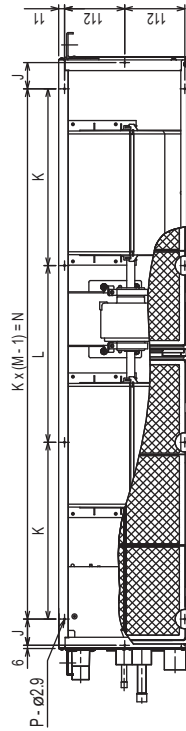
EP-YKM

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E

Unit : mm



Required space for service and maintenance



Make the access door at the appointed position properly for service maintenance.

Model	H	J	K	L	M	N	P
PEFY-P20,25,32VMA-E	800	44	150	300			10
PEFY-P40VMA-E					4	780	10
PEFY-P50VMA-E	1000	54	260				
PEFY-P63,71,80VMA-E	1200	49	330		4	990	10
PEFY-P100,125VMA-E	1500	54	320		5	1280	12
PEFY-P140VMA-E	1700	54	370		5	1480	12

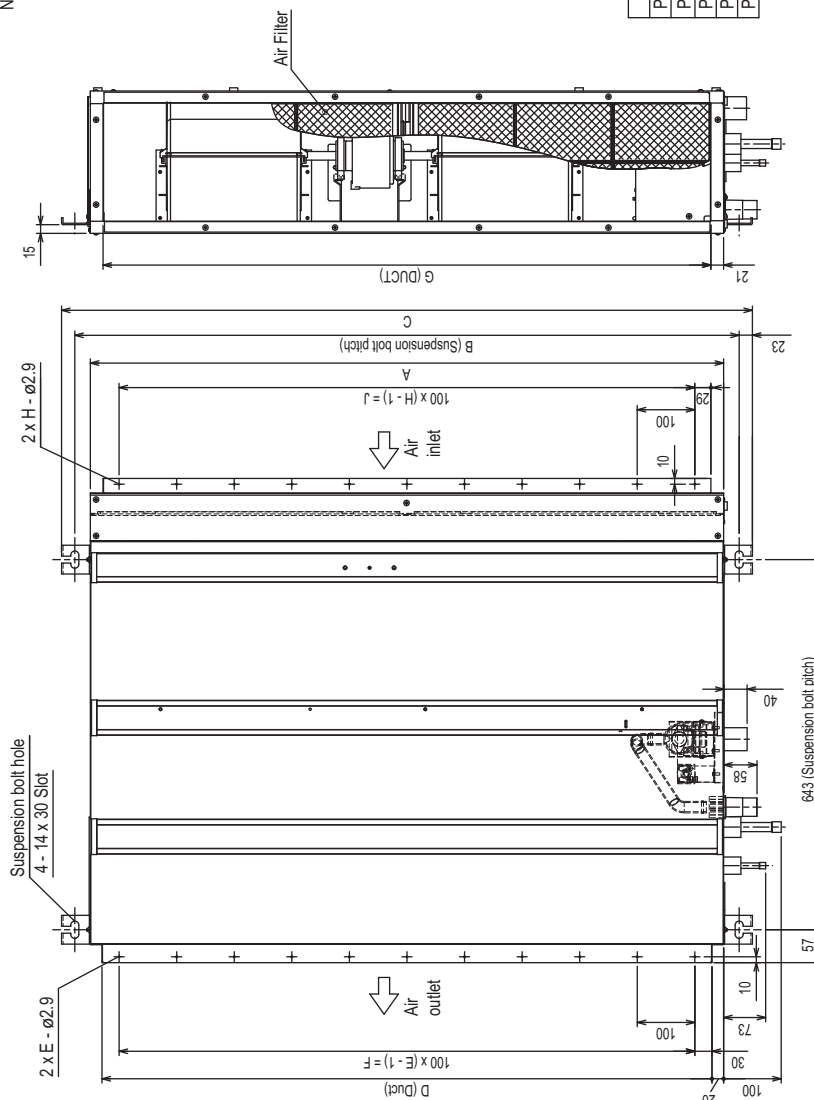
## 2. EXTERNAL DIMENSIONS

EP-YKM

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E with filter box

Unit : mm

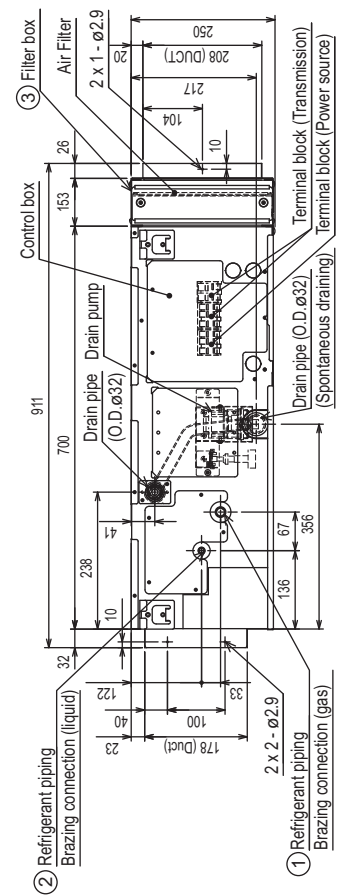
- Note 1. Use M10 screw for the Suspension bolt (field supply).  
 2. Keep the service space for the maintenance at the bottom.  
 3. This chart indicates for PEFY-P63,71,80,100,125,140VMA-E models, which have 2 fans. PEFY-P20,25,32,40,50VMA-E models have 1 fan.  
 4. Use air filter installed with indoor unit.



Model	① Gas pipe	② Liquid pipe	③ Filter box
PEFY-P20,25,32VMA-E	ø12.7	ø6.35	PAC-KE9TB-E
PEFY-P40,50VMA-E	ø15.88	ø9.52	PAC-KE9TB-E
PEFY-P63,71,80VMA-E			PAC-KE9TB-E
PEFY-P100,125VMA-E			PAC-KE9TB-E
PEFY-P140VMA-E			PAC-KE9TB-E

Model	A	B	C	D	E	F	G	H	J
PEFY-P20,25,32VMA-E	700	754	800	660	7	600	658	7	600
PEFY-P40,50VMA-E	900	954	1000	860	9	800	858	9	800
PEFY-P63,71,80VMA-E	1100	1154	1200	1060	11	1000	1058	11	1000
PEFY-P100,125VMA-E	1400	1454	1500	1360	14	1300	1358	14	1300
PEFY-P140VMA-E	1600	1654	1700	1560	16	1500	1558	16	1500

<Suction filter box built-in specification>

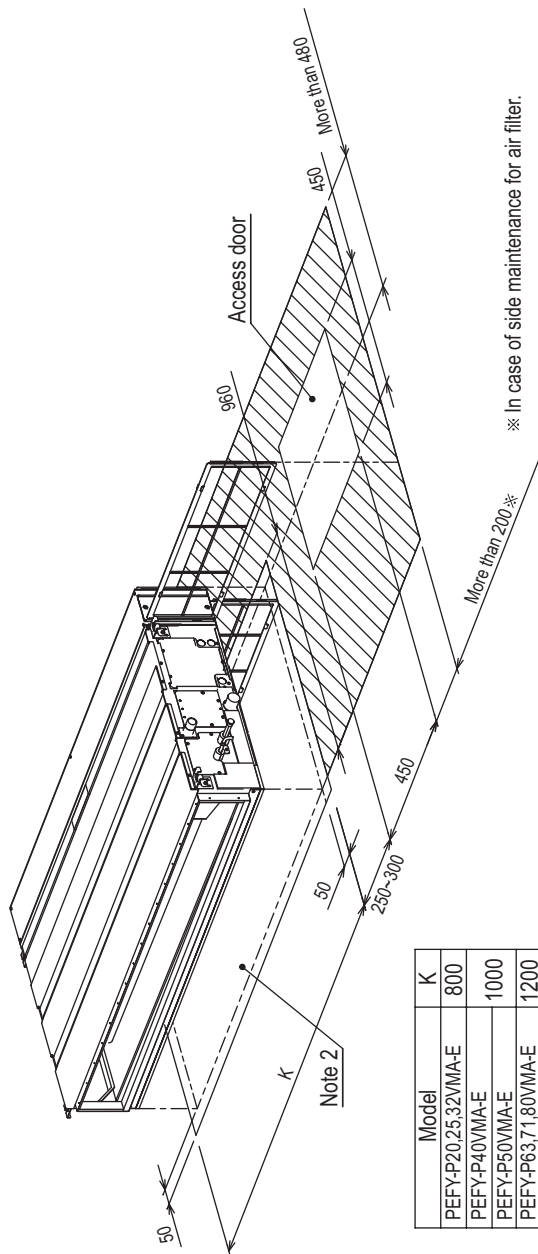
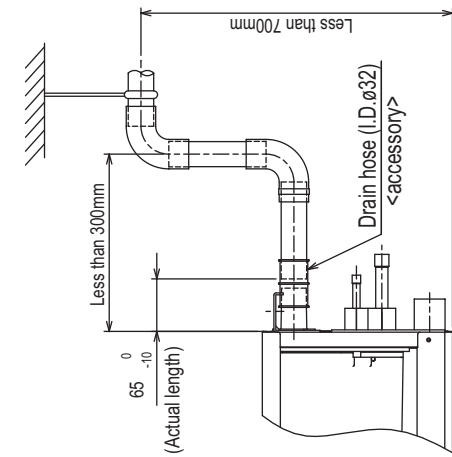


## 2. EXTERNAL DIMENSIONS

EP-YKM

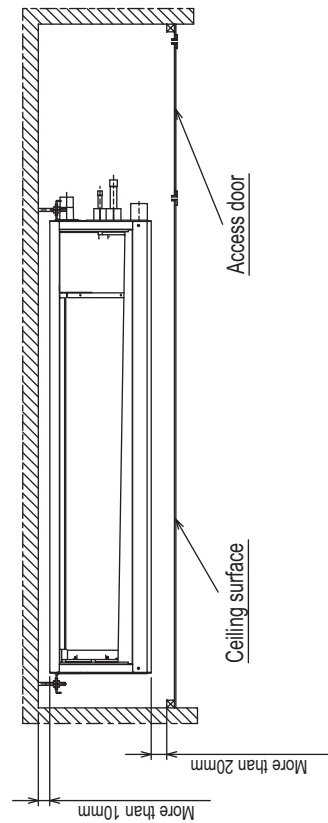
PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E with filter box

Unit : mm



Model	K
PEFY-P20,25,32VMA-E	800
PEFY-P40VMA-E	1000
PEFY-P50VMA-E	1200
PEFY-P63,71,80VMA-E	1500
PEFY-P100,125VMA-E	1700
PEFY-P140VMA-E	1700

Required space for service and maintenance



Make the access door at the appointed position properly for service maintenance.

PEFY-VMA(L)

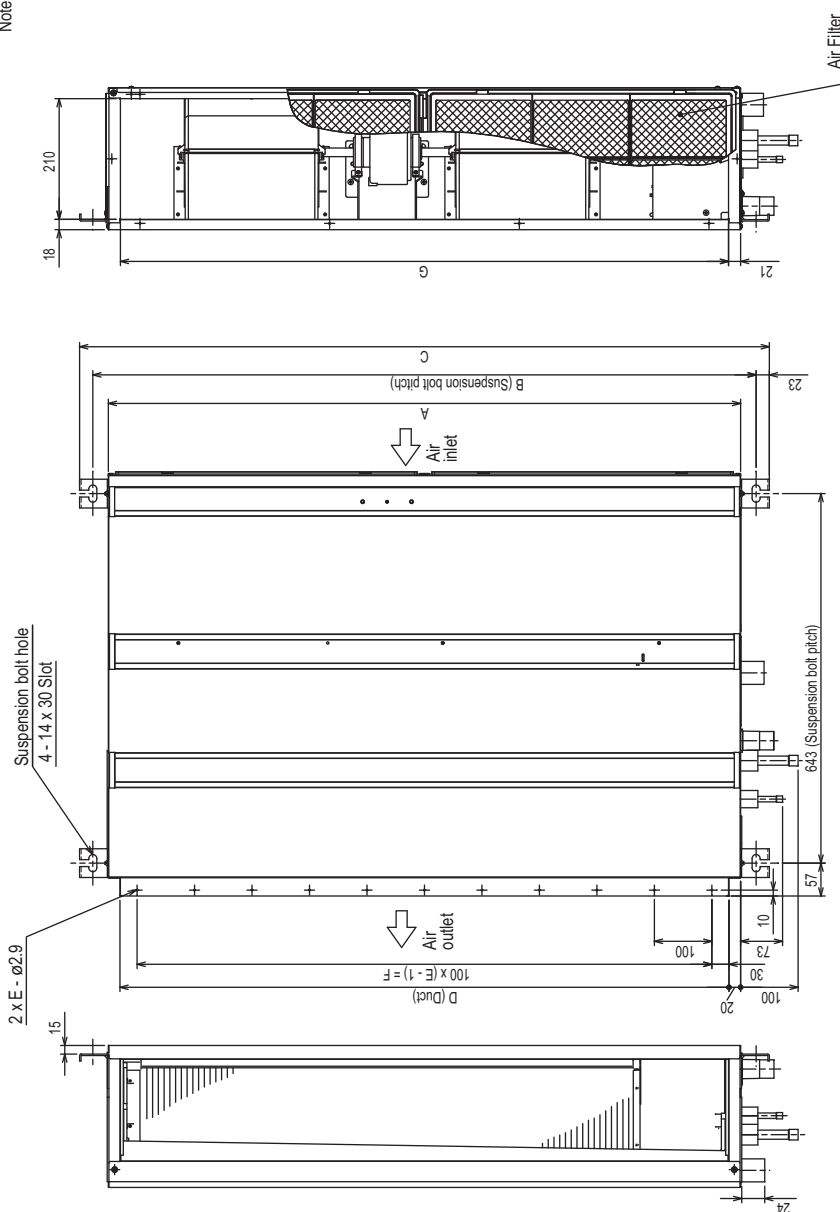
## 2. EXTERNAL DIMENSIONS

EP-YKM

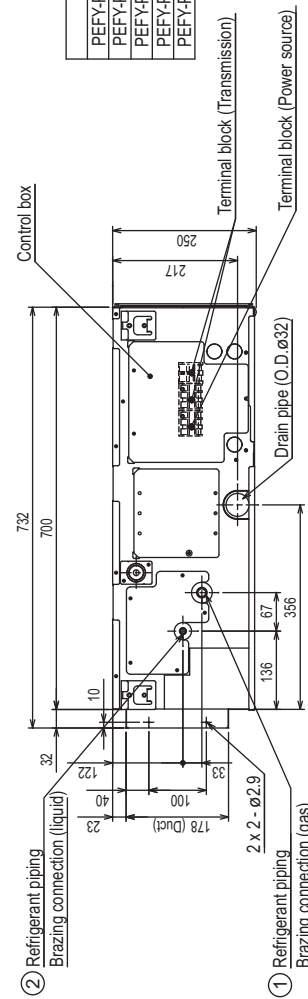
PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-E

Unit : mm

- Note
1. Use M10 screw for the Suspension bolt (field supply).
  2. Keep the service space for the maintenance at the bottom.
  3. This chart indicates for PEFY-P63-71-80-100-125-140VMAL-E models, which have 2 fans. PEFY-P20-25-32-40-50VMAL-E models have 1 fan.
  4. In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



Model	A	B	C	D	E	F	G	① Gas pipe	② Liquid pipe
PEFY-P20,25,32VMAL-E	700	754	800	660	7	600	658	ø12.7	ø6.35
PEFY-P40,50VMAL-E	900	954	1000	860	9	800	858		
PEFY-P63,71,80VMAL-E	1100	1154	1200	1060	11	1000	1058		
PEFY-P100,125VMAL-E	1400	1454	1500	1360	14	1300	1358		
PEFY-P140VMAL-E	1600	1654	1700	1560	16	1500	1558		





# 2. EXTERNAL DIMENSIONS

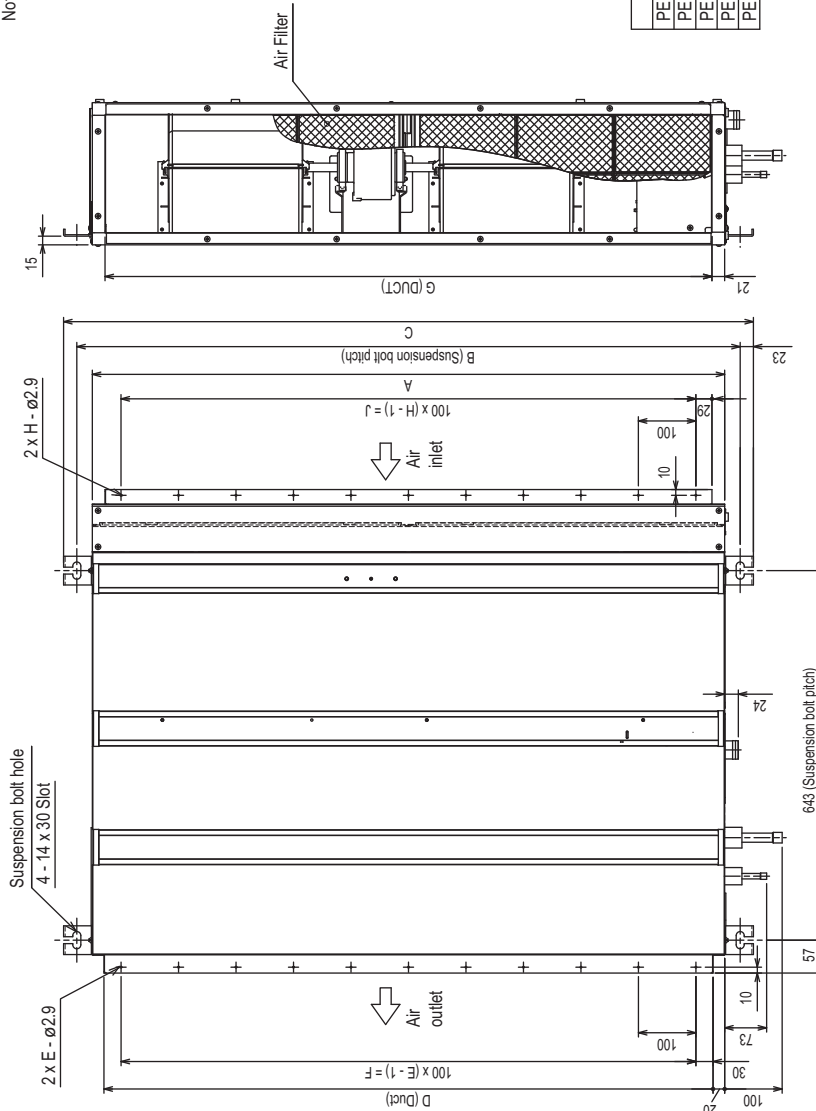
EP-YKM

PEFY-VMA(L)

## PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-E with filter box

Unit : mm

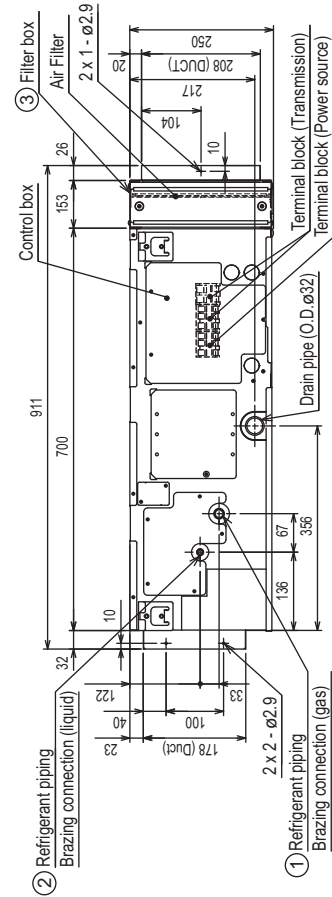
- Note 1. Use M10 screw for the Suspension bolt (field supply).
- 2. Keep the service space for the maintenance at the bottom.
- 3. This chart indicates for PEFY-P63, 71, 80, 100, 125, 140VMAL-E models, which have 2 fans. PEFY-P20, 25, 32, 40, 50VMAL-E models have 1 fan.
- 4. Use air filter installed with indoor unit.



Model	① Gas pipe	② Liquid pipe	③ Filter box
PEFY-P20, 25, 32VMAL-E	ø12.7	ø6.35	PAC-XE91TB-E
PEFY-P40, 50VMAL-E	ø15.88	ø6.35	PAC-XE92TB-E
PEFY-P63, 71, 80VMAL-E	ø15.88	ø9.52	PAC-XE93TB-E
PEFY-P100, 125VMAL-E	ø15.88	ø9.52	PAC-XE94TB-E
PEFY-P140VMAL-E	ø15.88	ø9.52	PAC-XE95TB-E

Model	A	B	C	D	E	F	G	H	J
PEFY-P20, 25, 32VMAL-E	700	754	800	660	7	600	658	7	600
PEFY-P40, 50VMAL-E	900	954	1000	860	9	800	858	9	800
PEFY-P63, 71, 80VMAL-E	1100	1154	1200	1060	11	1000	1058	11	1000
PEFY-P100, 125VMAL-E	1400	1454	1500	1360	14	1300	1358	14	1300
PEFY-P140VMAL-E	1600	1654	1700	1560	16	1500	1558	16	1500

<Suction filter box built-in specification>

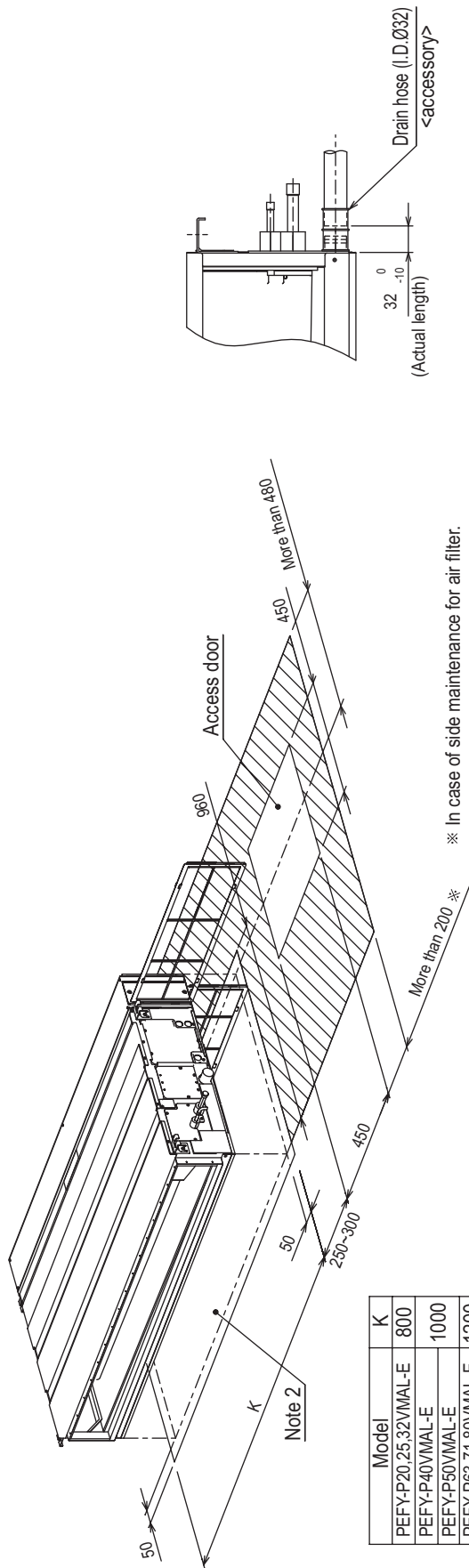


## 2. EXTERNAL DIMENSIONS

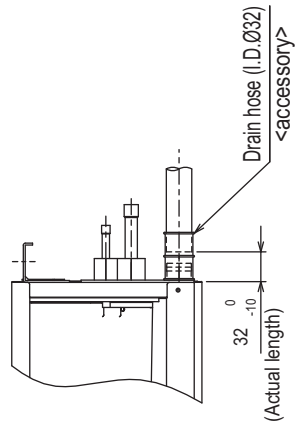
EP-YKM

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-E with filter box

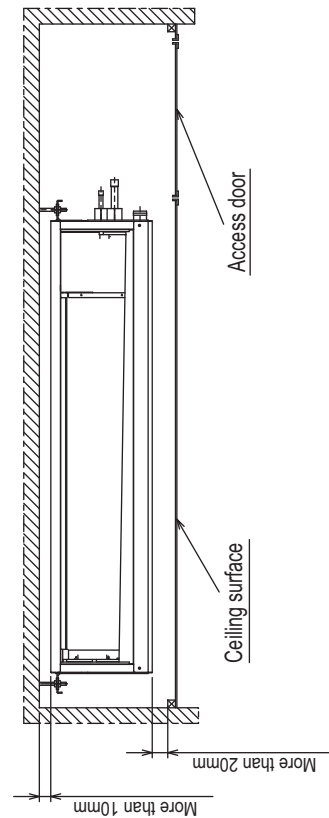
Unit : mm



Model	K
PEFY-P20,25,32VMAL-E	800
PEFY-P40VMAL-E	1000
PEFY-P50VMAL-E	1200
PEFY-P63,71,80VMAL-E	1500
PEFY-P100,125VMAL-E	1700
PEFY-P140VMAL-E	1700



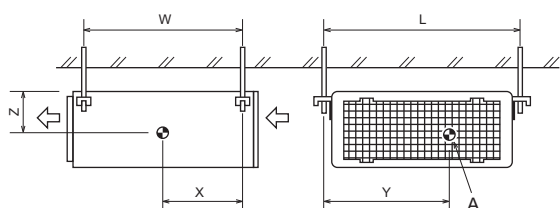
Required space for service and maintenance



Make the access door at the appointed position properly for service maintenance.



#### PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-E



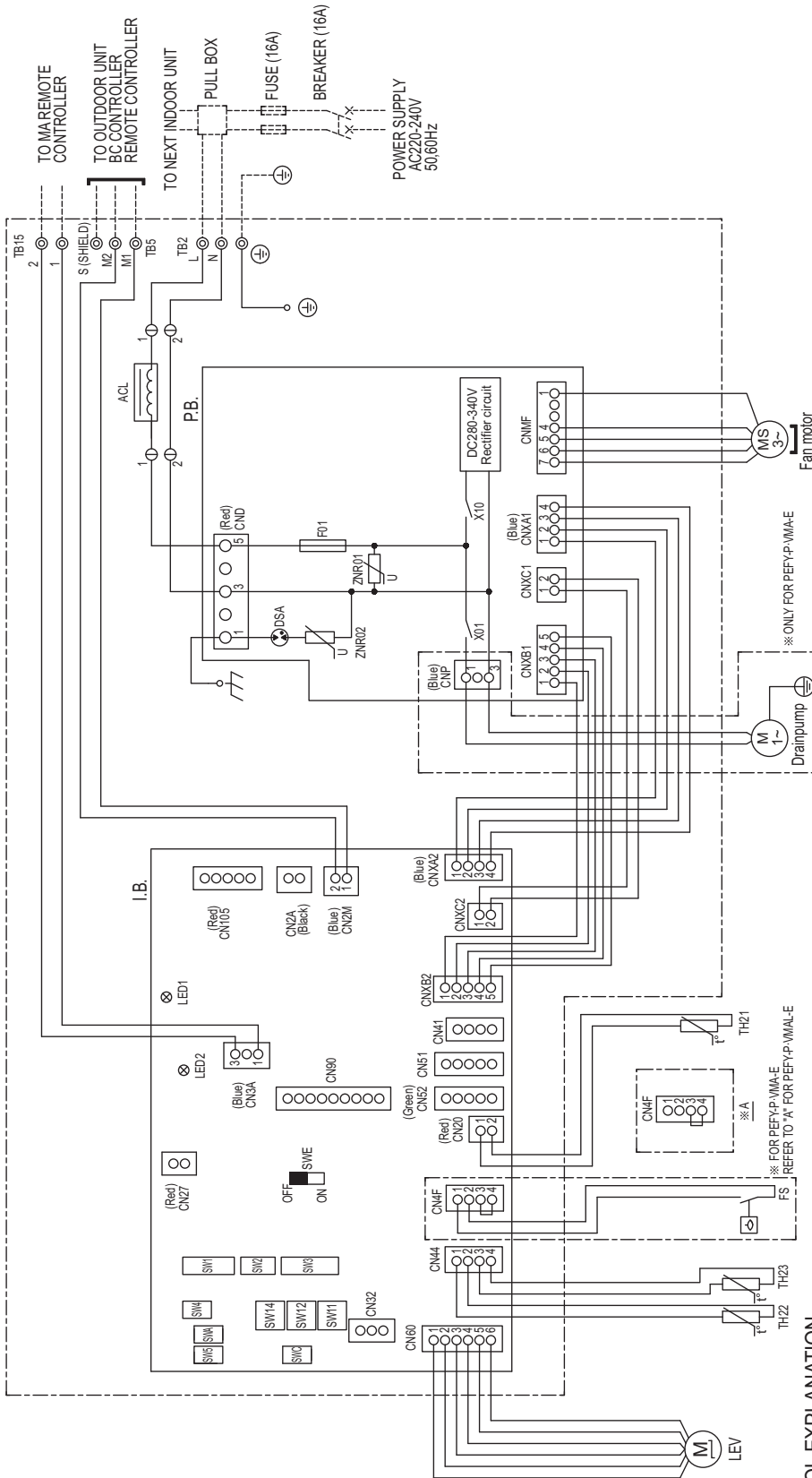
A : Center of gravity

(mm)[in]

Model name	W	L	X	Y	Z
PEFY-P20VMA(L)-E	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 - 13/16]	130 [5 - 2/16]
PEFY-P25VMA(L)-E	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 - 13/16]	130 [5 - 2/16]
PEFY-P32VMA(L)-E	643 [25 - 6/16]	754 [29 - 11/16]	330 [13]	300 [11 - 13/16]	130 [5 - 2/16]
PEFY-P40VMA(L)-E	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 - 13/16]	130 [5 - 2/16]
PEFY-P50VMA(L)-E	643 [25 - 6/16]	954 [37 - 9/16]	340 [13 - 7/16]	375 [14 - 13/16]	130 [5 - 2/16]
PEFY-P63VMA(L)-E	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 - 11/16]	130 [5 - 2/16]
PEFY-P71VMA(L)-E	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 - 11/16]	130 [5 - 2/16]
PEFY-P80VMA(L)-E	643 [25 - 6/16]	1154 [45 - 7/16]	325 [12 - 13/16]	525 [20 - 11/16]	130 [5 - 2/16]
PEFY-P100VMA(L)-E	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 - 10/16]	130 [5 - 2/16]
PEFY-P125VMA(L)-E	643 [25 - 6/16]	1454 [57 - 4/16]	330 [13]	675 [26 - 10/16]	130 [5 - 2/16]
PEFY-P140VMA(L)-E	643 [25 - 6/16]	1654 [65 - 2/16]	332 [13 - 2/16]	725 [28 - 9/16]	130 [5 - 2/16]

## PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-E

### INSIDE SECTION OF CONTROL BOX



### SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	CN41	Connector (HA terminal-A)	SW4 (I.B.)	Switch (for mode selection)
P.B.	Power supply board	CN51	Connector (Centrally control)	SW5 (I.B.)	Switch (for mode selection)
TB2	Power source terminal block	CN52	Connector (Remote indication)	SW11 (I.B.)	Switch (1s digit address set)
TB5	Transmission terminal block	CN90	Connector (Wireless)	SW12 (I.B.)	Switch (10ths digit address set)
TB15	Transmission terminal block	CN105	Connector (IT terminal)	SW14 (I.B.)	Switch (BRANCH No.)
F01	Fuse AC250V 6.3A	CN2A	Connector (0-10V Analog input)	SWA (I.B.)	Switch (for static pressure selection)
ZNR01.02	Varistor	FS	Float switch	SWC (I.B.)	Switch (for static pressure selection)
DSA	Arrester	TH21	Thermistor (inlet air temp. detection)	SWE (I.B.)	Connector (emergency operation)
X01	Aux. relay	TH22	Thermistor (piping temp. detection/liquid)	LED1	LED (Power supply)
X10	Aux. relay	TH23	Thermistor (piping temp. detection/gas)	LED2	LED (Remote controller supply)
ACL	AC reactor (Power factor improvement)	SW1 (I.B.)	Switch (for mode selection)		
CN27	Connector (Dampner)	SW2 (I.B.)	Switch (for capacity code)		
CN32	Connector (Remote switch)	SW3 (I.B.)	Switch (for mode selection)		

NOTE: 1. The wirings to TB2, TB5, TB15 shown in dotted line are field work.  
 2. Mark ⊙ indicates terminal block, ○ connector.

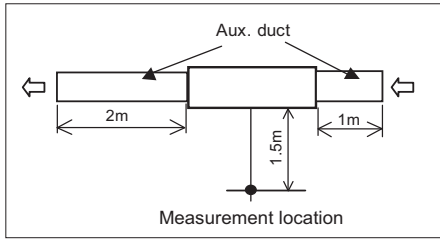
PEFY-VMA(L)

5-1. Sound levels

5-1-1. Sound levels (Measured point : With 1m air inlet duct and 2m air outlet duct)

PEFY-VMA(L)

PEFY-P-VMA(L)-E



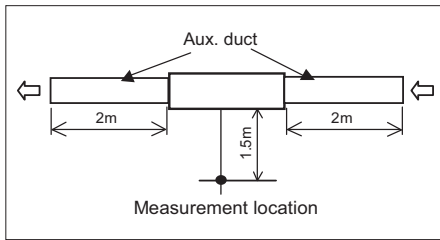
\* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

Model	Sound level dB(A)				
	35Pa	50Pa	70Pa	100Pa	150Pa
PEFY-P20VMA(L)-E	26-27-28	26-28-29	26-29-31	27-30-33	28-33-37
PEFY-P25VMA(L)-E	26-27-28	26-28-29	26-29-31	27-30-33	28-33-37
PEFY-P32VMA(L)-E	28-30-34	28-30-34	29-32-36	29-33-37	31-35-40
PEFY-P40VMA(L)-E	28-30-34	28-30-34	29-32-36	29-33-37	32-36-40
PEFY-P50VMA(L)-E	28-31-35	28-32-35	29-33-37	30-34-38	32-37-41
PEFY-P63VMA(L)-E	29-32-35	29-32-36	30-33-38	31-35-39	33-38-41
PEFY-P71VMA(L)-E	30-33-37	30-34-38	31-36-39	33-37-41	36-41-44
PEFY-P80VMA(L)-E	30-33-37	30-34-38	31-36-39	33-37-41	36-41-44
PEFY-P100VMA(L)-E	31-36-40	32-37-41	33-38-42	35-39-43	37-42-45
PEFY-P125VMA(L)-E	35-40-44	35-40-44	37-41-45	38-42-46	39-44-47
PEFY-P140VMA(L)-E	36-41-45	36-41-45	38-42-46	39-43-47	40-45-48

5-1-2. Sound levels (Measured point : With 2m air inlet duct and 2m air outlet duct)

PEFY-P-VMA(L)-E



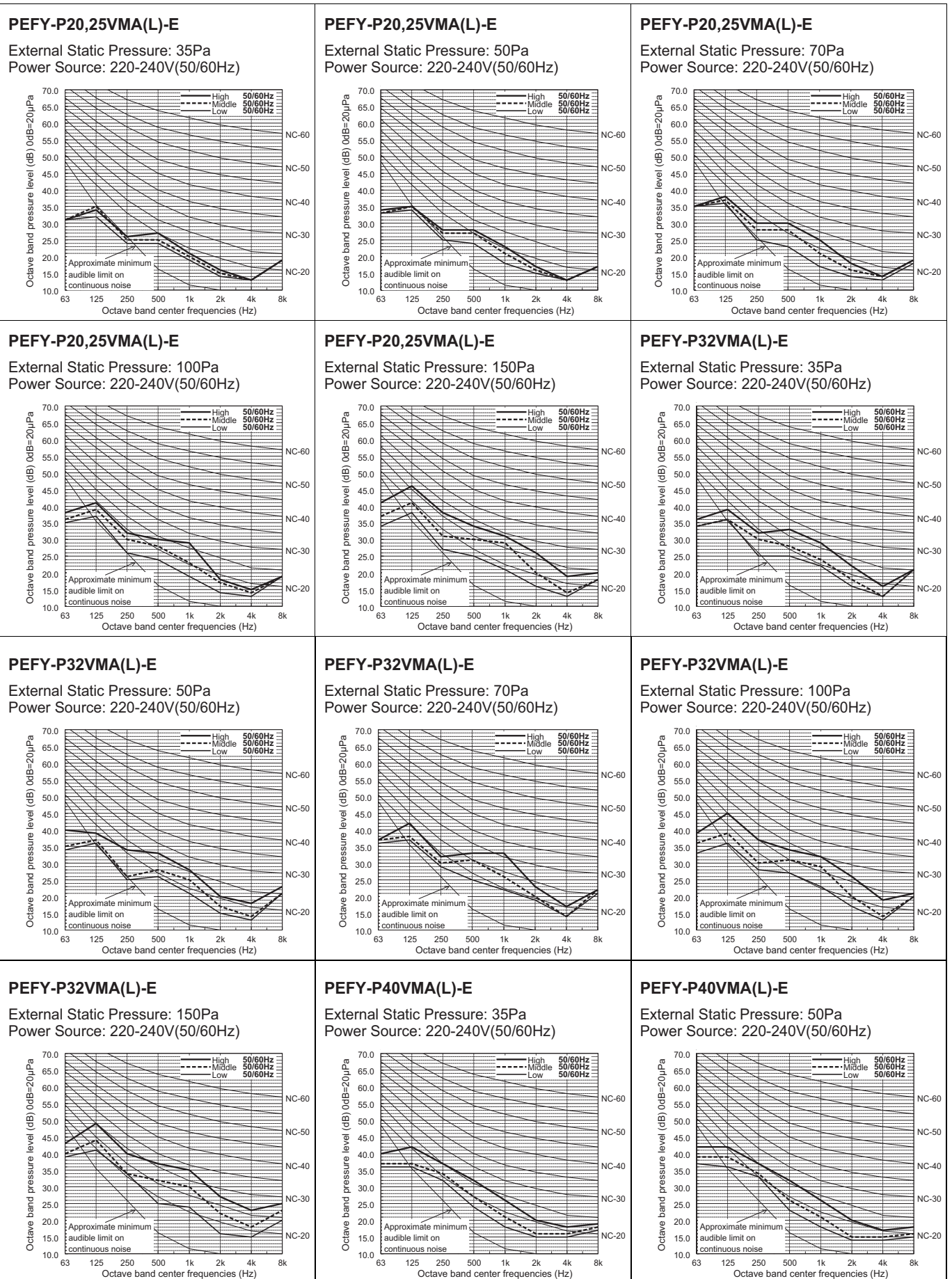
\* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

Model	Sound level dB(A)				
	35Pa	50Pa	70Pa	100Pa	150Pa
PEFY-P20VMA(L)-E	23-24-25	23-25-26	23-26-28	24-27-30	25-30-34
PEFY-P25VMA(L)-E	23-24-25	23-25-26	23-26-28	24-27-30	25-30-34
PEFY-P32VMA(L)-E	23-25-28	23-26-29	24-27-30	25-28-32	28-32-36
PEFY-P40VMA(L)-E	23-26-29	23-27-30	24-28-31	26-29-33	29-33-37
PEFY-P50VMA(L)-E	24-28-31	25-29-32	26-30-33	27-31-34	29-34-38
PEFY-P63VMA(L)-E	25-28-32	25-29-33	26-30-34	27-31-35	29-34-38
PEFY-P71VMA(L)-E	26-29-33	26-29-34	26-30-35	29-33-37	32-37-41
PEFY-P80VMA(L)-E	26-29-33	26-29-34	26-30-35	29-33-37	32-37-41
PEFY-P100VMA(L)-E	28-32-36	28-33-37	30-35-39	31-36-40	33-38-43
PEFY-P125VMA(L)-E	31-35-39	32-36-40	32-37-41	33-39-42	37-40-44
PEFY-P140VMA(L)-E	31-35-40	33-37-42	34-38-43	35-39-44	37-41-45

5-2. NC curves

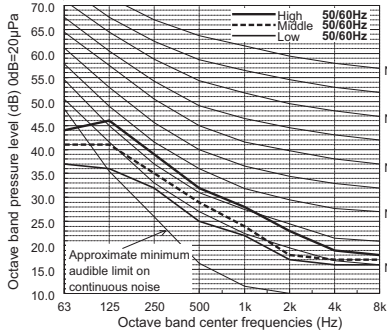
5-2-1. NC curves (Sound level measured point : With 1m air inlet duct and 2m air outlet duct)



PEFY-VMA(L)

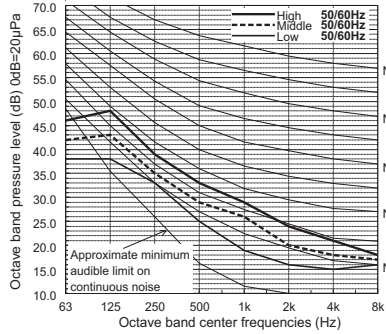
**PEFY-P40VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-240V(50/60Hz)



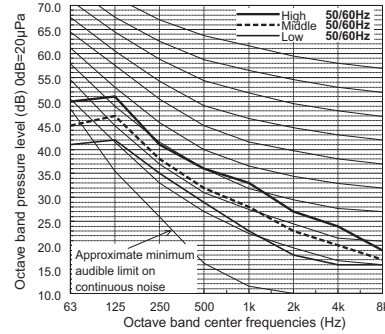
**PEFY-P40VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-240V(50/60Hz)



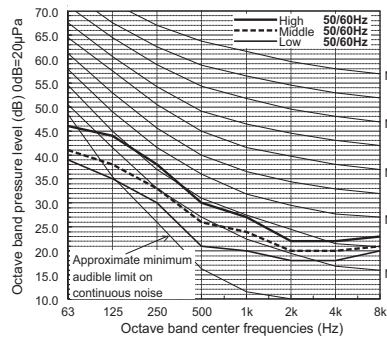
**PEFY-P40VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-240V(50/60Hz)



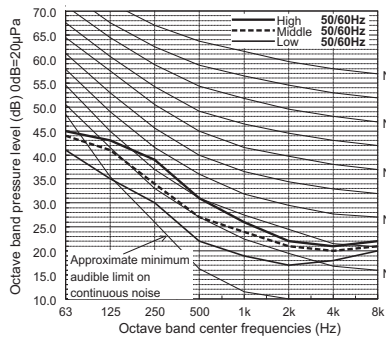
**PEFY-P50VMA(L)-E**

External Static Pressure: 35Pa  
Power Source: 220-240V(50/60Hz)



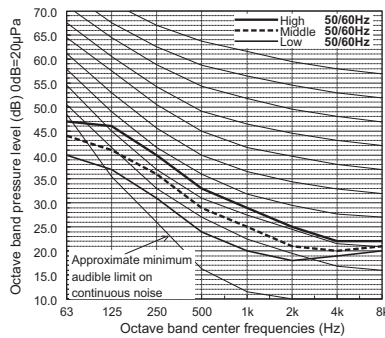
**PEFY-P50VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-240V(50/60Hz)



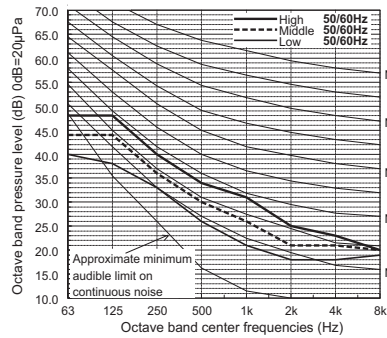
**PEFY-P50VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-240V(50/60Hz)



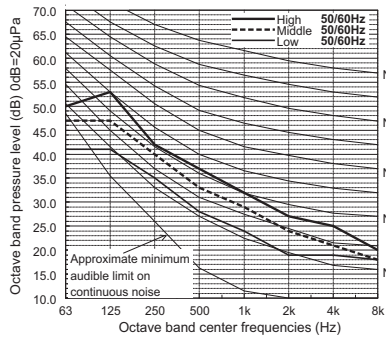
**PEFY-P50VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-240V(50/60Hz)



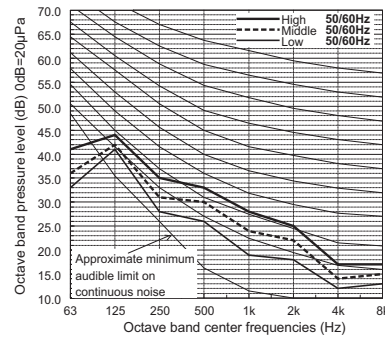
**PEFY-P50VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-240V(50/60Hz)



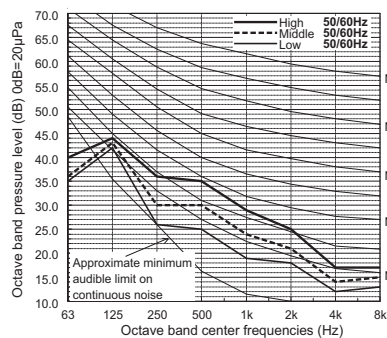
**PEFY-P63VMA(L)-E**

External Static Pressure: 35Pa  
Power Source: 220-240V(50/60Hz)



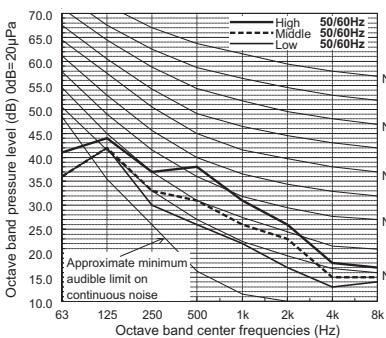
**PEFY-P63VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-240V(50/60Hz)



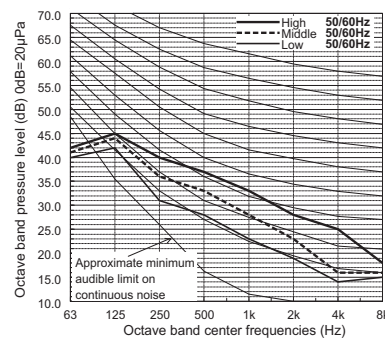
**PEFY-P63VMA(L)-E**

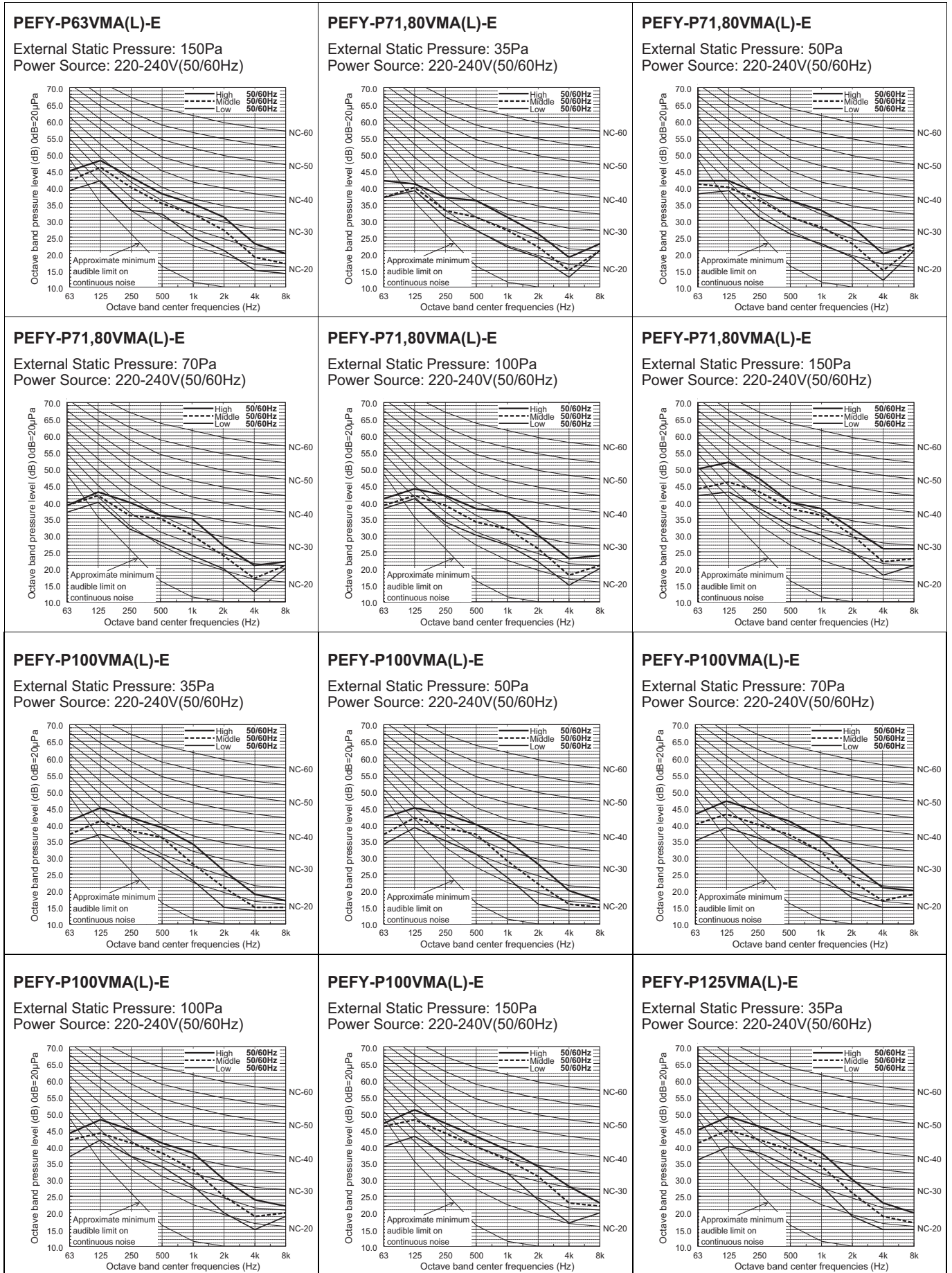
External Static Pressure: 70Pa  
Power Source: 220-240V(50/60Hz)



**PEFY-P63VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-240V(50/60Hz)

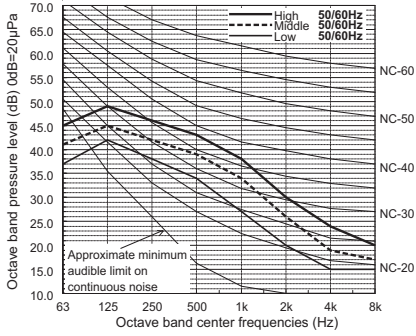




PEFY-VMA(L)

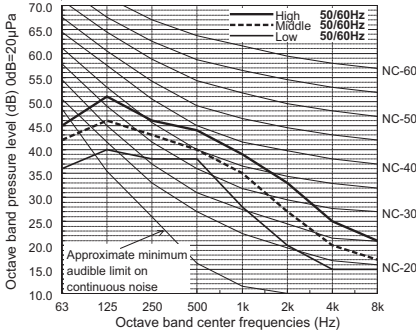
**PEFY-P125VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-240V(50/60Hz)



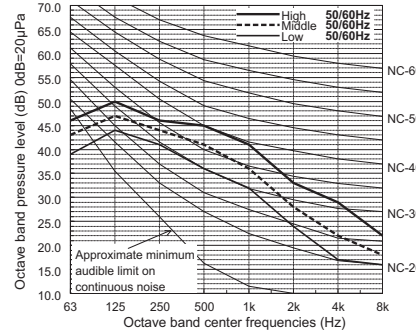
**PEFY-P125VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-240V(50/60Hz)



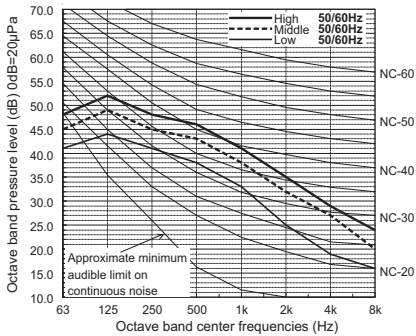
**PEFY-P125VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-240V(50/60Hz)



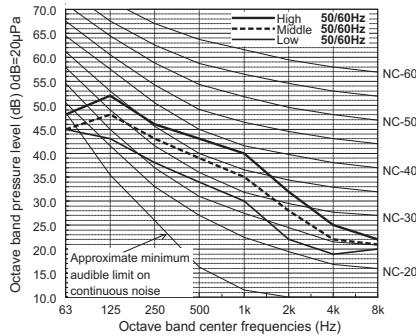
**PEFY-P125VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-240V(50/60Hz)



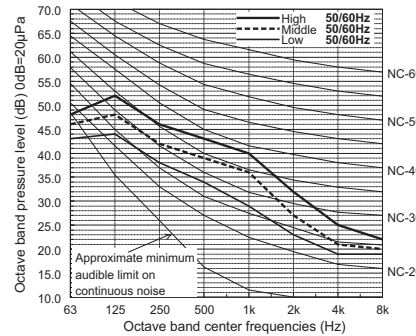
**PEFY-P140VMA(L)-E**

External Static Pressure: 35Pa  
Power Source: 220-240V(50/60Hz)



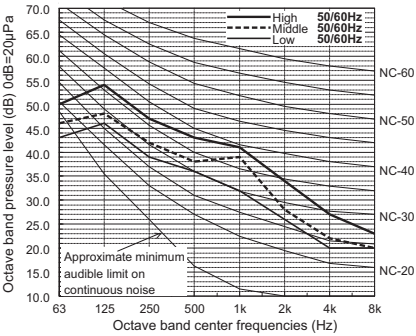
**PEFY-P140VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-240V(50/60Hz)



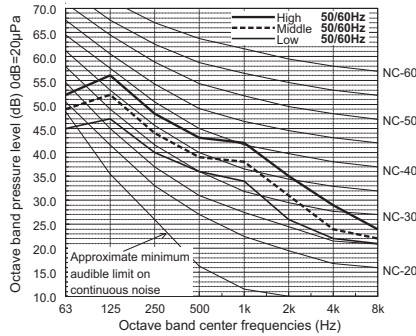
**PEFY-P140VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-240V(50/60Hz)



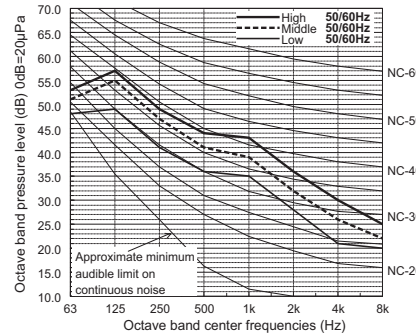
**PEFY-P140VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-240V(50/60Hz)

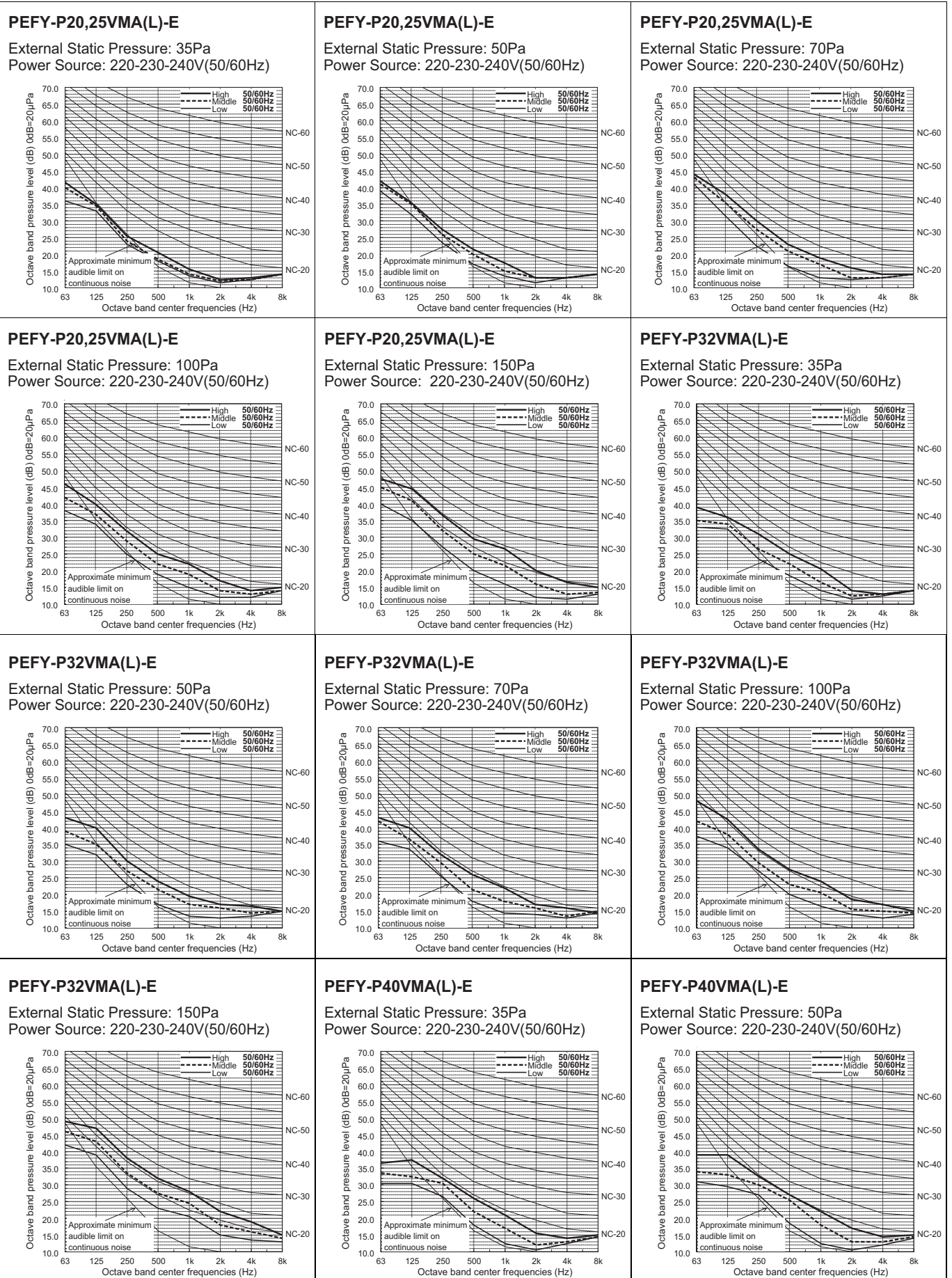


**PEFY-P140VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-240V(50/60Hz)



5-2-2. NC curves (Sound level measured point : With 2m air inlet duct and 2m air outlet duct)



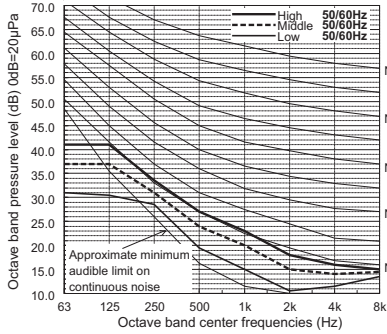
PEFY-VMA(L)



PEFY-VMA(L)

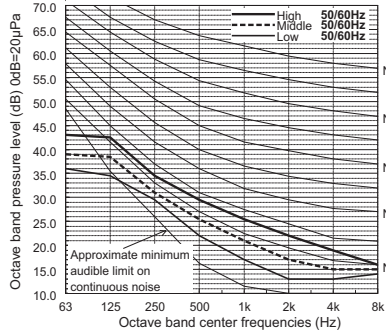
**PEFY-P40VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-230-240V(50/60Hz)



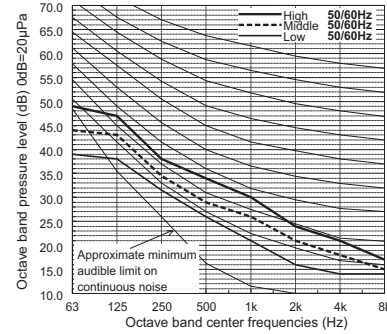
**PEFY-P40VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-230-240V(50/60Hz)



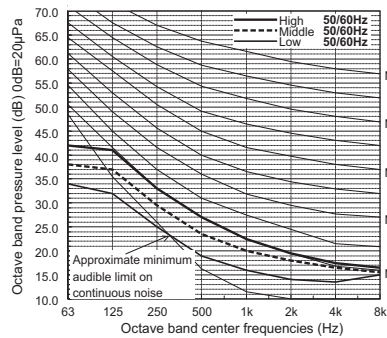
**PEFY-P40VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-230-240V(50/60Hz)



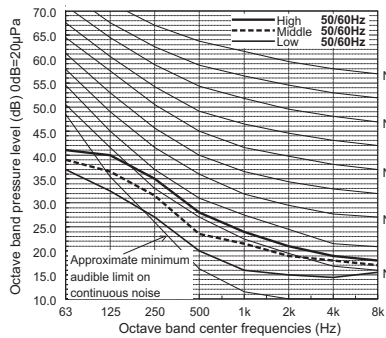
**PEFY-P50VMA(L)-E**

External Static Pressure: 35Pa  
Power Source: 220-230-240V(50/60Hz)



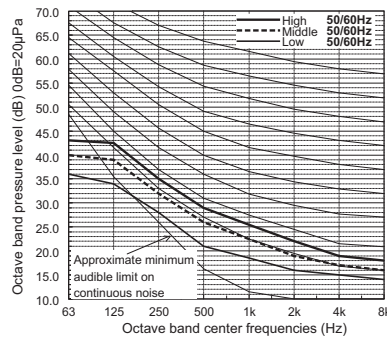
**PEFY-P50VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-230-240V(50/60Hz)



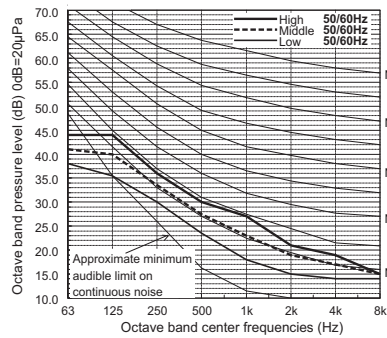
**PEFY-P50VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-230-240V(50/60Hz)



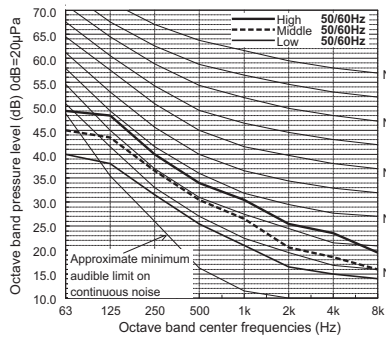
**PEFY-P50VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-230-240V(50/60Hz)



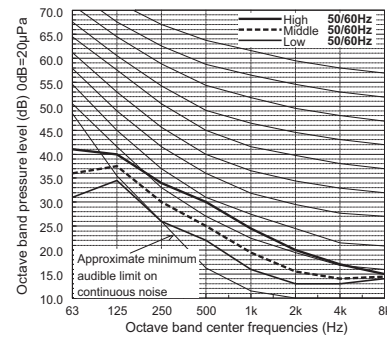
**PEFY-P50VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-230-240V(50/60Hz)



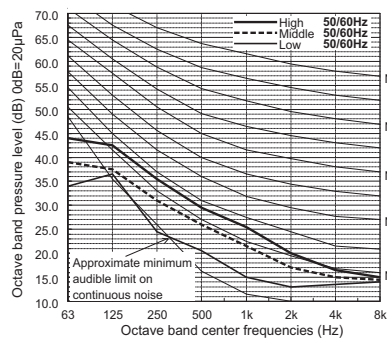
**PEFY-P63VMA(L)-E**

External Static Pressure: 35Pa  
Power Source: 220-230-240V(50/60Hz)



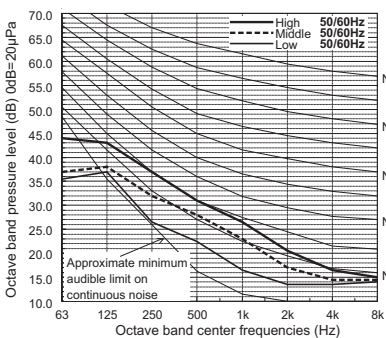
**PEFY-P63VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-230-240V(50/60Hz)



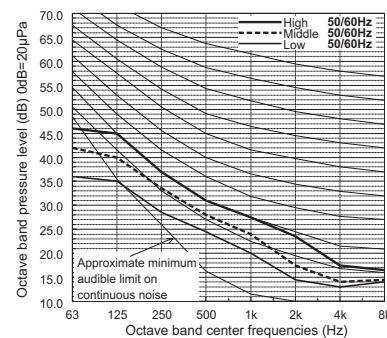
**PEFY-P63VMA(L)-E**

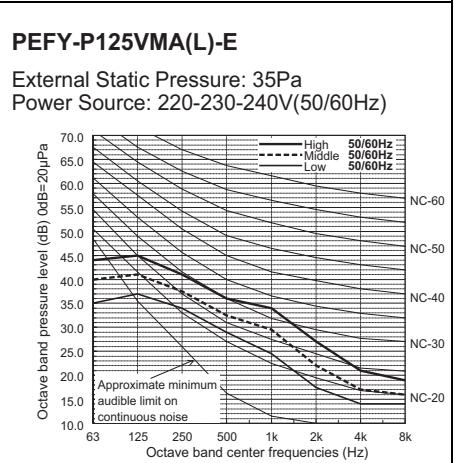
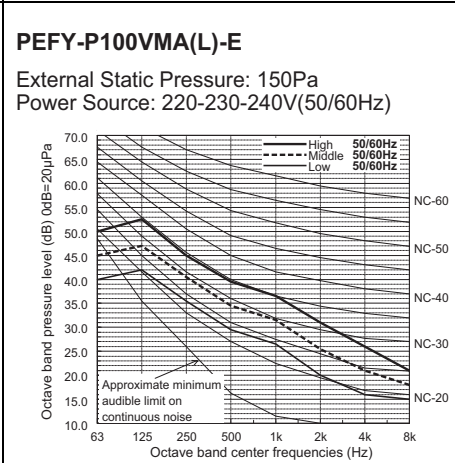
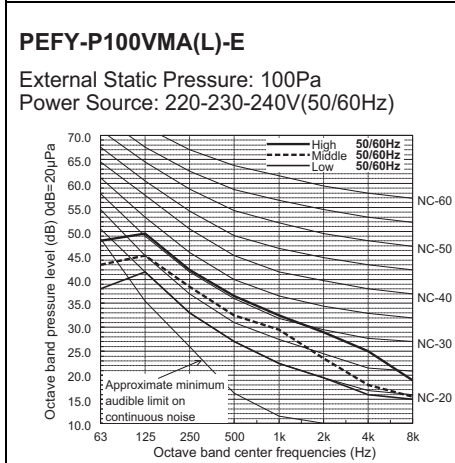
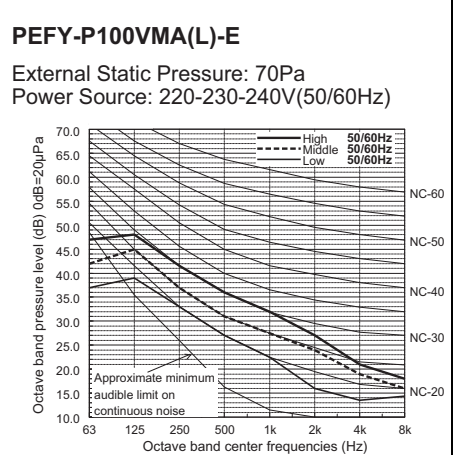
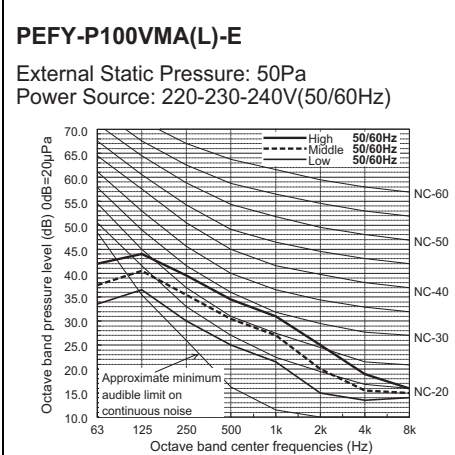
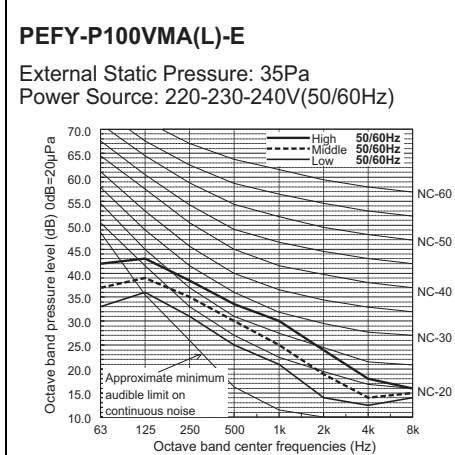
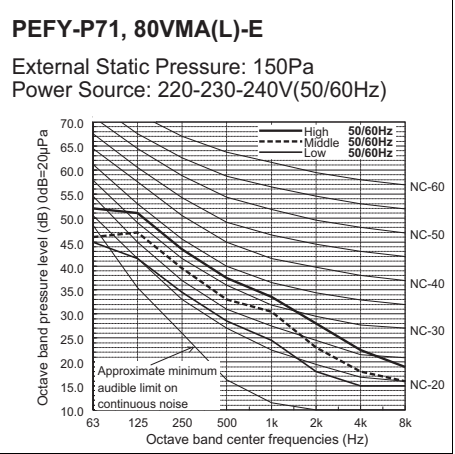
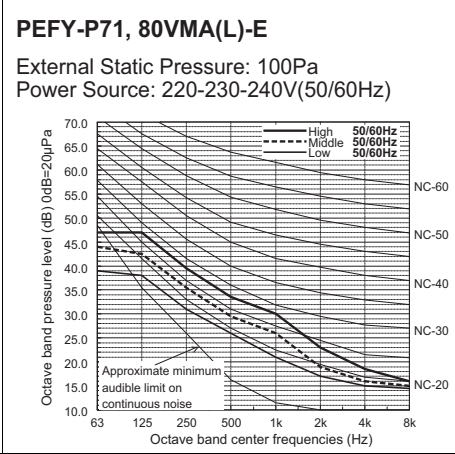
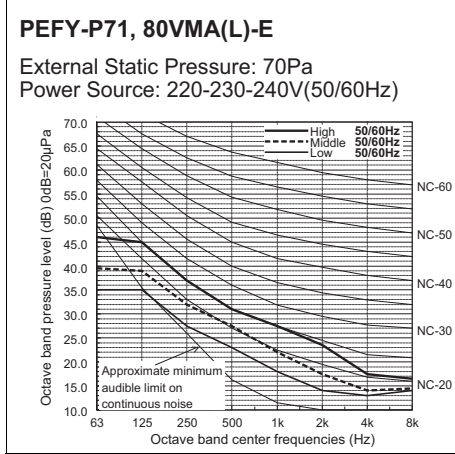
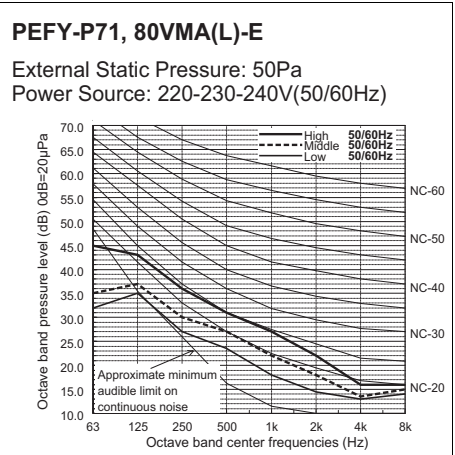
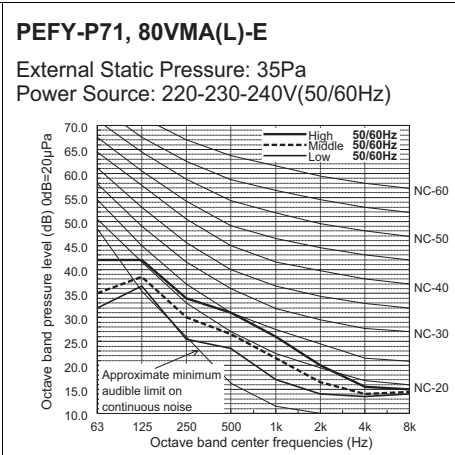
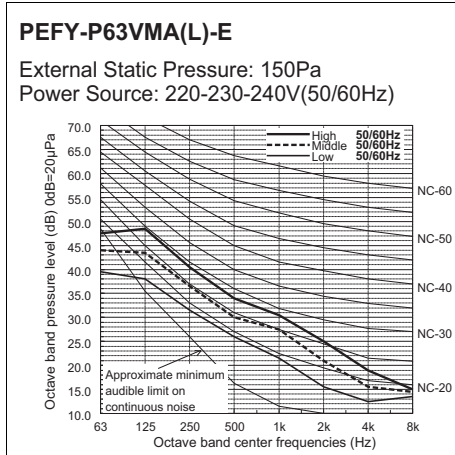
External Static Pressure: 70Pa  
Power Source: 220-230-240V(50/60Hz)



**PEFY-P63VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-230-240V(50/60Hz)

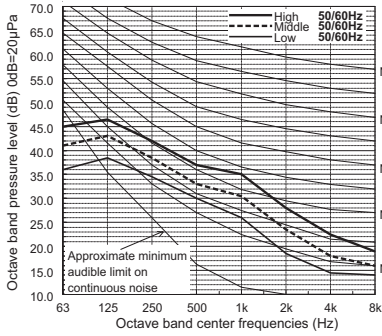




PEFY-VMA(L)

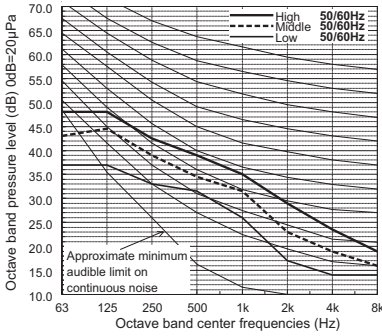
**PEFY-P125VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-230-240V(50/60Hz)



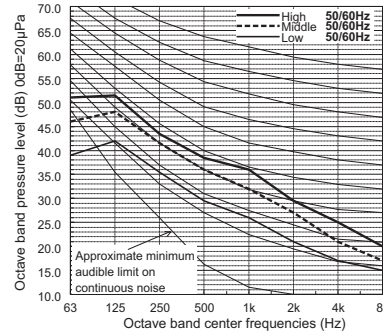
**PEFY-P125VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-230-240V(50/60Hz)



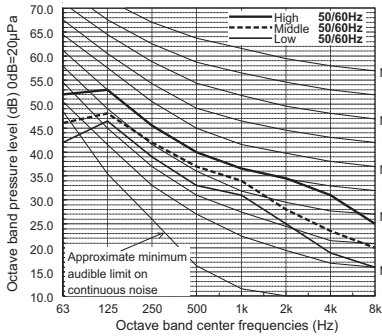
**PEFY-P125VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-230-240V(50/60Hz)



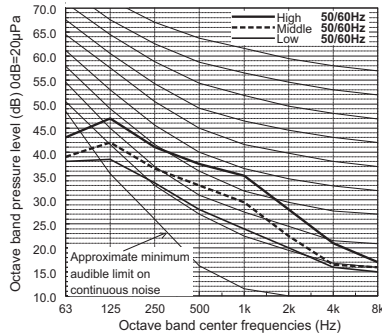
**PEFY-P125VMA(L)-E**

External Static Pressure: 150Pa  
Power Source: 220-230-240V(50/60Hz)



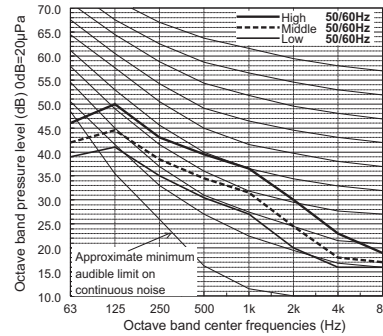
**PEFY-P140VMA(L)-E**

External Static Pressure: 35Pa  
Power Source: 220-230-240V(50/60Hz)



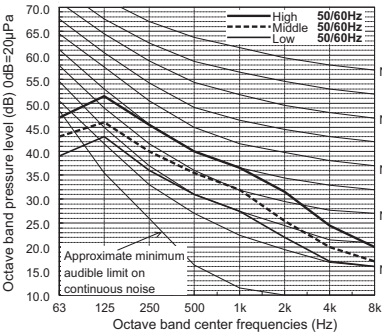
**PEFY-P140VMA(L)-E**

External Static Pressure: 50Pa  
Power Source: 220-230-240V(50/60Hz)



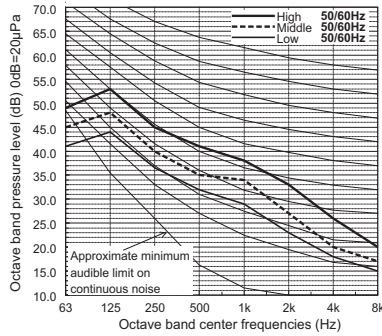
**PEFY-P140VMA(L)-E**

External Static Pressure: 70Pa  
Power Source: 220-230-240V(50/60Hz)



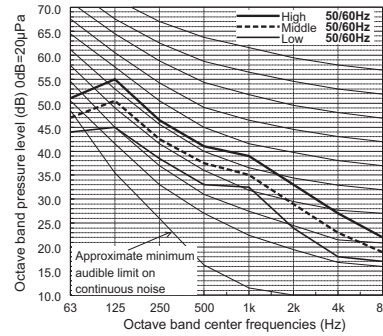
**PEFY-P140VMA(L)-E**

External Static Pressure: 100Pa  
Power Source: 220-230-240V(50/60Hz)



**PEFY-P140VMA(L)-E**

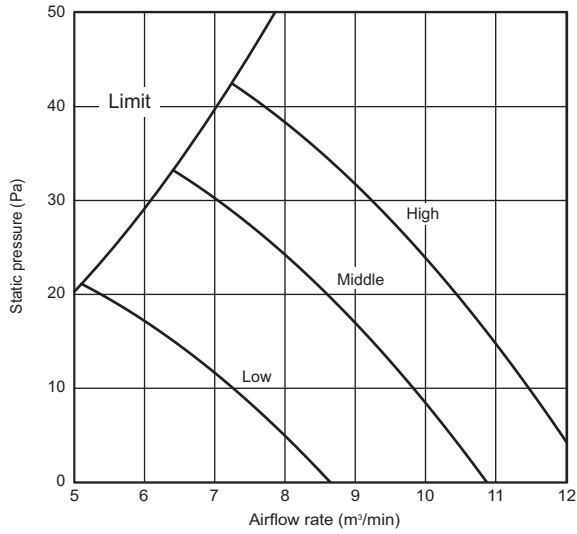
External Static Pressure: 150Pa  
Power Source: 220-230-240V(50/60Hz)



# 6. FAN CHARACTERISTICS CURVES

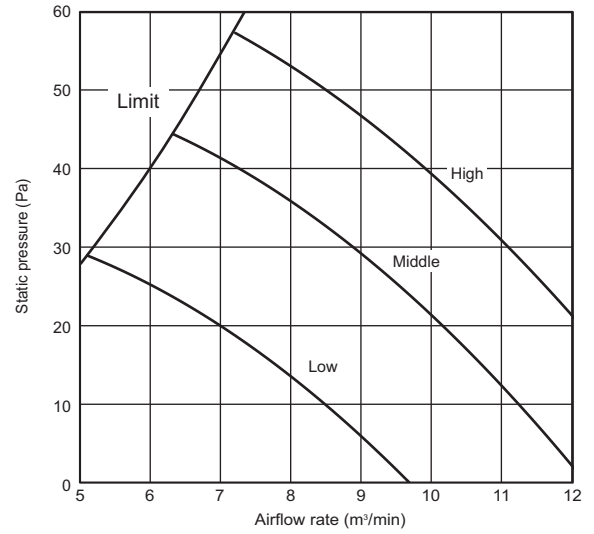
**PEFY-P20,25VMA(L)-E**

External static pressure : 35Pa  
Power source : 220-240V



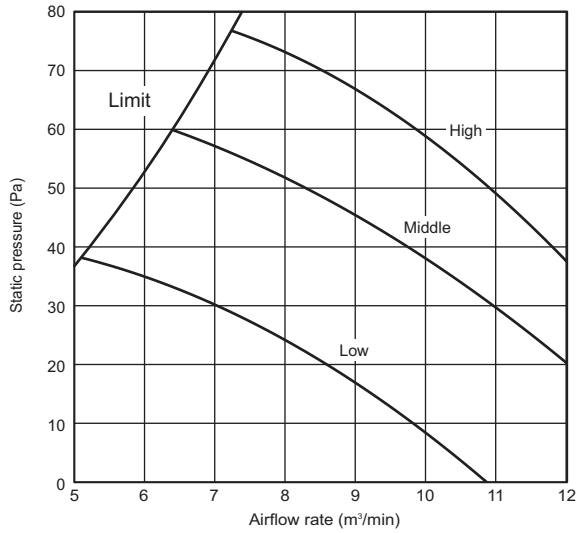
**PEFY-P20,25VMA(L)-E**

External static pressure : 50Pa  
Power source : 220-240V



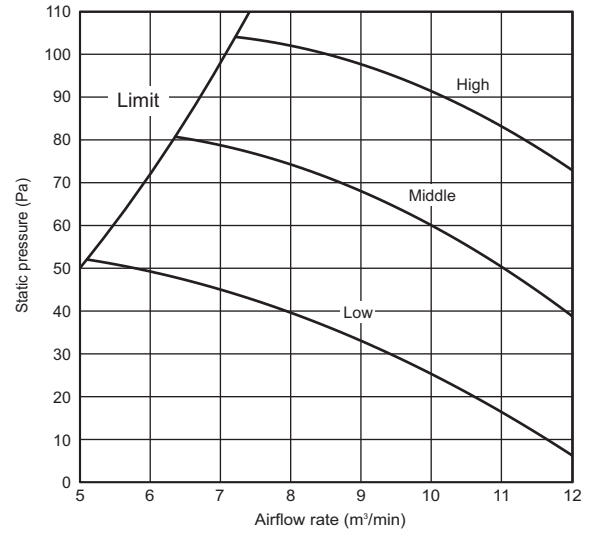
**PEFY-P20,25VMA(L)-E**

External static pressure : 70Pa  
Power source : 220-240V



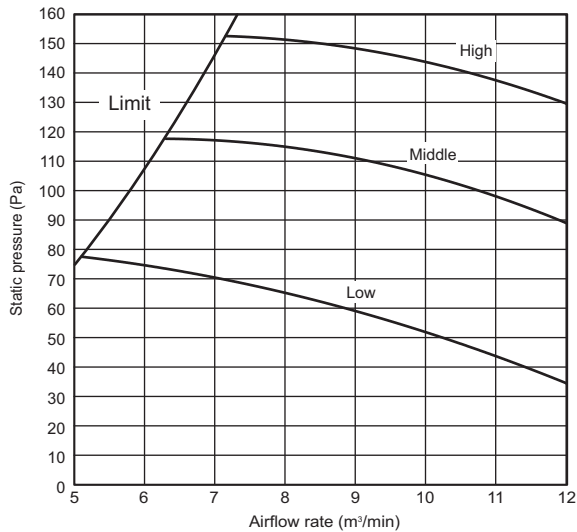
**PEFY-P20,25VMA(L)-E**

External static pressure : 100Pa  
Power source : 220-240V



**PEFY-P20,25VMA(L)-E**

External static pressure : 150Pa  
Power source : 220-240V



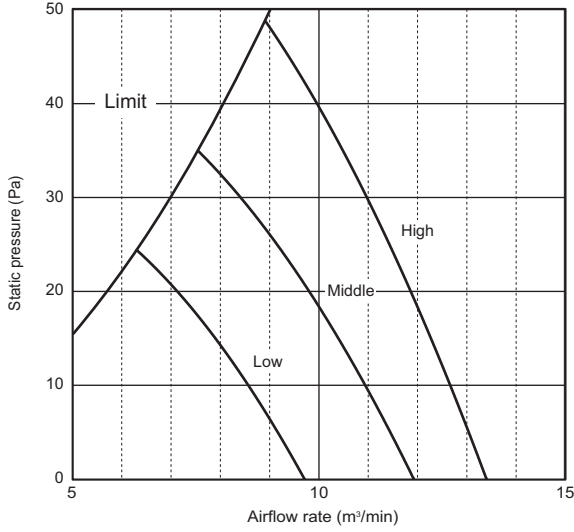
# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY-VMA(L)

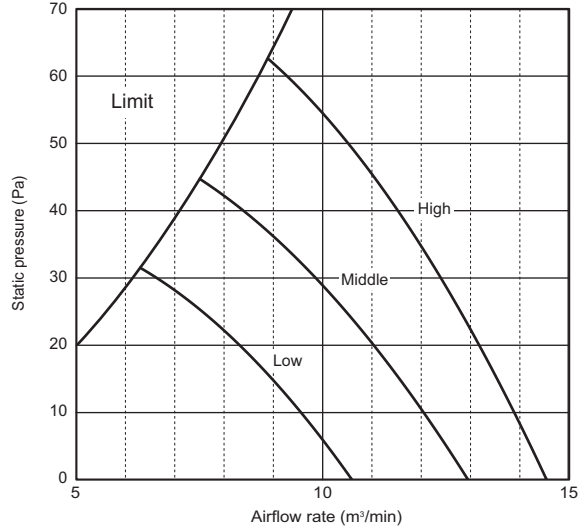
## PEFY-P32VMA(L)-E

External static pressure : 35Pa  
Power source : 220-240V



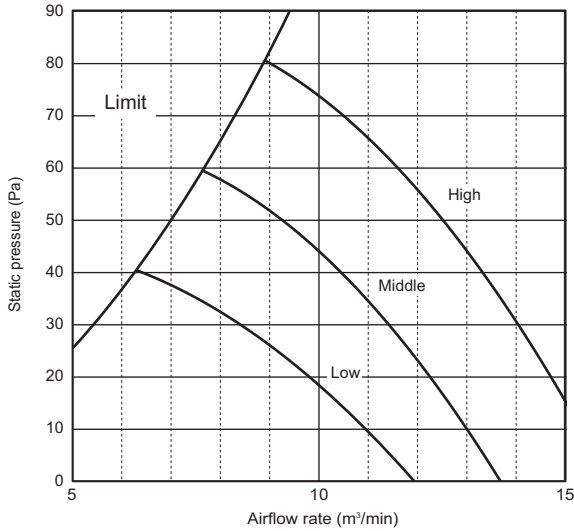
## PEFY-P32VMA(L)-E

External static pressure : 50Pa  
Power source : 220-240V



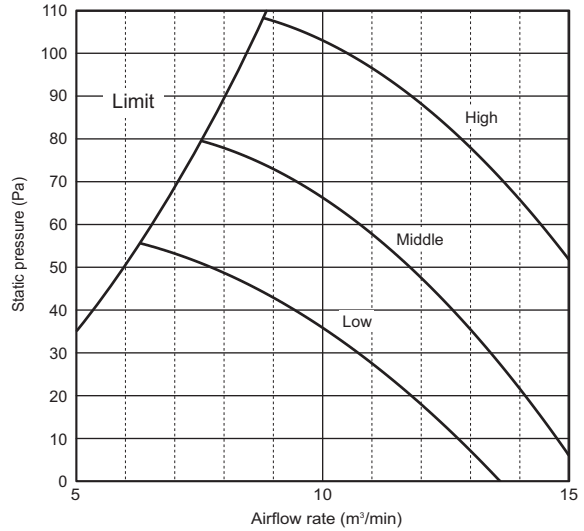
## PEFY-P32VMA(L)-E

External static pressure : 70Pa  
Power source : 220-240V



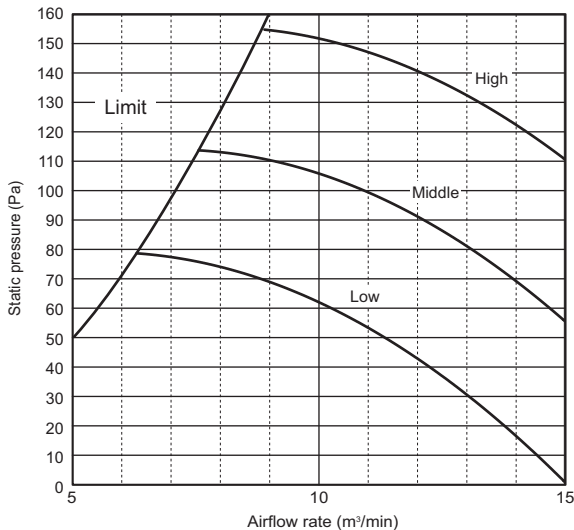
## PEFY-P32VMA(L)-E

External static pressure : 100Pa  
Power source : 220-240V



## PEFY-P32VMA(L)-E

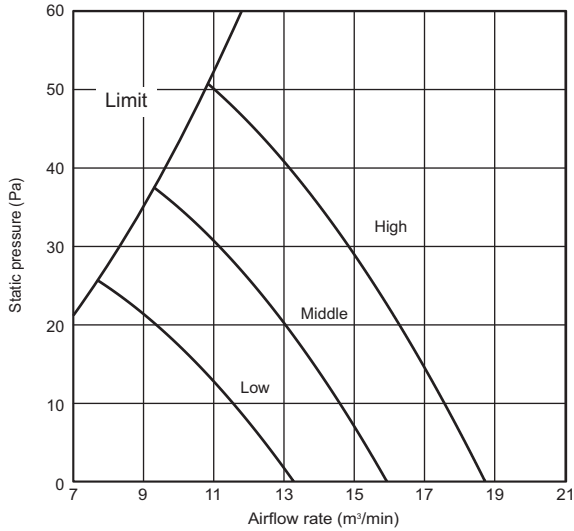
External static pressure : 150Pa  
Power source : 220-240V



# 6. FAN CHARACTERISTICS CURVES

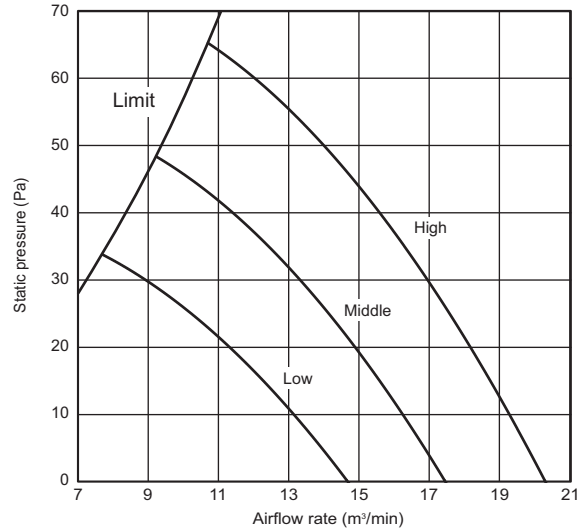
## PEFY-P40VMA(L)-E

External static pressure : 35Pa  
Power source : 220-240V



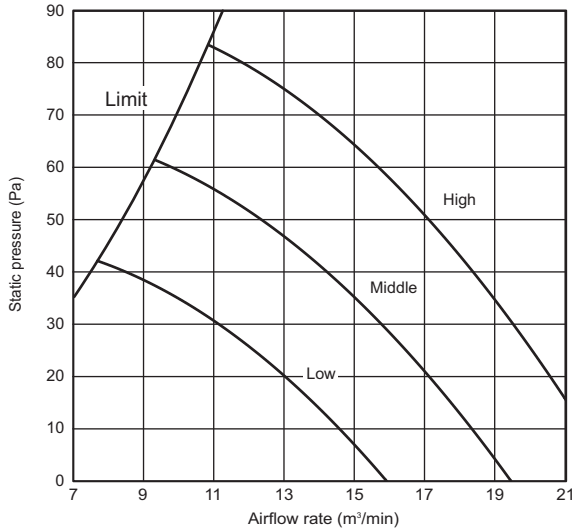
## PEFY-P40VMA(L)-E

External static pressure : 50Pa  
Power source : 220-240V



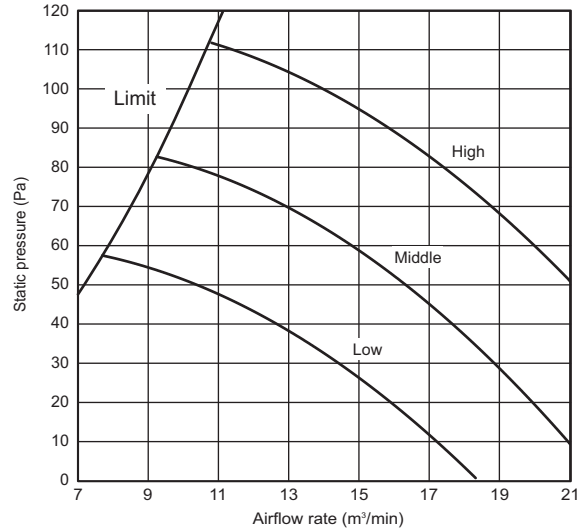
## PEFY-P40VMA(L)-E

External static pressure : 70Pa  
Power source : 220-240V



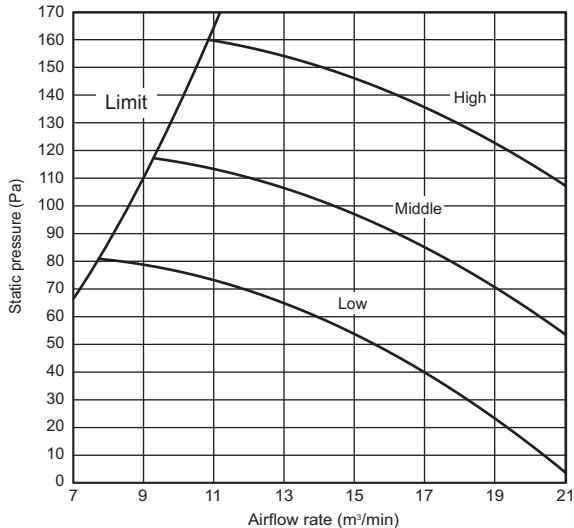
## PEFY-P40VMA(L)-E

External static pressure : 100Pa  
Power source : 220-240V



## PEFY-P40VMA(L)-E

External static pressure : 150Pa  
Power source : 220-240V



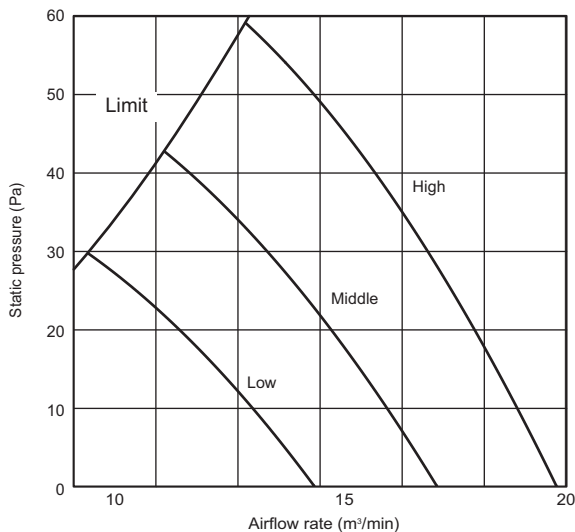
# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY-VMA(L)

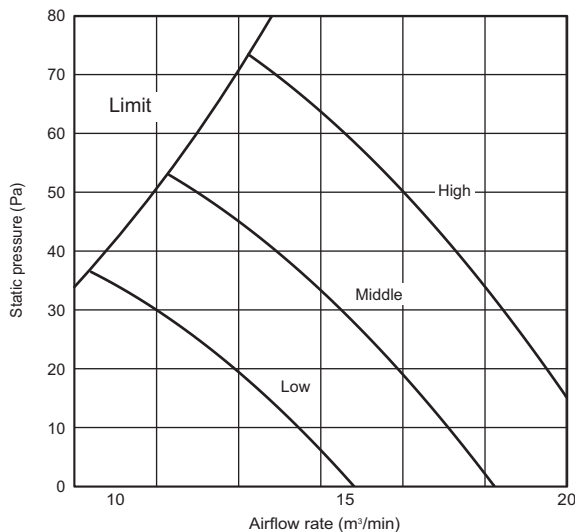
## PEFY-P50VMA(L)-E

External static pressure : 35Pa  
Power source : 220-240V



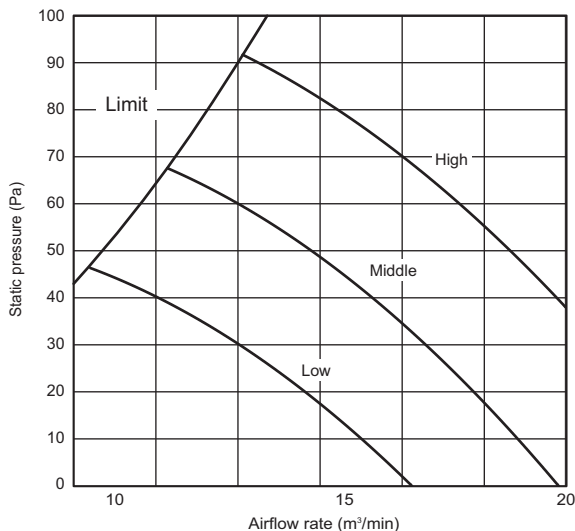
## PEFY-P50VMA(L)-E

External static pressure : 50Pa  
Power source : 220-240V



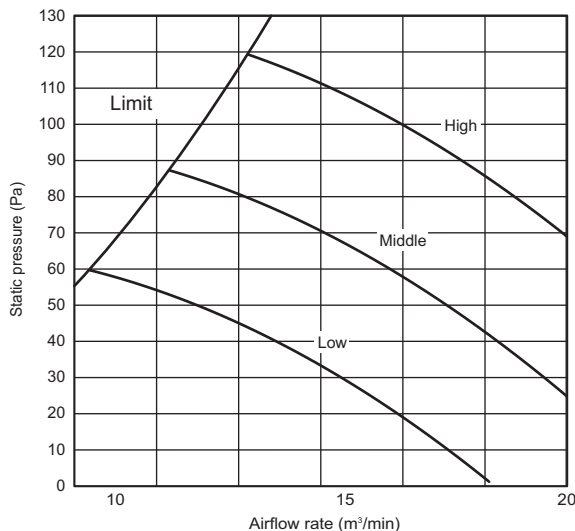
## PEFY-P50VMA(L)-E

External static pressure : 70Pa  
Power source : 220-240V



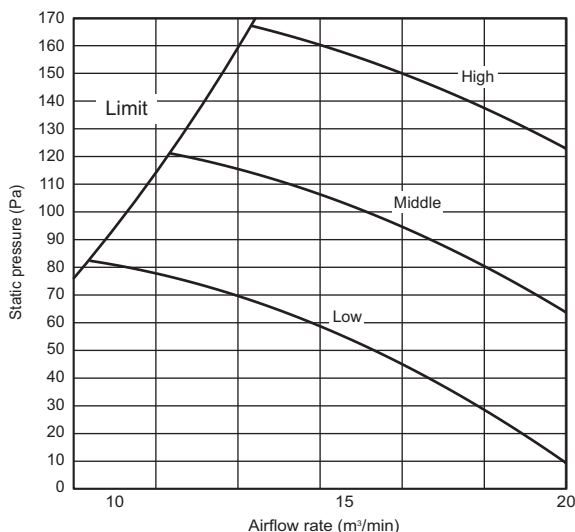
## PEFY-P50VMA(L)-E

External static pressure : 100Pa  
Power source : 220-240V



## PEFY-P50VMA(L)-E

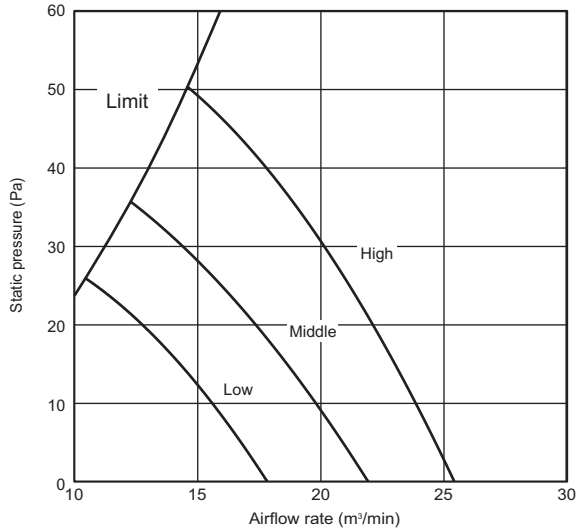
External static pressure : 150Pa  
Power source : 220-240V



# 6. FAN CHARACTERISTICS CURVES

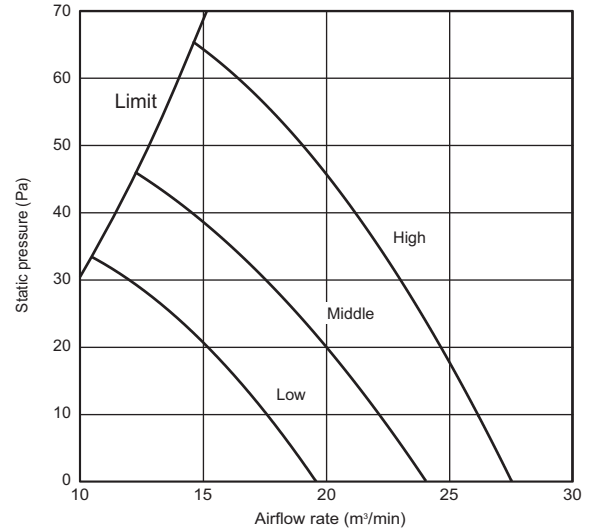
## PEFY-P63VMA(L)-E

External static pressure : 35Pa  
Power source : 220-240V



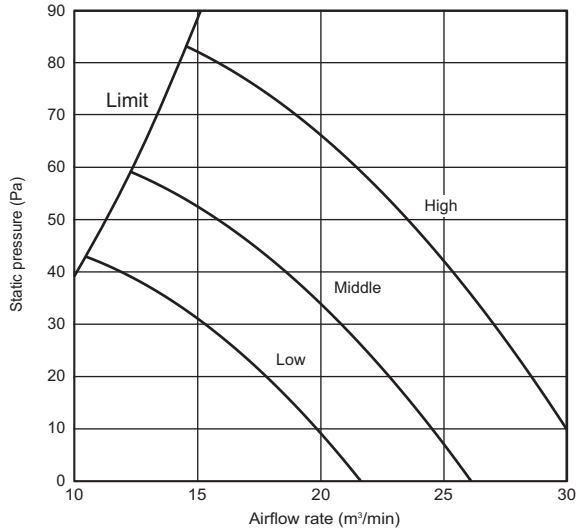
## PEFY-P63VMA(L)-E

External static pressure : 50Pa  
Power source : 220-240V



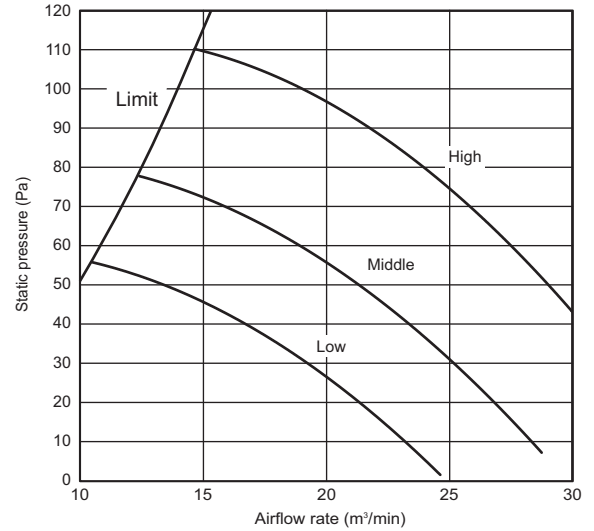
## PEFY-P63VMA(L)-E

External static pressure : 70Pa  
Power source : 220-240V



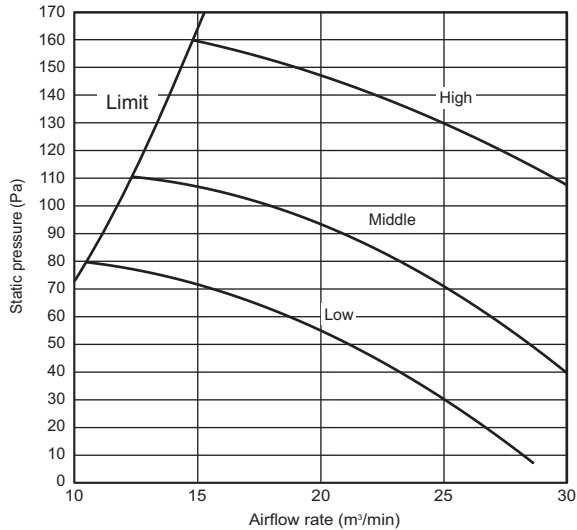
## PEFY-P63VMA(L)-E

External static pressure : 100Pa  
Power source : 220-240V



## PEFY-P63VMA(L)-E

External static pressure : 150Pa  
Power source : 220-240V





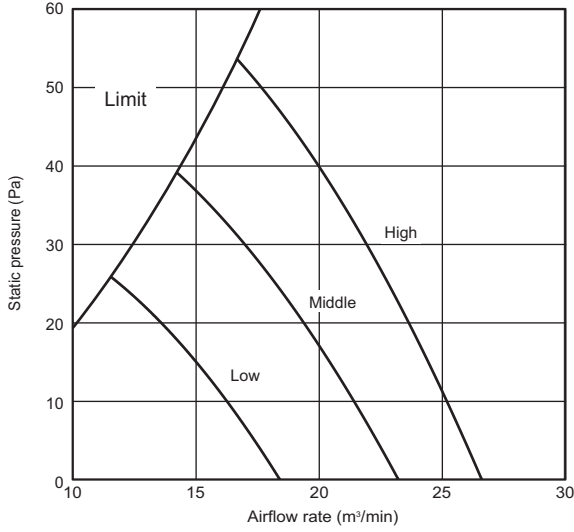
# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY-VMA(L)

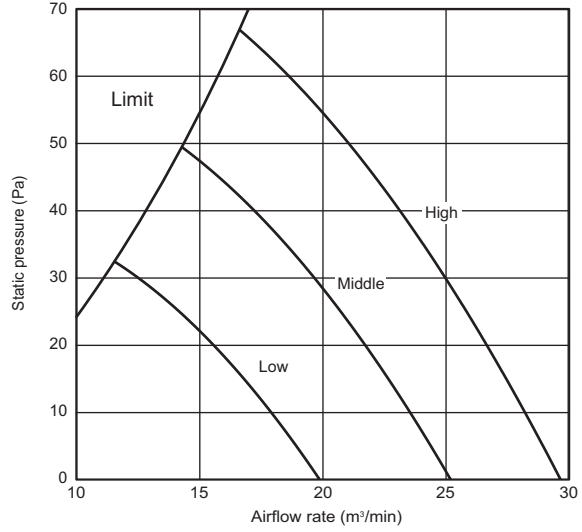
## PEFY-P71,80VMA(L)-E

External static pressure : 35Pa  
Power source : 220-240V



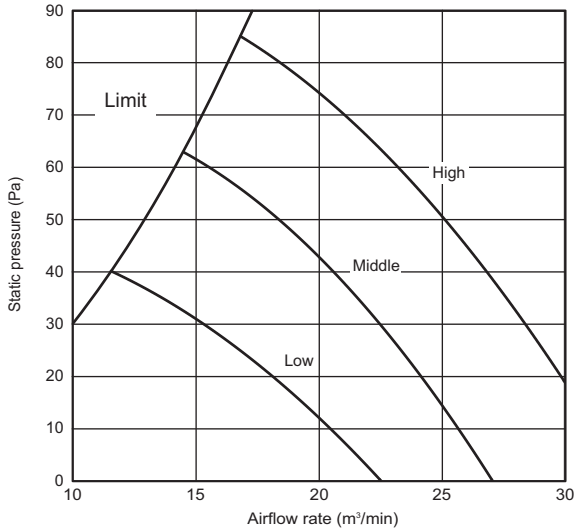
## PEFY-P71,80VMA(L)-E

External static pressure : 50Pa  
Power source : 220-240V



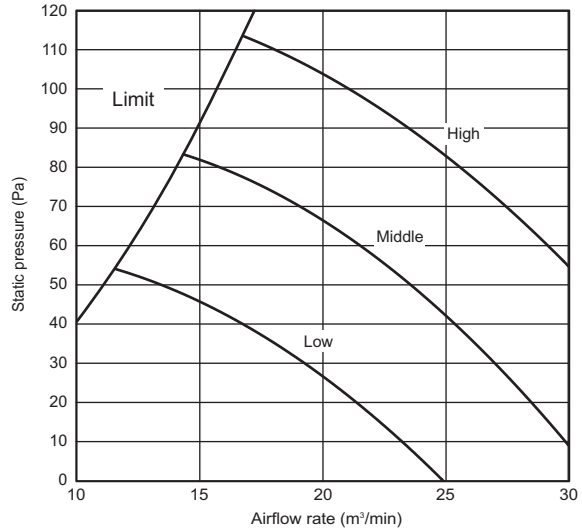
## PEFY-P71,80VMA(L)-E

External static pressure : 70Pa  
Power source : 220-240V



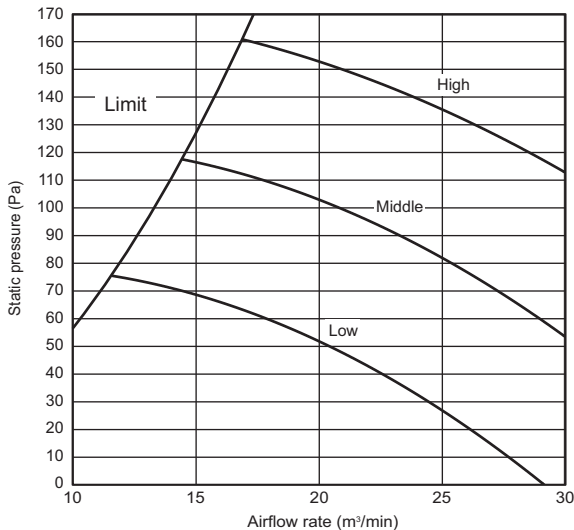
## PEFY-P71,80VMA(L)-E

External static pressure : 100Pa  
Power source : 220-240V



## PEFY-P71,80VMA(L)-E

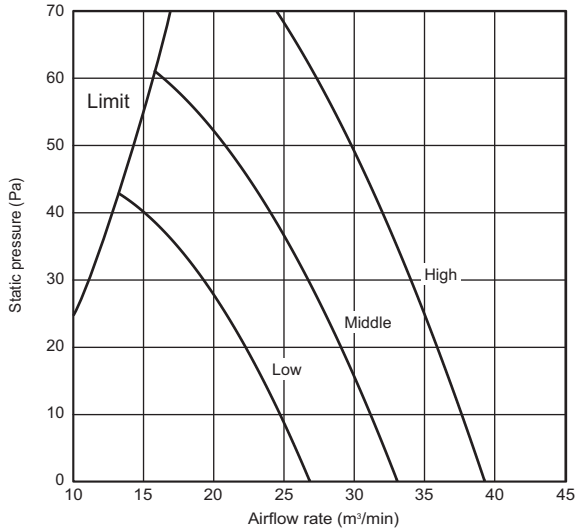
External static pressure : 150Pa  
Power source : 220-240V



# 6. FAN CHARACTERISTICS CURVES

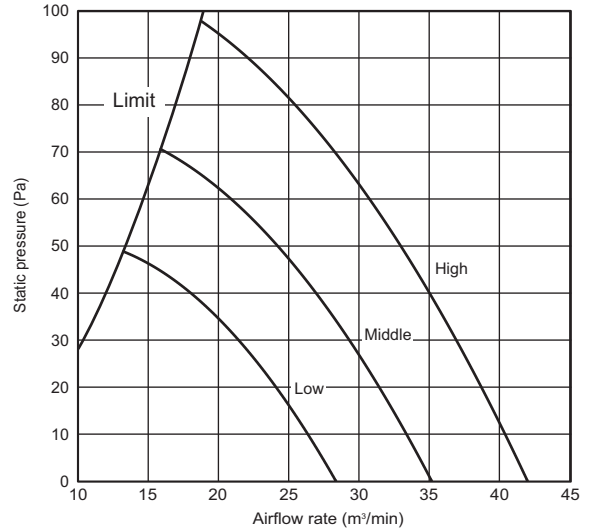
**PEFY-P100VMA(L)-E**

External static pressure : 35Pa  
Power source : 220-240V



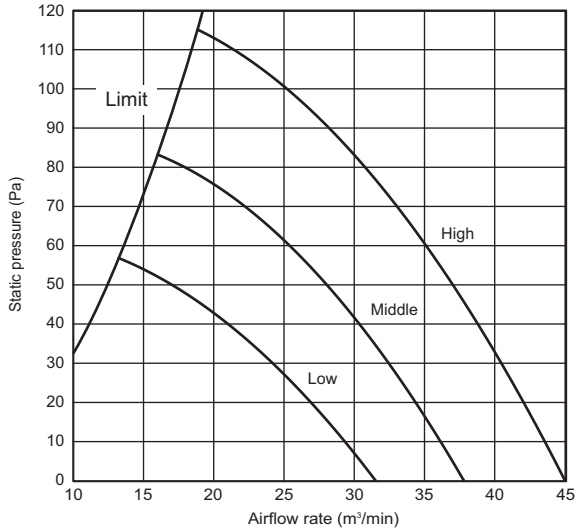
**PEFY-P100VMA(L)-E**

External static pressure : 50Pa  
Power source : 220-240V



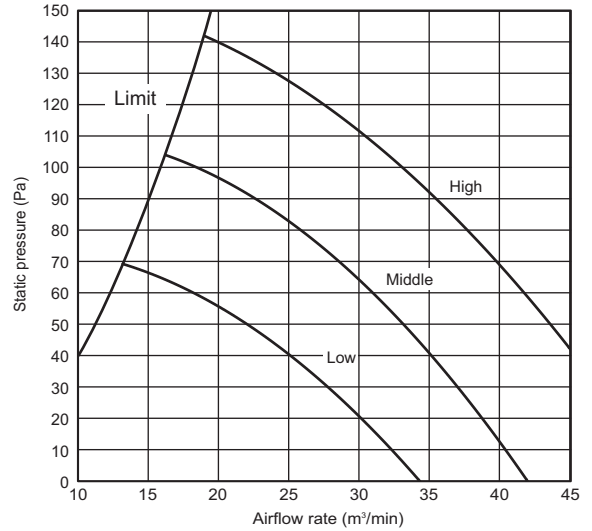
**PEFY-P100VMA(L)-E**

External static pressure : 70Pa  
Power source : 220-240V



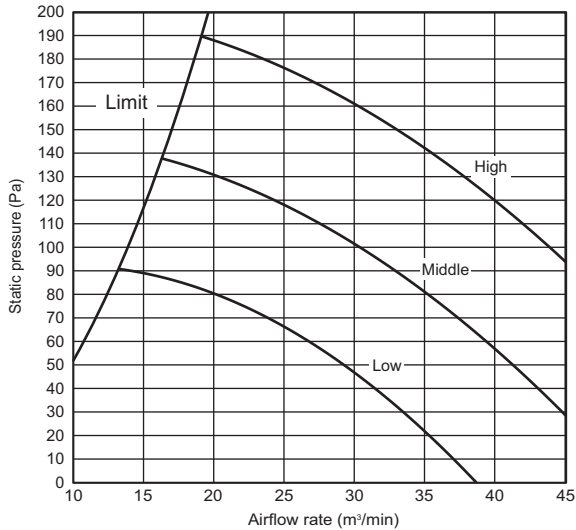
**PEFY-P100VMA(L)-E**

External static pressure : 100Pa  
Power source : 220-240V



**PEFY-P100VMA(L)-E**

External static pressure : 150Pa  
Power source : 220-240V



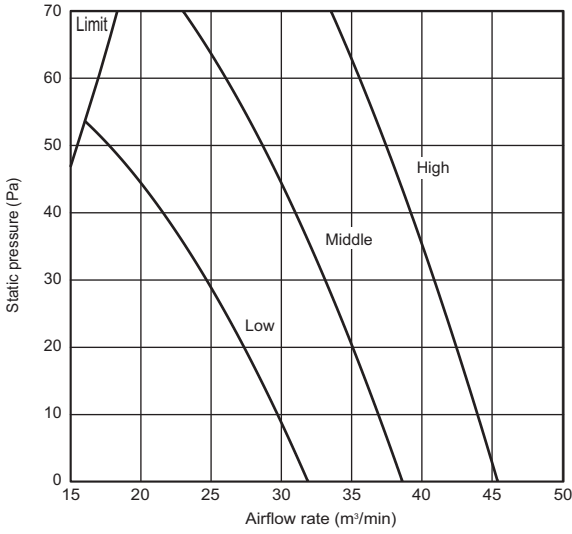
# 6. FAN CHARACTERISTICS CURVES

EP-YKM

PEFY-VMA(L)

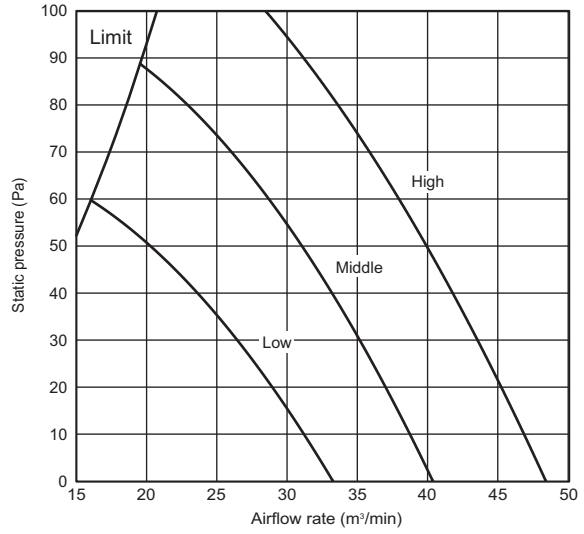
## PEFY-P125VMA(L)-E

External static pressure : 35Pa  
Power source : 220-240V



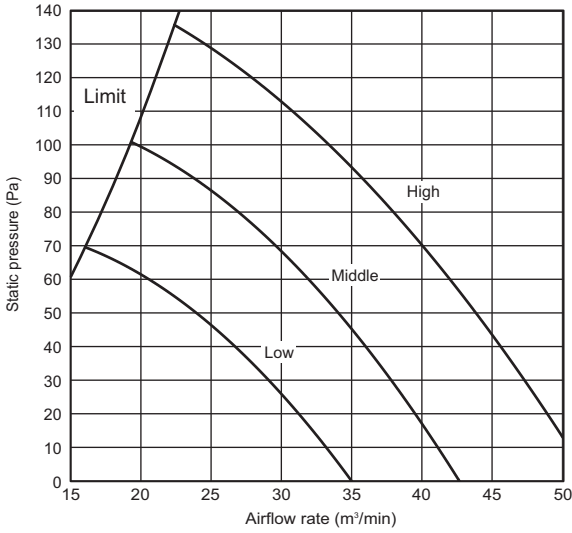
## PEFY-P125VMA(L)-E

External static pressure : 50Pa  
Power source : 220-240V



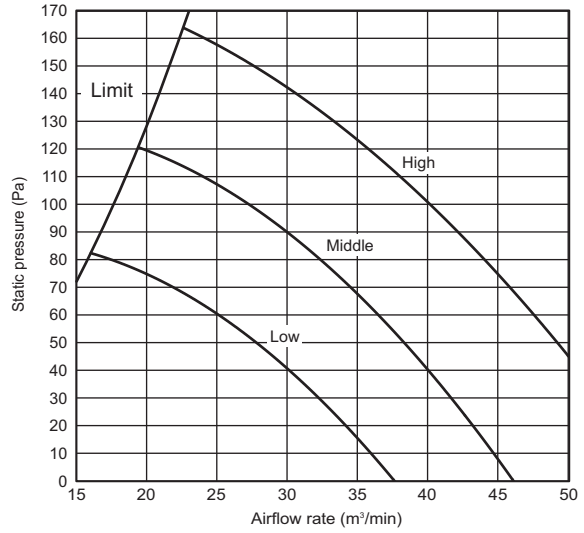
## PEFY-P125VMA(L)-E

External static pressure : 70Pa  
Power source : 220-240V



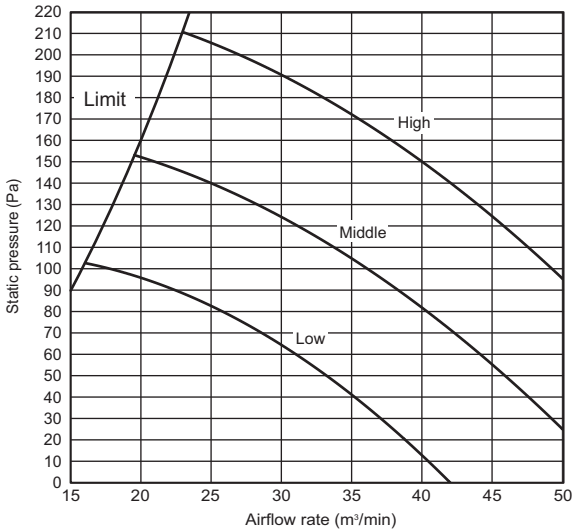
## PEFY-P125VMA(L)-E

External static pressure : 100Pa  
Power source : 220-240V



## PEFY-P125VMA(L)-E

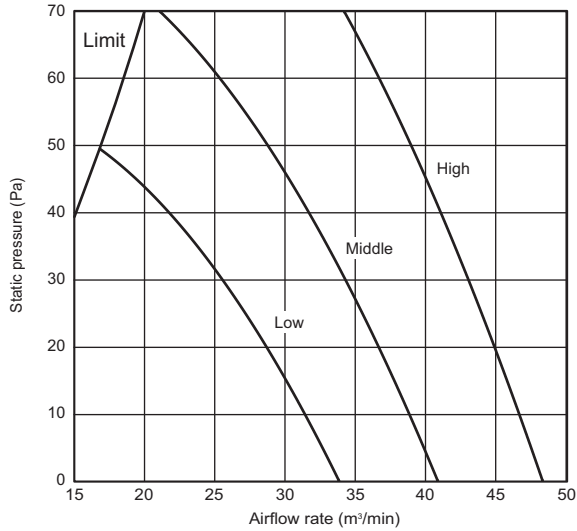
External static pressure : 150Pa  
Power source : 220-240V



# 6. FAN CHARACTERISTICS CURVES

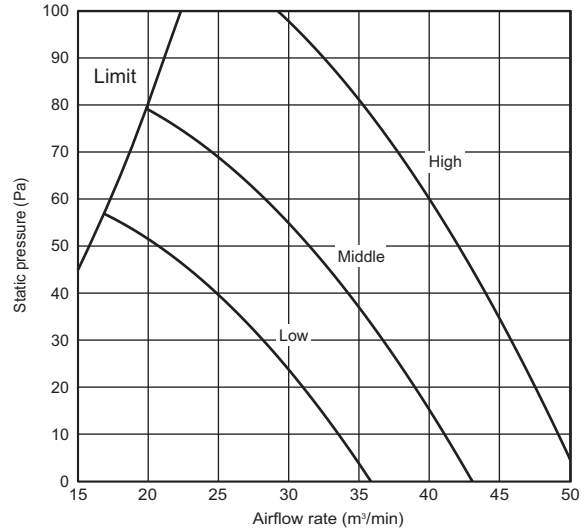
**PEFY-P140VMA(L)-E**

External static pressure : 35Pa  
Power source : 220-240V



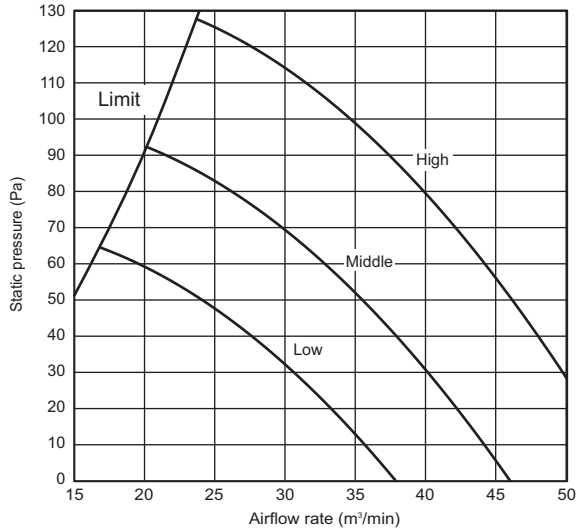
**PEFY-P140VMA(L)-E**

External static pressure : 50Pa  
Power source : 220-240V



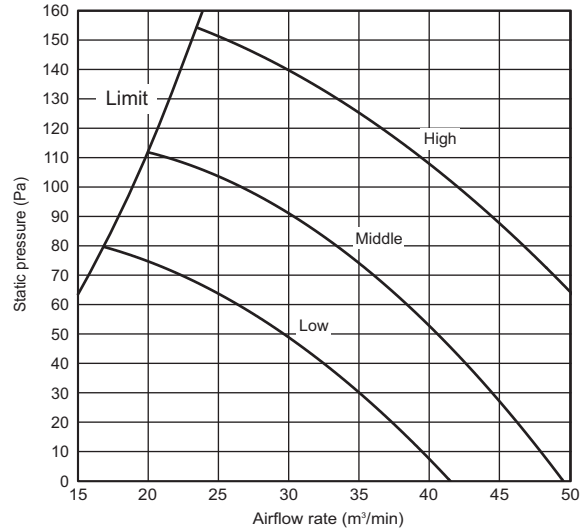
**PEFY-P140VMA(L)-E**

External static pressure : 70Pa  
Power source : 220-240V



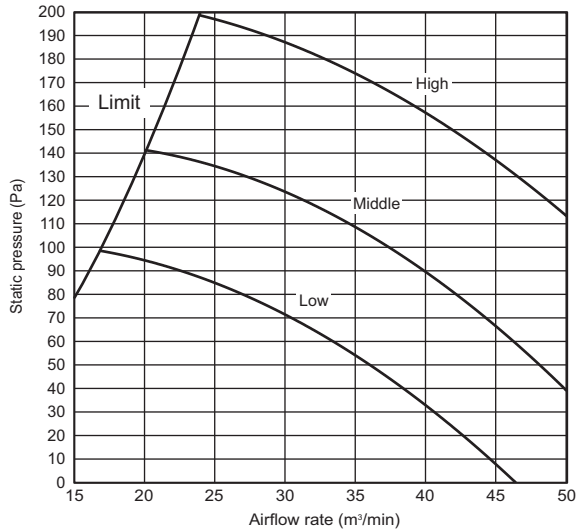
**PEFY-P140VMA(L)-E**

External static pressure : 100Pa  
Power source : 220-240V



**PEFY-P140VMA(L)-E**

External static pressure : 150Pa  
Power source : 220-240V



## 7-1. Optional parts line up for the Indoor unit

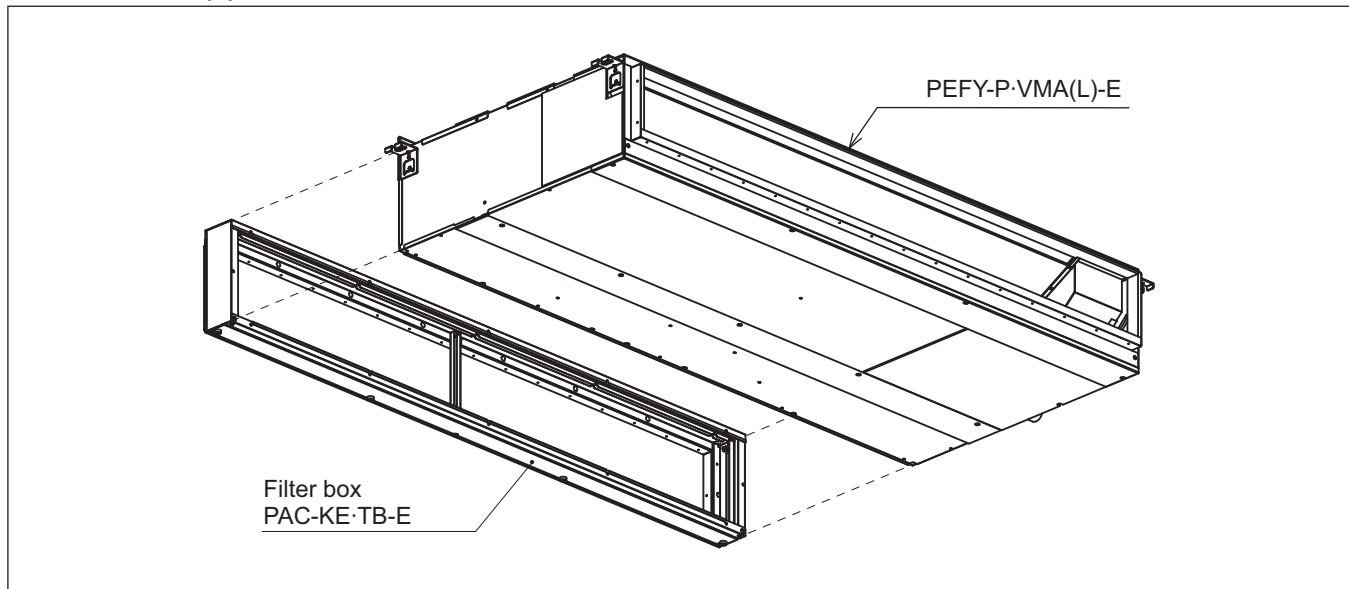
PEFY-VMA(L)

### Filter box

PEFY-P20, 25, 32VMA(L)-E  
 PEFY-P40, 50VMA(L)-E  
 PEFY-P63, 71, 80VMA(L)-E  
 PEFY-P100, 125VMA(L)-E  
 PEFY-P140VMA(L)-E


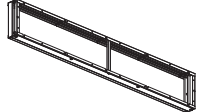
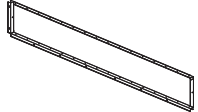

PAC-KE91TB-E  
 PAC-KE92TB-E  
 PAC-KE93TB-E  
 PAC-KE94TB-E  
 PAC-KE95TB-E

### ● PEFY-P-VMA(L)-E



## 7-2. Filter box

### PAC-KE-TB-E

Item	1 Screw	2 Filter box	3 FLANGE	4 Installation manual	
Quantity	30	1	1	1	
Shape					

Detailed installation information should be referred to its Installation Manual (WT05704X01)

**PEFY-P- VMH-E-F**

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# 1. SPECIFICATIONS

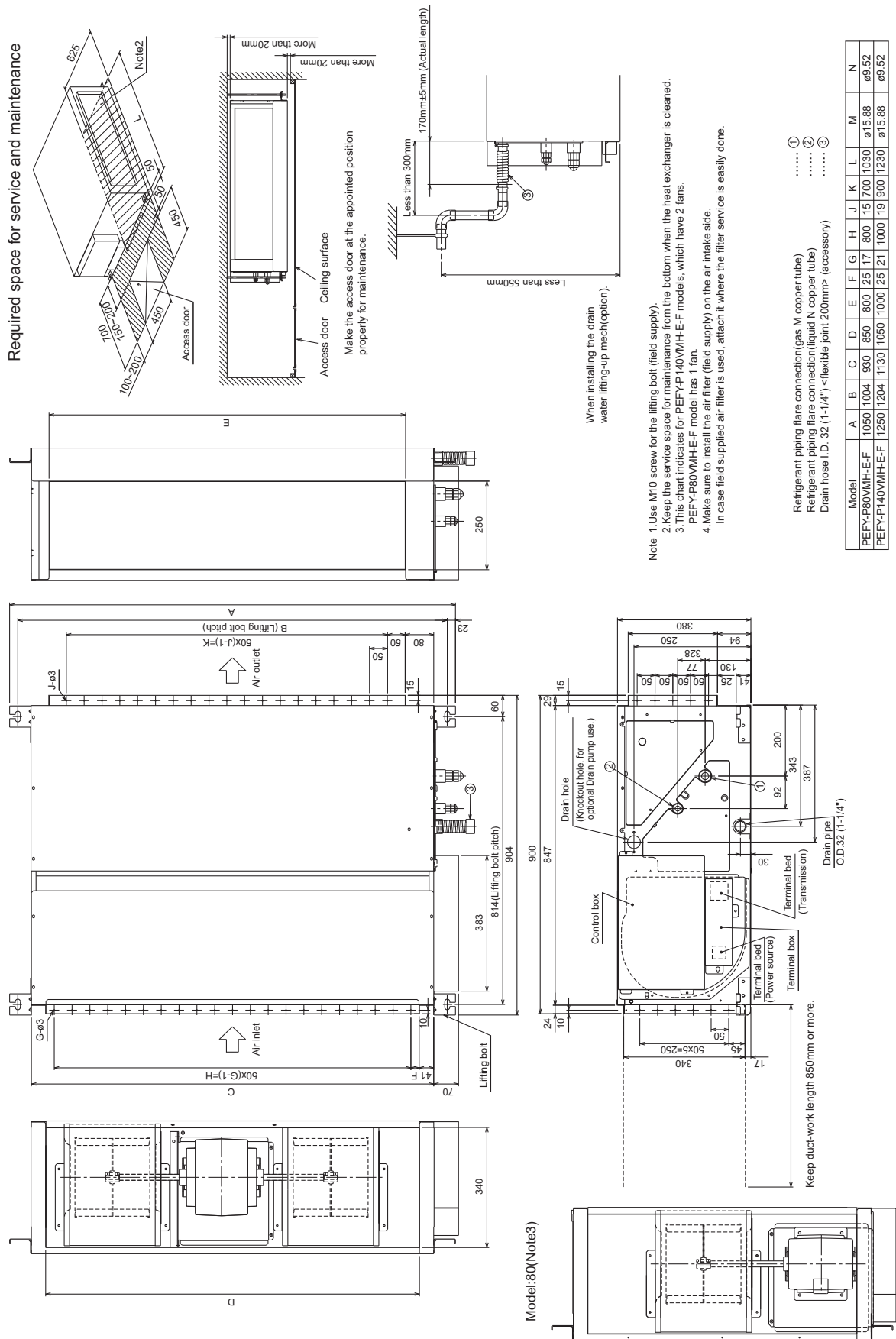
EP-YKM

PEFY-E-F

Model			PEFY-P80VMH-E-F	PEFY-P140VMH-E-F	PEFY-P200VMH-E-F	PEFY-P250VMH-E-F	
Power source			1-phase 220-240V 50Hz, 1-phase 208-230V 60Hz		3-phase, 4-wire, 380-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	9.0	16.0	22.4	28.0	
	*1	kcal / h	7,700	13,800	19,300	24,100	
	*1	BTU / h	30,700	54,600	76,400	95,500	
	*2	kcal / h	-	-	-	-	
	*4	Power input	0.16/0.21	0.29/0.33	0.34/0.42	0.39/0.50	
*4	Current input	A	0.67/0.91	1.24/1.48	0.58/0.74	0.68/0.86	
Temp. range of Cooling			21°CDB/15.5°CWB ~ 43°CDB/35°CWB 70°FDB/60°FWB ~ 109°FDB/95°FWB *Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 21°CDB (70°FDB).				
Heating capacity (Nominal)	*3	kW	8.5	15.1	21.2	26.5	
	*3	kcal / h	7,300	13,000	18,200	22,800	
	*3	BTU / h	29,000	51,500	72,300	90,400	
	*4	Power input	0.16/0.21	0.29/0.33	0.34/0.42	0.39/0.50	
	*4	Current input	A	0.67/0.91	1.24/1.48	0.58/0.74	0.68/0.86
Temp. range of Heating			-10°CDB ~ 20°CDB 14°FDB ~ 68°FDB *Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CDB (68°FDB).				
External finish			Galvanized				
External dimension H x W x D		mm	380 x 1,000 x 900	380 x 1,200 x 900	470 x 1,250 x 1,120	470 x 1,250 x 1,120	
		in.	15 x 39-3/8 x 35-7/16	15 x 47-2/8 x 35-7/16	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 (lbs)	50 (111)	70 (155)	100 (221)	100 (221)	
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.	(208V)	Pa	<35> -85- <170>	<35> -85- <170>	<140> -200	<110> -190
			mmH <sub>2</sub> O	<3.6> -8.7- <17.3>	<3.6> -8.7- <17.3>	<14.3> -20.4 (380V)	<11.2> -19.4 (380V)
		(220V)	Pa	<40> -115- <190>	<50> -115- <190>	<150> -210	<120> -200
			mmH <sub>2</sub> O	<4.1> -11.7- <19.4>	<5.1> -11.7- <19.4>	<15.3> -21.4 (400V)	<12.2> -20.4 (400V)
	(230V)	Pa	<50> -130- <210>	<60> -130- <220>	<160> -220	<130> -210	
		mmH <sub>2</sub> O	<5.1> -13.3- <21.4>	<6.1> -13.3- <22.4>	<16.3> -22.4 (415V)	<13.3> -21.4 (415V)	
	(240V)	Pa	<80> -170- <220>	<100> -170- <240>	-	-	
		mmH <sub>2</sub> O	<8.2> -17.3- <22.4>	<10.2> -17.3- <24.5>	-	-	
	Motor type		Single phase induction motor		3-phase induction motor		
Motor output		kW	0.09 (220V, 115Pa)	0.14 (220V, 115Pa)	0.20 (415V, 220Pa)	0.23 (415V, 210Pa)	
Driving mechanism		Direct-driven by motor					
Airflow rate (Low-Mid-High)		m <sup>3</sup> / min	9.0	18.0	28.0	35.0	
		L / s	150	300	467	583	
		cfm	318	636	989	1,236	
Sound pressure level (Low-Mid-High)/(Low-High) (measured in anechoic room)		dB <A>	27-38-43 (208,220V)	28-38-43 (208,220V)	39-42 (380V)	40-44 (380V)	
		dB <A>	33-43-45 (230,240V)	34-43-45 (230,240V)	40-43 (400V)	40-45 (400V)	
		dB <A>	-	-	40-44 (415V)	41-46 (415V)	
Insulation material			EPS, Polyethylene foam				
Air filter			Optional long life filter (synthetic fiber unwoven cloth filter) and filter box are recommended. Field supplied filter is also possible.				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Brazed	ø9.52 (ø3/8) Brazed	
	Gas (R410A)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)				
Drawing	External		IU-W27-5926		IU-W27-7653		
	Wiring		IU-W65-3961		IU-W65-3999		
	Refrigerant cycle		-		-		
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Insulation pipe for refrigerant pipe, washer, drain hose, tie band, pipe				
Remark	Optional long life filter		PAC-KE88LAF	PAC-KE89LAF	PAC-KE85LAF	PAC-KE85LAF	
	Optional filter box		PAC-KE80TB-F	PAC-KE140TB-F	PAC-KE250TB-F	PAC-KE250TB-F	
	Drain pump		PAC-KE04DM-F	PAC-KE04DM-F	PAC-KE04DM-F	PAC-KE04DM-F	
			a. When the PEFY-P-VMH-E-F is connected with the outdoor unit, the maximum connectable total indoor unit capacity is as follows. Heat pump model _____ Cooling only model _____ 110% (100% in case of heating below -5°C(23°F)) 110%				
			b. Only the thermo-sensor in the remote controller or an extra remote thermo-sensor can be chosen as the room temperature sensor. c. No Auto mode or Dry mode is available. d. The fan temporarily stops in defrosting. e. The air flow rate should be kept lower than 110% of value above. Please see "FAN Curve" for details. f. As PEFY-P-VMH-E-F cools the outdoor air directly, dewing at the air outlet grilles is possible, and should be considered. g. Air filter must be installed in the air intake side, and should be easy to maintain.				
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 condition	*2 Nominal cooling condition	*3 Nominal heating condition	Unit converter	
Indoor :			33°CDB/28°CWB (91°FDB/82°FWB)	-	0°CDB/-2.9°CDB (32°FDB/27°FDB)	kcal/h = kW x 860	
Outdoor :			33°CDB (91°FDB)	-	0°CDB/-2.9°CDB (32°FDB/27°FDB)	BTU/h = kW x 3,412	
Pipe length :			7.5 m (24-9/16 ft)	-	7.5 m (24-9/16 ft)	cfm = m <sup>3</sup> /min x 35.31	
Level difference :			0 m (0 ft)	-	0 m (0 ft)	lbs = kg / 0.4536	
* Due to continuing improvement, above specification may be subject to change without notice.			*5 The factory setting of external static pressure is shown without <>.			*Above specification data is subject to rounding variation.	
*4 The values are measured at the factory setting of external static pressure.			Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.				

## PEFY-P80,140VMH-E-F

Unit : mm

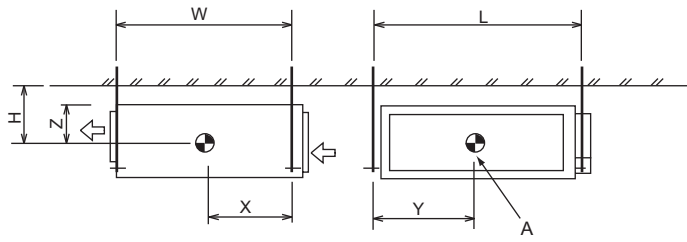


PEFY-E-F





#### PEFY-P80,140,200,250VMH-E-F



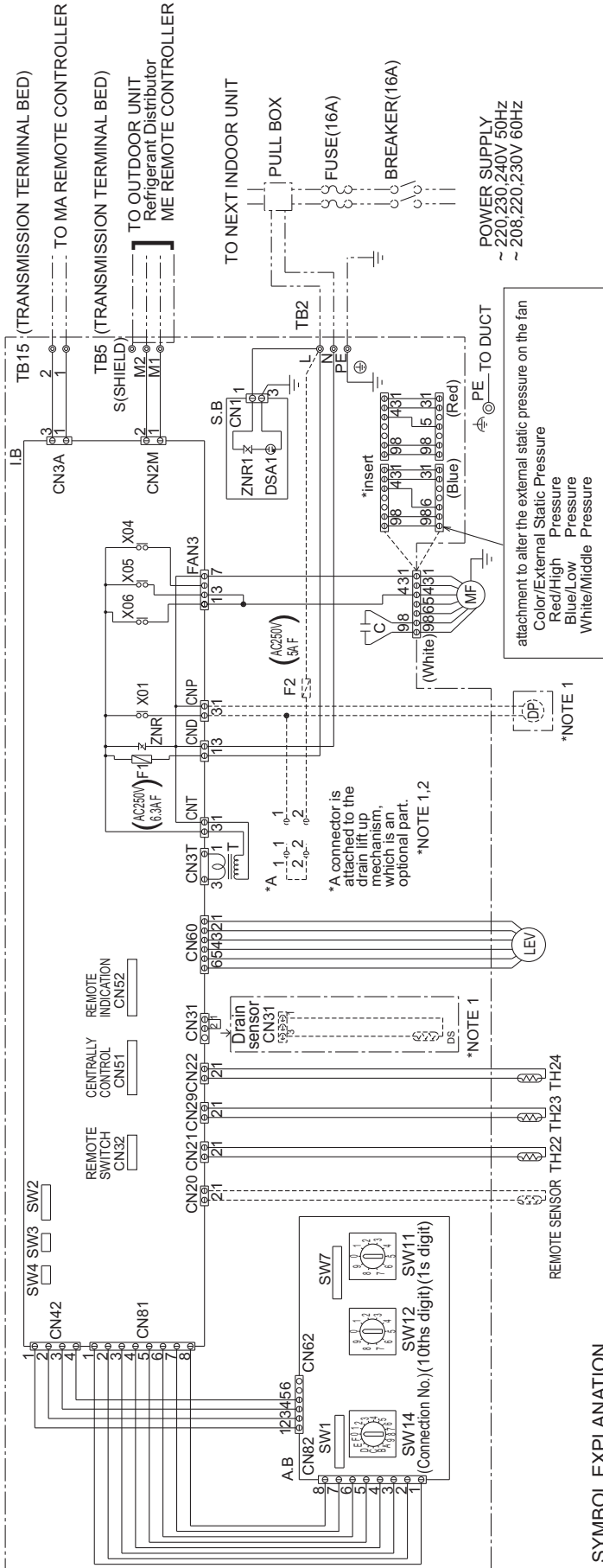
A: Center of gravity

Model name	W	L	H	X	Y	Z
PEFY-P80VMH-E-F	814 [32-1/16]	1004 [39-17/32]	210 [8-9/32]	394 [15-17/32]	584 [22-32/32]	190 [7-1/2]
PEFY-P140VMH-E-F	814 [32-1/16]	1204 [47-13/32]	210 [8-9/32]	364 [14-11/32]	649 [25-9/16]	190 [7-1/2]
PEFY-P200VMH-E-F	1034 [40-23/32]	1326 [52-7/32]	255 [10-1/16]	462 [18-7/32]	660 [25-32/32]	235 [9-9/32]
PEFY-P250VMH-E-F	1034 [40-23/32]	1326 [52-7/32]	255 [10-1/16]	462 [18-7/32]	660 [25-32/32]	235 [9-9/32]

(mm)[in]

PEFY-P80, 140VMH-E-F

INSIDE SECTION OF CONTROL BOX



POWER SUPPLY  
~ 220, 230, 240V 50Hz  
~ 208, 220, 230V 60Hz

attachment to alter the external static pressure on the fan  
Red/High Pressure  
Blue/Low Pressure  
White/Middle Pressure

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

- 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.

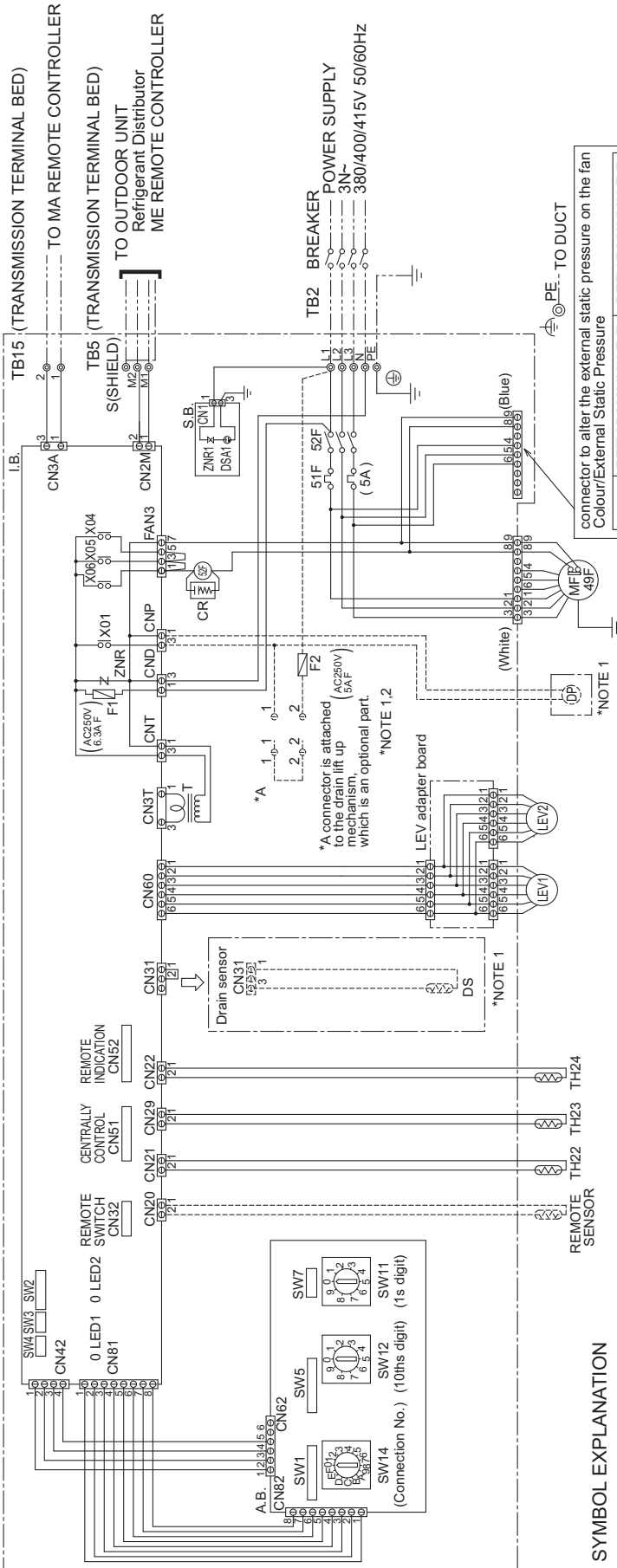
SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN20	Connector (remote sensor)
C	B Capacitor (for MF)	TH22	Thermistor (piping temp.detection/liquid)
LB	Indoor controller board	TH23	Thermistor (piping temp.detection/gas)
<DS>	Drain sensor	TH24	Thermistor (outdoor air temp.detection)
A.B	Address board	SW11(A.B)	Switch (1s digit address set)
TB2	Power source terminal bed	SW12(A.B)	Switch (10ths 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(L.B)	Switch (for capacity code)
<F2>	Fuse AC250V 5A F	SW3(L.B)	Switch (for mode selection)
T	Transformer	SW4(L.B)	Switch (for model selection)
<DP>	Drain Pump	SW7(A.B)	Switch (for model selection)
LEV	Electronic linear expan. valve	X04 ~ X06	Aux.relay
S.B	Surge absorber board		

Inside < > is the optional parts.

PEFY-P200, 250VMH-E-F

INSIDE SECTION OF CONTROL BOX



connector to alter the external static pressure on the fan Colour/External Static Pressure

Colour	PEFY-P200VMH-E-F	PEFY-P250VMH-E-F
Blue	140Pa (at 380V) 120Pa (at 400V) 160Pa (at 415V)	110Pa (at 380V) 120Pa (at 400V) 130Pa (at 415V)
White	200Pa (at 380V) 210Pa (at 400V) 220Pa (at 415V)	190Pa (at 380V) 200Pa (at 400V) 210Pa (at 415V)

- 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. (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.

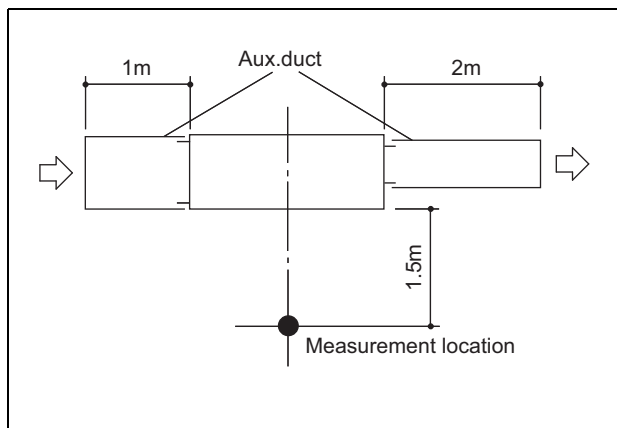
SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (piping temp. detection/liquid)
I.B.	Indoor controller board	TH23	Thermistor (piping temp. detection/gas)
A.B.	Address board	TH24	Thermistor (outdoor air temp. detection)
TB2	Power source terminal bed	SW11 (A.B.)	Switch (1s digit address set)
TB5	Transmission terminal bed	SW12 (A.B.)	Switch (10ths 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 (I.B.)	Switch (for capacity code)
T	Transformer	SW3 (I.B.)	Switch (for mode selection)
<DP>	Drain Pump	SW4 (I.B.)	Switch (for modal selection)
LEV1, LEV2	Electronic linear expan. valve	SW5 (A.B.)	Switch (for voltage selection)
<DS>	Drain sensor	SW7 (A.B.)	Switch (for modal selection)
S.B.	Surge absorber board	X04-X06	Aux. relay
52F	Contact (fan motor)	49F	Inner thermostat
51F	Over current relay (fan motor)	LED1	Power Supply (I.B.)
		LED2	Power Supply (Remote Controller)

Inside < > is the optional parts.

## 5-1. Sound levels

PEFY-P-VMH-E-F



Sound level at anechoic room : Low-Mid-High, Low-High

		Sound level dB (A)
PEFY-P80VMH-E-F	208, 220V	27 - 38 - 43
	230, 240V	33 - 43 - 45
PEFY-P140VMH-E-F	208, 220V	28 - 38 - 43
	230, 240V	34 - 43 - 45
PEFY-P200VMH-E-F	380V	39 - 42
	400V	40 - 43
	415V	40 - 44
PEFY-P250VMH-E-F	380V	40 - 44
	400V	40 - 45
	415V	41 - 46

\*Measured in anechoic room.

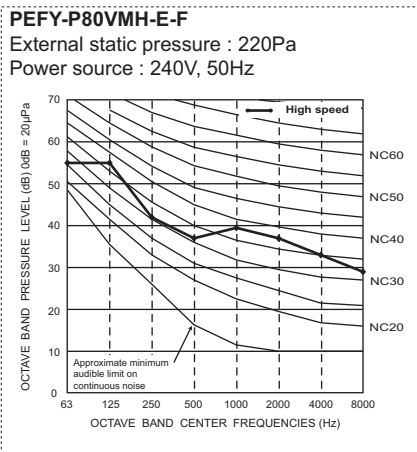
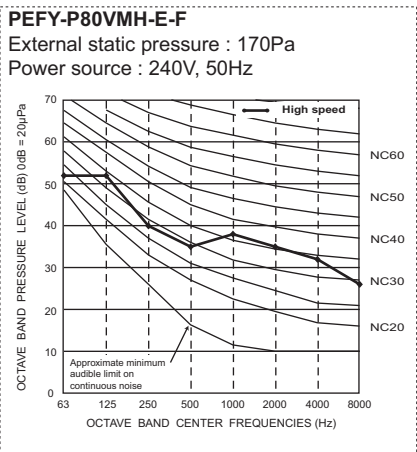
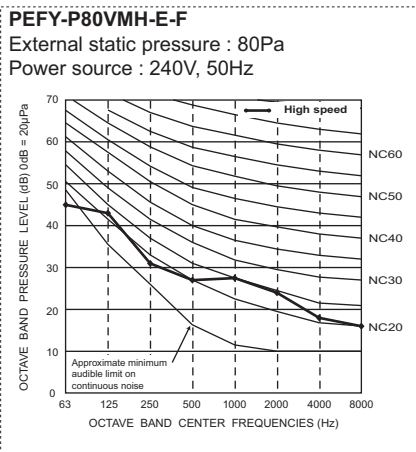
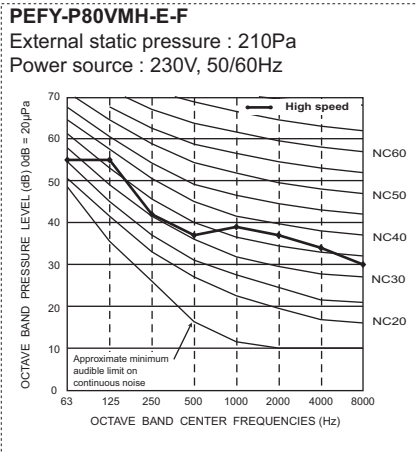
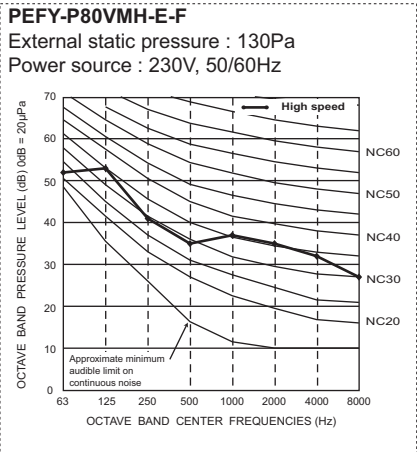
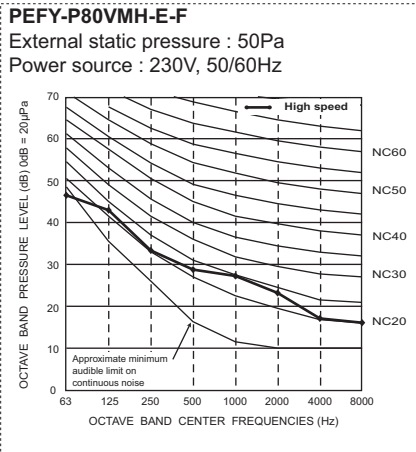
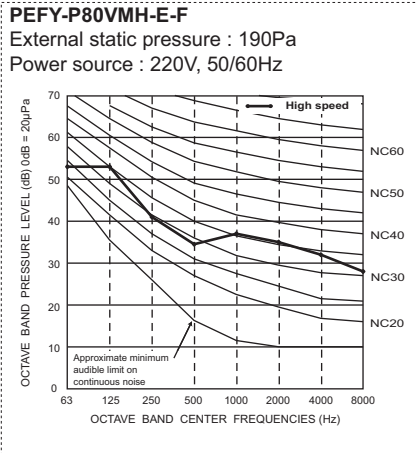
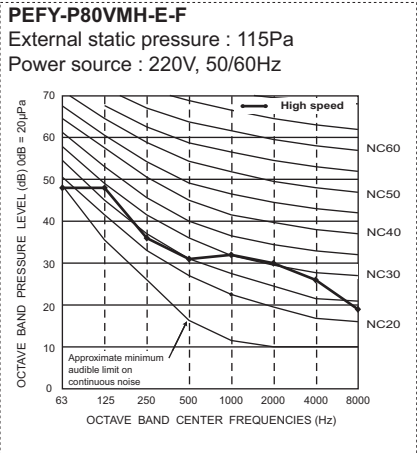
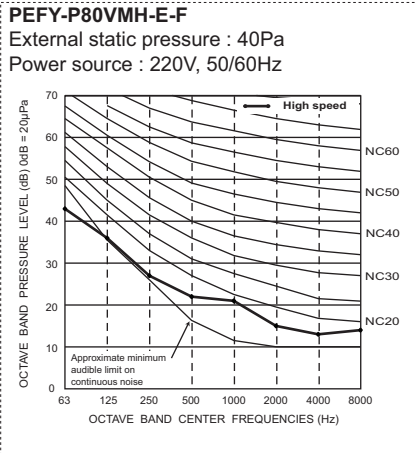
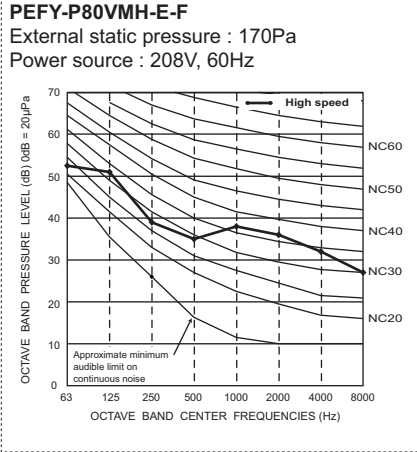
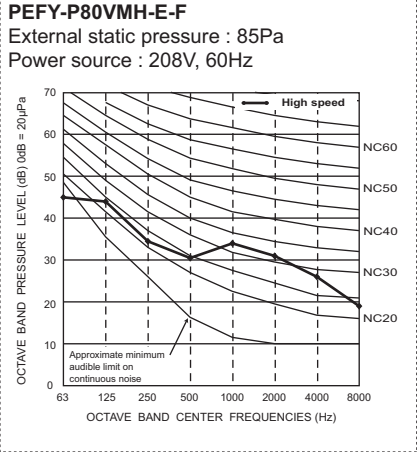
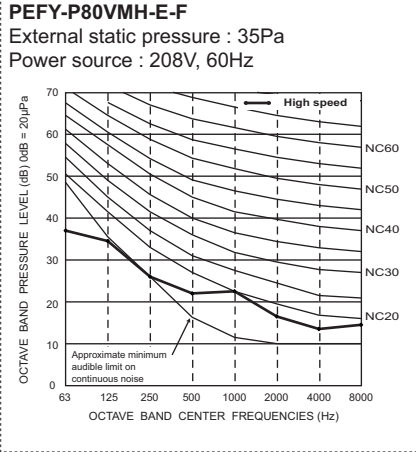
\* External static pressure : Low-Mid-High, Low-High

Unit : Pa

		PEFY-P80VMH-E-F	PEFY-P140VMH-E-F	PEFY-P200VMH-E-F	PEFY-P250VMH-E-F
External static press.(Pa)	50Hz	-	-	140-200 (380V)	110-190 (380V)
	60Hz	35-85-170 (208V)	35-85-170 (208V)	140-200 (380V)	110-190 (380V)
	50Hz	40-115-190 (220V)	50-115-190 (220V)	150-210 (400V)	120-200 (400V)
	60Hz	40-115-190 (220V)	50-115-190 (220V)	150-210 (400V)	120-200 (400V)
	50Hz	50-130-210 (230V)	60-130-220 (230V)	160-220 (415V)	130-210 (415V)
	60Hz	50-130-210 (230V)	60-130-220 (230V)	160-220 (415V)	130-210 (415V)
	50Hz	80-170-220 (240V)	100-170-240 (240V)		
	60Hz	-	-		

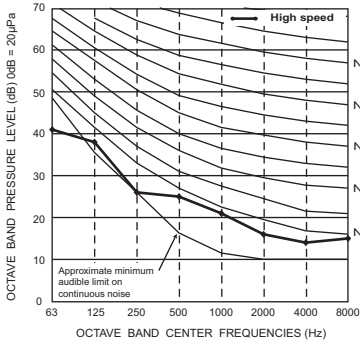
5-2. NC curves

PEFY-E-F

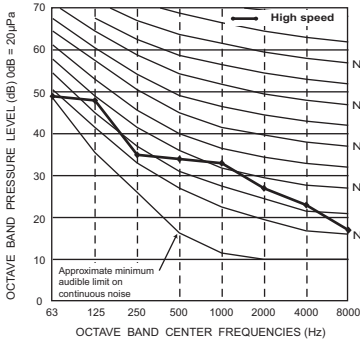


PEFY-E-F

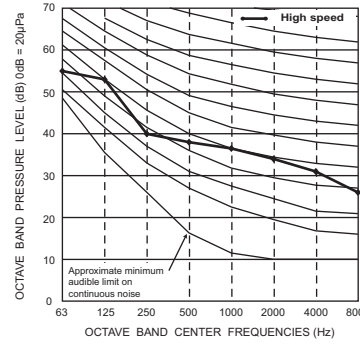
**PEFY-P140VMH-E-F**  
 External static pressure : 35Pa  
 Power source : 208V, 60Hz



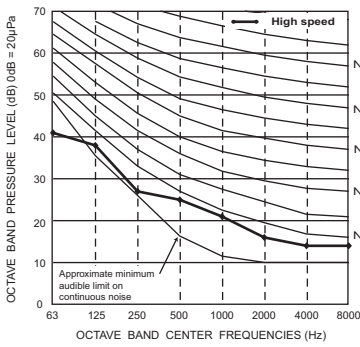
**PEFY-P140VMH-E-F**  
 External static pressure : 85Pa  
 Power source : 208V, 60Hz



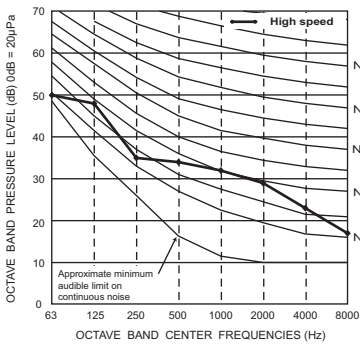
**PEFY-P140VMH-E-F**  
 External static pressure : 170Pa  
 Power source : 208V, 60Hz



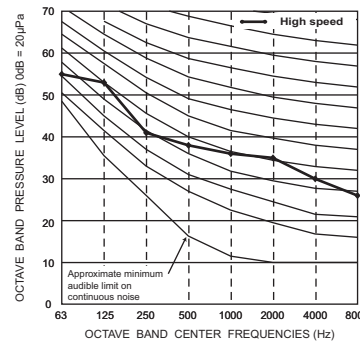
**PEFY-P140VMH-E-F**  
 External static pressure : 50Pa  
 Power source : 220V, 50/60Hz



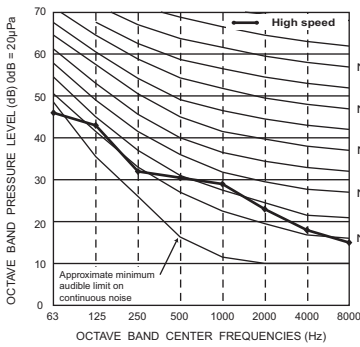
**PEFY-P140VMH-E-F**  
 External static pressure : 115Pa  
 Power source : 220V, 50/60Hz



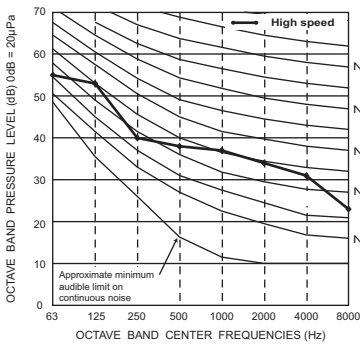
**PEFY-P140VMH-E-F**  
 External static pressure : 190Pa  
 Power source : 220V, 50/60Hz



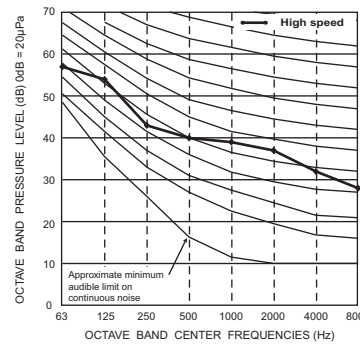
**PEFY-P140VMH-E-F**  
 External static pressure : 60Pa  
 Power source : 230V, 50/60Hz



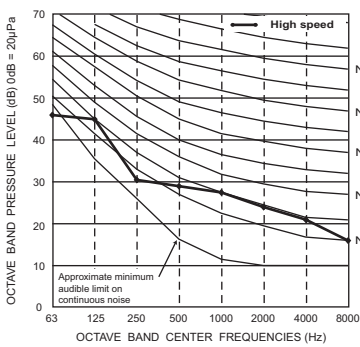
**PEFY-P140VMH-E-F**  
 External static pressure : 130Pa  
 Power source : 230V, 50/60Hz



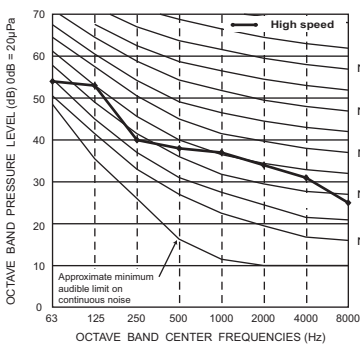
**PEFY-P140VMH-E-F**  
 External static pressure : 220Pa  
 Power source : 230V, 50/60Hz



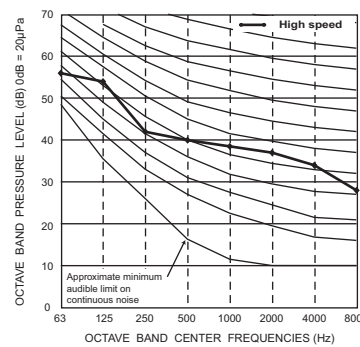
**PEFY-P140VMH-E-F**  
 External static pressure : 100Pa  
 Power source : 240V, 50Hz

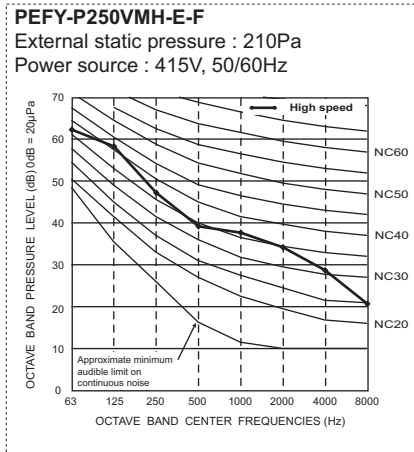
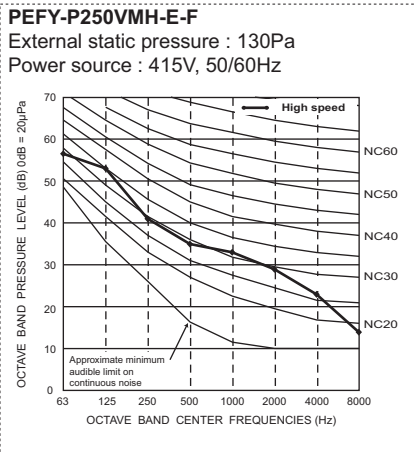
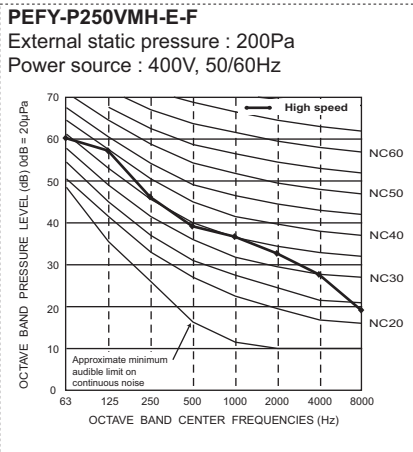
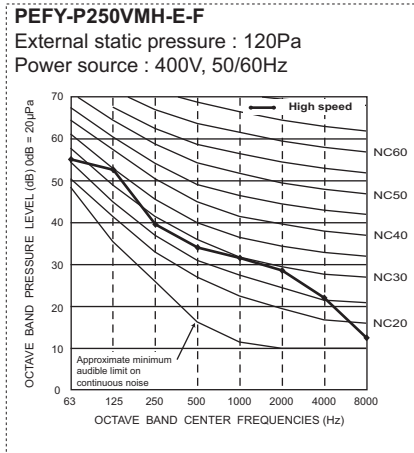
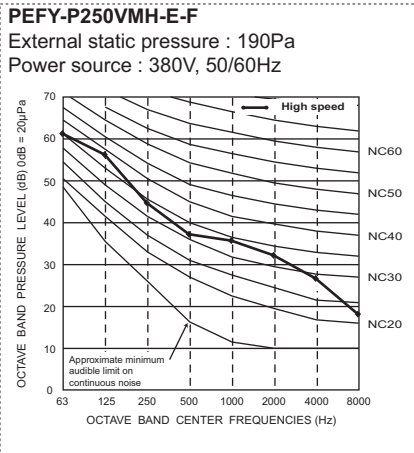
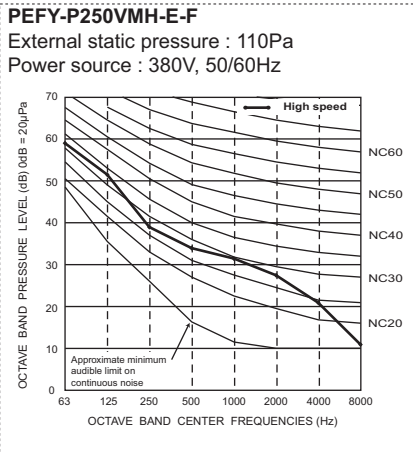
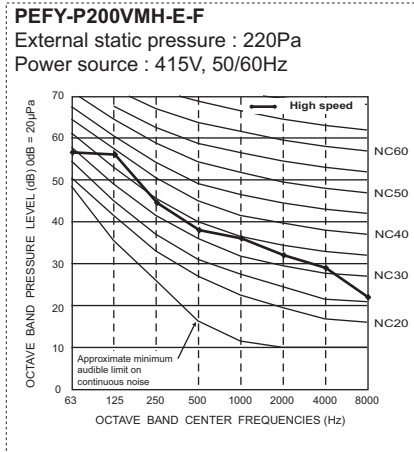
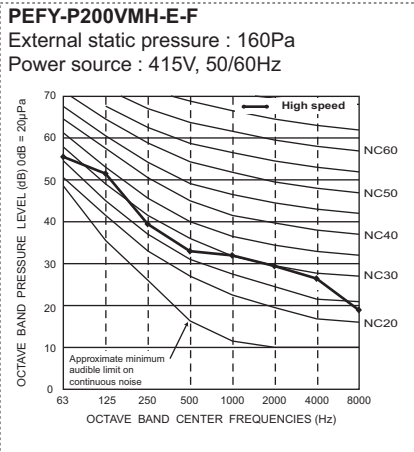
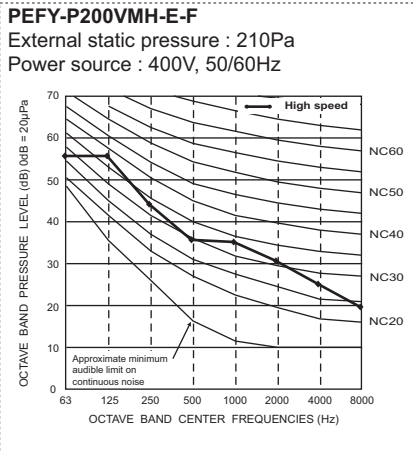
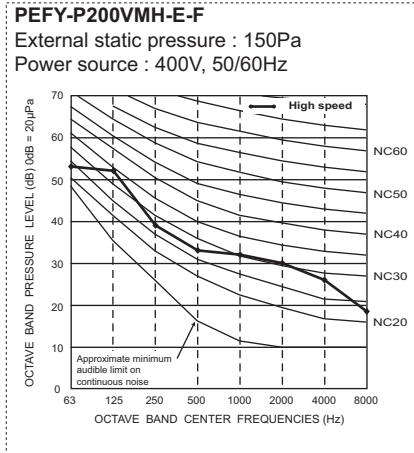
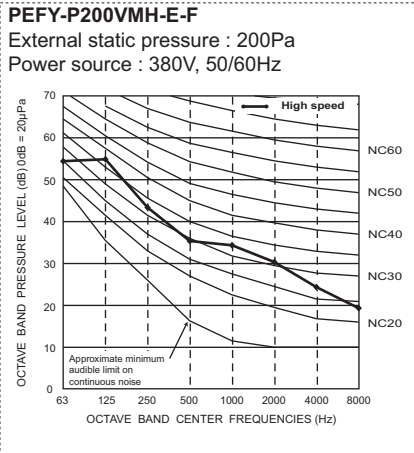
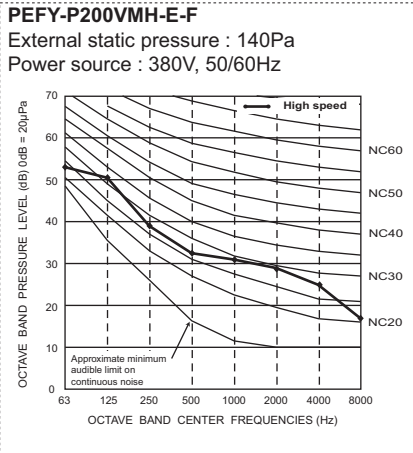


**PEFY-P140VMH-E-F**  
 External static pressure : 170Pa  
 Power source : 240V, 50Hz



**PEFY-P140VMH-E-F**  
 External static pressure : 240Pa  
 Power source : 240V, 50Hz

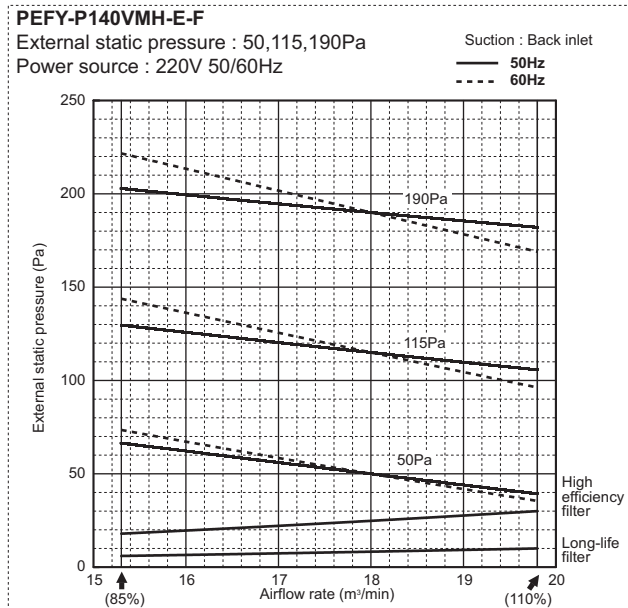
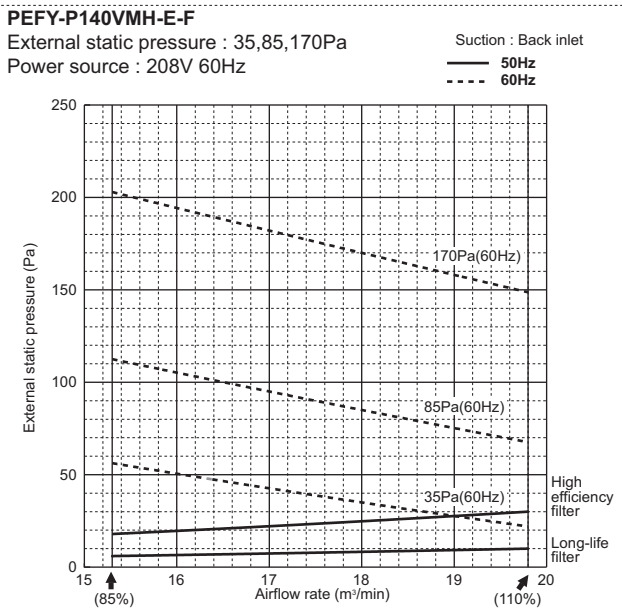
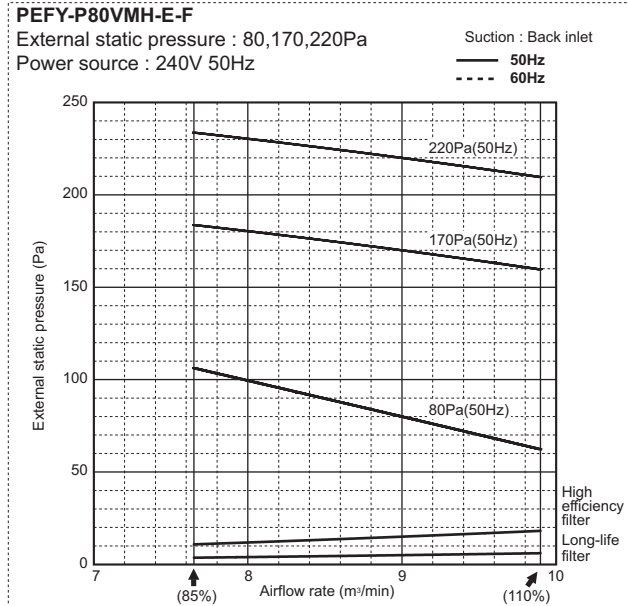
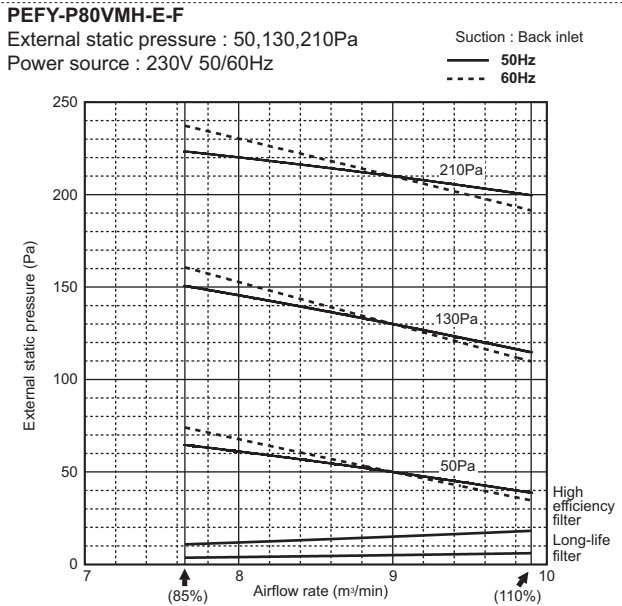
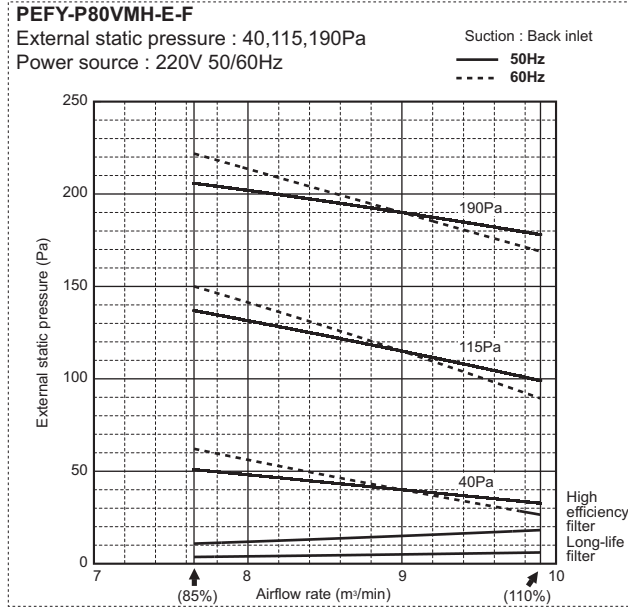
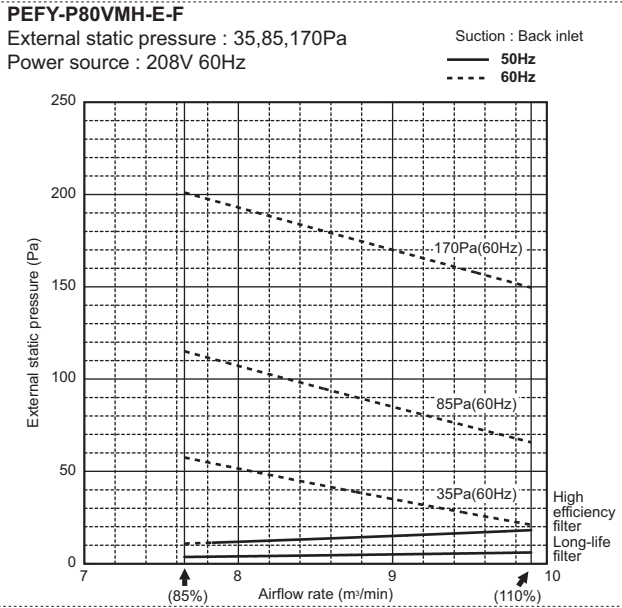






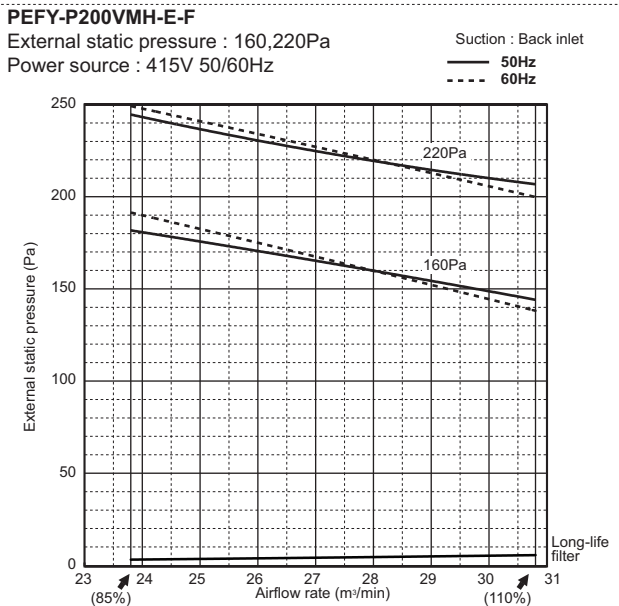
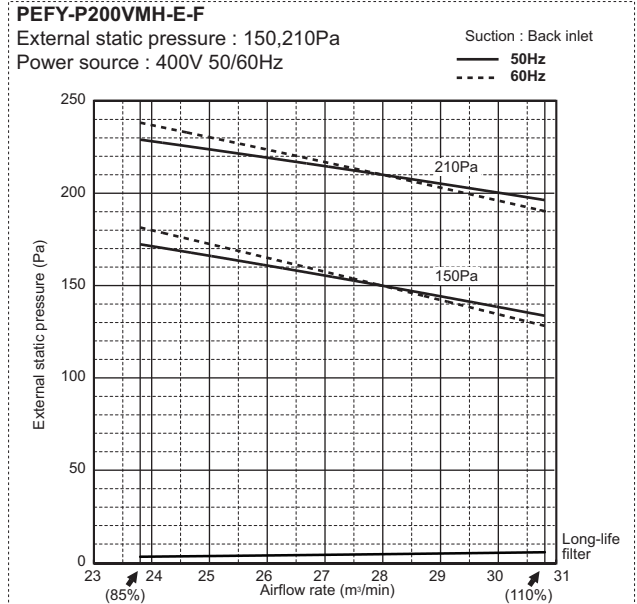
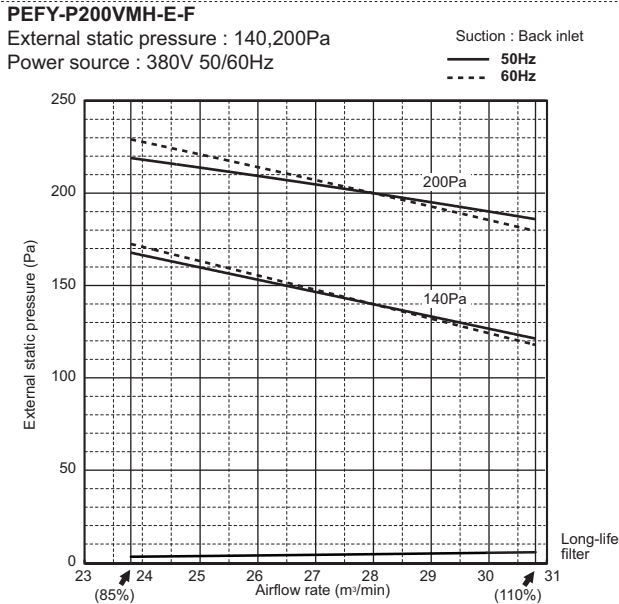
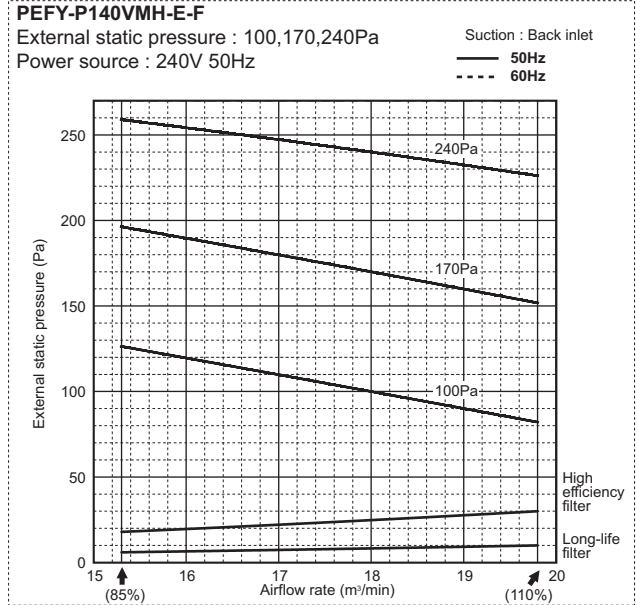
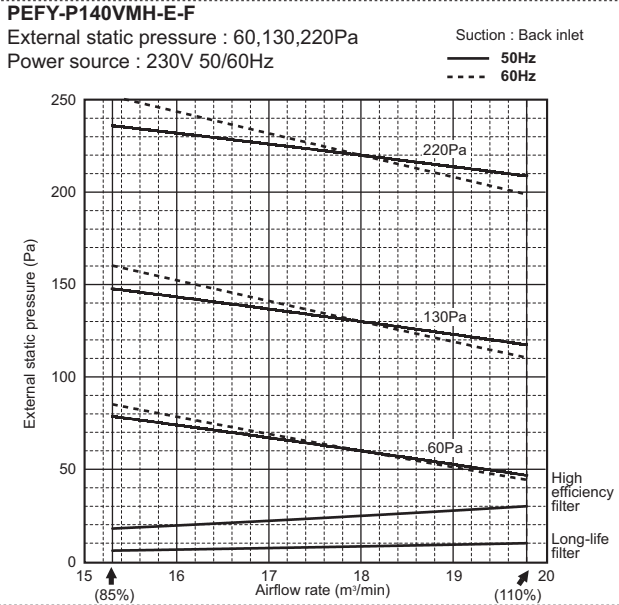
# 6. FAN CHARACTERISTICS CURVES

PEFY-E-F



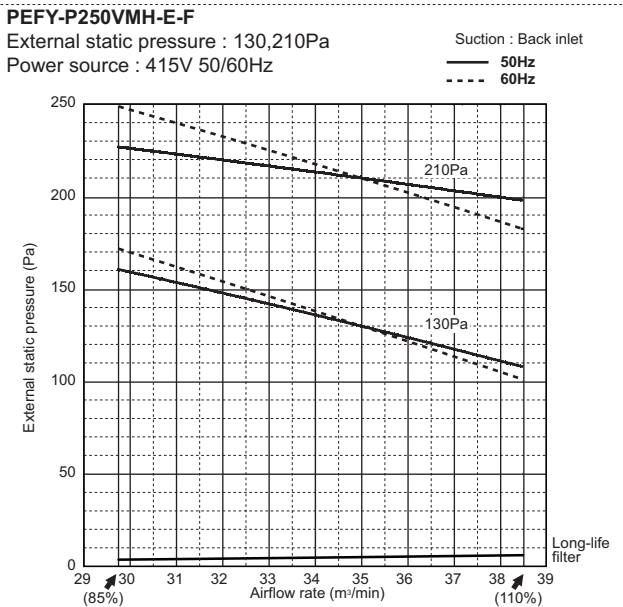
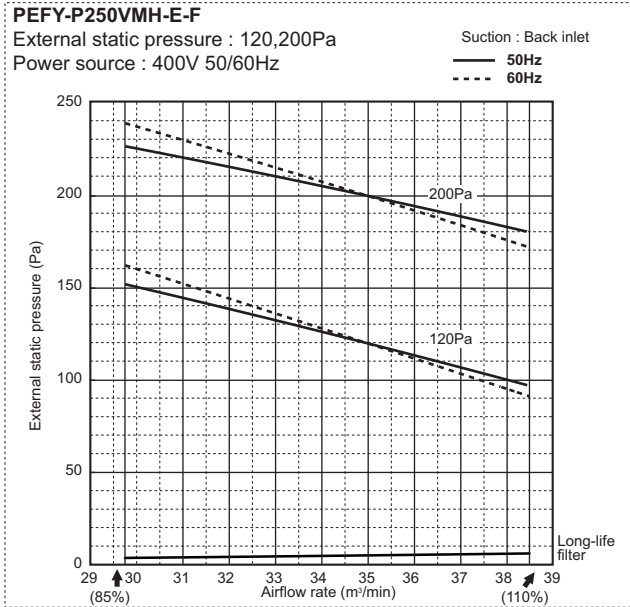
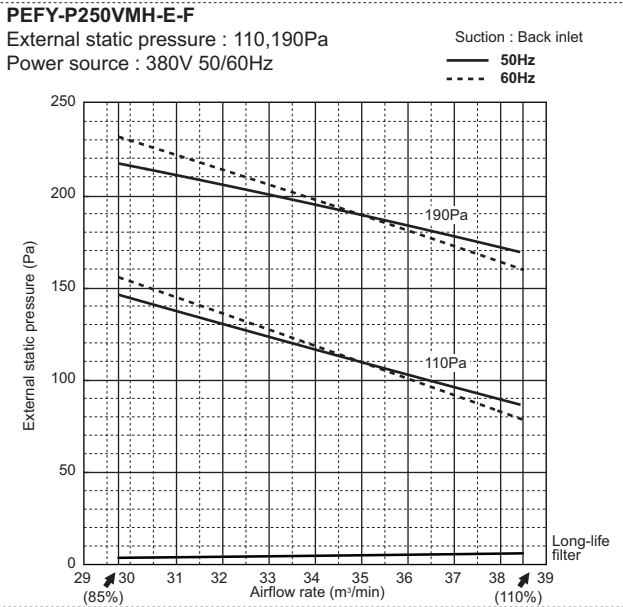
# 6. FAN CHARACTERISTICS CURVES

PEFY-E-F



# 6. FAN CHARACTERISTICS CURVES

PEFY-E-F



# 7. CAPACITY TABLES

## 7-1. Cooling capacity

PEFY-P80VMH-E-F

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

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
70	21	4.4	3.0	5.3	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	4.4	3.4	5.3	3.3	6.5	3.0	-	-	-	-	-	-	-	-	-	-	-	-
77	25	4.4	3.8	5.2	3.7	6.4	3.4	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	5.2	4.0	6.4	3.7	7.5	3.3	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	6.4	4.1	7.5	3.7	8.5	3.2	-	-	-	-	-	-	-	-
88	31	-	-	-	-	6.3	4.5	7.4	4.0	8.4	3.5	9.1	3.1	-	-	-	-	-	-
91	33	-	-	-	-	-	-	7.3	4.4	8.3	3.8	9.0	3.5	9.6	3.0	-	-	-	-
95	35	-	-	-	-	-	-	7.2	4.7	8.2	4.2	8.9	3.8	9.5	3.3	-	-	-	-
99	37	-	-	-	-	-	-	-	-	8.1	4.5	8.8	4.1	9.4	3.7	9.9	3.2	-	-
104	40	-	-	-	-	-	-	-	-	8.0	5.0	8.6	4.6	9.1	4.1	9.7	3.7	10.5	2.9

PEFY-P140VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
70	21	7.8	5.6	9.4	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	7.8	6.3	9.3	6.0	11.5	5.4	-	-	-	-	-	-	-	-	-	-	-	-
77	25	7.8	7.1	9.3	6.8	11.5	6.1	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	9.3	7.5	11.4	6.8	13.4	6.0	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	11.3	7.5	13.3	6.7	15.2	5.6	-	-	-	-	-	-	-	-
88	31	-	-	-	-	11.2	8.2	13.2	7.3	15.0	6.3	16.2	5.5	-	-	-	-	-	-
91	33	-	-	-	-	-	-	13.0	8.0	14.8	7.0	16.0	6.2	17.1	5.3	-	-	-	-
95	35	-	-	-	-	-	-	12.9	8.7	14.6	7.6	15.8	6.8	16.9	6.0	-	-	-	-
99	37	-	-	-	-	-	-	-	-	14.5	8.3	15.6	7.5	16.6	6.6	17.7	5.7	-	-
104	40	-	-	-	-	-	-	-	-	14.2	9.3	15.2	8.5	16.3	7.6	17.3	6.7	18.7	5.3

PEFY-P200VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
70	21	10.9	7.9	13.1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	11.0	9.0	13.1	8.5	16.1	7.6	-	-	-	-	-	-	-	-	-	-	-	-
77	25	11.0	10.1	13.0	9.6	16.0	8.6	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	13.0	10.7	15.9	9.7	18.8	8.4	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	15.8	10.7	18.6	9.4	21.2	7.9	-	-	-	-	-	-	-	-
88	31	-	-	-	-	15.7	11.7	18.4	10.4	21.0	8.9	22.6	7.7	-	-	-	-	-	-
91	33	-	-	-	-	-	-	18.2	11.4	20.7	9.8	22.4	8.7	23.9	7.5	-	-	-	-
95	35	-	-	-	-	-	-	18.0	12.4	20.5	10.8	22.1	9.6	23.6	8.4	-	-	-	-
99	37	-	-	-	-	-	-	-	-	20.2	11.8	21.8	10.6	23.3	9.4	24.7	8.1	-	-
104	40	-	-	-	-	-	-	-	-	19.8	13.2	21.3	12.0	22.8	10.8	24.2	9.5	26.2	7.47

PEFY-P250VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
70	21	13.7	9.9	16.4	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	13.7	11.3	16.3	10.7	20.2	9.5	-	-	-	-	-	-	-	-	-	-	-	-
77	25	13.7	12.6	16.3	12.0	20.1	10.8	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	16.2	13.3	19.9	12.1	23.4	10.5	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	19.8	13.4	23.2	11.7	26.5	9.8	-	-	-	-	-	-	-	-
88	31	-	-	-	-	19.6	14.7	23.0	13.0	26.2	11.1	28.3	9.7	-	-	-	-	-	-
91	33	-	-	-	-	-	-	22.8	14.2	25.9	12.3	28.0	10.9	29.9	9.3	-	-	-	-
95	35	-	-	-	-	-	-	22.5	15.5	25.6	13.5	27.6	12.1	29.5	10.5	-	-	-	-
99	37	-	-	-	-	-	-	-	-	25.3	14.7	27.2	13.3	29.1	11.7	30.9	10.1	-	-
104	40	-	-	-	-	-	-	-	-	24.8	16.5	26.6	15.0	28.4	13.5	30.2	11.9	32.7	9.34

There are times when the cooling capacity is lowered to protect the compressor in cases where the outdoor air temperature exceeds 40°C (104°F)

# 7. CAPACITY TABLES

EP-YKM

## 7-2. Outlet air temp. cooled

PEFY-P80VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB
70	21	5.1	5.0	5.6	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	5.1	5.0	5.7	5.6	7.0	7.0	-	-	-	-	-	-	-	-	-	-	-	-
77	25	5.1	5.0	5.7	5.7	7.1	7.1	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	5.8	5.7	7.2	7.2	9.2	9.2	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	7.4	7.3	9.4	9.4	12.0	12.0	-	-	-	-	-	-	-	-
88	31	-	-	-	-	7.5	7.4	9.6	9.6	12.2	12.2	14.2	14.2	-	-	-	-	-	-
91	33	-	-	-	-	-	-	9.8	9.7	12.4	12.4	14.4	14.4	16.6	16.6	-	-	-	-
95	35	-	-	-	-	-	-	10.0	9.9	12.6	12.6	14.6	14.6	16.8	16.8	-	-	-	-
99	37	-	-	-	-	-	-	-	-	12.8	12.8	14.9	14.8	17.1	17.1	19.5	19.5	-	-
104	40	-	-	-	-	-	-	-	-	13.2	13.1	15.3	15.2	17.5	17.4	19.9	19.8	23.7	23.7

PEFY-P140VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB
70	21	6.3	6.3	7.1	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	6.3	6.3	7.1	7.1	8.7	8.7	-	-	-	-	-	-	-	-	-	-	-	-
77	25	6.4	6.3	7.2	7.1	8.8	8.8	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	7.2	7.1	8.9	8.9	11.1	11.1	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	9.0	9.0	11.2	11.2	13.9	13.9	-	-	-	-	-	-	-	-
88	31	-	-	-	-	9.1	9.0	11.4	11.3	14.0	14.0	16.1	16.1	-	-	-	-	-	-
91	33	-	-	-	-	-	-	11.5	11.5	14.2	14.2	16.2	16.2	18.4	18.4	-	-	-	-
95	35	-	-	-	-	-	-	11.7	11.6	14.4	14.4	16.4	16.4	18.6	18.6	-	-	-	-
99	37	-	-	-	-	-	-	-	-	14.6	14.5	16.7	16.6	18.8	18.8	21.2	21.1	-	-
104	40	-	-	-	-	-	-	-	-	14.9	14.8	17.0	16.9	19.2	19.1	21.5	21.5	25.2	25.2

PEFY-P200VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB
70	21	7.6	7.2	8.3	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	7.7	7.2	8.5	8.2	10.0	10.0	-	-	-	-	-	-	-	-	-	-	-	-
77	25	7.8	7.2	8.6	8.2	10.3	10.1	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	8.8	8.2	10.5	10.1	12.5	12.4	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	10.7	10.2	12.8	12.6	15.3	15.3	-	-	-	-	-	-	-	-
88	31	-	-	-	-	10.9	10.3	13.0	12.7	15.6	15.4	17.5	17.5	-	-	-	-	-	-
91	33	-	-	-	-	-	-	13.3	12.8	15.9	15.6	17.7	17.6	19.8	19.8	-	-	-	-
95	35	-	-	-	-	-	-	13.6	12.9	16.1	15.7	18.1	17.8	20.1	20.0	-	-	-	-
99	37	-	-	-	-	-	-	-	-	16.4	15.9	18.4	17.9	20.4	20.1	22.6	22.4	-	-
104	40	-	-	-	-	-	-	-	-	16.9	16.1	18.8	18.2	20.9	20.4	23.1	22.7	26.5	26.3

PEFY-P250VMH-E-F

Outdoor air temp.		59°FWB		63°FWB		68°FWB		73°FWB		79°FWB		82°FWB		86°FWB		90°FWB		95°FWB	
		15°CWB		17°CWB		20°CWB		23°CWB		26°CWB		28°CWB		30°CWB		32°CWB		35°CWB	
°FDB	°CDB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB	°CDB	°CWB
70	21	7.6	7.2	8.3	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	23	7.7	7.2	8.5	8.2	10.0	10.0	-	-	-	-	-	-	-	-	-	-	-	-
77	25	7.8	7.2	8.6	8.2	10.3	10.1	-	-	-	-	-	-	-	-	-	-	-	-
81	27	-	-	8.8	8.2	10.5	10.1	12.5	12.4	-	-	-	-	-	-	-	-	-	-
84	29	-	-	-	-	10.7	10.2	12.8	12.6	15.3	15.3	-	-	-	-	-	-	-	-
88	31	-	-	-	-	10.9	10.3	13.0	12.7	15.6	15.4	17.5	17.5	-	-	-	-	-	-
91	33	-	-	-	-	-	-	13.3	12.8	15.9	15.6	17.7	17.6	19.8	19.8	-	-	-	-
95	35	-	-	-	-	-	-	13.6	12.9	16.1	15.7	18.1	17.8	20.1	20.0	-	-	-	-
99	37	-	-	-	-	-	-	-	-	16.4	15.9	18.4	17.9	20.4	20.1	22.6	22.4	-	-
104	40	-	-	-	-	-	-	-	-	16.9	16.1	18.8	18.2	20.9	20.4	23.1	22.7	26.5	26.3

7-3. Heating capacity

PEFY-P80VMH-E-F

SHC:Sensible Heat Capacity(kW)

Outdoor air temp.		16°FWB	23°FWB	27°FWB	32°FWB	36°FWB	39°FWB	43°FWB	50°FWB	57°FWB
		-9°CWB	-5°CWB	-2.9°CWB	0°CWB	2°CWB	4°CWB	6°CWB	10°CWB	14°CWB
°FDB	°CDB	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC
18	-8	8.2	-	-	-	-	-	-	-	-
27	-3	-	9.1	-	-	-	-	-	-	-
32	0	-	-	8.5	-	-	-	-	-	-
37	3	-	-	-	7.9	7.9	-	-	-	-
45	7	-	-	-	-	7.1	7.1	7.1	-	-
52	11	-	-	-	-	-	-	6.3	6.3	-
59	15	-	-	-	-	-	-	-	5.5	5.5
64	18	-	-	-	-	-	-	-	5.0	5.0
68	20	-	-	-	-	-	-	-	-	4.6

PEFY-P140VMH-E-F

Outdoor air temp.		16°FWB	23°FWB	27°FWB	32°FWB	36°FWB	39°FWB	43°FWB	50°FWB	57°FWB
		-9°CWB	-5°CWB	-2.9°CWB	0°CWB	2°CWB	4°CWB	6°CWB	10°CWB	14°CWB
°FDB	°CDB	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC
18	-8	14.6	-	-	-	-	-	-	-	-
27	-3	-	16.2	-	-	-	-	-	-	-
32	0	-	-	15.1	-	-	-	-	-	-
37	3	-	-	-	14.0	14.0	-	-	-	-
45	7	-	-	-	-	12.6	12.6	12.6	-	-
52	11	-	-	-	-	-	-	11.2	11.2	-
59	15	-	-	-	-	-	-	-	9.8	9.8
64	18	-	-	-	-	-	-	-	8.8	8.8
68	20	-	-	-	-	-	-	-	-	8.1

PEFY-P200VMH-E-F

Outdoor air temp.		16°FWB	23°FWB	27°FWB	32°FWB	36°FWB	39°FWB	43°FWB	50°FWB	57°FWB
		-9°CWB	-5°CWB	-2.9°CWB	0°CWB	2°CWB	4°CWB	6°CWB	10°CWB	14°CWB
°FDB	°CDB	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC
18	-8	20.5	-	-	-	-	-	-	-	-
27	-3	-	22.7	-	-	-	-	-	-	-
32	0	-	-	21.2	-	-	-	-	-	-
37	3	-	-	-	19.7	19.7	-	-	-	-
45	7	-	-	-	-	17.8	17.8	17.8	-	-
52	11	-	-	-	-	-	-	15.8	15.8	-
59	15	-	-	-	-	-	-	-	13.8	13.8
64	18	-	-	-	-	-	-	-	12.3	12.3
68	20	-	-	-	-	-	-	-	-	11.4

PEFY-P250VMH-E-F

Outdoor air temp.		16°FWB	23°FWB	27°FWB	32°FWB	36°FWB	39°FWB	43°FWB	50°FWB	57°FWB
		-9°CWB	-5°CWB	-2.9°CWB	0°CWB	2°CWB	4°CWB	6°CWB	10°CWB	14°CWB
°FDB	°CDB	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC	SHC
18	-8	25.7	-	-	-	-	-	-	-	-
27	-3	-	28.3	-	-	-	-	-	-	-
32	0	-	-	26.5	-	-	-	-	-	-
37	3	-	-	-	24.7	24.7	-	-	-	-
45	7	-	-	-	-	22.2	22.2	22.2	-	-
52	11	-	-	-	-	-	-	19.7	19.7	-
59	15	-	-	-	-	-	-	-	17.3	17.3
64	18	-	-	-	-	-	-	-	15.4	15.4
68	20	-	-	-	-	-	-	-	-	14.2

PEFY-E-F

# 7. CAPACITY TABLES

## 7-4. Outlet air temp. heated

PEFY-P80VMH-E-F

Outdoor air temp.		16°F WB	23°F WB	27°F WB	32°F WB	36°F WB	39°F WB	43°F WB	50°F WB	57°F WB
		-9°C WB	-5°C WB	-2.9°C WB	0°C WB	2°C WB	4°C WB	6°C WB	10°C WB	14°C WB
°F DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB
18	-8	40.6	-	-	-	-	-	-	-	-
27	-3	-	53.1	-	-	-	-	-	-	-
32	0	-	-	51.9	-	-	-	-	-	-
37	3	-	-	-	51.3	51.8	-	-	-	-
45	7	-	-	-	-	50.5	50.5	50.9	-	-
52	11	-	-	-	-	-	-	49.6	50.1	-
59	15	-	-	-	-	-	-	-	48.8	49.2
64	18	-	-	-	-	-	-	-	48.2	48.2
68	20	-	-	-	-	-	-	-	-	47.8

PEFY-P140VMH-E-F

Outdoor air temp.		16°F WB	23°F WB	27°F WB	32°F WB	36°F WB	39°F WB	43°F WB	50°F WB	57°F WB
		-9°C WB	-5°C WB	-2.9°C WB	0°C WB	2°C WB	4°C WB	6°C WB	10°C WB	14°C WB
°F DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB
18	-8	34.7	-	-	-	-	-	-	-	-
27	-3	-	45.8	-	-	-	-	-	-	-
32	0	-	-	45.6	-	-	-	-	-	-
37	3	-	-	-	45.4	45.4	-	-	-	-
45	7	-	-	-	-	45.2	45.2	45.2	-	-
52	11	-	-	-	-	-	-	45.0	45.0	-
59	15	-	-	-	-	-	-	-	44.7	45.1
64	18	-	-	-	-	-	-	-	44.6	44.6
68	20	-	-	-	-	-	-	-	-	44.4

PEFY-P200VMH-E-F

Outdoor air temp.		16°F WB	23°F WB	27°F WB	32°F WB	36°F WB	39°F WB	43°F WB	50°F WB	57°F WB
		-9°C WB	-5°C WB	-2.9°C WB	0°C WB	2°C WB	4°C WB	6°C WB	10°C WB	14°C WB
°F DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB
18	-8	29.7	-	-	-	-	-	-	-	-
27	-3	-	40.0	-	-	-	-	-	-	-
32	0	-	-	40.3	-	-	-	-	-	-
37	3	-	-	-	40.6	40.7	-	-	-	-
45	7	-	-	-	-	40.8	40.9	41.0	-	-
52	11	-	-	-	-	-	-	41.2	41.4	-
59	15	-	-	-	-	-	-	-	41.5	41.7
64	18	-	-	-	-	-	-	-	41.7	41.8
68	20	-	-	-	-	-	-	-	-	41.9

PEFY-P250VMH-E-F

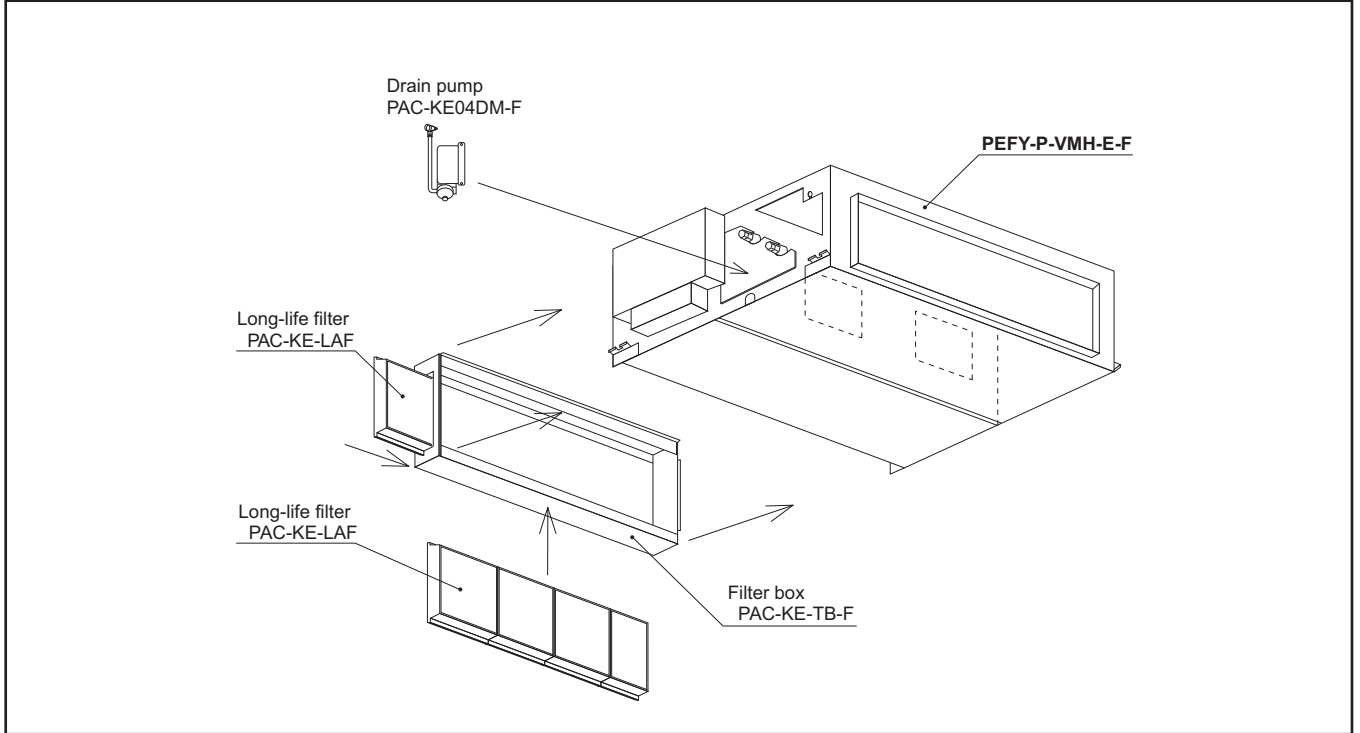
Outdoor air temp.		16°F WB	23°F WB	27°F WB	32°F WB	36°F WB	39°F WB	43°F WB	50°F WB	57°F WB
		-9°C WB	-5°C WB	-2.9°C WB	0°C WB	2°C WB	4°C WB	6°C WB	10°C WB	14°C WB
°F DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB	°C DB
18	-8	29.7	-	-	-	-	-	-	-	-
27	-3	-	40.0	-	-	-	-	-	-	-
32	0	-	-	40.3	-	-	-	-	-	-
37	3	-	-	-	40.6	40.7	-	-	-	-
45	7	-	-	-	-	40.8	40.9	41.0	-	-
52	11	-	-	-	-	-	-	41.2	41.4	-
59	15	-	-	-	-	-	-	-	41.5	41.7
64	18	-	-	-	-	-	-	-	41.6	41.8
68	20	-	-	-	-	-	-	-	-	41.9

PEFY-E-F

## 8-1. Optional parts line up for the Indoor unit

	Long-life filter	Filter box	Drain pump
PEFY-P80VMH-E-F	PAC-KE88LAF	PAC-KE80TB-F	PAC-KE04DM-F
PEFY-P100VMH-E-F	PAC-KE89LAF	PAC-KE140TB-F	PAC-KE04DM-F
PEFY-P200VMH-E-F	PAC-KE85LAF	PAC-KE250TB-F	PAC-KE04DM-F
PEFY-P250VMH-E-F	PAC-KE85LAF	PAC-KE250TB-F	PAC-KE04DM-F

### PEFY-P-VMH-E-F



## 8-2. Long-life filter

Life span: 2,500 hr (Dust concentration 0.15mg/m<sup>3</sup>)

\* The actual dust situation affects the filter life span, which should be considered at the applying site.

Material: Synthetic fiber unwoven cloth filter

Static pressure loss is referred to 6 "FAN CHARACTERISTICS CURVES".

Long-life filter should be used together with filter box PAC-KE-TB-F.

### PAC-KE-LAF

Item	PAC-KE86LAF	PAC-KE88LAF	PAC-KE89LAF	PAC-KE85LAF
Quantity	2	3	3	2
Shape	(298X300) 	(298X300) 	(298X300) 	(411X600) 

Detailed installation information should be referred to its Installation Manual (WT02574X06)

### PAC-KE-TB-F

Item	① Screw	② Filter box	③ Installation manual	
Quantity	10/12*	1	1	
Shape				*PAC-KE250TB has 12 pieces of screw.

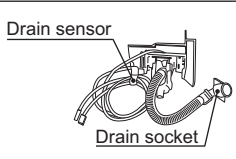
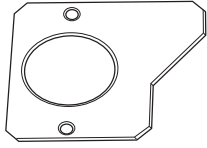




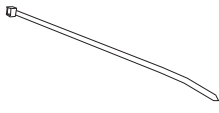

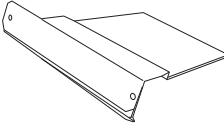

Detailed installation information should be referred to its Installation Manual (WT03018X03, WT03019X04)



## 8-3. Drain pump

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.  
 Drain pump PAC-KE04DM-F can pump water up to 550mm [21-11/16 in.] high from the drain pan.

### PAC-KE04DM-F

Item	① Drain pump ass'y	② Separator	③ Rubber plug	④ Connector	⑤ Dummy connector
Quantity	1	1	2	1	1
Shape					
Item	⑥ Rubber bushing	⑦ Band	⑧ PTT screw 4X10	⑨ Fixing plate	⑩ Installation manual
Quantity	1	2	6+1 (spare)	1	1
Shape					

Detailed installation information should be referred to its Installation Manual (WT03312X07)

## PMFY-P-VBM-E

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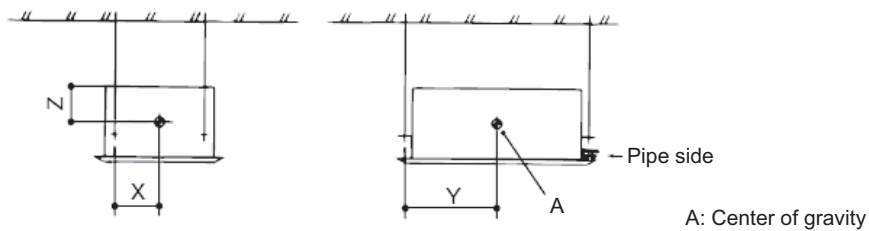
# 1. SPECIFICATIONS

EP-YKM

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	
	*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	
	*4	Power input	kW	0.042	0.044	0.044	0.054
*4	Current input	A	0.20	0.21	0.21	0.26	
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	
	*4	Power input	kW	0.042	0.044	0.044	0.054
	*4	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 (lbs)	14 (31)				
Decoration panel	Model		PMP-40BM	PMP-40BM	PMP-40BM	PMP-40BM	
	External finish		MUNSELL (0.98Y 8.99/0.63)				
	Dimension	mm	30 x 1,000 x 470				
	H x W x D	in.	1-3/16 x 39-3/8 x 18-9/16				
	Net Weight	kg (lbs)	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 <sub>2</sub> O	0				
	Motor type		1-phase induction motor				
	Motor output	kW	0.028				
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / 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		
Sound pressure level (Low-Mid-High) (measured in anechoic room)	*4	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 CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	
Field drain pipe size		mm (in.)	O.D. 26 (1)				
Drawing	External		IU-BH01-C184				
	Wiring		IU-RG79-A671				
	Refrigerant cycle						
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose I.D. 26 (1) (flexible joint)				
Remark	Optional parts						
	Decoration panel		PMP-40BM	PMP-40BM	PMP-40BM	PMP-40BM	
			*PMFY-P-VBM-E should be 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 the Installation Manual.					
<b>Note :</b>			*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 <sup>3</sup> /min x 35.31	
Level difference :			0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = 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.							
*4 The values are measured at the rated external static pressure.							



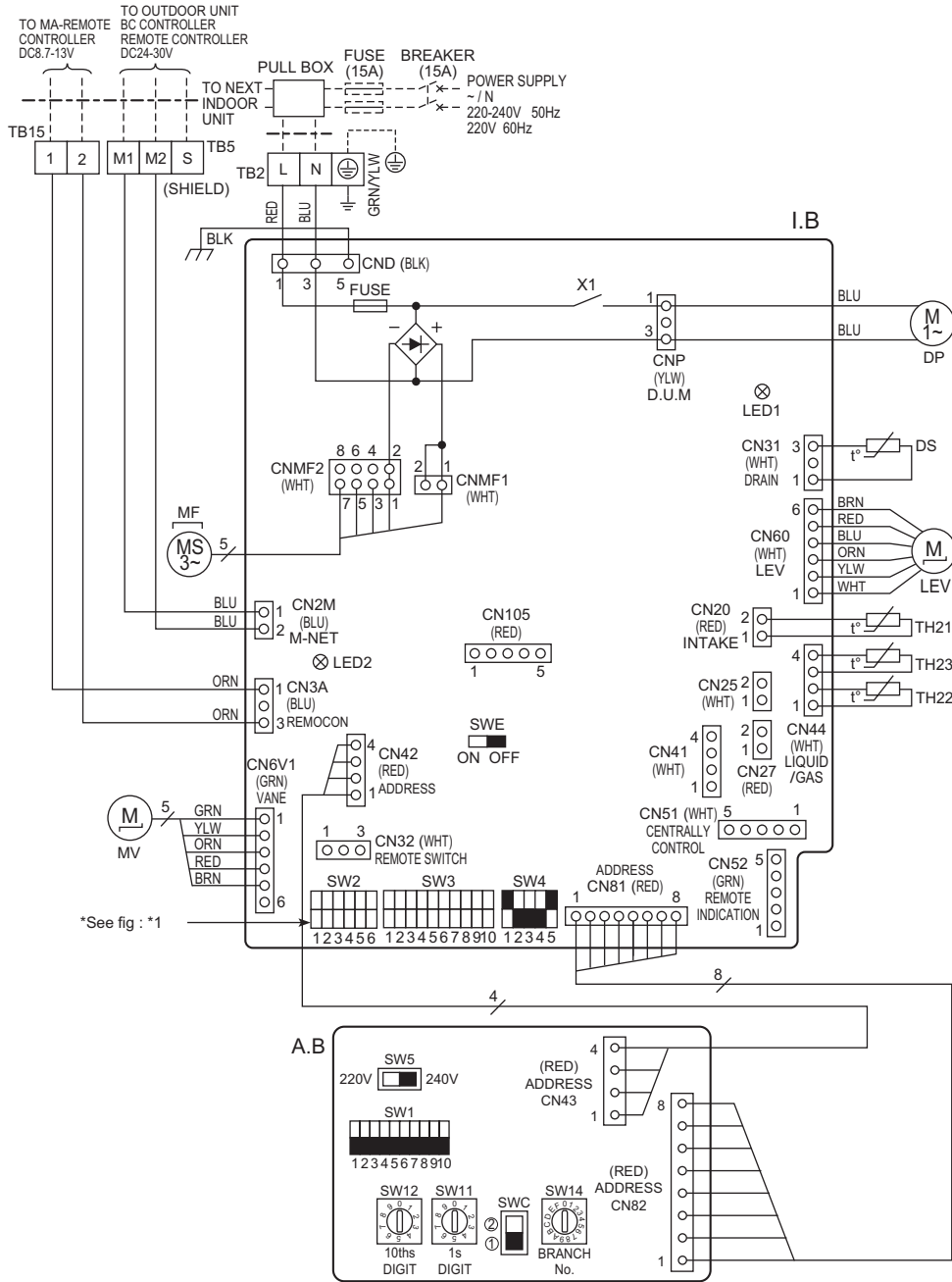
PMFY-P20, 25, 32, 40VBM-E



(mm)[in]

Model name	X	Y	Z
PMFY-P20VBM-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P25VBM-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P32VBM-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]
PMFY-P40VBM-E	165 [6-1/2]	390 [15-3/8]	130 [5-1/8]

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



[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	DS	DRAIN SENSOR
CN25	CONNECTOR HUMIDIFIER	TB2	TERMINAL POWER SUPPLY
CN27	DAMPER	TB5	BLOCK TRANSMISSION
CN32	REMOTE SWITCH	TB15	MA-REMOTE CONTROLLER
CN51	CENTRALLY CONTROL	TH21	THERMISTOR ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
CN52	REMOTE INDICATION	TH22	PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
CN105	IT TERMINAL	TH23	PIPE TEMP. DETECTION / GAS (0°C/15kΩ, 25°C/5.4kΩ)
SW2	SWITCH CAPACITY CORD	LEV	LINEAR EXPANSION VALVE DRAIN UP MACHINE (TEST MODE)
SW3	MODE SELECTION	FUSE	FUSE (T6.3AL 250V)
SW4	MODEL SELECTOR	X1	AUX.RELAY DRAIN PUMP
SWE	DRAIN UP MACHINE (TEST MODE)	LED1	POWER SUPPLY (I.B)
		LED2	POWER SUPPLY (I.B)
MF	FAN MOTOR	MF	FAN MOTOR
MV	VANE MOTOR	MV	VANE MOTOR
DP	DRAIN PUMP	DP	DRAIN PUMP
		A.B	CIRCUIT BOARD
		SW1	SWITCH MODE SELECTION
		SW5	VOLTAGE SELECTION
		SW11	ADDRESS SETTING 1s DIGIT
		SW12	ADDRESS SETTING 10ths DIGIT
		SW14	BRANCH No.

The black square (■) indicates a switch position. < \*1 >

MODELS	SW2	SW3
P20VBM	ON OFF [123456]	ON OFF [12345678910]
P25VBM	ON OFF [123456]	ON OFF [12345678910]
P32VBM	ON OFF [123456]	ON OFF [12345678910]
P40VBM	ON OFF [123456]	ON OFF [12345678910]

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 table below.
- 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.

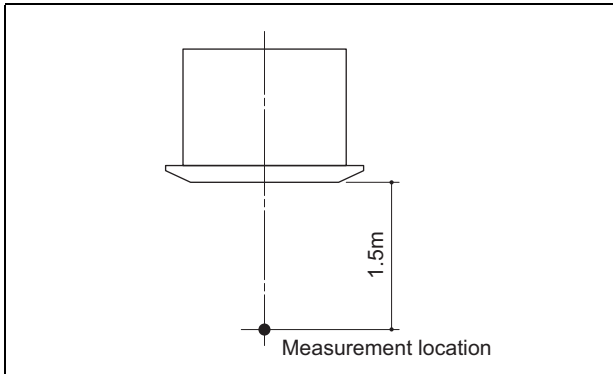
LED on indoor board for service

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

PMFY

## 5-1. Sound levels

PMFY-P-VBM-E



\* Measured in anechoic room

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

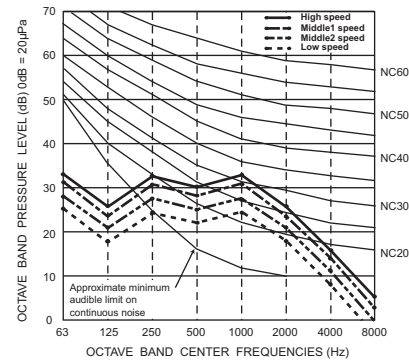
	Sound level dB (A)
PMFY-P20VBM-E	27-30-33-35
PMFY-P25VBM-E	32-34-36-37
PMFY-P32VBM-E	33-35-37-39

PMFY

## 5-2. NC curves

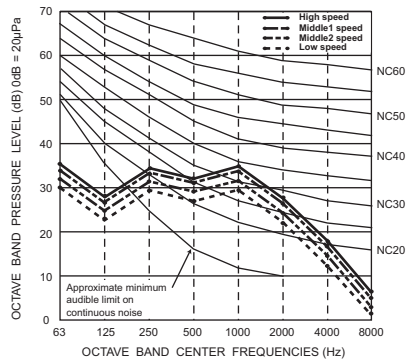
**PMFY-P20VBM-E**

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



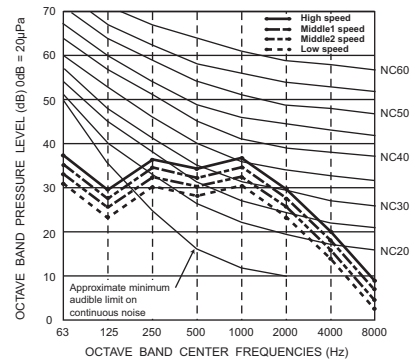
**PMFY-P25, 32VBM-E**

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



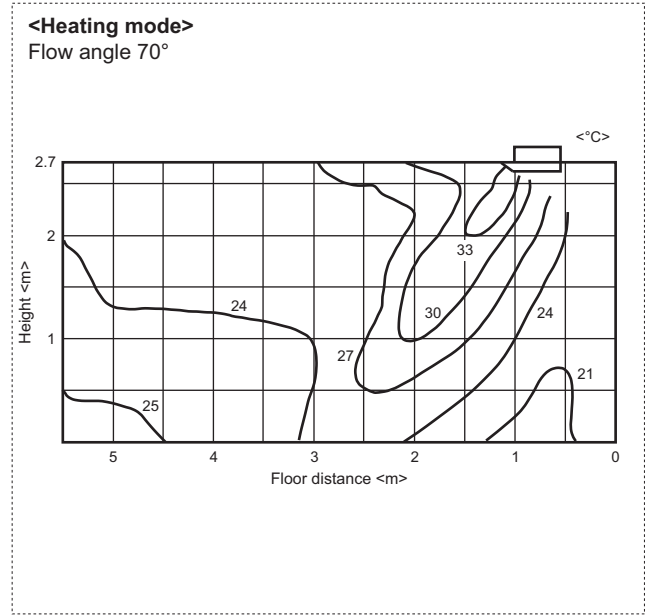
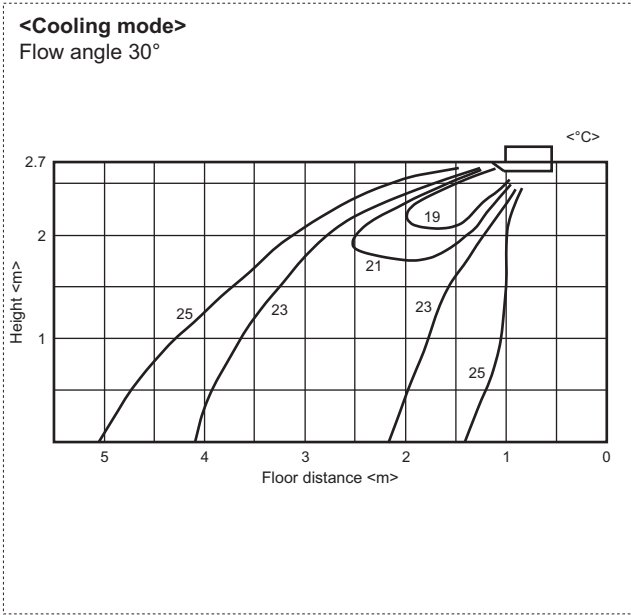
**PMFY-P40VBM-E**

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



6-1. Temperature distributions

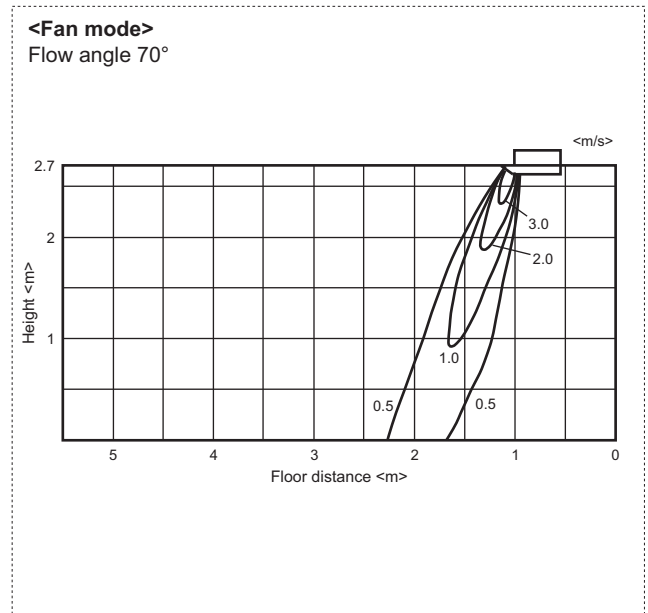
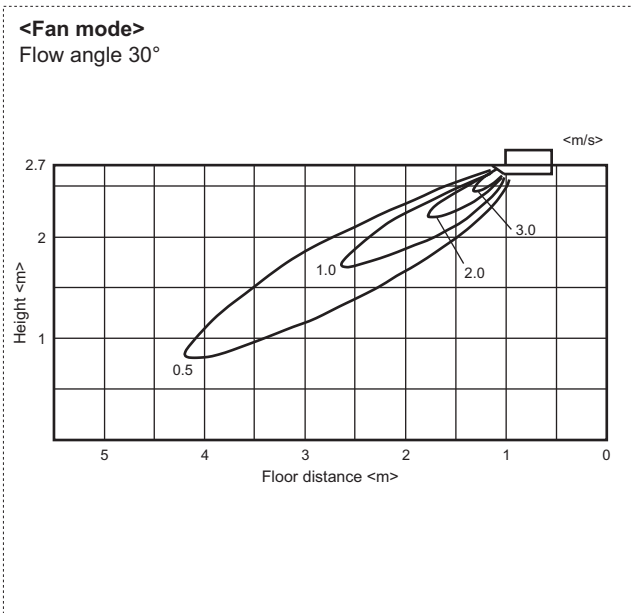
PMFY-P20-40VBM-E



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.

6-2. Airflow distributions

PMFY-P20-40VBM-EC



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**

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# 1. SPECIFICATIONS

EP-YKM

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																				
	*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																				
	*4	Power input	0.072 / 0.075		0.072 / 0.075		0.081 / 0.085																			
*4	Current input	A 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																				
	*3	kcal / h	2,200	2,800	3,400	4,300																				
	*3	BTU / h	8,500	10,900	13,600	17,100																				
	*4	Power input	0.065 / 0.069		0.065 / 0.069		0.074 / 0.079																			
	*4	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 (lbs)	23 (51)	23 (51)	24 (53)	24 (53)																				
Decoration panel	Model		<b>CMP-40VLW-C</b>	<b>CMP-40VLW-C</b>	<b>CMP-40VLW-C</b>	<b>CMP-40VLW-C</b>																				
	External finish		ABS, MUNSELL (6.4Y 8.9/0.4), include Service Panel : Galvanized, MUNSELL (6.4Y 8.9/0.4)																							
	Dimension		20 x 1,080 x 710																							
	H x W x D		in. 13/16 x 30-9/16 x 28																							
	Net weight		kg (lbs) 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 <sub>2</sub> 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)																			
	Driving mechanism		Direct-driven by motor																							
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / 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																					
Sound pressure 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 CITY MULTI																							
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare																				
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare																				
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)																							
Drawing	External		IU-W275-920																							
	Wiring		IU-W653-952																							
	Refrigerant cycle		-																							
Standard attachment	Document		Installation Manual, Instruction Book																							
	Accessory		Drain hose I.D. 32mm (1-1/4) (flexible joint)																							
Remark	Optional parts																									
	Decoration panel		CMP-40VLW-C	CMP-40VLW-C	CMP-40VLW-C	CMP-40VLW-C																				
	OA duct flange		PAC-KH110F	PAC-KH110F	PAC-KH110F	PAC-KH110F																				
Installation		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 :</p> <table border="0"> <tr> <td>*1 Nominal cooling conditions</td> <td>*2 Nominal cooling conditions</td> <td>*3 Nominal heating conditions</td> <td>Unit converter</td> </tr> <tr> <td>Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)</td> <td>27°CDB/19.5°CWB (81°FDB/67°FWB)</td> <td>20°CDB (68°FDB)</td> <td>kcal/h = kW x 860</td> </tr> <tr> <td>Outdoor : 35°CDB (95°FDB)</td> <td>35°CDB (95°FDB)</td> <td>7°CDB/6°CWB (45°FDB/43°FWB)</td> <td>BTU/h = kW x 3,412</td> </tr> <tr> <td>Pipe length : 7.5 m (24-9/16 ft)</td> <td>5 m (16-3/8 ft)</td> <td>7.5 m (24-9/16 ft)</td> <td>cfm = m<sup>3</sup>/min x 35.31</td> </tr> <tr> <td>Level difference : 0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>lbs = kg / 0.4536</td> </tr> </table> <p>* Nominal conditions *1, *3 are subject to JIS B8815-1.          * Due to continuing improvement, above specification may be subject to change without notice.          *4 The values are measured at the factory setting of external static pressure.</p>							*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 <sup>3</sup> /min x 35.31	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536
*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 <sup>3</sup> /min x 35.31																							
Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536																							

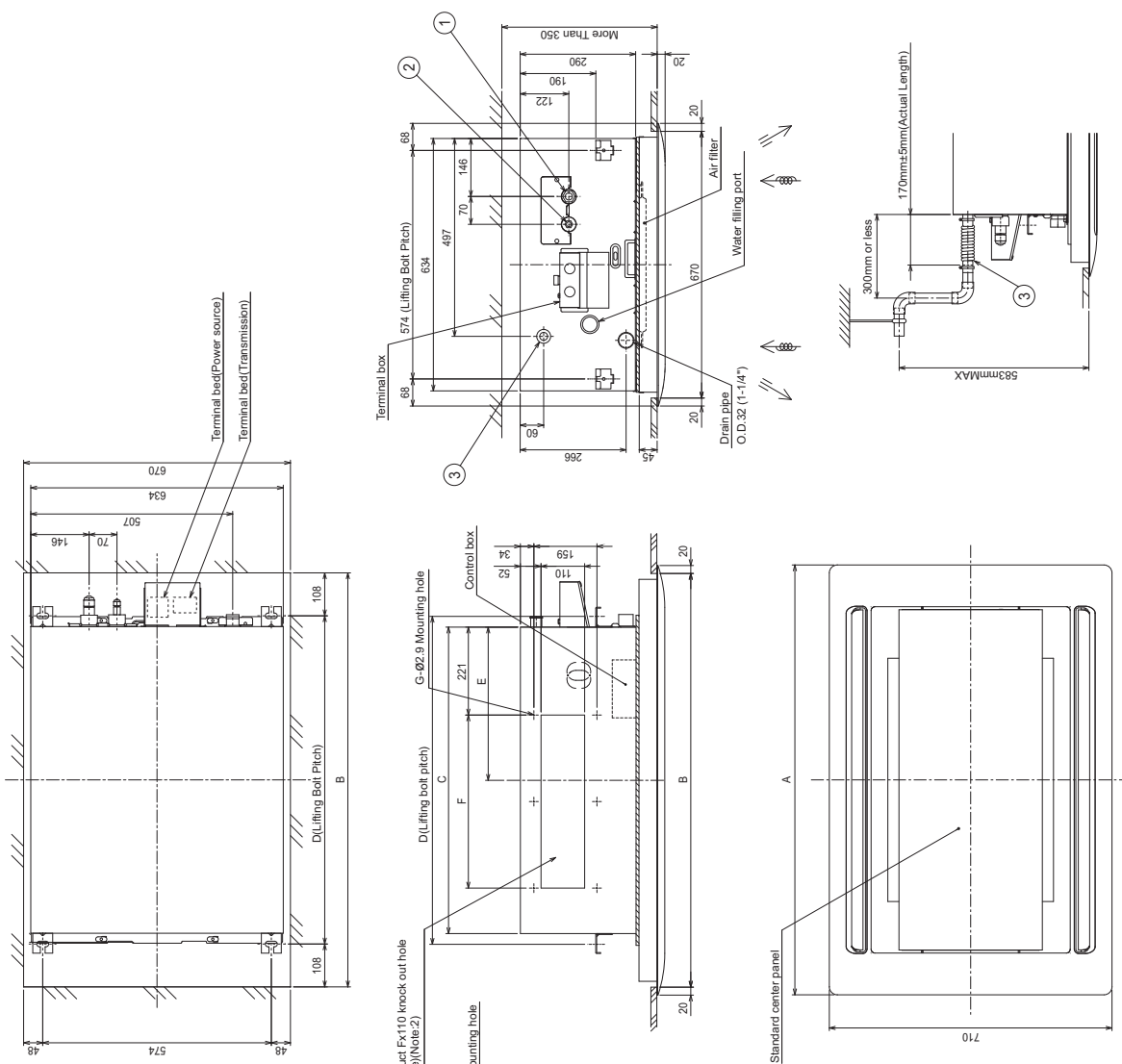
PLFY

# 1. SPECIFICATIONS

Model		PLFY-P50VLM-D-E	PLFY-P63VLM-D-E	PLFY-P80VLM-D-E	PLFY-P100VLM-D-E	PLFY-P125VLM-D-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	
	*1	kcal / h	4,800	6,100	7,700	9,600	12,000	
	*1	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	
	*4	Power input	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28
*4	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	
	*3	kcal / h	5,400	6,900	8,600	10,800	13,800	
	*3	BTU / h	21,500	27,300	34,100	42,700	54,600	
	*4	Power input	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27
	*4	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 (lbs)	27 (60)	28 (62)	44 (98)	47 (104)	56 (124)	
Decoration panel	Model		CMP-63VLW-C	CMP-63VLW-C	CMP-100VLW-C	CMP-100VLW-C	CMP-125VLW-C	
	External finish	ABS, MUNSELL (6.4Y 8.9/0.4), include Service Panel : Galvanized, MUNSELL (6.4Y 8.9/0.4)						
	Dimension	mm	20 x 1,250 x 710		20 x 1,750 x 710		20 x 2,010 x 710	
	H x W x D	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 (lbs)	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	
		mmH <sub>2</sub> O	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 <sup>3</sup> / 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	
Sound pressure level (Low-Mid-High) (measured in anechoic room)	*4	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)					Synthetic fiber unwoven cloth filter (long life)	
Protection device		Fuse						
Refrigerant control device		LEV						
Connectable outdoor unit		R410A CITY MULTI						
Diameter of refrigerant pipe	Liquid (R410A)	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	
	Gas (R410A)	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	
Field drain pipe size		mm (in.)	O.D. 32mm (1-1/4)					
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 I.D. 32mm (1-1/4) (flexible joint)						
Remark	Optional parts							
	Decoration panel		CMP-63VLW-C	CMP-63VLW-C	CMP-100VLW-C	CMP-100VLW-C	CMP-125VLW-C	
	OA duct flange		PAC-KH110F	PAC-KH110F	PAC-KH110F	PAC-KH110F	PAC-KH110F	
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 <sup>3</sup> /min x 35.31			
		Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = 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.						
		*4 The values are measured at the factory setting of external static pressure.						

## PLFY-P20, 25, 32, 40, 50, 63, 80, 100VLM-D-E

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.

Model	Gas pipe	①
20-25-32-40	Liquid pipe	②
Model	Gas pipe	①
50	Liquid pipe	②
Model	Gas pipe	①
63-80	Liquid pipe	②
Model	Gas pipe	①
100	Liquid pipe	②
Drain hose	I.D. 32 (1-1/4") <(flexible joint)>	③

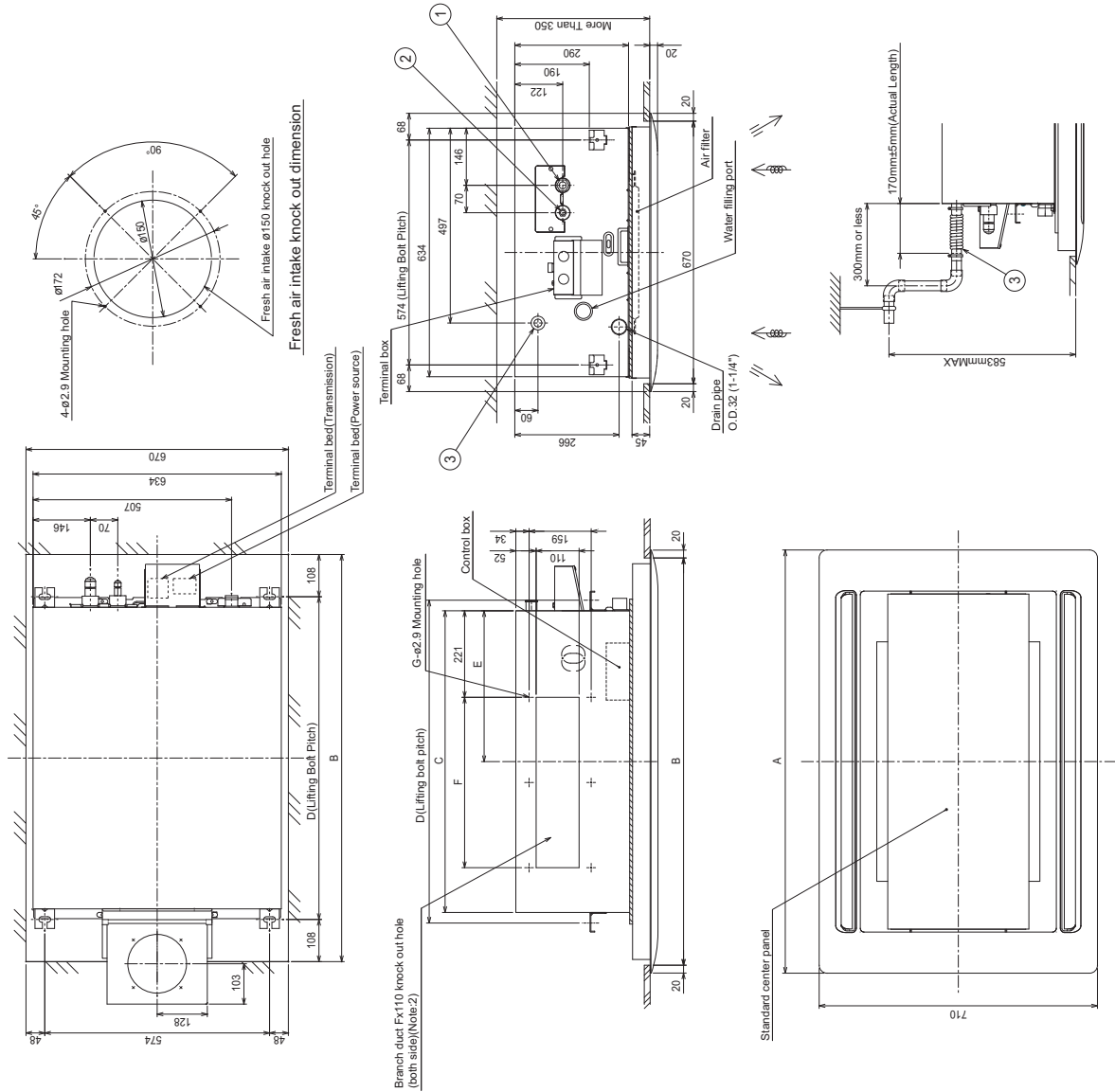
Model	A	B	C	D	E	F	G	H	L(Liquid)	H(Gas)
PLFY-P20VLM-D-E	1080	1040	776	824	388	217.5x2	6	17	27	
PLFY-P25VLM-D-E						=435				
PLFY-P32VLM-D-E										
PLFY-P40VLM-D-E										
PLFY-P50VLM-D-E	1250	1210	946	994	473			22	29	
PLFY-P63VLM-D-E										
PLFY-P80VLM-D-E										
PLFY-P100VLM-D-E	1750	1710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

## 2. EXTERNAL DIMENSIONS

EP-YKM

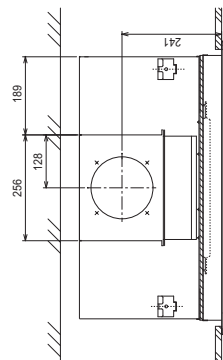
### PLFY-P20, 25, 32, 40, 50, 63, 80, 100VLM-D-E with OA duct flange

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.

Model	<flare>	①	②	③
20-25-32-40	Gas pipe Liquid pipe	φ12.7 φ6.35	.....	.....
50	Gas pipe Liquid pipe	φ12.7 φ6.35	.....	.....
63-80	Gas pipe Liquid pipe	φ15.88 φ9.52	.....	.....
100	Gas pipe Liquid pipe	φ15.88 φ9.52	.....	.....
Drain hose	I.D. 32 (1-1/4") <flexible joint> (accessory)	.....	.....	③



Model	A	B	C	D	E	F	G
PLFY-P20VLM-D-E	1080	1040	776	824	388	217.5x2	6
PLFY-P25VLM-D-E	1080	1040	776	824	388	≈435	6
PLFY-P32VLM-D-E	1250	1210	946	994	473		
PLFY-P40VLM-D-E	1250	1210	946	994	473		
PLFY-P60VLM-D-E	1750	1710	1446	1494	723	188.5x4	10
PLFY-P80VLM-D-E	1750	1710	1446	1494	723	≈754	10
PLFY-P100VLM-D-E	1750	1710	1446	1494	723		

PLFY

# 2. EXTERNAL DIMENSIONS

EP-YKM

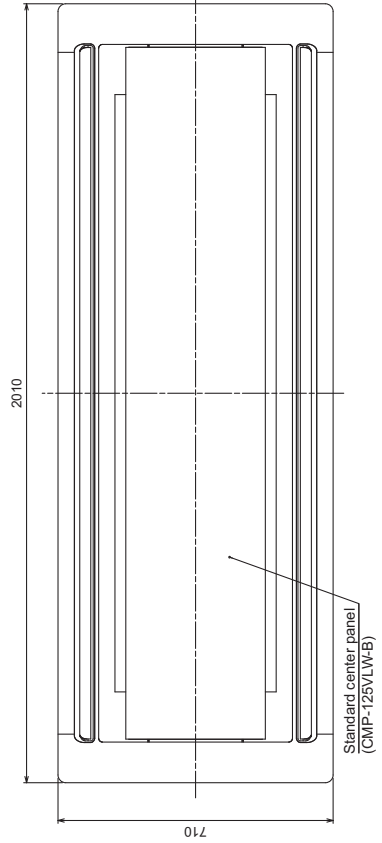
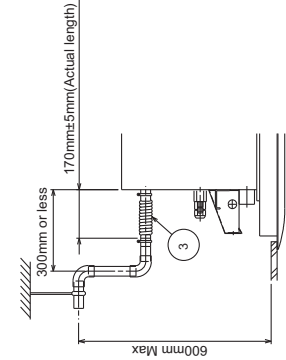
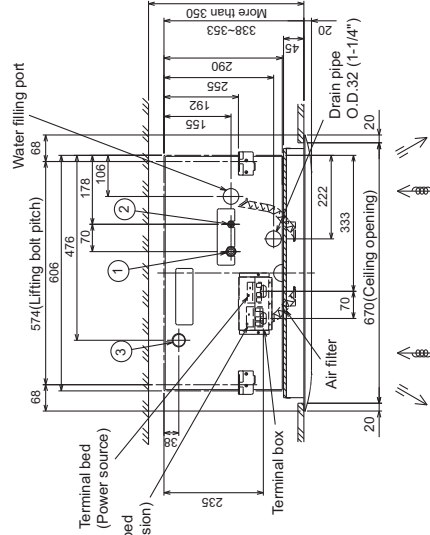
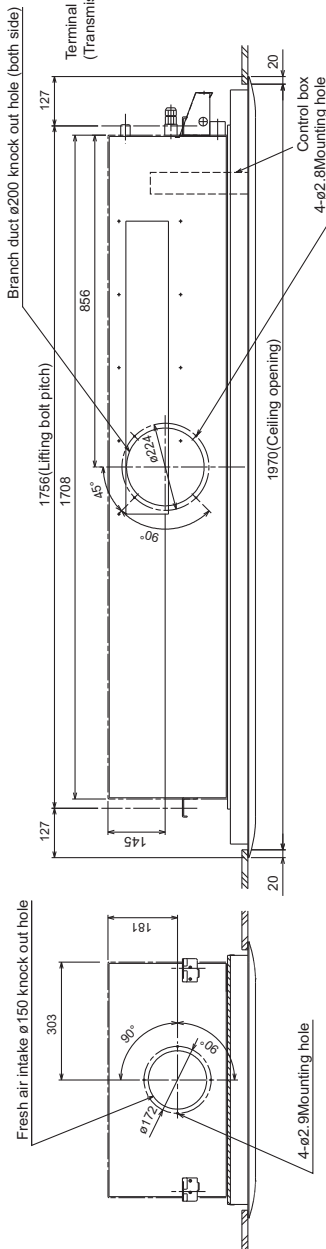
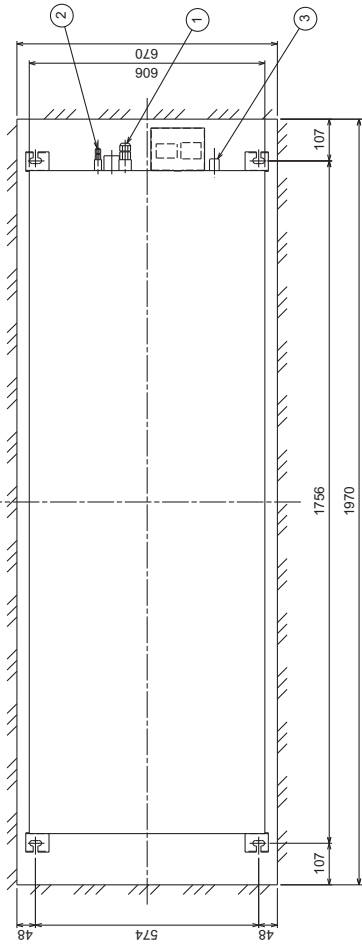
PLFY-P125VLMD-E

Unit : mm

Note: 1 Use M10 screw for the lifting bolt (field supply).

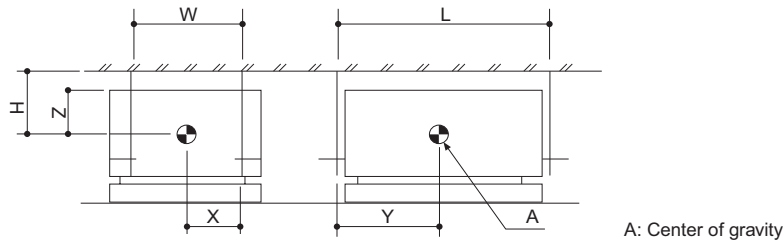
- Gas pipe ..... ①
- Liquid pipe ..... ②
- Drain hose I.D. 32 (1-1/4") <flexible joint> (accessory) ..... ③

<flare>



PLFY

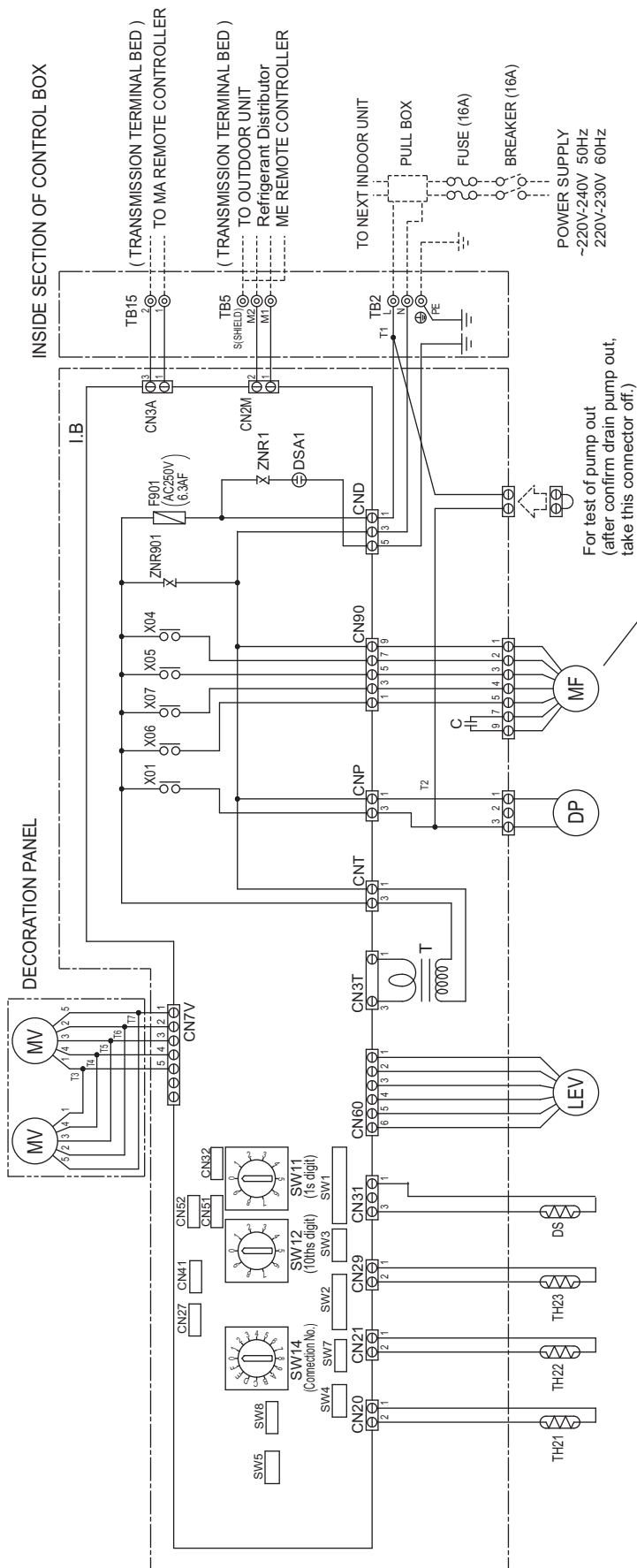
PLFY-P20, 25, 32, 40, 50, 63, 80, 100, 125VLMD-E



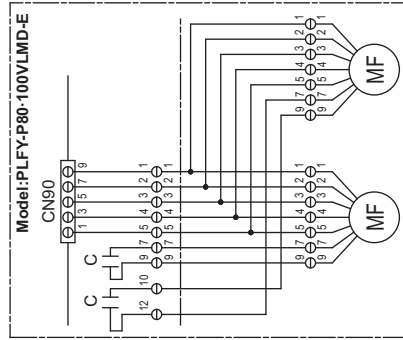
Model name	(mm)[in]					
	W	L	H	X	Y	Z
PLFY-P20VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P25VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P32VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P40VLMD-E	574 [22-5/8]	824 [32-15/32]	172 [6-25/32]	287 [11-5/16]	370 [14-19/32]	160 [6-5/16]
PLFY-P50VLMD-E	574 [22-5/8]	994 [32-5/32]	172 [6-25/32]	287 [11-5/16]	445 [17-17/32]	160 [6-5/16]
PLFY-P63VLMD-E	574 [22-5/8]	994 [32-5/32]	172 [6-25/32]	287 [11-5/16]	445 [17-17/32]	160 [6-5/16]
PLFY-P80VLMD-E	574 [22-5/8]	1494 [58-27/32]	172 [6-25/32]	287 [11-5/16]	655 [25-13/16]	160 [6-5/16]
PLFY-P100VLMD-E	574 [22-5/8]	1494 [58-27/32]	172 [6-25/32]	287 [11-5/16]	655 [25-13/16]	160 [6-5/16]
PLFY-P125VLMD-E	574 [22-5/8]	1756 [69-5/32]	203 [8]	287 [11-5/16]	758 [29-27/32]	181 [7-5/32]



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

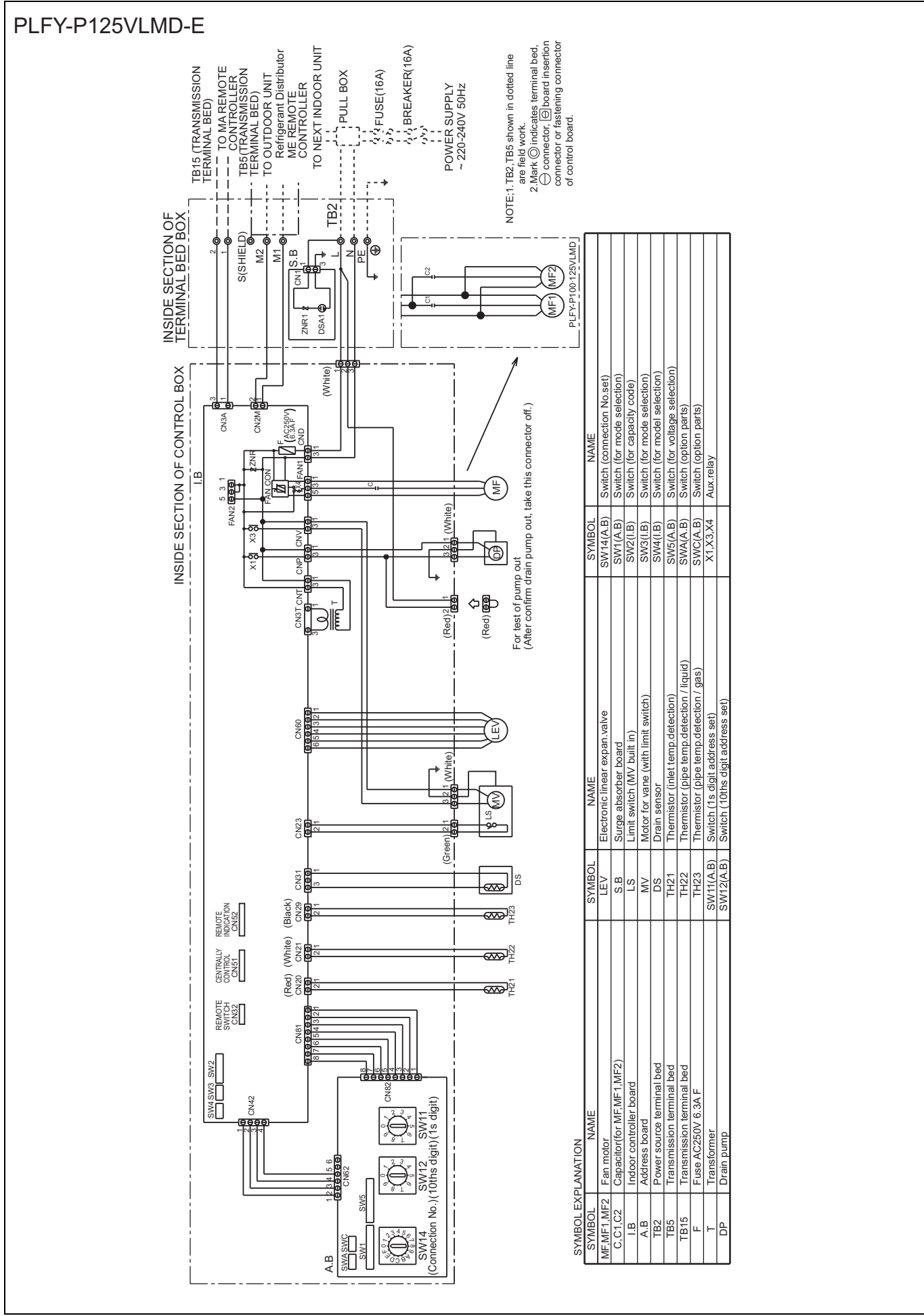


NOTE : 1. TB2, TB5, and TB15 shown in dotted line are field work.  
 2. Mark ⊕ indicates terminal bed, ⊖ connector, ⊕ board insertion connector of fastening connector of control board.



SYMBOL EXPLANATION

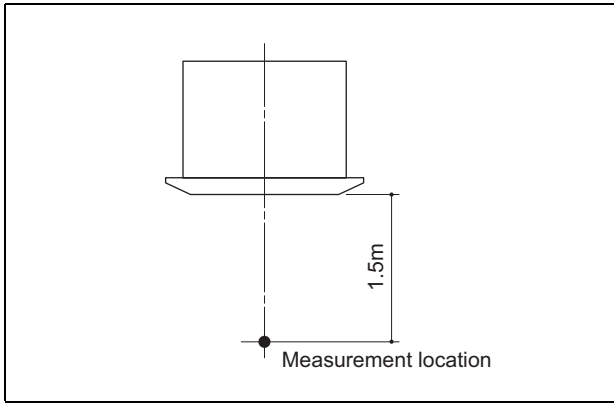
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	CN27	Connector (Damper)	SW11	Switch (1s digit address set)
C	Capacitor (for MF)	CN32	Connector (Centrally control)	SW12	Switch (10ths digit address set)
I.B	Indoor controller board	CN41	Connector (HA terminal-A)	SW14	Switch (connection No. set)
TB2	Power source terminal bed	CN51	Connector (Centrally control)	SW1	Switch (for mode selection 1)
TB5	Transmission terminal bed	CN52	Connector (Remote indication)	SW2	Switch (for capacity code)
TB15	MA Remote controller terminal bed	X01	Aux. relay (Drain pump)	SW3	Switch (for mode selection 2)
F901	Fuse (6.3A/6A)	X04	Aux. relay (L notch: 240V)	SW4	Switch (for mode selection)
ZNR1, ZNR901	Varistor	X05	Aux. relay (MIL notch: 240V/220-230V)	SW5	Switch (for voltage selection)
T	Transformer	X06	Aux. relay (H notch: 220-230V)	SW7	Switch (for model selection)
DP	Drain pump	X07	Aux. relay (HMI notch: 240V/220-230V)	SW8	Switch (for mode selection 3)
LEV	Electronic linear expansion valve	TH21	Thermistor (inlet temp. detection)	T1-T7	Terminal
DS	Drain sensor	TH22	Thermistor (pipe temp. detection/liquid)		
MV	Motor for vane	TH23	Thermistor (pipe temp. detection/gas)		



PLFY

5-1. Sound levels

PLFY-P-VLMD-E



\* Measured in anechoic room

Sound level at anechoic room : Low-Mid-High

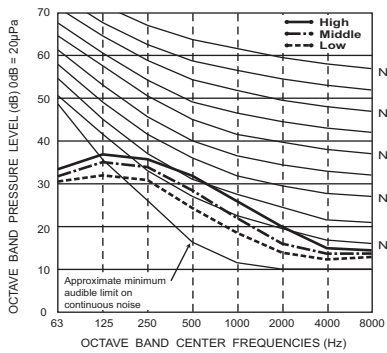
	Sound level dB (A)	
	220,240V	230V
PLFY-P20VLMD-E		
PLFY-P25VLMD-E	27-30-33	28-31-34
PLFY-P32VLMD-E		
PLFY-P40VLMD-E	29-33-36	30-34-37
PLFY-P50VLMD-E	31-34-37	32-35-38
PLFY-P63VLMD-E	32-37-39	33-38-40
PLFY-P80VLMD-E	33-36-39	34-37-40
PLFY-P100VLMD-E	36-39-42	37-41-43
PLFY-P125VLMD-E	40-42-44-46	

PLFY

5-2. NC curves

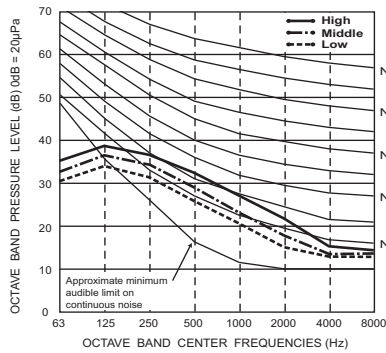
PLFY-P20,25VLMD-E

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



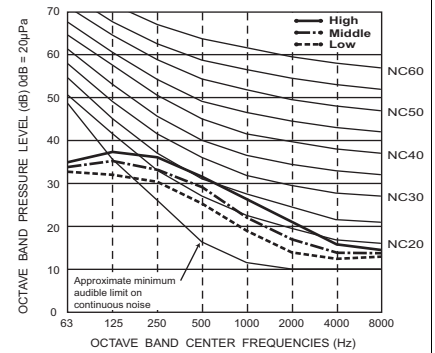
PLFY-P20,25VLMD-E

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



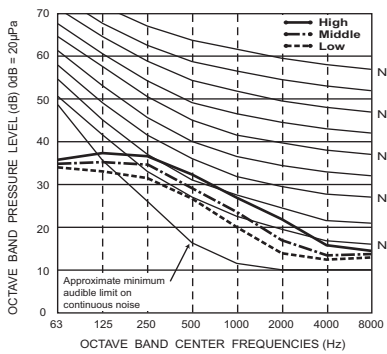
PLFY-P32VLMD-E

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



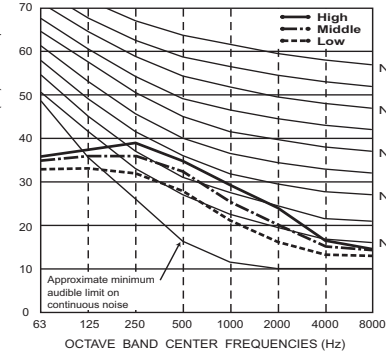
PLFY-P32VLMD-E

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



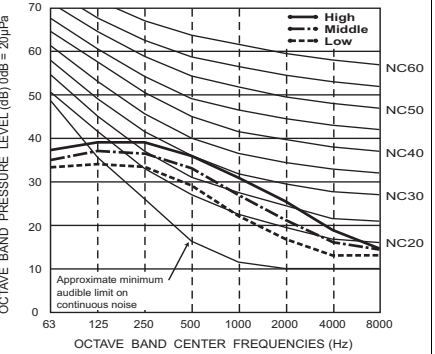
PLFY-P40VLMD-E

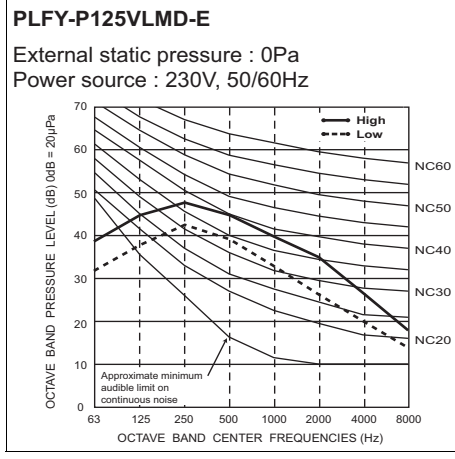
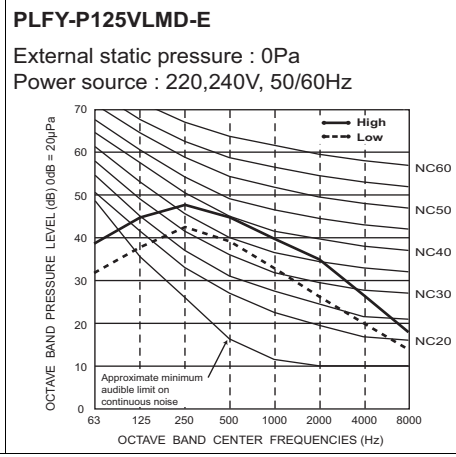
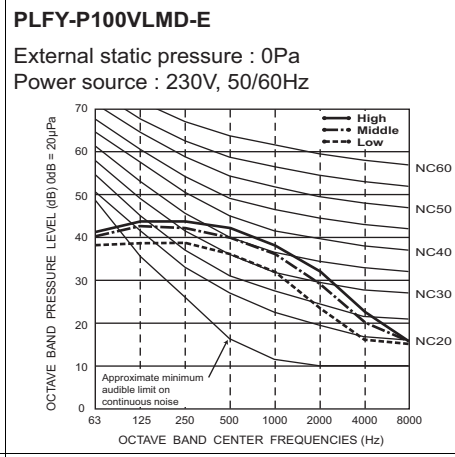
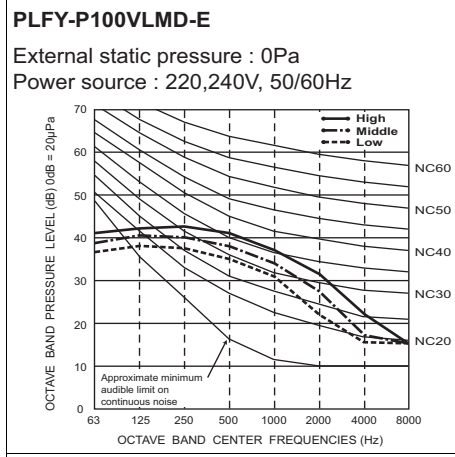
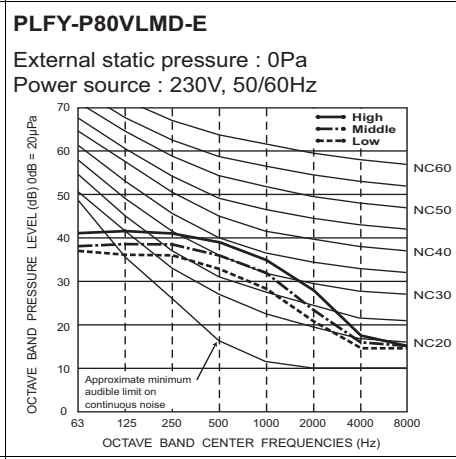
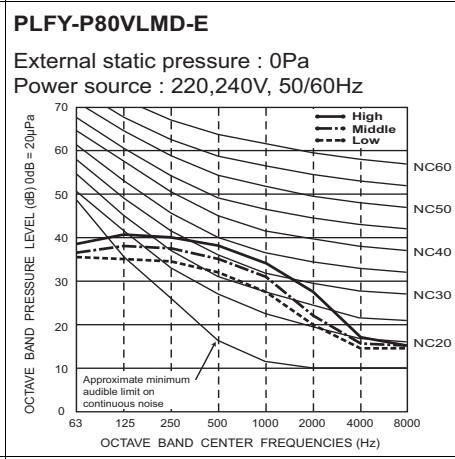
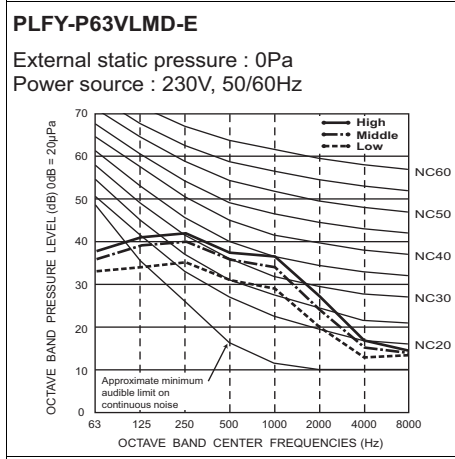
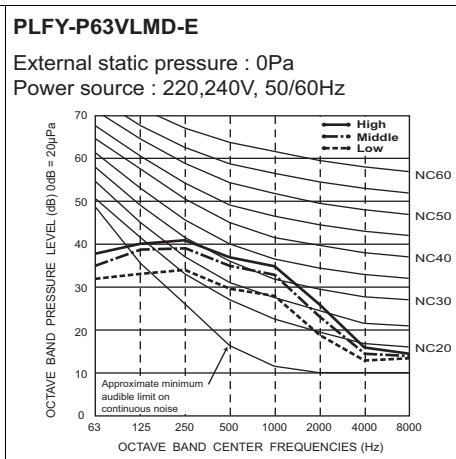
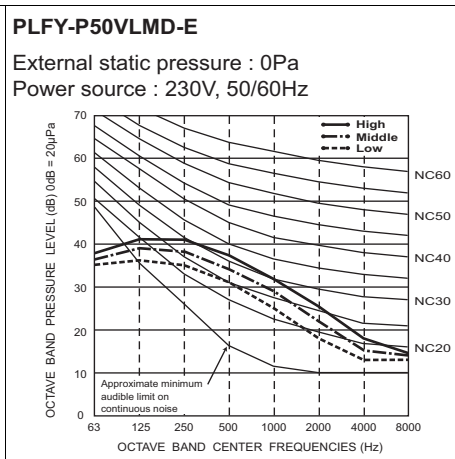
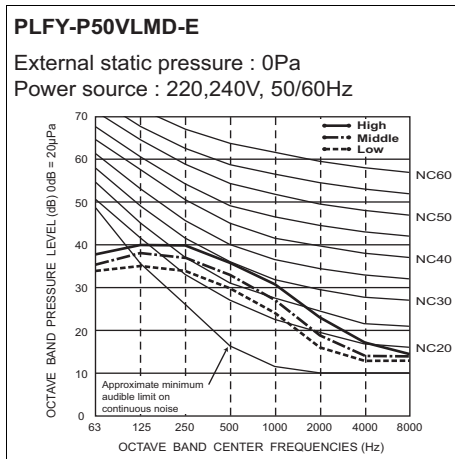
External static pressure : 0Pa  
Power source : 220,240V, 50/60Hz



PLFY-P40VLMD-E

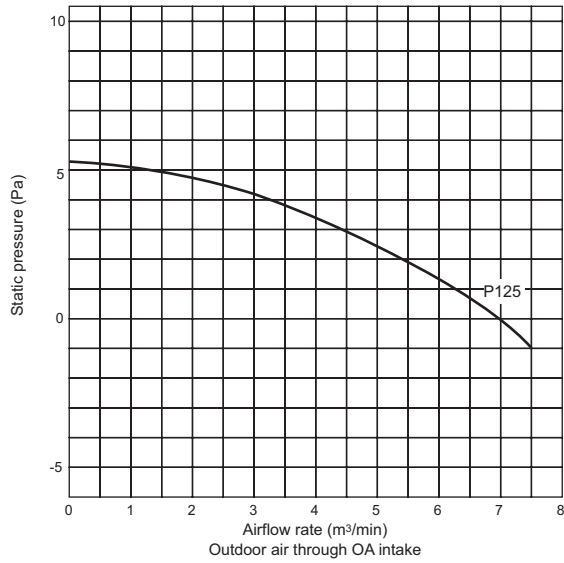
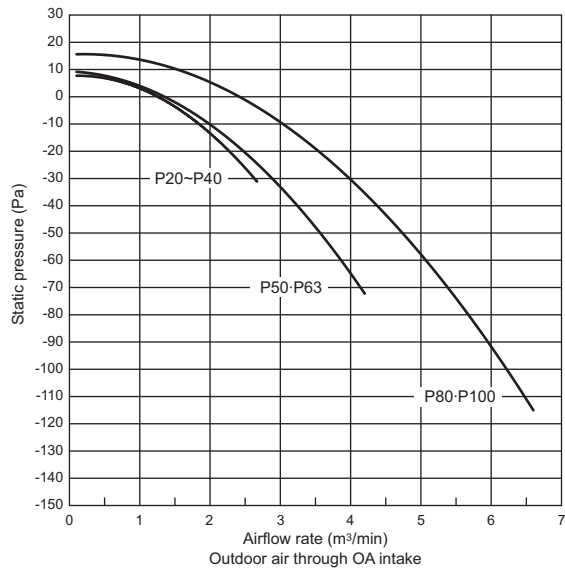
External static pressure : 0Pa  
Power source : 230V, 50/60Hz





## 6. OA INTAKE-STATIC PRESSURE CURVES

EP-YKM



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

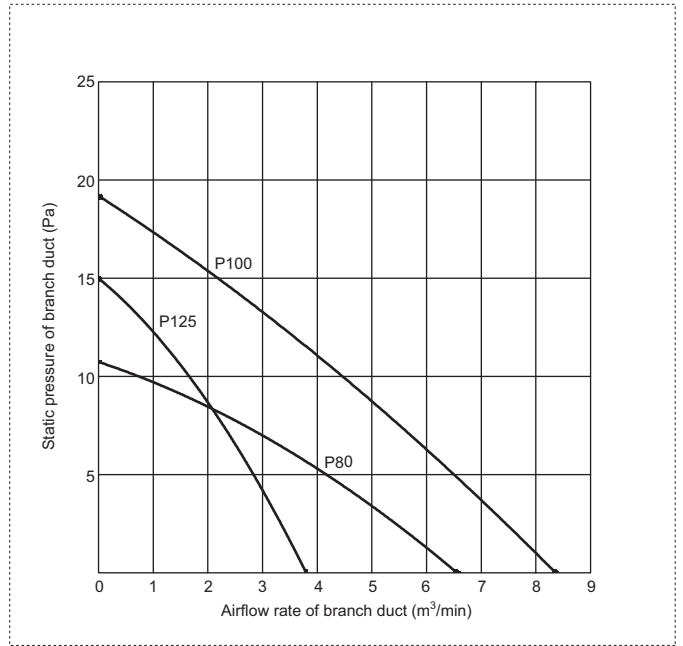
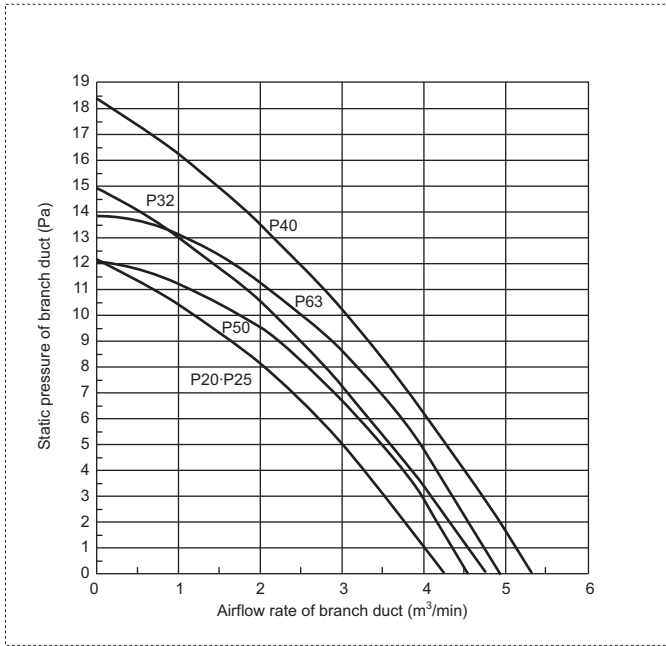
PLFY-P-VLMD-E : Operating temperature range

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%.

PLFY

# 7. BRANCH DUCT INTAKE-STATIC PRESSURE CURVES



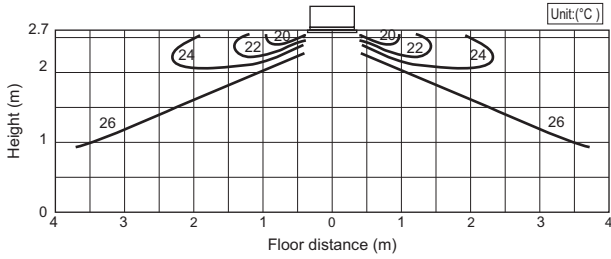
PLFY

## 8-1. Temperature distributions

PLFY-P20-125VLM-D-E

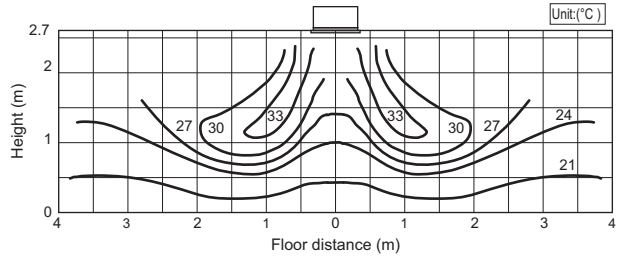
### <Cooling mode>

Airflow angle : Horizontal  
 Room temp.: 27°C  
 Airflow rate : High



### <Heating mode>

Airflow angle : Downward  
 Room temp.: 20°C  
 Airflow rate : High



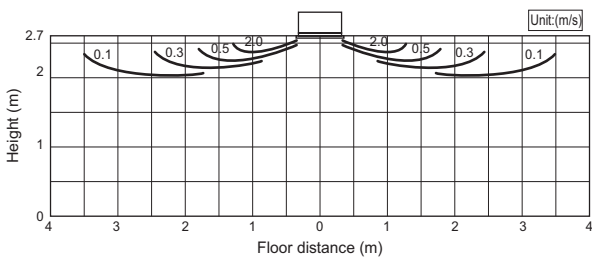
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

## 8-2. Airflow distributions

PLFY-P20-125VLM-D-E

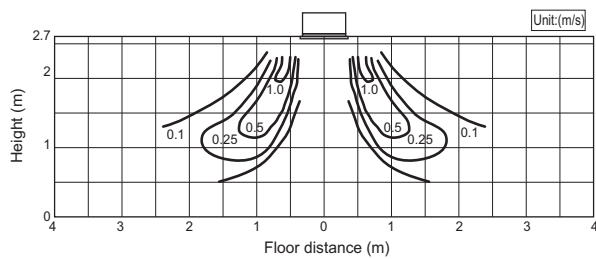
### <Cooling mode>

Airflow angle : Horizontal  
 Room temp.: 27°C  
 Airflow rate : High



### <Heating mode>

Airflow angle : Downward  
 Room temp.: 20°C  
 Airflow rate : High

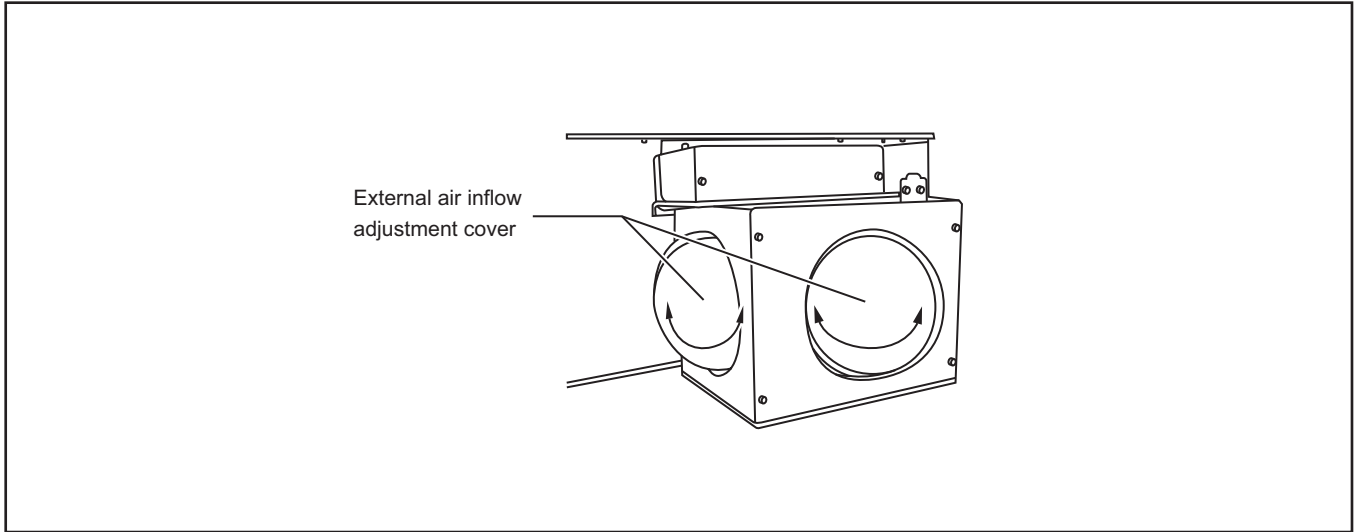


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

9-1. Optional parts line up for the Indoor unit

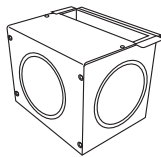
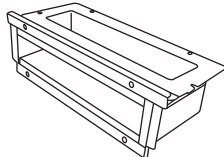

	OA duct flange
PLFY-P-VLMD-E	PAC-KH110F

PLFY-P-VLMD-E



9-2. OA duct flange

OA duct flange PAC-KH110F makes outside fresh air ducting to the Indoor unit easier.  
 Material: Galvanized steel plate, with insulation sheet adhered.

Item	① External air intake ducting	② Ducting flange	③ PTT screws (4x10)
Quantity	1	1	10 (two spares)
Shape			

Detailed installation information should be referred to its Installation Manual (WT03833X07)





**PLFY-P-VCM-E2, PLYF-P-VBM-E**

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7-6. Automatic filter elevation panel.....	1 - 144
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7-8. Space panel.....	1 - 145
7-9. Duct flange for fresh air intake .....	1 - 145

# 1. SPECIFICATIONS

EP-YKM

Model			PLFY-P15VCM-E2	PLFY-P20VCM-E2	PLFY-P25VCM-E2				
Power source			1-phase 220-230-240V 50Hz						
Cooling capacity (Nominal)	*1	kW	1.7	2.2	2.8				
		kcal / h	1,450	1,900	2,400				
		BTU / h	5,800	7,500	9,600				
	*2	kcal / h	1,500	2,000	2,500				
		*4	Power input kW	0.04	0.05	0.05			
*4	Current input A	0.19	0.23	0.23					
Heating capacity (Nominal )	*3	kW	1.9	2.5	3.2				
		kcal / h	1,600	2,200	2,800				
		BTU / h	6,500	8,500	10,900				
	*4	Power input kW	0.04	0.05	0.05				
		Current input A	0.19	0.23	0.23				
External finish			Galvanized sheets 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				
		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				
Net weight		kg (lbs)	15.5 (35)	15.5 (35)	15.5 (35)				
Decoration panel	Model		SLP-2AAW/SLP-2ALW	SLP-2AAW/SLP-2ALW	SLP-2AAW/SLP-2ALW				
	External finish		White Munsell (6.4Y 8.9/0.4)						
	Dimension		20 x 650 x 650	20 x 650 x 650	20 x 650 x 650				
	H x W x D		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		3 (7)	3 (7)	3 (7)				
	Cord heater		kW	0.015	0.015	0.015			
Heat exchanger			Cross fin (Aluminum fin and copper tube)						
FAN	Type x Quantity		Turbo fan x 1						
	External static press.		0Pa (0mmHzO)	0Pa (0mmHzO)	0Pa (0mmHzO)				
	Motor type		1-phase induction motor						
	Motor output	kW	0.008	0.011	0.015				
	Driving mechanism		Direct-driven by motor						
	Airflow rate			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)			
m <sup>3</sup> / min			8-8.5-9	8-9-10	8-9-10				
L / s			133-142-150	133-150-167	133-150-167				
	cfm		283-300-353	283-318-353	283-318-353				
Sound pressure level (measured in anechoic room)		*4	(Low-Mid-High) 28-30-31	(Low-Mid-High) 28-31-35	(Low-Mid-High) 28-31-37				
Insulation material			Polyethylene foam						
Air filter			PP honeycomb fabric (long life type)						
Protection device			Fuse						
Refrigerant control device			LEV						
Connectable outdoor unit			R410A CITY MULTI						
Diameter of refrigerant pipe	Liquid	mm (in.)	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				
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)						
Drawing	External		IU-VRG01N654						
	Wiring		IU-VBH79B040						
	Refrigerant circle		-						
Standard attachment	Document		Installation manual, Instruction book						
	Accessory		Drain hose I.D. 32mm (1-1/4), Wireless junction cable						
Remark	Optional parts		SLP-2AAW/SLP-2ALW						
	Decoration panel		*PLFY-P-VCM-E2 should use together with Decoration panel.						
Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.							
<b>Note :</b> <table border="0" style="width:100%; border:none;"> <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:33%; vertical-align:top;"> Unit converter  kcal = kW x 860  BTU/h = kW x 3,412  cfm = m<sup>3</sup>/min x 35.31  lbs = 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 <sup>3</sup> /min x 35.31 lbs = 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 <sup>3</sup> /min x 35.31 lbs = 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. *4 The values are measured at the rated external static pressure. *Above specification data is subject to rounding variation.									

PLFY-VCM/VBM

# 1. SPECIFICATIONS

EP-YKM

Model			PLFY-P32VCM-E2	PLFY-P40VCM-E2																															
Power source			1-phase 220-230-240V 50Hz																																
Cooling capacity (Nominal)	*1	kW	3.6	4.5																															
	*1	kcal / h	3,100	3,900																															
	*1	BTU / h	12,300	15,400																															
	*2	kcal / h	3,150	4,000																															
	*4	Power input	kW	0.06	0.06																														
	*4	Current input	A	0.28	0.28																														
Heating capacity (Nominal )	*3	kW	4.0	5.0																															
	*3	kcal / h	3,400	4,300																															
	*3	BTU / h	13,600	17,100																															
	*4	Power input	kW	0.06	0.06																														
	*4	Current input	A	0.28	0.28																														
External finish			Galvanized sheets with grey heat insulation																																
External dimension H x W x D		mm	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																															
Net weight		kg (lbs)	17 (38)	17 (38)																															
Decoration panel	Model		SLP-2AAW/SLP-2ALW	SLP-2AAW/SLP-2ALW																															
	External finish		White Munsell (6.4Y 8.9/0.4)																																
	Dimension	mm	20 x 650 x 650	20 x 650 x 650																															
		in.	13/16 x 25-5/8 x 25-5/8	13/16 x 25-5/8 x 25-5/8																															
	Net Weight		kg (lbs)	3 (7)	3 (7)																														
	Cord heater		kW	0.015	0.015																														
Heat exchanger			Cross fin (Aluminum fin and copper tube)																																
FAN	Type x Quantity		Turbo fan x 1																																
	External static press.		0Pa (0mmH <sub>2</sub> O)	0Pa (0mmH <sub>2</sub> O)																															
	Motor type		1-phase induction motor																																
	Motor output	kW	0.02	0.02																															
	Driving mechanism		Direct-driven by motor																																
	Airflow rate		(Low-Mid-High)		(Low-Mid-High)																														
			m <sup>3</sup> / min	8-9-11	8-9-11																														
L / s			133-150-183	133-150-183																															
		cfm	283-318-388	283-318-388																															
Sound pressure level (measured in anechoic room)		*4	(Low-Mid-High) 29-33-38	(Low-Mid-High) 30-34-39																															
Insulation material			Polyethylene foam																																
Air filter			PP honeycomb fabric (long life type)																																
Protection device			Fuse																																
Refrigerant control device			LEV																																
Connectable outdoor unit			R410A CITY MULTI																																
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare																															
	Gas	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare																															
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)																																
Drawing	External		IU-VRG01N654																																
	Wiring		IU-VBH79B040																																
	Refrigerant circle		-																																
Standard attachment	Document		Installation manual, Instruction book																																
	Accessory		Drain hose I.D. 32mm (1-1/4), Wireless junction cable																																
Remark	Optional parts		SLP-2AAW/SLP-2ALW																																
	Decoration panel		*PLFY-P-VCM-E2 should use together with Decoration panel.																																
Installation			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.																																
<p><b>Note :</b></p> <table border="0"> <tr> <td>*1 Nominal cooling condition</td> <td>*2 Nominal cooling condition</td> <td>*3 Nominal heating condition</td> <td colspan="3">Unit converter</td> </tr> <tr> <td>Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)</td> <td>27°CDB/19.5°CWB (81°FDB/67°FWB)</td> <td>20°CDB (68°FDB)</td> <td>kcal</td> <td colspan="2">= kW x 860</td> </tr> <tr> <td>Outdoor : 35°CDB (95°FDB)</td> <td>35°CDB (95°FDB)</td> <td>7°CDB/6°CWB (45°FDB/43°FWB)</td> <td>BTU/h</td> <td colspan="2">= kW x 3,412</td> </tr> <tr> <td>Pipe length : 7.5 m (24-9/16 ft)</td> <td>5 m (16-3/8 ft)</td> <td>7.5 m (24-9/16 ft)</td> <td>cfm</td> <td colspan="2">= m<sup>3</sup>/min x 35.31</td> </tr> <tr> <td>Level difference : 0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>lbs</td> <td colspan="2">= kg / 0.4536</td> </tr> </table> <p>* Nominal conditions *1, *3 are subject to JIS B8615-1.          * Due to continuing improvement, above specification may be subject to change without notice.          *4 The values are measured at the rated external static pressure.</p>						*1 Nominal cooling condition	*2 Nominal cooling condition	*3 Nominal heating condition	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	= 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 <sup>3</sup> /min x 35.31		Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs	= kg / 0.4536	
*1 Nominal cooling condition	*2 Nominal cooling condition	*3 Nominal heating condition	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	= 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 <sup>3</sup> /min x 35.31																															
Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs	= kg / 0.4536																															
*Above specification data is subject to rounding variation.																																			

PLFY-VCM/VBM

# 1. SPECIFICATIONS

EP-YKM

Model		PLFY-P32VBM-E	PLFY-P40VBM-E	PLFY-P50VBM-E	PLFY-P63VBM-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	
	*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	
	*4	Power input	kW	0.03	0.04	0.04	0.05
*4	Current input	A	0.22	0.29	0.29	0.36	
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	
	*4	Power input	kW	0.02	0.03	0.03	0.04
	*4	Current input	A	0.14	0.22	0.22	0.29
External finish		Galvanized steel 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 (lbs)	22 (49)	22 (49)	22 (49)	23 (51)	
Decoration panel	Model	PLP-6BA		PLP-6BA		PLP-6BA	
	External finish	MUNSELL (6.4Y 8.9/0.4)					
	Dimension	mm	35 x 950 x 950				
	H x W x D	in.	1-3/8 x 37-7/16 x 37-7/16				
	Net weight	kg (lbs)	6 (13)				
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	
		mmHzO	0	0	0	0	
	Motor type		DC motor				
	Motor output		kW	0.050	0.050	0.050	0.050
	Driving mechanism		Direct-drive				
	Airflow rate	(Low-Mid2-Mid1-High)		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
m <sup>3</sup> / 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		
Sound pressure level (measured in anechoic room)		*4	dB <A>	27 - 28 - 29 - 31	27 - 28 - 30 - 31	27 - 28 - 30 - 31	28 - 29 - 30 - 32
Insulation material		PS					
Air filter		PP honeycomb					
Protection device		Fuse					
Refrigerant control device		LEV					
Connectable outdoor unit		R410A CITY MULTI					
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)				
Standard attachment	Document	Installation Manual, Instruction Book					
	Accessory						
Remark	Optional parts						
	Decoration panel **1		PLP-6BA	PLP-6BA	PLP-6BA	PLP-6BA	
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	
	High efficiency filter element **2		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	
		**1.PLFY-P-VBM-E should use together with PLP-6BA. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-E.					
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		
	Indoor :	27°CDB/19°CWB (81°FDB/66°FWB)	27°CDB/19.5°CWB (81°FDB/67°FWB)	20°CDB (68°FDB)			
	Outdoor :	35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)			
	Pipe length :	7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)			
	Level difference :	0 m (0 ft)	0 m (0 ft)	0 m (0 ft)			
				Unit converter			
				kcal/h = kW x 860			
				BTU/h = kW x 3,412			
				cfm = m <sup>3</sup> /min x 35.31			
				lbs = kg / 0.4536			
				*Above specification data is subject to rounding variation.			
				* Nominal conditions *1, *3 are subject to JIS B8615-1.			
				* Due to continuing improvement, above specification may be subject to change without notice.			
				*4 The values are measured at the rated external static pressure.			

PLFY-VCM/VBM

# 1. SPECIFICATIONS

EP-YKM

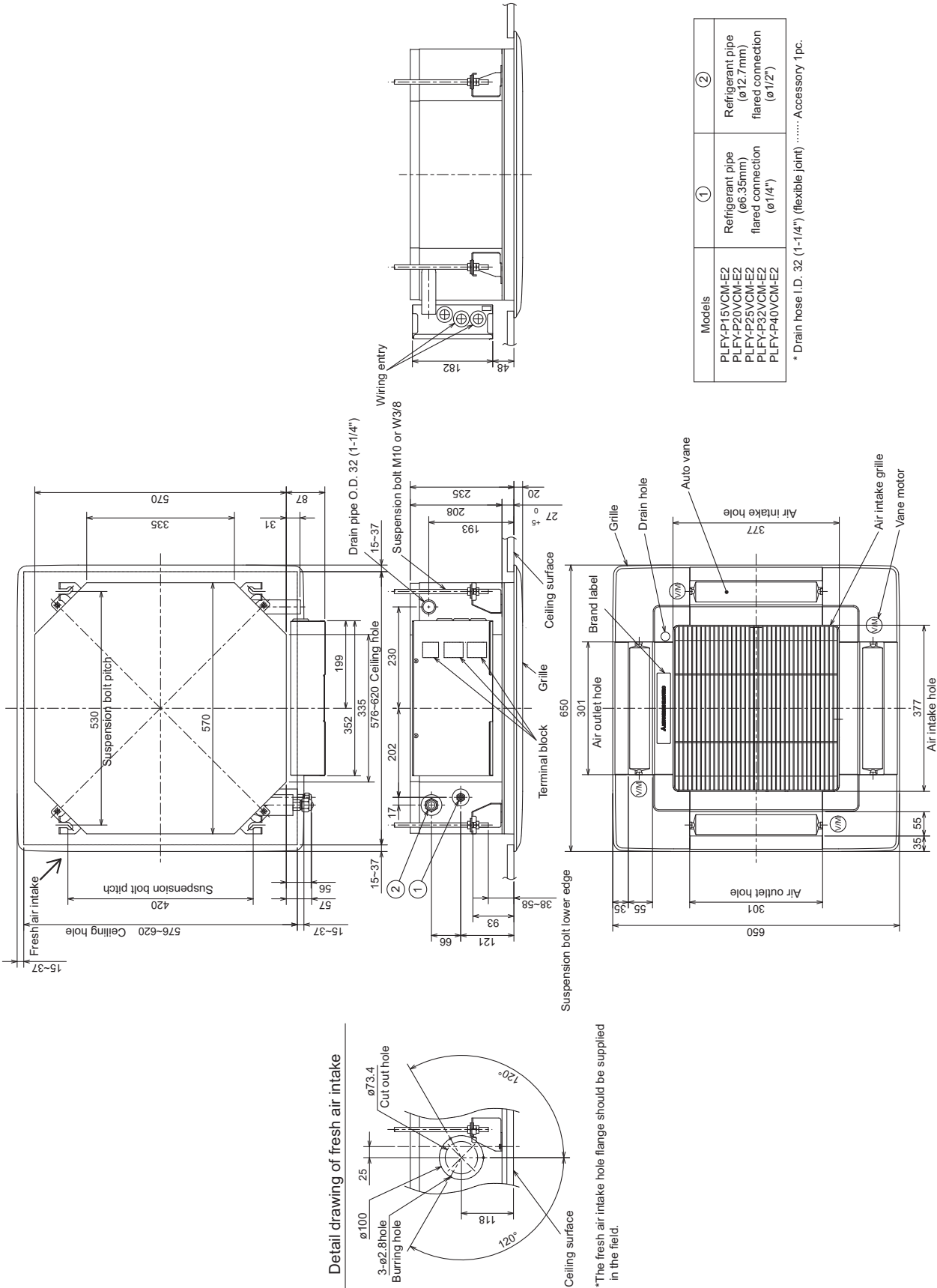
Model			PLFY-P80VBM-E	PLFY-P100VBM-E	PLFY-P125VBM-E		
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz				
Cooling capacity (Nominal)	*1	kW	9.0	11.2	14.0		
		kcal / h	7,700	9,600	12,000		
		BTU / h	30,700	38,200	47,800		
	*2	kcal / h	8,000	10,000	12,500		
		*4 Power input	kW	0.07	0.15	0.16	
*4	Current input	A	0.51	1.00	1.07		
Heating capacity (Nominal )	*3	kW	10.0	12.5	16.0		
		kcal / h	8,600	10,800	13,800		
		BTU / h	34,100	42,700	54,600		
	*4	Power input	kW	0.06	0.14	0.15	
		Current input	A	0.43	0.94	1.00	
External finish			Galvanized steel 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 (lbs)	23(51)	27(60)	27(60)		
Decoration panel	Model		PLP-6BA	PLP-6BA	PLP-6BA		
	External finish		MUNSELL (6.4Y 8.9/0.4)				
	Dimension		35 x 950 x 950				
	H x W x D		1-3/8 x 37-7/16 x 37-7/16				
	Net weight		6(13)				
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 <sub>2</sub> O	0	0	0		
	Motor type		DC motor				
	Motor output	kW	0.050	0.120	0.120		
	Driving mechanism		Direct-drive				
	Airflow rate			(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	
		m <sup>3</sup> / min		16 - 18 - 20 - 22	21 - 24 - 27 - 29	22 - 25 - 28 - 30	
L / s		267 - 300 - 333 - 367	350 - 400 - 450 - 483	367 - 417 - 467 - 500			
cfm		565 - 636 - 706 - 777	742 - 848 - 953 - 1024	777 - 883 - 989 - 1059			
Sound pressure level (measured in anechoic room)		*4	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)		
		dB <A>	30 - 32 - 35 - 37	34 - 37 - 39 - 41	35 - 38 - 41 - 43		
Insulation material			PS				
Air filter			PP honeycomb				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare		
	Gas (R410A)	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare		
Field drain pipe size		mm (in.)	O.D. 32 (1-1/4)				
Standard attachment	Document		Installation Manual, Instruction Book				
Remark	Optional parts						
	Decoration panel **1		PLP-6BA	PLP-6BA	PLP-6BA		
	Air outlet shutter plate		PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E		
	High efficiency filter element **2		PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E		
	Multi-function casement		PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E		
		**1.PLFY-P-VBM-E should use together with PLP-6BA. **2.PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-E.					
Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.					
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31		
Level difference :		0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = 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.					
		*4 The values are measured at the rated external static pressure.					

PLFY-VCM/VBM

## PLFY-P15, 20, 25, 32, 40VCM-E2

Unit : mm

PLFY-YCM/VBM

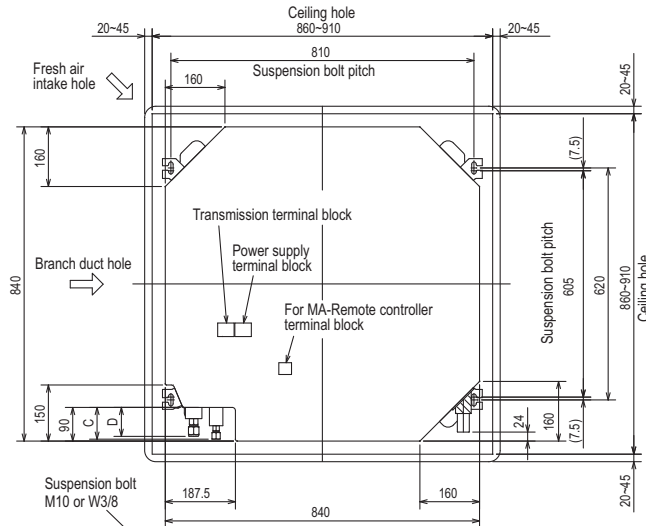


Detail drawing of fresh air intake

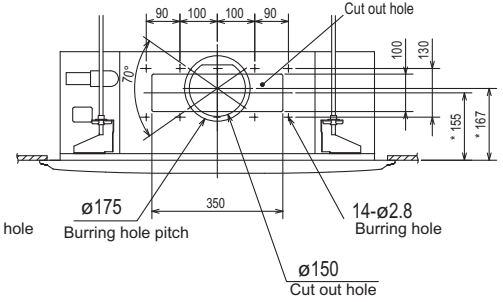
\*The fresh air intake hole flange should be supplied in the field.

## PLFY-P32, 40, 50, 63, 80, 100, 125VBM-E

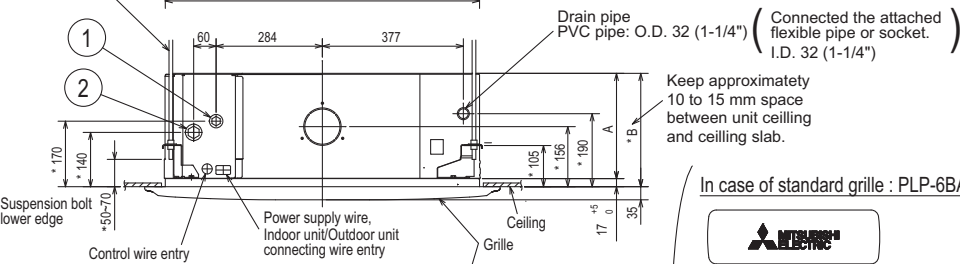
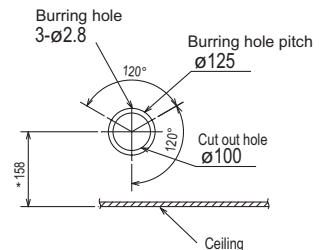
Unit: mm



Detail connecting of Branch duct (Both aspects)



Detail drawing of fresh air intake hole



Keep approximately 10 to 15 mm space between unit ceiling and ceiling slab.

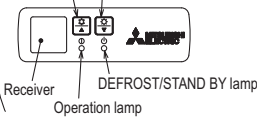
In case of standard grille : PLP-6BA



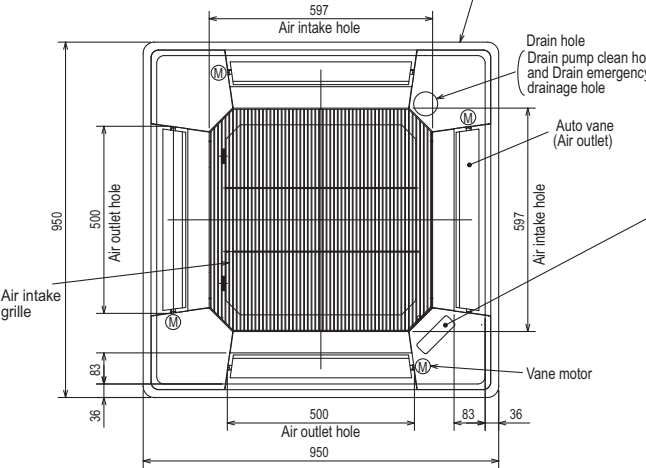
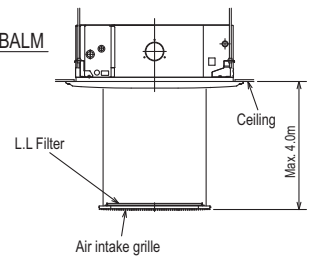
In case of Auto-Grille : PLP-6BAJ

In case of wireless remote controller : PLP-6BALM

Emergency operation switch <Cooling> and Emergency Up/Down switch <Up>  
Emergency operation switch <Heating> and Emergency Up/Down switch <Down>

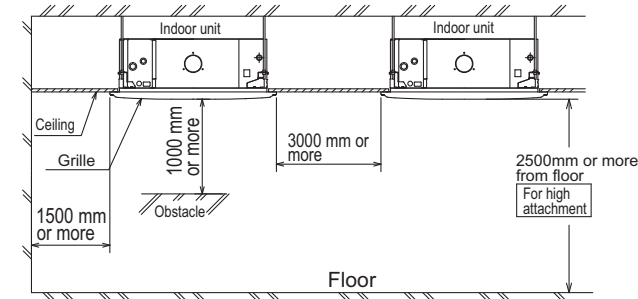


Auto-Grille  
Air intake grille Up/down distance



- Note
1. Please choose the Grille from a standard grille, Auto-Grille.
  2. As for drain pipe, please use VP-25 (O.D. ø32 PVC TUBE). Drain pump inclusion. Raise is max 850mm from the ceiling.
  3. As for suspension bolt, please use M10 or W3/8. (Procured at local site)
  4. Electrical box may be removed for the service purpose. Make sure to slack the electrical wire little bit for control/power wires connection.
  5. The height of the indoor unit is able to be adjusted with the grille attached.
  6. For the installation of the optional high efficiency filter or optional multi-functional casement.
    - 1) Requires E or more space between transom and ceiling for the installation.
    - 2) Add 135 mm to the dimensions \* marked on the figure.
    - 3) The optional high efficiency filter becomes optional multi-functional casement and concomitant use.
  7. When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur. (It becomes the cause of dew drops/Wear dew.)
  8. As for necessary installation/service space, please refer to the left at figure.

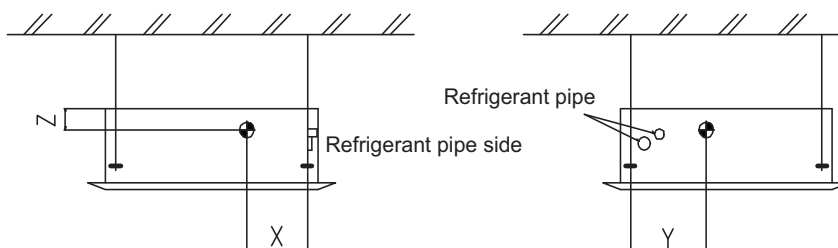
Accessory ... Drain socket (I.D. 32 (1-1/4"))



Models	①	②	A	B	C	D	E
PLFY-P32,40VBM-E	Refrigerant pipe-ø 6.35 Flared connection-1/4F	Refrigerant pipe-ø12.7 Flared connection-1/2F			80	74	
PLFY-P50VBM-E	Refrigerant pipe ø6.35 /ø9.52 Flared connection 1/4F / 3/8F (compatible)	Refrigerant pipe ø12.7 Flared connection 1/2F	241	258	87	78	400
PLFY-P63,80VBM-E	Refrigerant pipe-3/8F Flared connection-ø9.52	Refrigerant pipe-ø15.88 Flared connection-5/8F			77		
PLFY-P100,125VBM-E		Refrigerant pipe ø15.88 Flared connection 5/8F	281	298	85	81	440



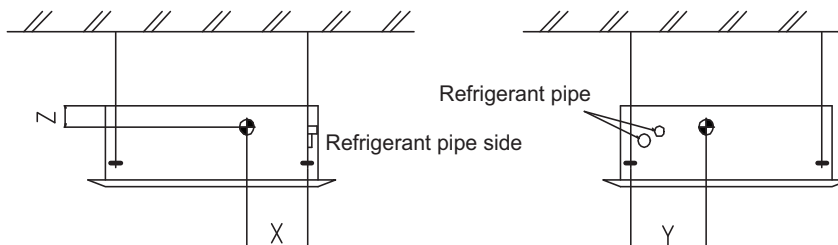
#### PLFY-P15, 20, 25, 32, 40VCM-E2



(mm)[in]

Model name	X	Y	Z
PLFY-P15VCM-E2	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P20VCM-E2	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P25VCM-E2	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P32VCM-E2	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]
PLFY-P40VCM-E2	150 [5-29/32]	260 [10-1/4]	105 [4-5/32]

#### PLFY-P32, 40, 50, 63, 80, 100, 125VBM-E



(mm)[in]

Model name	X	Y	Z
PLFY-P32VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P40VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P50VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P63VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P80VBM-E	280 [11-1/32]	400 [15-3/4]	105 [4-5/32]
PLFY-P100VBM-E	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]
PLFY-P125VBM-E	280 [11-1/32]	400 [15-3/4]	125 [4-15/16]

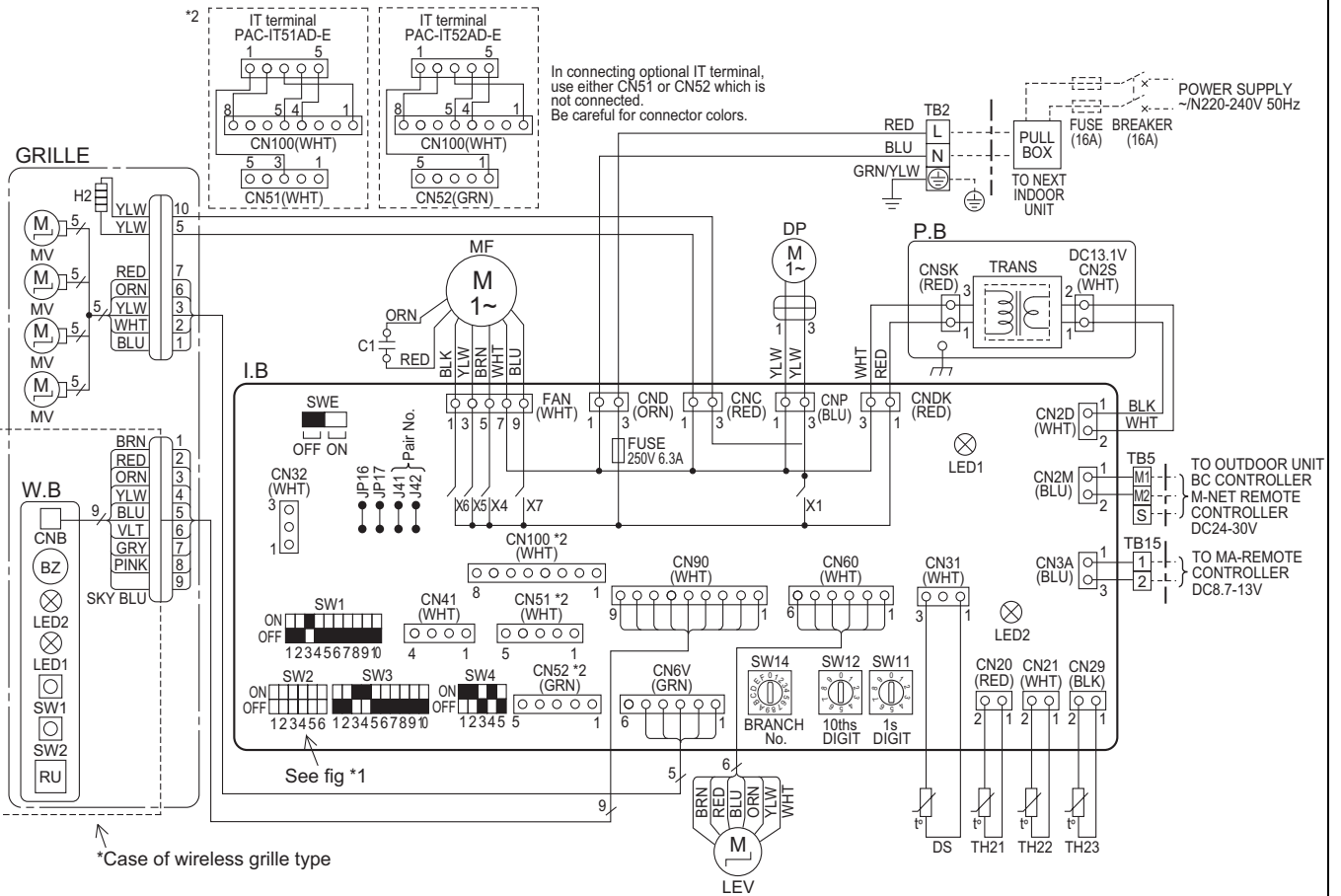
## PLFY-P15, 20, 25, 32, 40VCM-E2

### [LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	DS	DRAIN SENSOR
CN32	CONNECTOR	H2	DEW PREVENTION HEATER
CN41	JEMA HA TERMINAL-A	LEV	LINEAR EXPANSION VALVE
CN51	CENTRALLY CONTROL	MF	FAN MOTOR (WITH THERMAL FUSE)
CN52	REMOTE INDICATION	MV	VANE MOTOR
CN100	IT TERMINAL	TB2	TERMINAL BLOCK
FUSE	FUSE (T6.3AL 250V)	TB5	TRANSMISSION
SW1	SWITCH	TB15	MA-REMOTE CONTROLLER
SW2	CAPACITY CODE	TH21	THERMISTOR
SW3	MODE SELECTION	TH22	PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ , 25°C/5.4kΩ)
SW4	MODEL SELECTION		
SW11	ADDRESS SETTING 1s DIGIT	TH23	PIPE TEMP. DETECTION / GAS (0°C/15kΩ , 25°C/5.4kΩ)
SW12	ADDRESS SETTING 10ths DIGIT		
SW14	BRANCH No.		
SWE	DRAIN PUMP (TEST MODE)	P.B	INDOOR POWER BOARD
X1	AUX. RELAY	OPTION PART	
X4	RELAY	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
X5	FAN MOTOR (Lo)	BZ	BUZZER
X6	FAN MOTOR (Hi)	LED1	LED(OPERATION INDICATOR:GREEN)
X7	FAN MOTOR (Me)	LED2	LED(PREPARATION FOR HEATING : ORANGE)
C1	CAPACITOR (FAN MOTOR)	RU	RECEIVING UNIT
DP	DRAIN PUMP	SW1	EMERGENCY OPERATION(HEAT)
		SW2	EMERGENCY OPERATION(COOL)

The black square (■) indicates a switch position. <←1>

MODELS	SW2
P15	ON OFF ■■■■ 123456
P20	ON OFF ■■■■ 123456
P25	ON OFF ■■■■ 123456
P32	ON OFF ■■■■ 123456
P40	ON OFF ■■■■ 123456



### 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) Power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

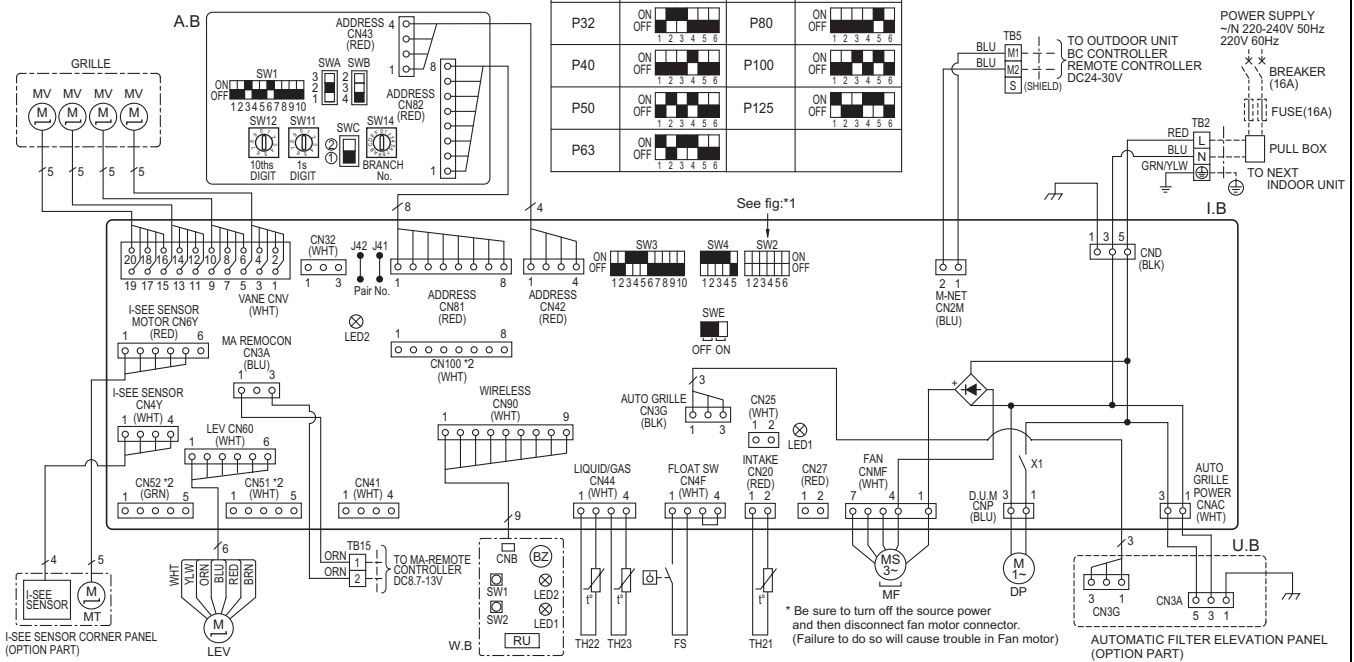
## PLFY-P32, 40, 50, 63, 80, 100, 125VBM-E

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	DP	DRAIN-UP MACHINE	A. B	ADDRESS BOARD
CN27	CONNECTOR DAMPER	FS	DRAIN FLOAT SWITCH	SWA	SWITCH CEILING HEIGHT SELECTOR
CN32	REMOTE SWITCH	LEV	LINEAR EXPANSION VALVE	SWB	DISCHARGE OUTLET NUMBER SELECTOR
CN51	CENTRALLY CONTROL	MF	FAN MOTOR	SWC	OPTION SELECTOR
CN52	REMOTE INDICATION	MV	VANE MOTOR	SW1	MODE SELECTION
CH100	IT TERMINAL	TB2	TERMINAL BLOCK POWER SUPPLY	SW11	ADDRESS SETTING 1s DIGIT
FUSE	FUSE(T6.3AL250V)	TB5	TERMINAL BLOCK TRANSMISSION	SW12	ADDRESS SETTING 10ths DIGIT
LED1	POWER SUPPLY(I. B)	TH21	TEMPERATURE THERMISTOR MA-REMOTE CONTROLLER	SW14	CONNECTION NO.
LED2	POWER SUPPLY(I. B)	TH25	TEMPERATURE THERMISTOR ROOM TEMP. DETECTION (0°C / 15kΩ, 25°C / 5.4kΩ)	OPTION PART	
SW2	SWITCH CAPACITY CODE	TH22	TEMPERATURE THERMISTOR PIPE TEMP. DETECTION / LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
SW3	MODE SELECTION	TH23	TEMPERATURE THERMISTOR PIPE TEMP. DETECTION / GAS (0°C / 15kΩ, 25°C / 5.4kΩ)	BZ	BUZZER
SW4	MODEL SELECTION			LED1	LED(OPERATION INDICATION : GREEN)
SWE	DRAIN-UP MACHINE(TEST MODE)			LED2	LED(PREPARATION FOR HEATING : ORANGE)
X1	AUX. RELAY DRAIN WATER LIFTING-UP MACH.			RU	RECEIVING UNIT
				SW1	EMERGENCY OPERATION(HEAT / DOWN)
				SW2	EMERGENCY OPERATION(COOL / UP)

The black square(■)indicates a switch position.<\*1>

MODELS	SW2	MODELS	SW2
P32	ON OFF 1 2 3 4 5 6	P80	ON OFF 1 2 3 4 5 6
P40	ON OFF 1 2 3 4 5 6	P100	ON OFF 1 2 3 4 5 6
P50	ON OFF 1 2 3 4 5 6	P125	ON OFF 1 2 3 4 5 6
P63	ON OFF 1 2 3 4 5 6		



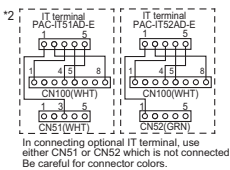
\* Be sure to turn off the source power and then disconnect fan motor connector. (Failure to do so will cause trouble in Fan motor)

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 fig<\*1>.

LED on indoor board for service

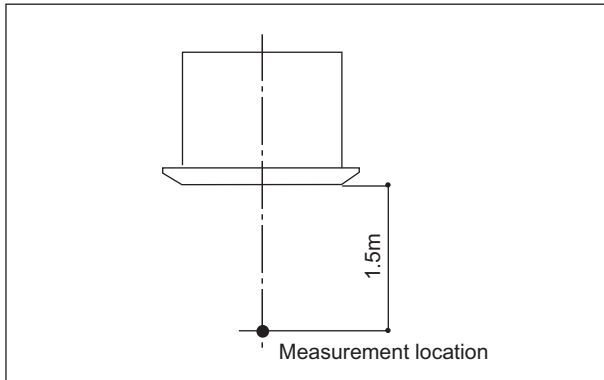
Mark	Meaning	Function
LED1	Main power supply	Main Power supply(Indoor unit:220-240V) power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit



In connecting optional IT terminal, use either CN51 or CN52 which is not connected. Be careful for connector colors.

5-1. Sound levels

PLFY-P-VCM-E2, VBM-E



\* Measured in anechoic room.

Sound level at anechoic room : Low-Mid-High

	Sound level dB (A)
PLFY-P15VCM-E2	28-30-31
PLFY-P20VCM-E2	28-31-35
PLFY-P25VCM-E2	28-31-37
PLFY-P32VCM-E2	29-33-38
PLFY-P40VCM-E2	30-34-39

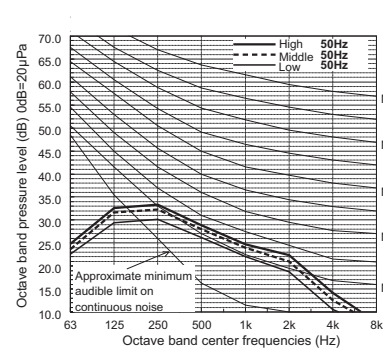
Sound level at anechoic room : Low-Mid2-Mid1-High

	Sound level dB (A)
PLFY-P32VBM-E	27-28-29-31
PLFY-P40VBM-E	27-28-30-31
PLFY-P50VBM-E	27-28-30-31
PLFY-P63VBM-E	28-29-30-32
PLFY-P80VBM-E	30-32-35-37
PLFY-P100VBM-E	34-37-39-41
PLFY-P125VBM-E	35-38-41-43

5-2. NC curves

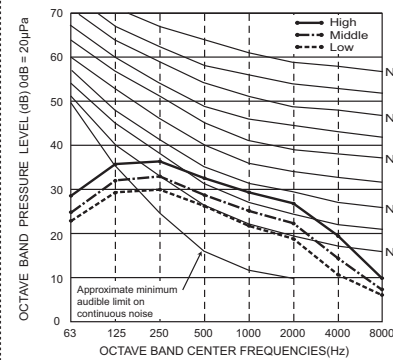
PLFY-P15VCM-E2

External Static Pressure: 0Pa  
Power Source: 220,230,240V, 50Hz



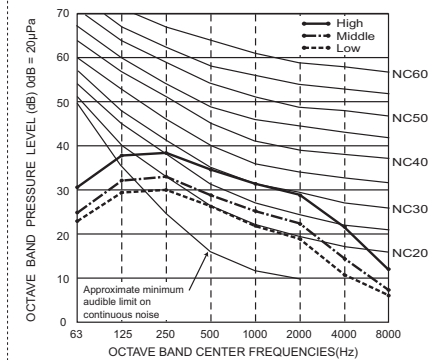
PLFY-P20VCM-E2

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



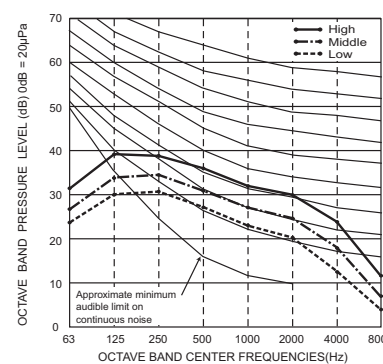
PLFY-P25VCM-E2

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



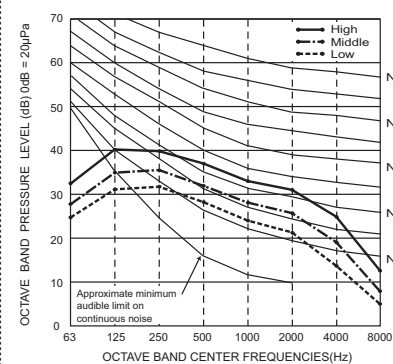
PLFY-P32VCM-E2

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



PLFY-P40VCM-E2

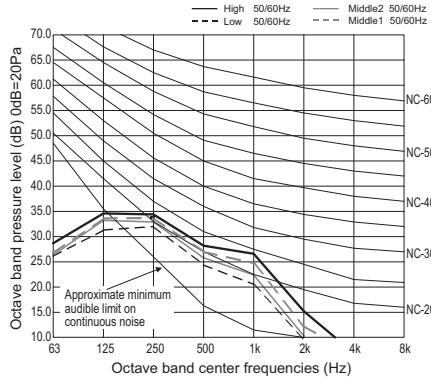
External static pressure : 0Pa  
Power source : 220,230,240V, 50Hz



PLFY-VCM/VBM

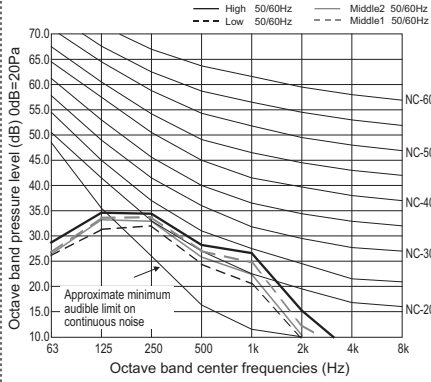
**PLFY-P32VBM-E**

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



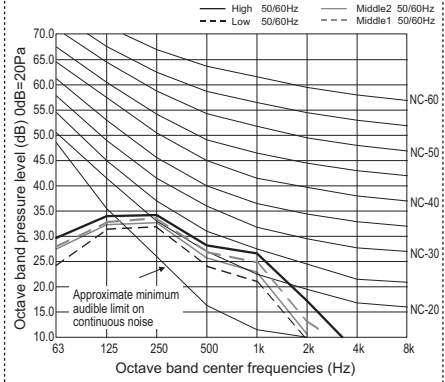
**PLFY-P40VBM-E**

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



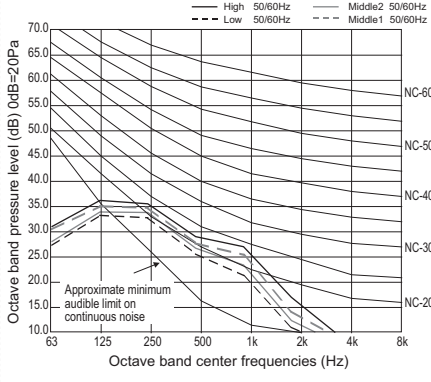
**PLFY-P50VBM-E**

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



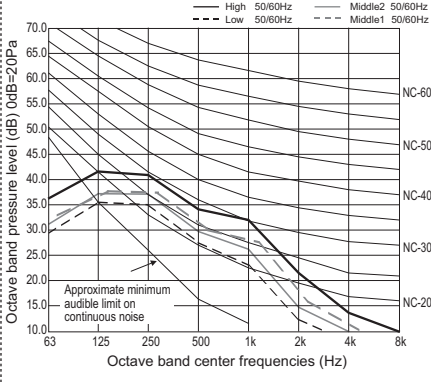
**PLFY-P63VBM-E**

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



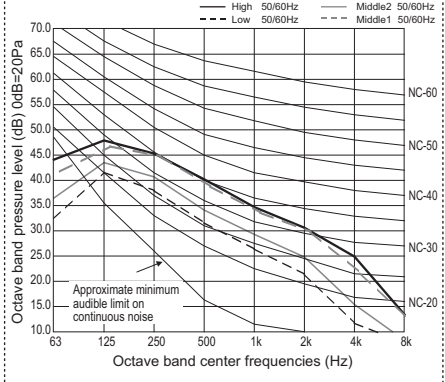
**PLFY-P80VBM-E**

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



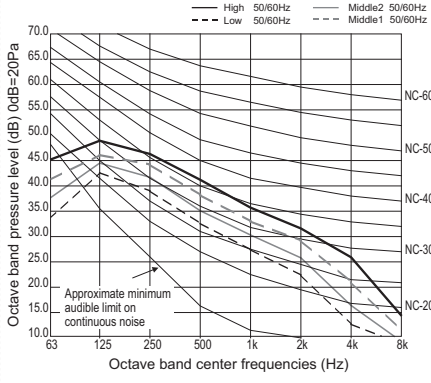
**PLFY-P100VBM-E**

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



**PLFY-P125VBM-E**

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



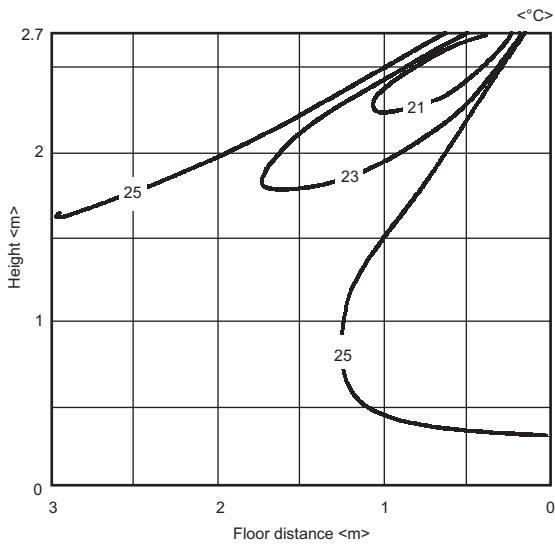
PLFY-VCM/VBM

6-1. Temperature distributions

PLFY-P15-40VCM-E2

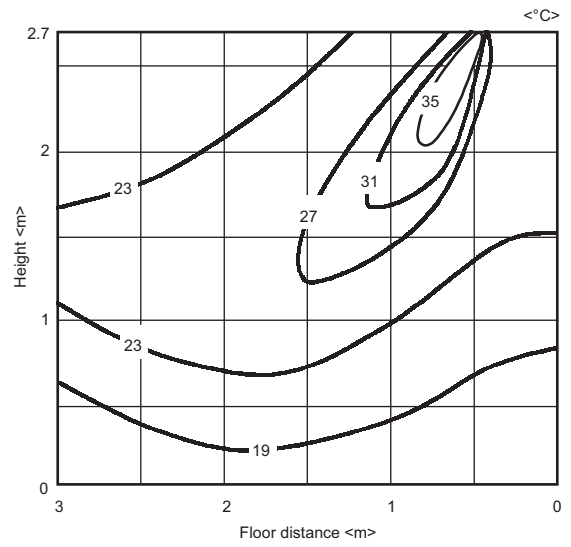
<Cooling mode>

Flow angle 30°



<Heating mode>

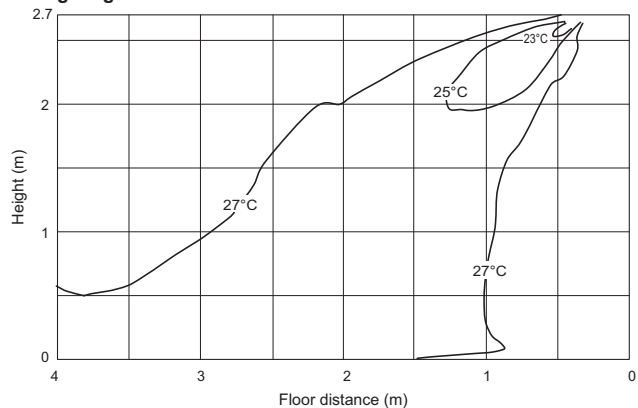
Flow angle 70°



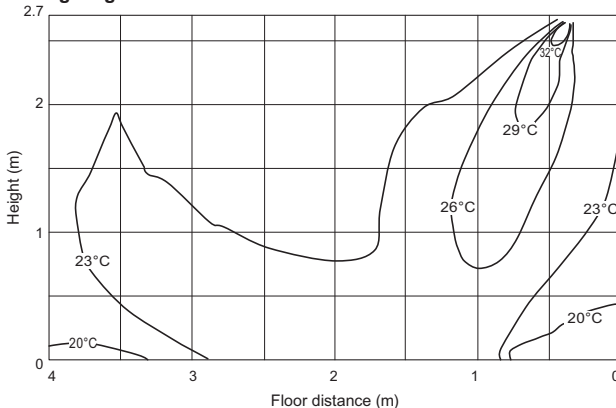
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

## PLFY-P-VBM-E

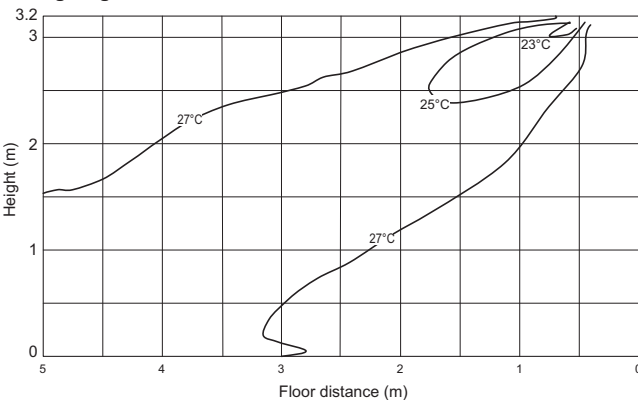
• PLY-P32-80VBM-E  
 <Cooling mode> Standard  
 Flow angle : 30° 4-way flow  
 ceiling height : 2.7 m



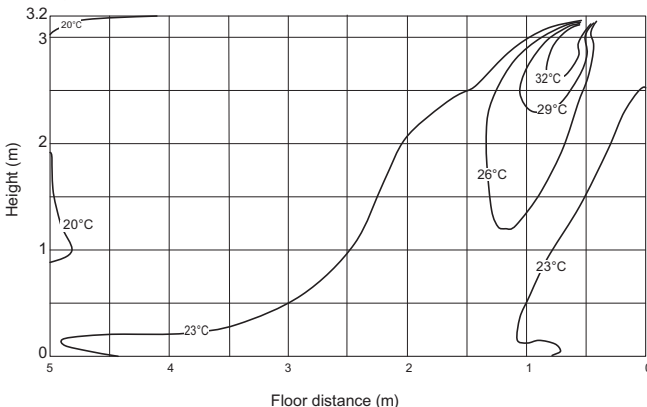
<Heating mode> Standard  
 Flow angle : 60° 4-way flow  
 ceiling height : 2.7 m



• PLY-P100, 125VBM-E  
 <Cooling mode> Standard  
 Flow angle : 30° 4-way flow  
 ceiling height : 3.2 m



<Heating mode> Standard  
 Flow angle : 60° 4-way flow  
 ceiling height : 3.2 m



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.

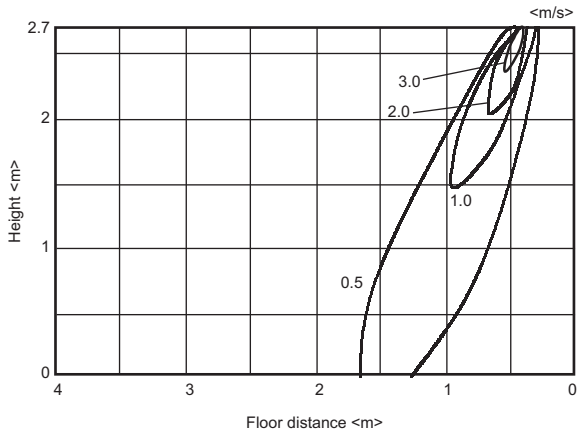
PLFY-VCM/VBM

6-2. Airflow distributions

PLFY-P15-40VCM-E2

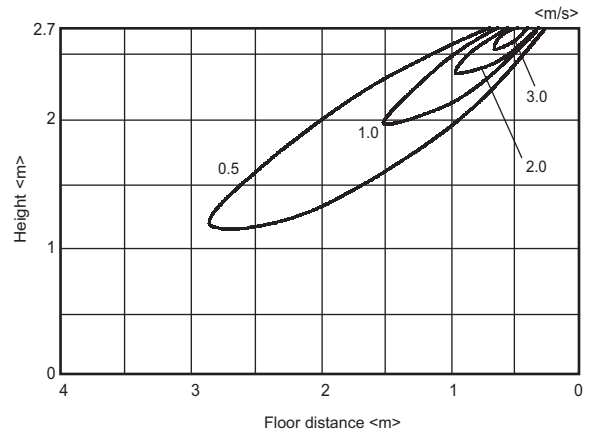
<Fan mode>

Flow angle 70°



<Fan mode>

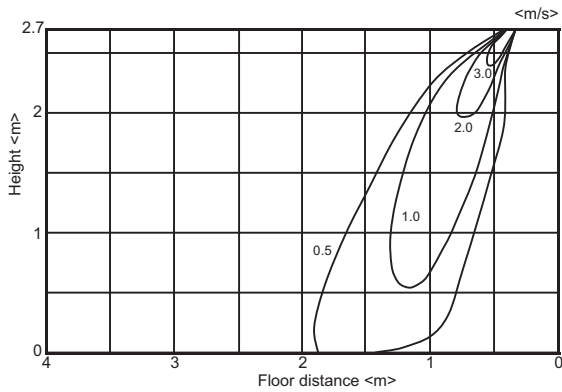
Flow angle 30°



PLFY-P32-80VBM-E

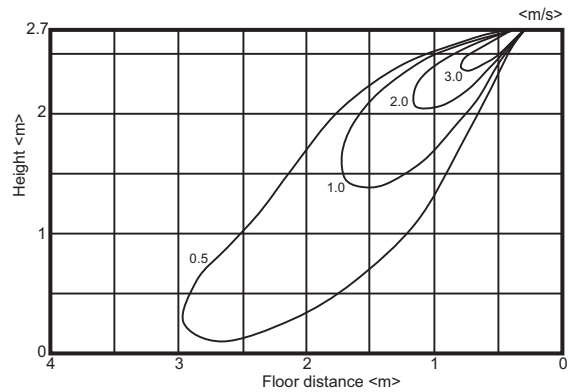
<Heating mode>

Flow angle 60°



<Cooling mode>

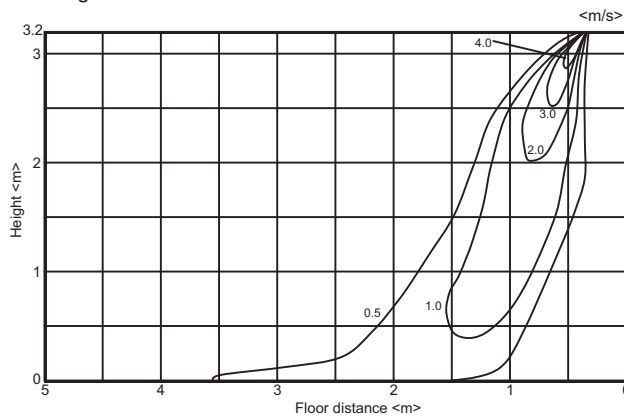
Flow angle 30°



PLFY-P100, 125VBM-E

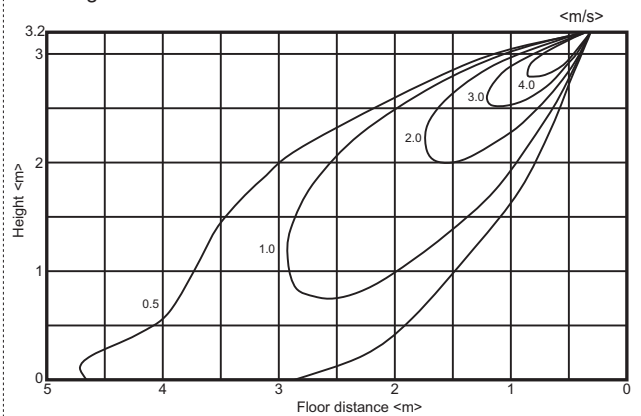
<Heating mode>

Flow angle 60°



<Cooling mode>

Flow angle 30°



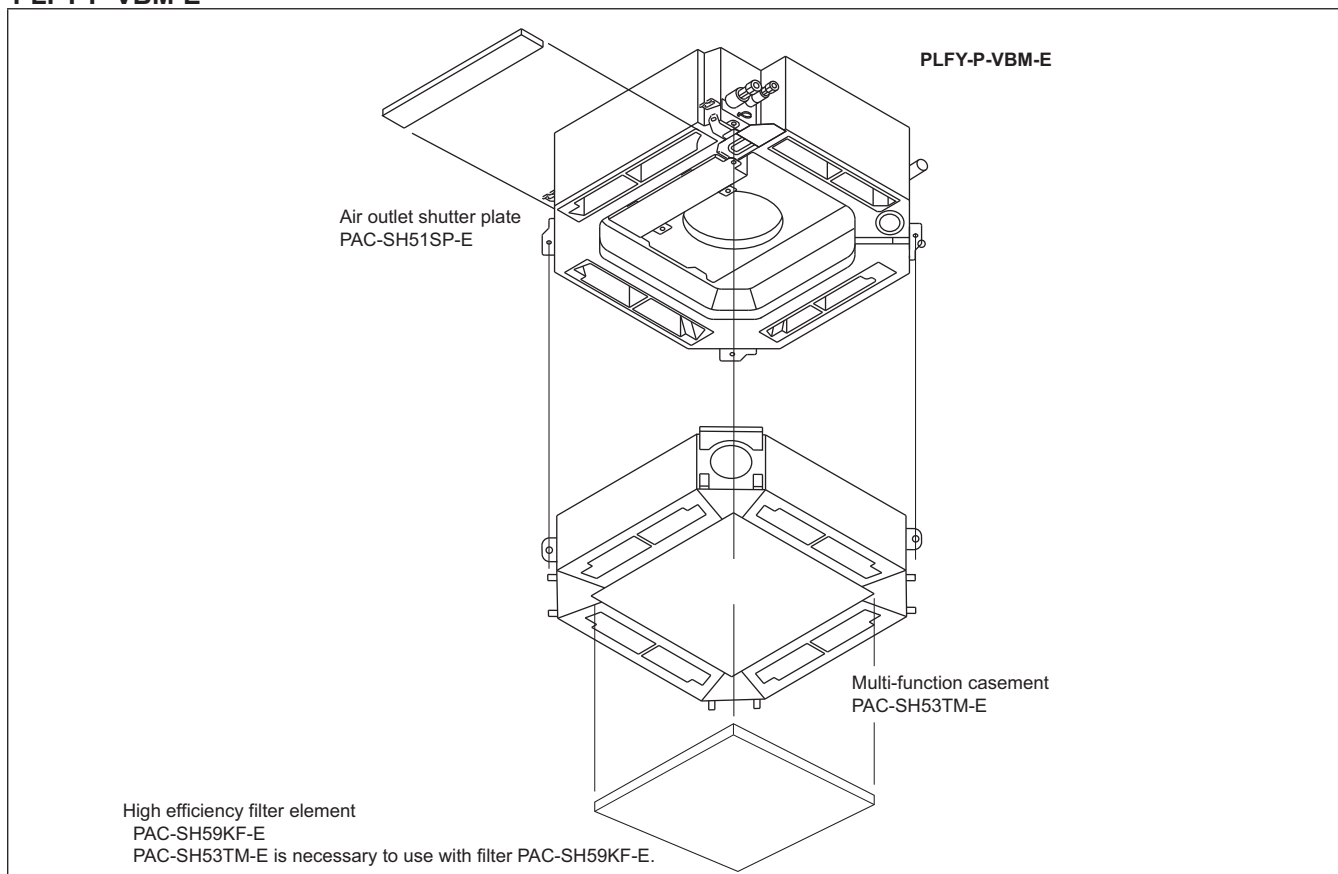
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.



## 7-1. Optional parts line up for the Indoor unit

	Description	Model
PLFY-P-VBM-E	Air outlet shutter plate	PAC-SH51SP-E
	Multi-function casement	PAC-SH53TM-E
	High efficiency filter element	PAC-SH59KF-E
	i-see Sensor corner panel	PAC-SA1ME-E
	Automatic filter elevation panel	PLP-6BAJ
	Wireless signal receiver	PAR-SA9FA-E
	Space panel	PAC-SH48AS-E
	Duct flange for fresh air intake	PAC-SH65OF-E

### PLFY-P-VBM-E



## 7-2. Air outlet shutter plate

Using the air outlet shutter plate to block the air outlet to modify the air-way from 4 to 3 or 2.

With 1 PAC-SH51SP-E, 4 air-ways can be changed to 3;

With 2 PAC-SH51SP-E, 4 air-ways can be changed to 2;

Changing to 1 way is not allowed.

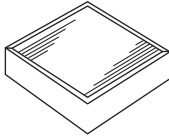
Material: Foamed polyethylene + foamed urethane, color: Black

Item	① Shutter plate	② Insulator	
Quantity	2	1	
Shape			

Detailed installation information should be referred to its Installation Manual (BH79G726H01).

7-3. High efficiency filter element

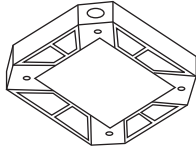


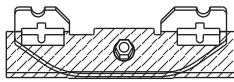
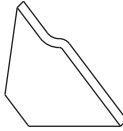
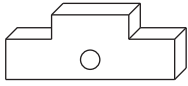
Life span: 2,500 hr (Dust concentration 0.15mg/m<sup>3</sup>); Colorimetric method 65% (JIS 11 class); No re-production.  
 \* The actual dust situation affects the filter life span, which should be considered at the applying site.  
 Material: Electrostatic polyolefin fiber  
 High efficiency filter element PAC-SH59KF-E should be used together with the Multi-function casement PAC-SH53TM-E. When using PAC-SH59KF-E, switching on SWC of the Indoor unit address board is needed. Details should be referred to its Installation Manual.

Quantity	1	
Shape		

Detailed installation information is referred in its Installation Manual (BH79G727H01).

7-4. Multi-function casement



Multi-function casement is used for High efficiency filter element and/or fresh air intake from outdoor.  
 It should be used with High efficiency filter element PAC-SH59KF-E (Colorimetric method 65%).  
 Fresh air intake on the Multi-function casement is possible from any 2 or less corners among the 4 ones.  
 But duct and flange on the casement should be prepare locally.

Item	① Multi-functional casement	② Screw with washer (black)	③ Screw
Quantity	1	4	8
Shape		M5X0.8X25 	M5X0.8X12 
Item	④ Decorative panel securing bracket	⑤ Insulator A for Decorative panel	⑥ Insulator B for Decorative panel
Quantity	4	1	1
Shape	With insulator 		

Detailed installation information should be referred to its Installation Manual (RG79Y264H01).

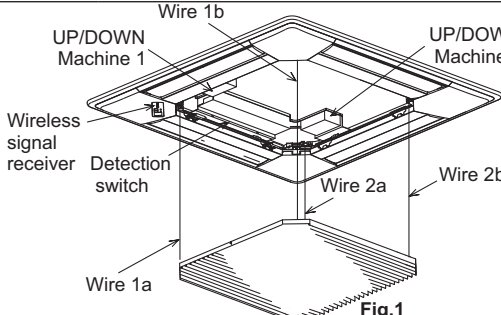
## 7-5. i-see sensor corner panel

i-see sensor provides comfortable space as it detects the floor temperature to prevent spotty temperature. And that enables the unit to save energy.  
 Attention  
 Make sure that there are no gaps between the unit and the grille, and the grille and ceiling.  
 ※ It may cause dew dripping.

Item	① i-see sensor corner panel	② Plastic fastener	
Quantity	1	2	
Shape			

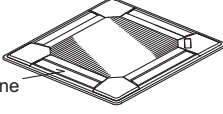
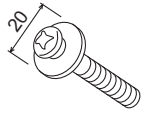
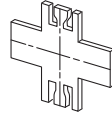

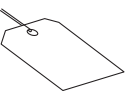




Detailed installation information should be referred to its Installation Manual (RG79V563H01).

## 7-6. Automatic filter elevation panel



**Fig.1**


- Air intake grille can be lifted and lowered automatically by wired remote controller (MA type : PAR-21MAA) or wireless remote controller (Item 9).
- Lowering the air intake grille allows you to clean the filter easily.
- You can set up eight different stages of lowering distance for the air intake grille according to the set up location if desired. (Maximum : 4m)

Item	① Decorative panel	② Screw with washer	③ Installation gauge	④ Plastic fastener
Quantity	1	4	1	3
Shape	 Vane	 M5X0.8X25	 (Used split into four pieces)	
Item	⑤ Tag	⑥ Screw	⑦ Screw	⑧ Screw
Quantity	1	4	1	3
Shape		 4X8 Only three are used	 4X12	 M5X10
Item	⑨ Wireless remote controller			
Quantity	1			
Shape				

Detailed installation information should be referred to its Installation Manual (RG79D167K10)

## 7-7. Wireless signal receiver

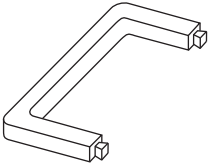
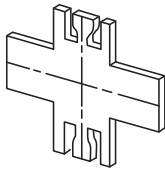
Wireless signal receiver PAR-SA9FA-E is necessary for using wireless remote controller PAR-SA9FA-E is a corner panel with the signal receiver for wireless remote controller.

Item	① Wireless signal receiver	
Quantity	1	
Shape		

Detailed installation information should be referred to its Installation Manual (RG79V531H01)

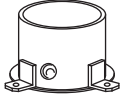
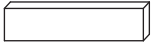

## 7-8. Space panel

Decorative cover for the installation when the ceiling height is low.

Item	① Space panel	② Gauge for installation
Quantity	2	1
Shape		

## 7-9. Duct flange for fresh air intake

Part to attach a duct to take in fresh air from outdoors.

Item	① Duct flange	② Insulator	③ Screws (M4 x 10)
Quantity	1	1	3
Shape			



**PCFY-P-VKM-E**

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# 1. SPECIFICATIONS

EP-YKM

Model		PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E
Power source		1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz
Cooling capacity (Nominal)	*1 kW	4.5	7.1	11.2	14.0
	*1 kcal / h	3,900	6,100	9,600	12,000
	*1 BTU / h	15,400	24,200	38,200	47,800
	*2 kcal / h	4,000	6,300	10,000	12,500
(220V)	Power input kW	0.04	0.05	0.09	0.11
	Current input A	0.28	0.33	0.65	0.76
Heating capacity (Nominal)	*3 kW	5.0	8.0	12.5	16.0
	*3 kcal / h	4,300	6,900	10,800	13,800
	*3 BTU / h	17,100	27,300	42,700	54,600
	*3 kcal / h	4,000	6,300	10,000	12,500
(220V)	Power input kW	0.04	0.05	0.09	0.11
	Current input A	0.28	0.33	0.65	0.76
External finish		MUNSELL (6.4Y 8.9/0.4)	MUNSELL (6.4Y 8.9/0.4)	MUNSELL (6.4Y 8.9/0.4)	MUNSELL (6.4Y 8.9/0.4)
External dimension HxWxD		mm	230x960x680	230x1280x680	230x1600x680
		in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4
Net weight		kg(lbs)	24(53)	32(71)	36(79)
Heat exchanger		Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 4
	External static press.	Pa	0	0	0
		mmH <sub>2</sub> O	0	0	0
	Motor Type		DC motor	DC motor	DC motor
	Motor output kW		0.090	0.095	0.160
	Driving mechanism		Direct-drive	Direct-drive	Direct-drive
	Air flow rate (Low-Mid2-Mid1-High)	m <sup>3</sup> / min	10-11-12-13	14-15-16-18	21-24-26-28
		L/s	167-183-200-217	233-250-267-300	350-400-433-467
cfm		353-388-424-459	494-530-565-636	742-847-918-989	
Sound pressure level (measured in anechoic room)		dB <A>	29-32-34-36	31-33-35-37	36-38-41-43
Insulation material		Polyeter sheet	Polyeter sheet	Polyeter sheet	Polyeter sheet
Air filter		PP honeycomb (long life)	PP honeycomb (long life)	PP honeycomb (long life)	PP honeycomb (long life)
Protection device		Fuse	Fuse	Fuse	Fuse
Refrigerant control device		LEV	LEV	LEV	LEV
Connectable outdoor unit		R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	6.35(1/4) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	Gas (R410A)	mm(in.)	12.70(1/2) Flare	15.88(5/8) Flare	15.88(5/8) Flare
Field drain pipe size		mm(in.)	O.D. 26mm(1)	O.D. 26mm(1)	O.D. 26mm(1)
Drawing	External		-	-	-
	Wiring		-	-	-
	Refrigerant cycle		-	-	-
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory		-	-	-
Optional parts	Circular duct flange		-	-	-
	Drain pump kit		PAC-SH83DM-E	PAC-SH84DM-E	PAC-SH84DM-E
	Square duct flange		-	-	-
	Filter box for rear suction		-	-	-
	Filter box for bottom suction		-	-	-
	Canvas duct for bottom suction		-	-	-
	Medium efficiency filter 65%		-	-	-
	High efficiency filter		PAC-SH88KF-E	PAC-SH89KF-E	PAC-SH90KF-E
	Maintenance panel with air intake		-	-	-
	Wireless remote controller kit		PAR-SL94B-E	PAR-SL94B-E	PAR-SL94B-E
Remarks		* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Notes :	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal cooling conditions	*3 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor :	27degC D.B. / 19degC W.B. (81degF D.B. / 66degF W.B.)	27degC D.B. / 19.5degC W.B. (81degF D.B. / 67degF W.B.)	20degC D.B. (68degF D.B.)	kcal/h = kW x 860
Outdoor :	35degC D.B. (95degF D.B.)	35degC D.B. (95degF D.B.)	7degC D.B. / 6degC W.B. (45degF D.B. / 43degF W.B.)	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 <sup>3</sup> /min x 35.31
Level difference :	0 m (0 ft.)	0 m (0 ft.)	0 m (0 ft.)	lbs = kg / 0.4536
				*The specification data is subject to rounding variation.

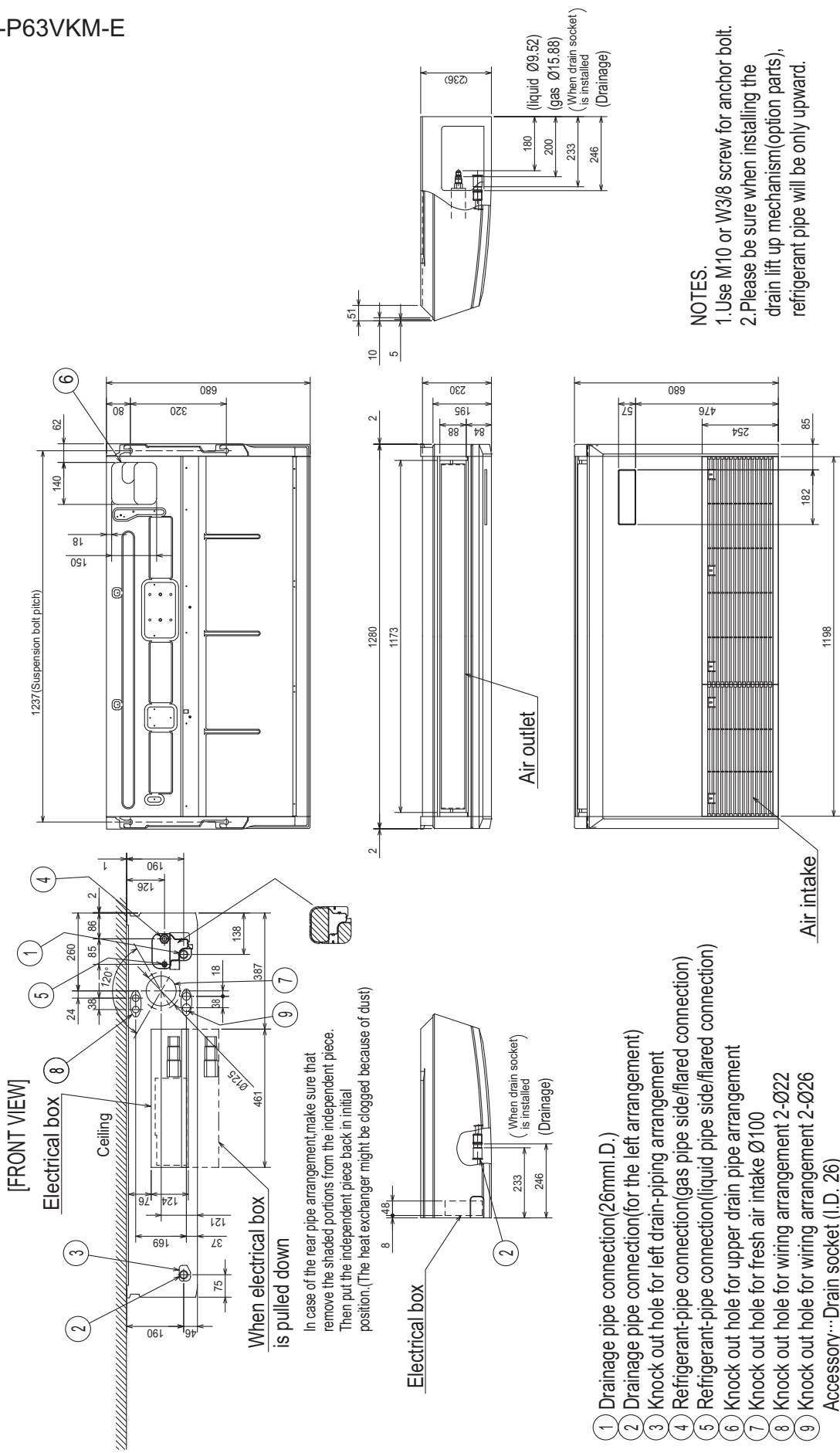
Ref.: Spec\_PCFY-P40-125VKM-E





PCFY-P63VKM-E

Unit : mm

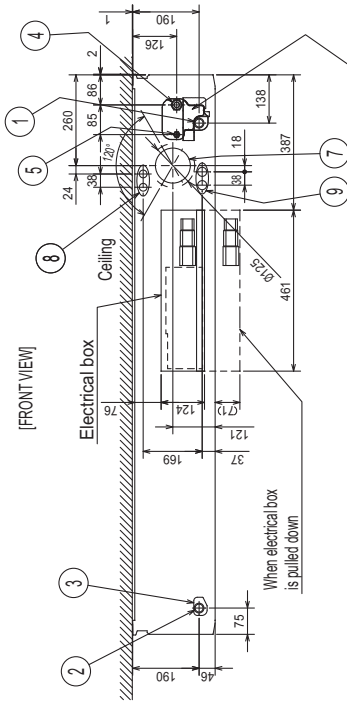


## PCFY-P100,125VKM-E

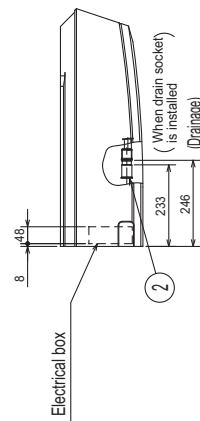
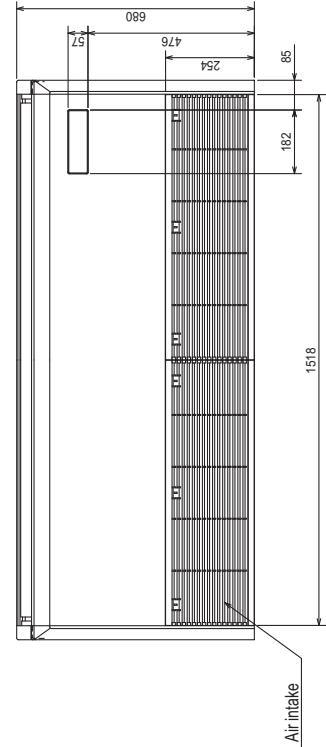
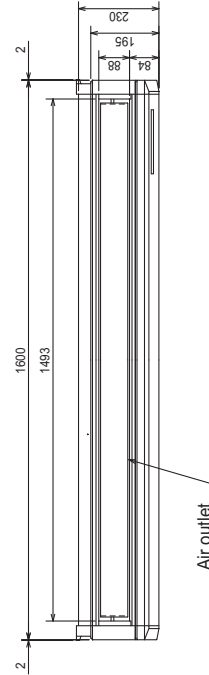
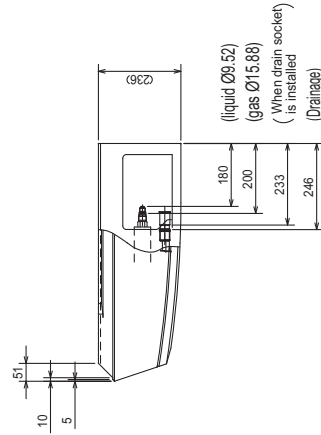
Unit : mm

- ⑥ Knock out hole for upper drain pipe arrangement
- ⑦ Knock out hole for fresh air intake Ø100
- ⑧ Knock out hole for wiring arrangement 2-Ø22
- ⑨ Knock out hole for wiring arrangement 2-Ø26
- Accessory : Drain socket (I.D. 26)

- ① Drainage pipe connection (26mm I.D.)
- ② Drainage pipe connection (for the left arrangement)
- ③ Knock out hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
- ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)



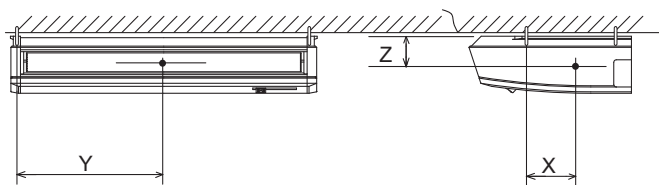
In case of the rear pipe arrangement, make sure that remove the shaded portions from the independent piece. Then put the independent piece back in initial position. (The heat exchanger might be clogged because of dust)



Use the current nuts meeting the pipe size of the outdoor unit.

**NOTES.**  
 1. Use M10 or W3/8 screw for anchor bolt.  
 2. Please be sure when installing the drain lift up mechanism (option parts), refrigerant pipe will be only upward.

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

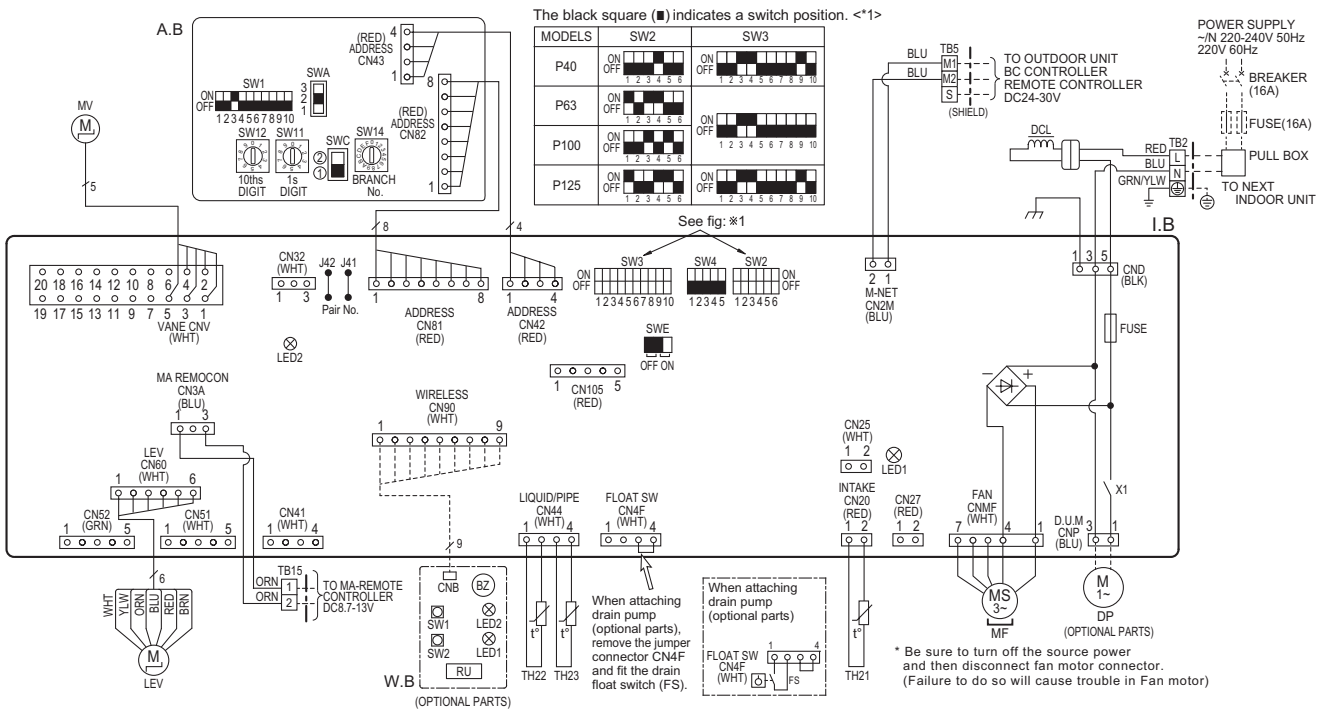


Model name	X	Y	Z
PCFY-P40VKM-E	110	450	115
PCFY-P63VKM-E	110	610	115
PCFY-P100VKM-E	110	770	115
PCFY-P125VKM-E	110	770	115

## PCFY-P40, 63, 100, 125VKM-E

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	TH22	THERMISTOR PIPE TEMP. DETECTION / LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ)
CN27	CONNECTOR DAMPER	TH23	PIPE TEMP. DETECTION / GAS (0°C / 15kΩ, 25°C / 5.4kΩ)
CN32	CONNECTOR REMOTE SWITCH	A. B	ADDRESS BOARD
CN51	CONNECTOR CENTRALLY CONTROL	SWA	SWITCH CEILING HEIGHT SELECTOR
CN52	CONNECTOR REMOTE INDICATION	SWC	SWITCH OPTION SELECTOR
CN105	CONNECTOR IT TERMINAL	SW1	SWITCH MODE SELECTION
FUSE	FUSE (T6.3AL250V)	SW11	SWITCH ADDRESS SETTING 1s DIGIT
SW2	SWITCH CAPACITY CODE	SW12	SWITCH ADDRESS SETTING 10ths DIGIT
SW3	SWITCH MODE SELECTION	SW14	SWITCH BRANCH No.
SW4	SWITCH MODEL SELECTION	OPTIONAL PARTS	
SWE	SWITCH DRAIN PUMP (TEST MODE)	W. B	PCB FOR WIRELESS REMOTE CONTROLLER
X1	AUX. RELAY DRAIN PUMP (OPTIONAL PARTS)	BZ	BUZZER
LEV	LINEAR EXPANSION VALVE	LED1	LED (OPERATION INDICATION : GREEN)
DCL	REACTOR	LED2	LED (PREPARATION FOR HEATING : ORANGE)
MF	FAN MOTOR	RU	RECEIVING UNIT
MV	VANE MOTOR	SW1	SWITCH EMERGENCY OPERATION (HEAT / DOWN)
TB2	TERMINAL BLOCK POWER SUPPLY	SW2	SWITCH EMERGENCY OPERATION (COOL / UP)
TB5	TERMINAL BLOCK TRANSMISSION	DP	DRAIN PUMP
TB15	TERMINAL BLOCK MA-REMOTE CONTROLLER	FS	DRAIN FLOAT SWITCH
TH21	THERMISTOR ROOM TEMP. DETECTION (0°C / 15kΩ, 25°C / 5.4kΩ)		



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 fig <\*1>.

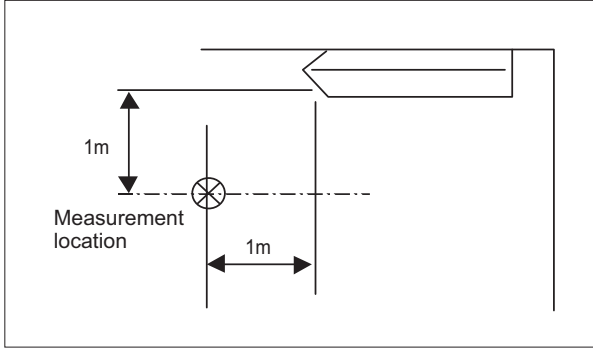
LED on indoor board for service

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

PCFY

## 5-1. Sound levels

Ceiling suspended



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

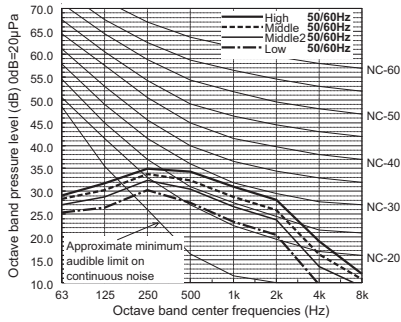
Model	Sound level dB (A)
PCFY-P40VKM-E	29-32-34-36
PCFY-P63VKM-E	31-33-35-37
PCFY-P100VKM-E	36-38-41-43
PCFY-P125VKM-E	36-39-42-44

\* Measured in anechoic room.

## 5-2. NC curves

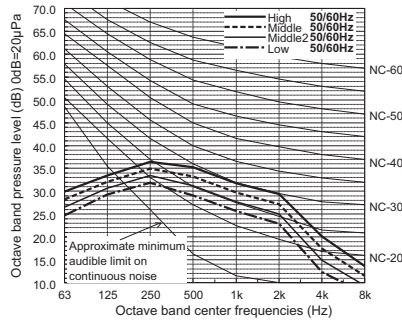
### PCFY-P40VKM

External Static Pressure: 0Pa  
Power Source: 200V, 50/60Hz



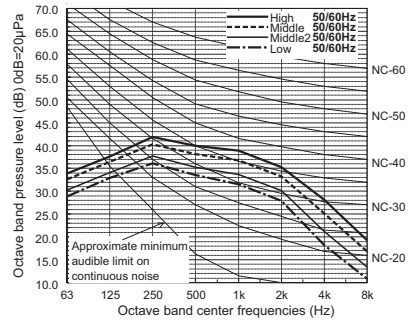
### PCFY-P63VKM

External Static Pressure: 0Pa  
Power Source: 200V 50/60Hz



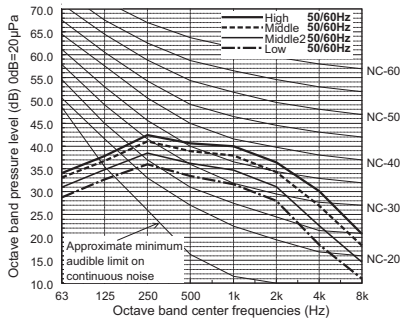
### PCFY-P100VKM

External Static Pressure: 0Pa  
Power Source: 200V 50/60Hz



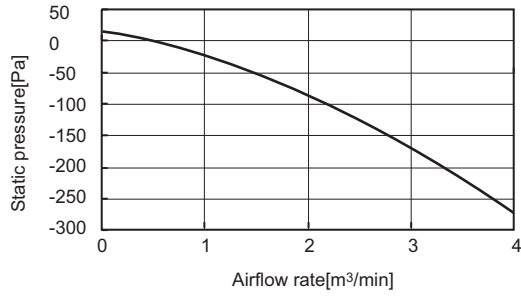
### PCFY-P125VKM

External Static Pressure: 0Pa  
Power Source: 200V 50/60Hz

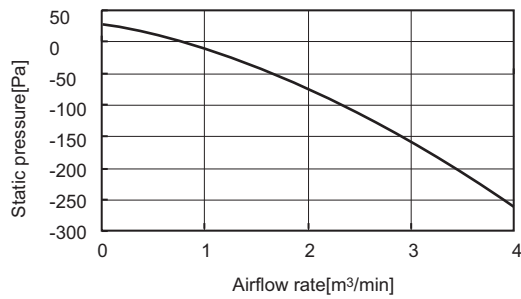


PCFY

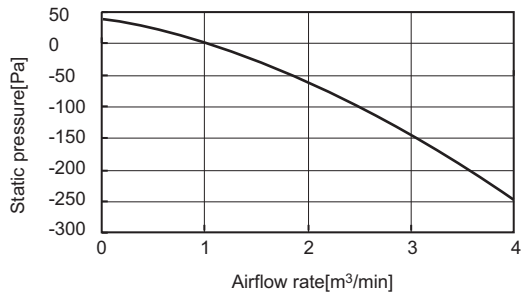
■ PCFY-P40VKM-E



■ PCFY-P63VKM-E



■ PCFY-P100, 125VKM-E



PCFY

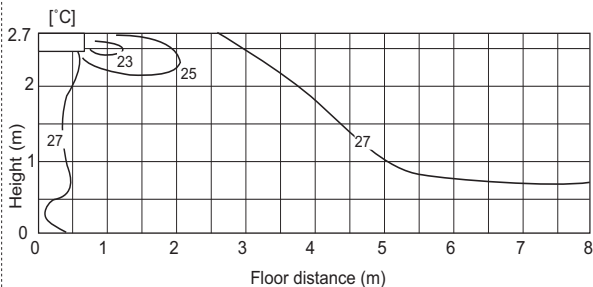
## 7-1. Temperature distributions

### Temperature distributions

#### PCFY-P40, 63VKM-E

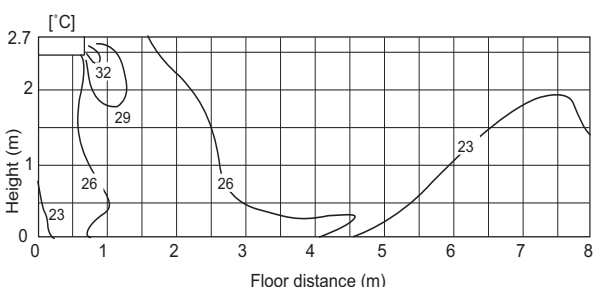
**<Cooling mode>**

Flow angle : 10°  
 Temperature setting : 27°C  
 High notch



**<Heating mode>**

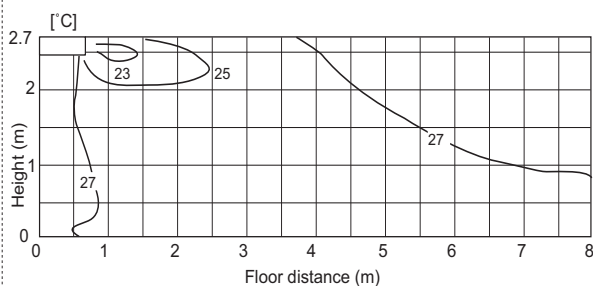
Flow angle : 60°  
 Temperature setting : 20°C  
 High notch



#### PCFY-P100, 125VKM-E

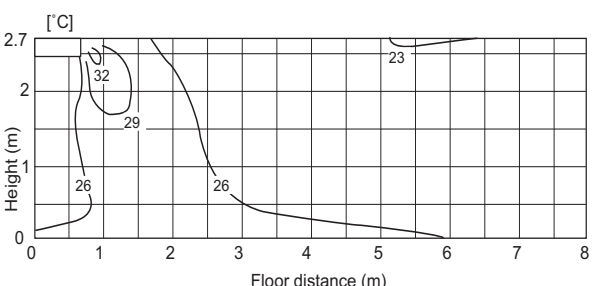
**<Cooling mode>**

Flow angle : 10°  
 Temperature setting : 27°C  
 High notch



**<Heating mode>**

Flow angle : 60°  
 Temperature setting : 20°C  
 High notch



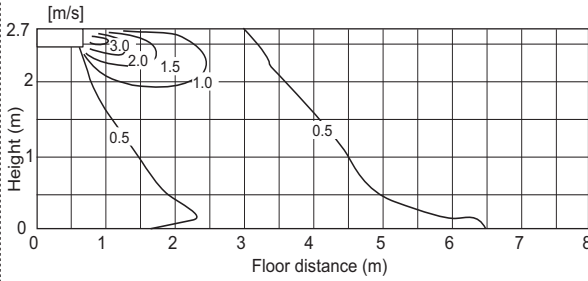
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

7-2. Airflow distributions

**Airflow distributions  
PCFY-P40, 63VKM-E**

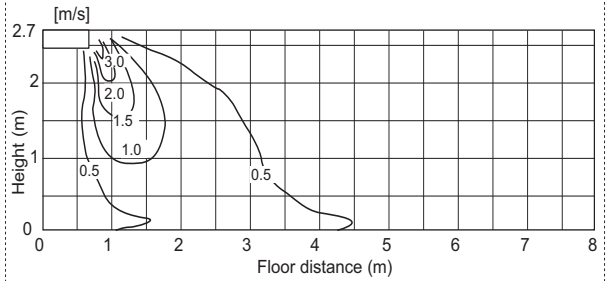
<Cooling mode>

Flow angle : 10°  
Temperature setting : 27°C  
High notch  
Ceiling height : 2.7m



<Heating mode>

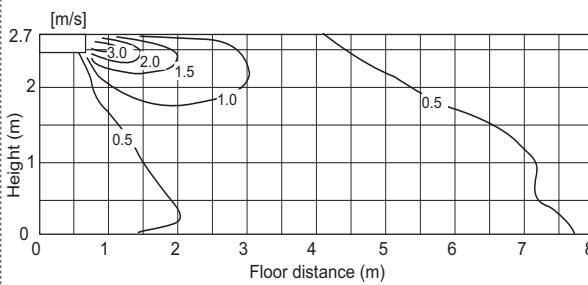
Flow angle : 60°  
Temperature setting : 27°C  
High notch  
Ceiling height : 2.7m



**PCFY-P100, 125VKM-E**

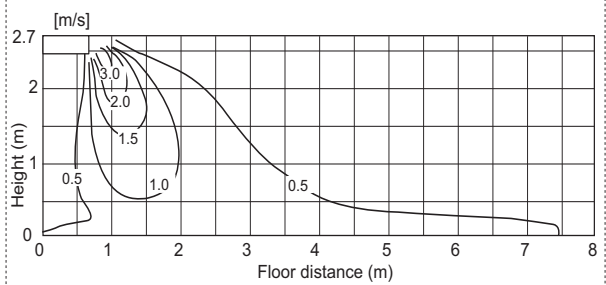
<Fan mode>

Flow angle : 10°  
Temperature setting : 27°C  
High notch  
Ceiling height : 2.7m



<Fan mode>

Flow angle : 60°  
Temperature setting : 27°C  
High notch  
Ceiling height : 2.7m



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.



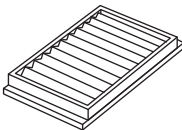
## 8. OPTIONAL PARTS

EP-YKM

### 8-1. Optional parts line up for the Indoor unit

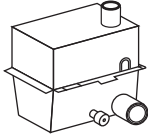
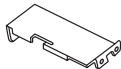



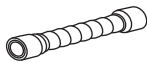

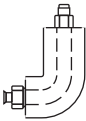


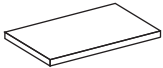
	High-efficiency filter	Wireless remote controller kit	Drain pump
PCFY-P40VKM-E	PAC-SH88KF-E	PAR-SL94B-E	PAC-SH83DM-E
PCFY-P63VKM-E	PAC-SH89KF-E	PAR-SL94B-E	PAC-SH84DM-E
PCFY-P100,125VKM-E	PAC-SH90KF-E	PAR-SL94B-E	PAC-SH84DM-E

### 8-2. High efficiency filter

Material: PP honeycomb Gravimetric method: 70%			
Item	PAC-SH88KF-E	PAC-SH89KF-E	PAC-SH90KF-E
Quantity	2 (Small)	1 (Small), 2 (Large)	2 (Large)
Shape			

### 8-3. Drain pump

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed.  
Drain pump PAC-SH-DM-E can pump water up to 600 mm high from the ceiling.

Item	① Drain lift up mechanism	② Attachment	③ Screws (4×10)	④ VP-20 pipe	⑤ Pipe cover
Quantity	1	1	6	1	1
Shape		 1 Drain lift up mechanism fixture	 For the installation of drain lift up mechanism 1		 For insulation of VP20 pipe4
Item	⑥ Flexible hose	⑦ Fastener	⑧ L-shaped pipe (gas pipe)	⑨ L-shaped pipe (liquid pipe)	⑩ Insulator A
Quantity	1	1	1	1	2
Shape					6t×220×80 (For internal insulation)  For the insulation of L-shaped pipes ⑧ and ⑨ and the refrigerant pipes.
Item	⑪ Insulator B				
Quantity	2				
Shape	3t×250×120 (For external insulation)  For the insulation of L-shaped pipes ⑧ and ⑨ and the refrigerant pipes.				

Detailed installation information should be referred to its Installation Manual (RG79V973H02).

### 8-4. Wireless remote controller kit

Wireless remote controller receiver is built-in type.

Item	① Wireless remote controller receiver	② Wireless remote controller	③ Remote control holder	④ "AAA" LR3 alkaline batterie	⑤ 4.1 x 16 wood screw
Quantity	1	1	1	2	2
Item	⑥ Cord retaining clips	⑦ Connection cord fixing seal (12x30 size)			
Quantity	2	1			

Detailed installation information should be referred to its Installation Manual (RG79V995H02).

**PKFY-P-VBM-E, PKFY-P-VHM-E, PKFY-P-VKM-E**

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# 1. SPECIFICATIONS

EP-YKM

Model		PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E		
Power source		1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity (Nominal)	*1 kW	1.7	2.2	2.8	3.6		
	*1 kcal / h	1,450	1,900	2,400	3,100		
	*1 BTU / h	5,800	7,500	9,600	12,300		
	*2 kcal / h	1,500	2,000	2,500	3,150		
(220V)	Power input *4 kW	0.04	0.04	0.04	0.04		
	Current input *4 A	0.20	0.20	0.20	0.40		
Heating capacity (Nominal)	*3 kW	1.9	2.5	3.2	4.0		
	*3 kcal / h	1,600	2,200	2,800	3,400		
	*3 BTU / h	6,500	8,500	10,900	13,600		
	Power input kW	0.04	0.04	0.04	0.03		
(220V)	Current input A	0.20	0.20	0.20	0.30		
External finish		Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)		
External dimension HxWxD		mm	295x815x225	295x815x225	295x898x249		
		in.	11-5/8 x 32-1/8 x 8-7/8	11-5/8 x 32-1/8 x 8-7/8	11-5/8 x 35-3/8 x 9-13/16		
Net weight		kg(lbs)	10 (23)	10 (23)	13(29)		
Heat exchanger		Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	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	
	External static press.	Pa	0	0	0	0	
		mmH <sub>2</sub> O	0	0	0	0	
	Motor Type		1-phase induction motor	1-phase induction motor	1-phase induction motor	DC motor	
	Motor output		kW	0.017	0.017	0.017	0.030
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-drive	
	Airflow rate (Low-Mid2-Mid-High)	m <sup>3</sup> / min	4.9-5.0-5.2-5.3	4.9-5.2-5.6-5.9	4.9-5.2-5.6-5.9	9-10-11	
		L/s	82-83-87-88	82-87-93-98	82-87-93-98	150-167-183	
cfm		173-177-184-187	173-184-198-208	173-184-198-208	318-353-388		
Sound pressure level (measured in anechoic room)		dB <A>	29-31-32-33	29-31-34-36	29-31-34-36	34-37-41	
Insulation material		Polyethylene sheet	Polyethylene sheet	Polyethylene sheet	Polyethylene sheet		
Air filter		PP honeycomb	PP honeycomb	PP honeycomb	PP honeycomb		
Protection device		Fuse	Fuse	Fuse	Fuse		
Refrigerant control device		LEV	LEV	LEV	LEV		
Connectable outdoor unit		PURY-P-Y(S)JM-A PUHY-P-Y(S)JM-A PUMY-P100~140VHMB PUMY-P100~140YHMB PQRY-P-Y(S)HM-A PQHY-P-Y(S)HM-A	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI		
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare	
	Gas (R410A)	mm(in.)	12.70(1/2) Flare	12.70(1/2) Flare	12.70(1/2) Flare	12.70(1/2) Flare	
Field drain pipe size		mm(in.)	I.D. 16(5/8)	I.D. 16(5/8)	I.D. 16(5/8)	I.D. 16(5/8)	
Drawing	External		-	-	-	-	
	Wiring		-	-	-	-	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		-	-	-	-	
Optional parts	External LEV Box		PAC-SG95LE-E	PAC-SG95LE-E	PAC-SG95LE-E	-	
	Drain pump		-	-	-	PAC-SH75DM-E	
Remarks		* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.					

PKFY

Notes :	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal cooling conditions	*3 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
	Indoor : 27degC D.B. / 19degC W.B. (81degF D.B. / 66degF W.B.)	27degC D.B. / 19.5degC W.B. (81degF D.B. / 67degF W.B.)	20degC D.B. (68degF D.B.)	kcal/h = kW x 860
	Outdoor : 35degC D.B. (95degF D.B.)	35degC D.B. (95degF D.B.)	7degC D.B. / 6degC W.B. (45degF D.B. / 43degF W.B.)	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 <sup>3</sup> /min x 35.31
	Level difference : 0 m (0 ft.)	0 m (0 ft.)	0 m (0 ft.)	lbs = kg / 0.4536
				*The specification data is subject to rounding variation.
*4 Electrical characteristic of cooling are included optional drain-pump. (Applicable only to PKFY-P32VHM-E)				

# 1. SPECIFICATIONS

EP-YKM

Model			PKFY-P40VHM-E	PKFY-P50VHM-E	PKFY-P63VKM-E	PKFY-P100VKM-E		
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity (Nominal)	*1	kW	4.5	5.6	7.1	11.2		
		kcal / h	3,900	4,800	6,100	9,600		
		BTU / h	15,400	19,100	24,200	38,200		
	(220V)	*2	kcal / h	4,000	5,000	6,300	10,000	
			Power input	*4 kW	0.04	0.04	0.05	0.08
			Current input	*4 A	0.40	0.40	0.37	0.58
Heating capacity (Nominal)	*3	kW	5.0	6.3	8.0	12.5		
		kcal / h	4,300	5,400	6,900	10,800		
		BTU / h	17,100	21,500	27,300	42,600		
	(220V)	*3	Power input	kW	0.03	0.03	0.04	0.07
			Current input	A	0.30	0.30	0.30	0.51
			External finish	Plastic, MUNSELL (1.0Y 9.2/0.2)		Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)
External dimension HxWxD	mm	295x898x249		295x898x249	365x1170x295	365x1170x295		
	in.	11-5/8 x 35-3/8 x 9-13/16		11-5/8 x 35-3/8 x 9-13/16	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8		
Net weight	kg(lbs)	13(29)		13(29)	21(46)	21(46)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	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	
	External static press.	Pa	0		0		0	
		mmH <sub>2</sub> O	0		0		0	
	Motor Type		DC motor		DC motor		DC motor	
	Motor output		kW		0.030		0.056	
	Driving mechanism		Direct-drive		Direct-drive		Direct-drive	
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min	9-10.5-11.5		9-10.5-12		16-20	
		L/s	150-175-192		150-175-200		267-333	
		cfm	318-371-406		318-371-424		565-706	
Sound pressure level (measured in anechoic room)			dB <A>		34-38-41		34-39-43	
Insulation material			Polyethylene sheet		Polyethylene sheet		Polyethylene sheet	
Air filter			PP honeycomb		PP honeycomb		PP honeycomb	
Protection device			Fuse		Fuse		Fuse	
Refrigerant control device			LEV		LEV		LEV	
Connectable outdoor unit			R410A CITY MULTI		R410A CITY MULTI		R410A CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A)	mm(in.)	6.35(1/4) Flare		6.35(1/4) Flare		9.52(3/8) Flare	
	Gas (R410A)	mm(in.)	12.70(1/2) Flare		12.70(1/2) Flare		15.88(5/8) Flare	
Field drain pipe size			mm(in.)		I.D. 16(5/8)		I.D. 16(5/8)	
Drawing	External		-		-		-	
	Wiring		-		-		-	
	Refrigerant cycle		-		-		-	
Standard attachment	Document		Installation Manual, Instruction Book		Installation Manual, Instruction Book		Installation Manual, Instruction Book	
	Accessory		-		-		-	
Optional parts	External LEV Box		PAC-SG95LE-E		PAC-SG95LE-E		PAC-SG95LE-E	
	Drain pump		PAC-SH75DM-E		PAC-SH75DM-E		PAC-SH94DM-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.					

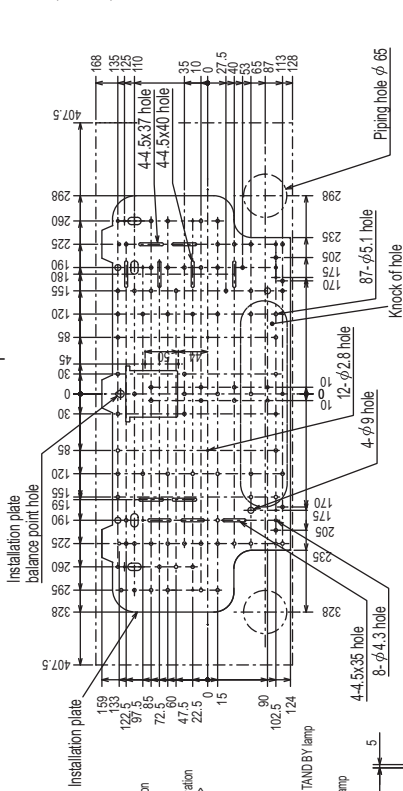
Notes :	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal cooling conditions	*3 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
Indoor :	27degC D.B. / 19degC W.B. (81degF D.B. / 66degF W.B.)	27degC D.B. / 19.5degC W.B. (81degF D.B. / 67degF W.B.)	20degC D.B. (68degF D.B.)	kcal/h = kW x 860
Outdoor :	35degC D.B. (95degF D.B.)	35degC D.B. (95degF D.B.)	7degC D.B. / 6degC W.B. (45degF D.B. / 43degF W.B.)	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.)	lbs = kg / 0.4536
				*The specification data is subject to rounding variation.
*4 Electrical characteristic of cooling are included optional drain-pump.				

PKFY

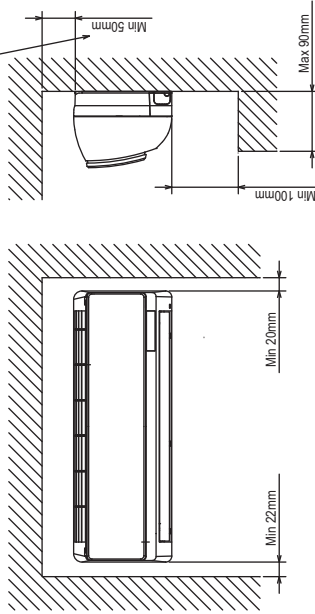
PKFY-P15, 20, 25VBM-E

Unit : mm

Detail of installation plate



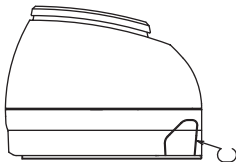
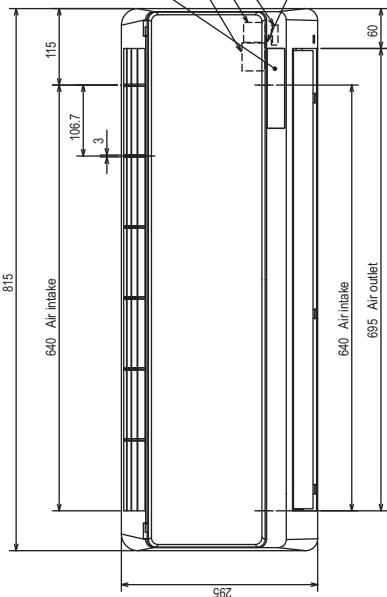
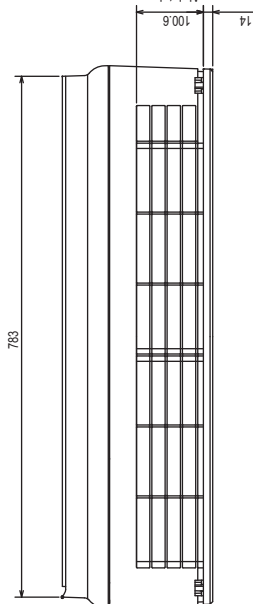
Installation space



Note.1 Use M10 or W3/8 screw for installation plate.  
 Note.2 Extension piping side.  
 Note.3 In case of connecting MA-remote controller, please connect MA-remote controller cable (accessory) to the connector.

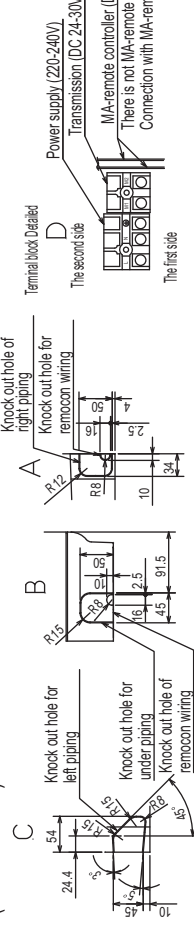
Refrigerant piping	Liquid pipe	1/4F (φ 6.35mm)
	Gas pipe	1/2F (φ 12.7mm)
	Drain pipe	φ 16mm(LD)

PKFY



Effective length 640 (Drain hose)

Detailed figure dwg(A B C) (Knock out hole)



Knock out hole of right piping

Knock out hole for remoon wiring

Knock out hole for left piping

Knock out hole for under piping

Knock out hole of remoon wiring

Terminal block Detailed

The second site

The first site

Power supply (220-240V) Transmission (DC 24-30V)

MA-remote controller (DC8.7-13V)

There is not MA-remote controller terminal block

Connection with MA-remote controller refers to Note.3

Installation plate

Terminal block

Address board

Address board Detailed

Connection No. Address setting digit

Mode selection

\* Address board is protected With PL cover.

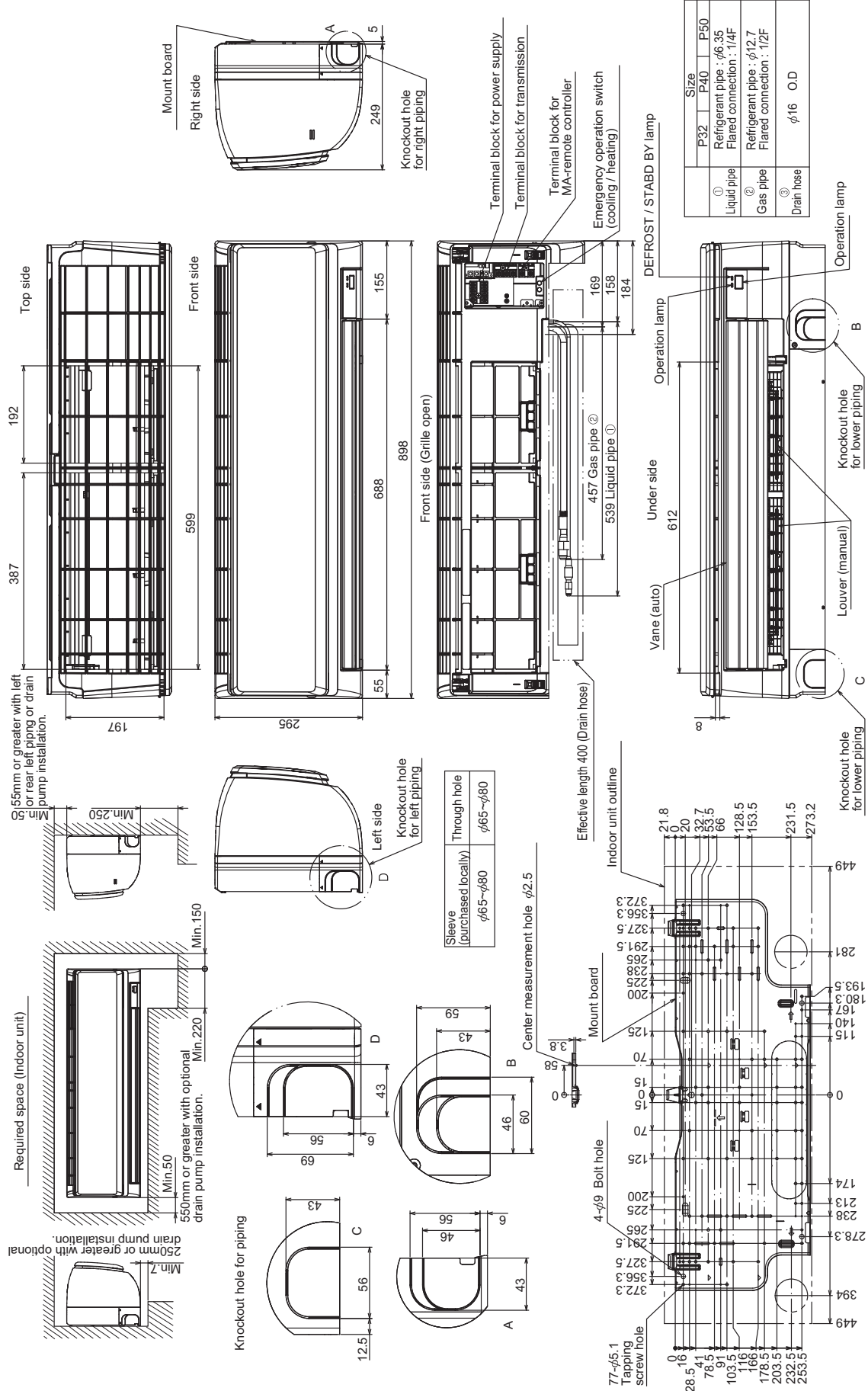
Remove the screw with driver on the occasion of setting.

# 2. EXTERNAL DIMENSIONS

EP-YKM

PKFY-P32, 40, 50VHM-E

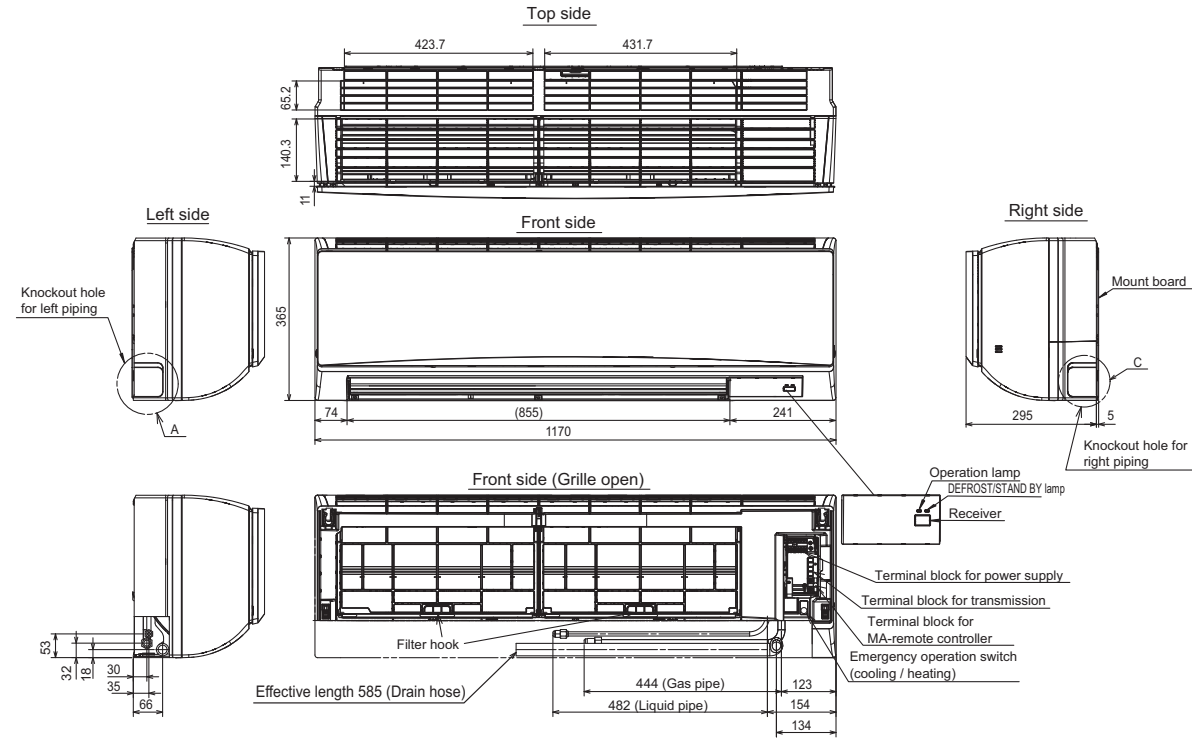
Unit : mm



PKFY

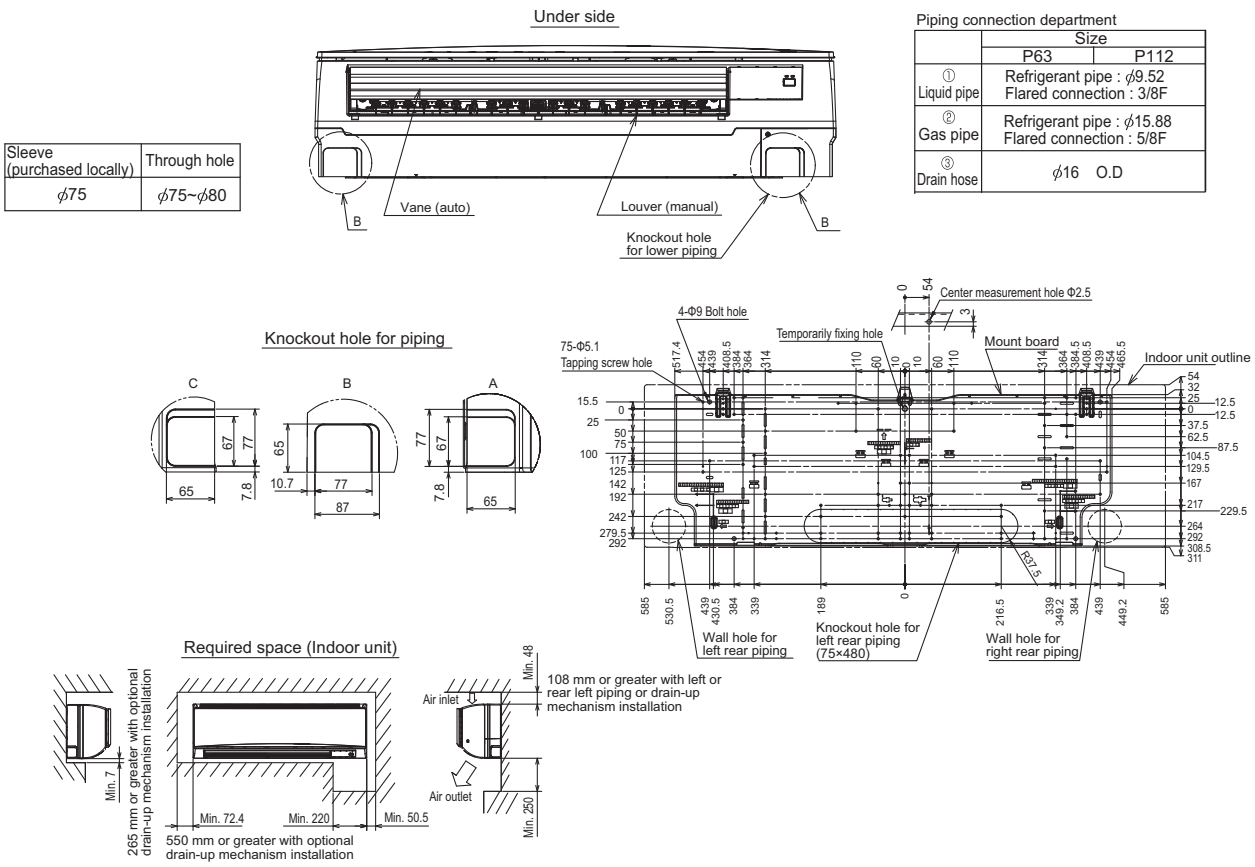
## PKFY-P63, 100VKM-E

Unit : mm



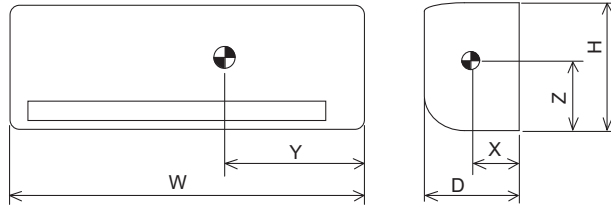
Sleeve (purchased locally)	Through hole
φ75	φ75~φ80

	Piping connection department	
	P63	P112
① Liquid pipe	Refrigerant pipe : φ9.52 Flared connection : 3/8F	
② Gas pipe	Refrigerant pipe : φ15.88 Flared connection : 5/8F	
③ Drain hose	φ16 O.D	



PKFY

PKFY-P-VBM-E, VHM-E, VKM-E



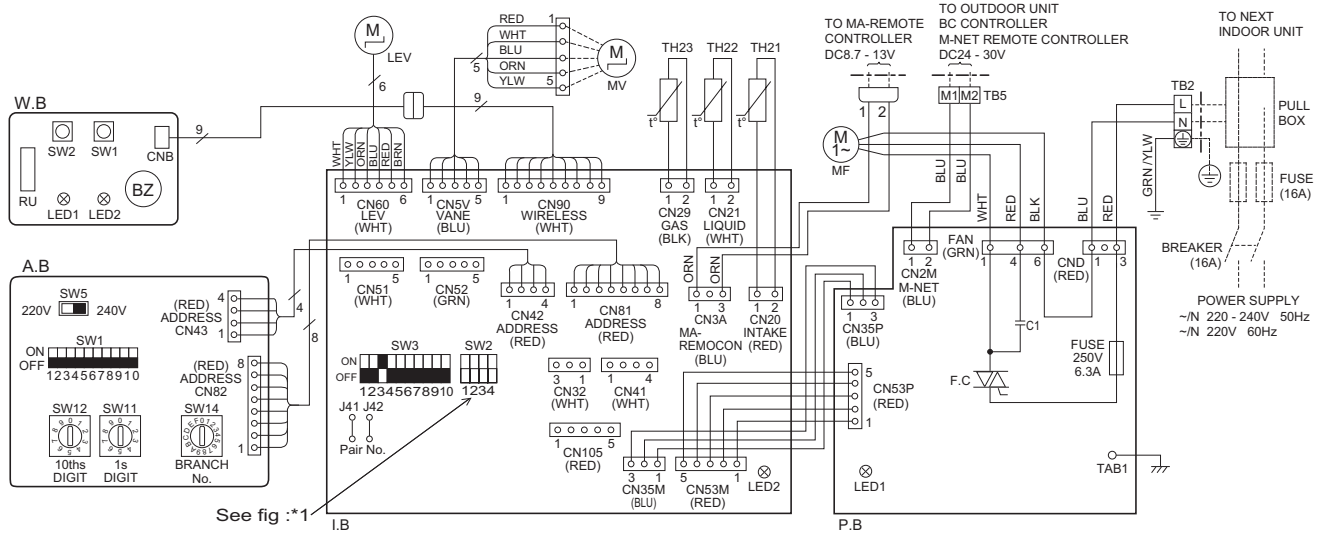
Model	W	D	H	X	Y	Z
PKFY-P15VBM-E	815	225	295	120	300	150
PKFY-P20VBM-E	815	225	295	120	300	150
PKFY-P25VBM-E	815	225	295	120	300	150
PKFY-P32VHM-E	898	249	295	120	390	160
PKFY-P40VHM-E	898	249	295	120	390	160
PKFY-P50VHM-E	898	249	295	120	390	160
PKFY-P63VKM-E	1170	295	365	190	460	190
PKFY-P100VKM-E	1170	295	365	190	460	190



## PKFY-P15, 20, 25VBM-E

### Legend

Symbol	Name	Symbol	Name	Symbol	Name
I.B	Indoor controller board	MV	Vane motor	SW5	Switch
CN32	Connector	LEV	Linear expansion valve	SW11	Address setting 1s digit
CN51	Centrally control	TB2	Terminal block	SW12	Address setting 10ths digit
CN52	Remote indication	TB5	Terminal block	SW14	Branch No.
CN105	IT Terminal	TH21	Thermistor	W.B	Wireless remote controller board
SW2	Switch	TH22	Room temp,detection (0°C/15kΩ,25°C/5.4kΩ)	RU	Receiving unit
SW3	Capacity code	TH22	Pipe temp,detection/Liquid (0°C/15kΩ,25°C/5.4kΩ)	BZ	Buzzer
	Mode selection	TH22	Pipe temp,detection/Gas (0°C/15kΩ,25°C/5.4kΩ)	LED1	LED (Operation indicator:Green)
P.B	Indoor power board	TH23		LED2	LED (Preparation for heating:Orange)
FUSE	Fuse (T6.3AL 250V)			SW1	Emergency operation (Heat)
F.C	Fan phase control	A.B	Address board	SW2	Emergency operation (Cool)
C1	Capacitor (Fan motor)	SW1	Switch		
MF	Fan motor		Mode selection		



### Note

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-remote controller, please connect MA remote controller cable in an accessory to the connector . (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5 (Transmission line is non-polar.)
- 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.

### LED on indoor board for service

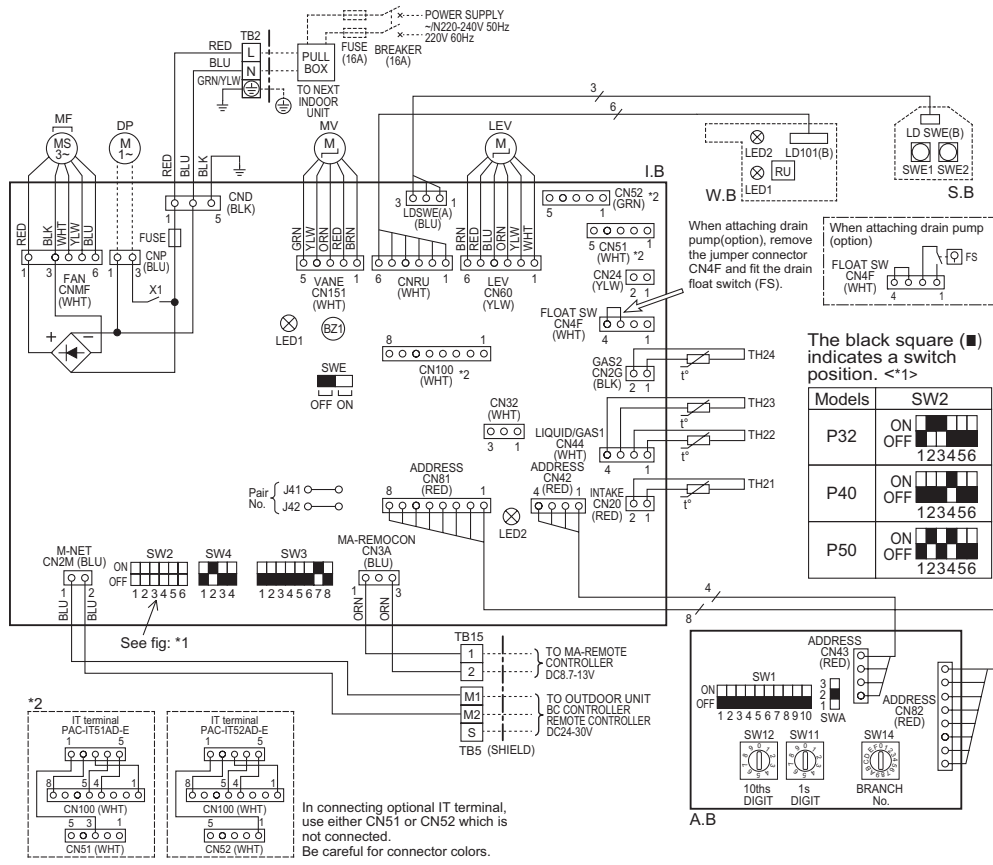
Mark	Meaning	Function
LED1	Main power supply	Main power supply (Indoor unit : 220-240V) power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

The black square (■) indicates a switch position. < \*1 >

Models	SW2	Models	SW2	Models	SW2
P15	ON OFF	P20	ON OFF	P25	ON OFF

## PKFY-P32, 40, 50VHM-E

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH21	THERMISTOR ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR REMOTE SWITCH	TH22	PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
CN51	CENTRALLY CONTROL	TH23	PIPE TEMP. DETECTION / GAS1 (0°C/15kΩ, 25°C/5.4kΩ)
CN52	REMOTE INDICATION	TH24	PIPE TEMP. DETECTION / GAS2 (0°C/15kΩ, 25°C/5.4kΩ)
CN100	IT TERMINAL	A.B	ADDRESS BOARD
BZ1	BUZZER	SWA	SWITCH FAN SPEED SELECTOR
FUSE	FUSE (T3.15AL 250V)	SW1	SWITCH MODE SELECTION
LED1	POWER SUPPLY (I.B)	SW11	SWITCH ADDRESS SETTING 1s DIGIT
LED2	POWER SUPPLY (I.B)	SW12	SWITCH ADDRESS SETTING 10ths DIGIT
SW2	SWITCH CAPACITY CODE	SW14	SWITCH BRANCH No.
SW3	SWITCH MODE SELECTION	S.B	SWITCH BOARD
SW4	SWITCH MODEL SELECTOR	SWE1	SWITCH EMERGENCY OPERATION (HEAT)
SWE	SWITCH DRAIN PUMP (TEST MODE)	SWE2	SWITCH EMERGENCY OPERATION (COOL)
X1	AUX.RELAY DRAIN PUMP (OPTION)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
LEV	LINEAR EXPANSION VALVE	LED1	LED (OPERATION INDICATOR: GREEN)
MF	FAN MOTOR	LED2	LED (PREPARATION FOR HEATING: ORANGE)
MV	VANE MOTOR	RU	RECEIVING UNIT
TB2	TERMINAL POWER SUPPLY	DP	DRAIN PUMP (OPTION)
TB5	BLOCK TRANSMISSION	FS	DRAIN FLOAT SWITCH (OPTION)
TB15	BLOCK MA-REMOTE CONTROLLER		



The black square (■) indicates a switch position. <\*1>

Models	SW2
P32	ON OFF 123456
P40	ON OFF 123456
P50	ON OFF 123456

- 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.

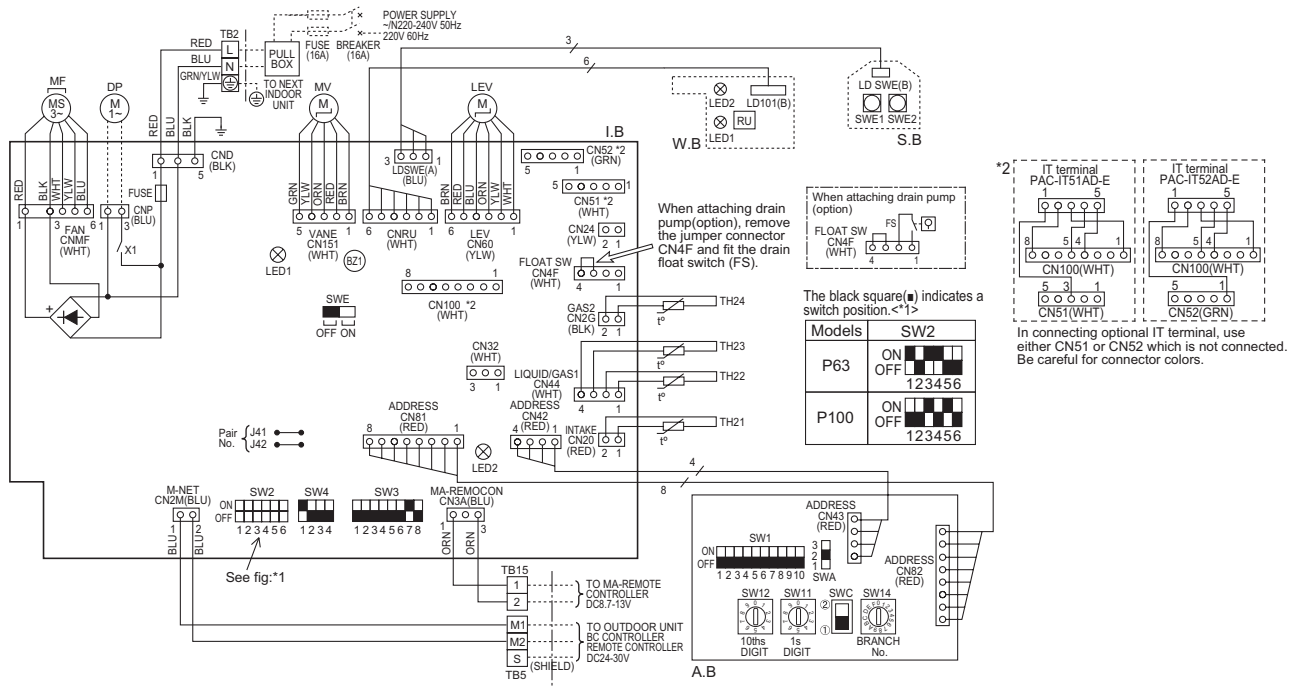
**LED on indoor board for service**

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

PKFY

## PKFY-P63, 100VKM-E

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH21	THERMISTOR ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR REMOTE SWITCH	TH22	PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
CN51	CENTRALLY CONTROL	TH23	PIPE TEMP. DETECTION / GAS1 (0°C/15kΩ, 25°C/5.4kΩ)
CN52	REMOTE INDICATION	TH24	PIPE TEMP. DETECTION / GAS2 (0°C/15kΩ, 25°C/5.4kΩ)
CN100	IT TERMINAL	A.B	ADDRESS BOARD
BZ1	BUZZER	SWA	SWITCH FAN SPEED SELECTOR
FUSE	FUSE (T3.15AL 250V)	SW1	MODE SELECTION
LED1	POWER SUPPLY(I.B)	SW11	ADDRESS SETTING 1s DIGIT
LED2	POWER SUPPLY(I.B)	SW12	ADDRESS SETTING 10ths DIGIT
SW2	SWITCH CAPACITY CODE	SW14	BRANCH No.
SW3	MODE SELECTION	S.B	SWITCH BOARD
SW4	MODEL SELECTOR	SWE1	EMERGENCY OPERATION(HEAT)
SWE	DRAIN PUMP(TEST MODE)	SWE2	EMERGENCY OPERATION(COOL)
X1	AUX.RELAY DRAIN PUMP(OPTION)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
LEV	LINEAR EXPANSION VALVE	LED1	LED(OPERATION INDICATOR:GREEN)
MF	FAN MOTOR	LED2	LED(PREPARATION FOR HEATING : ORANGE)
MV	VANE MOTOR	RU	RECEIVING UNIT
TB2	TERMINAL POWER SUPPLY	DP	DRAIN PUMP (OPTION)
TB5	BLOCK TRANSMISSION	FS	DRAIN FLOAT SWITCH (OPTION)
TB15	BLOCK MA-REMOTE CONTROLLER		



**NOTES:**

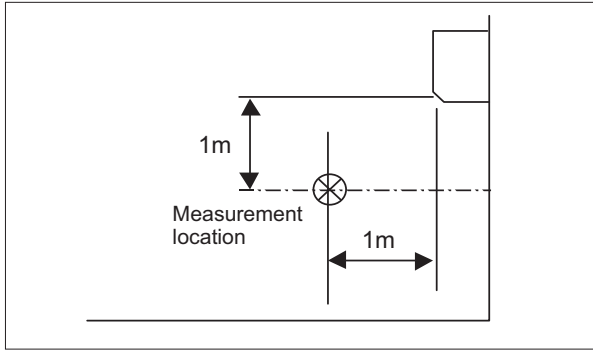
- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol [S] of TB5 is the shield 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 Power on → lamp is lit

5-1. Sound levels

Wall mounted

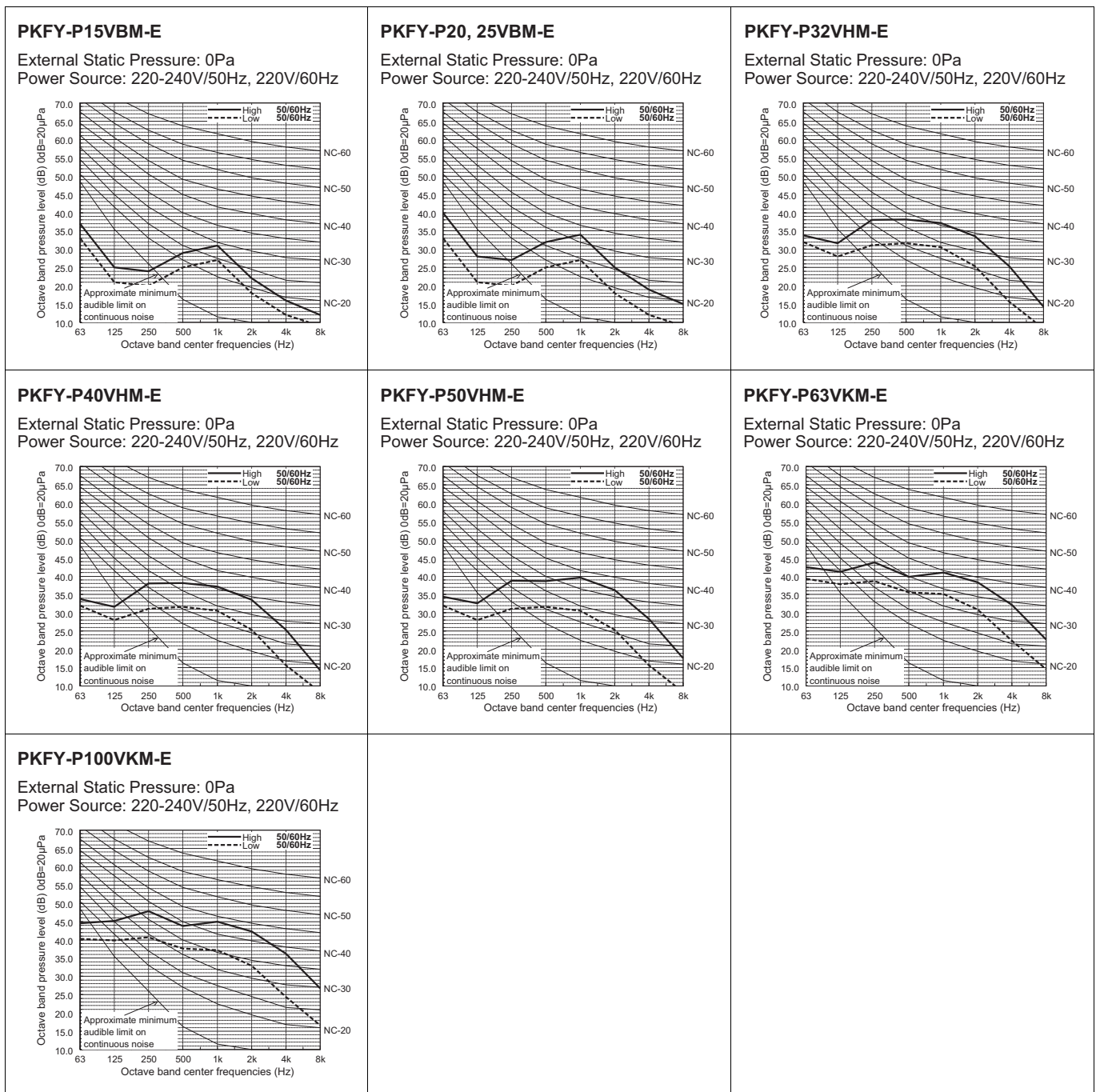


Sound level at anechoic room : Low-(Middle2-Middle)-High

Model	Sound level dB (A)
PKFY-P15VBM-E	29-31-32-33
PKFY-P20VBM-E PKFY-P25VBM-E	29-31-34-36
PKFY-P32VHM-E	34-37-41
PKFY-P40VHM-E	34-38-41
PKFY-P50VHM-E	34-39-43
PKFY-P63VKM-E	39-45
PKFY-P100VKM-E	41-49

\* Measured in anechoic room.

5-2. NC curves

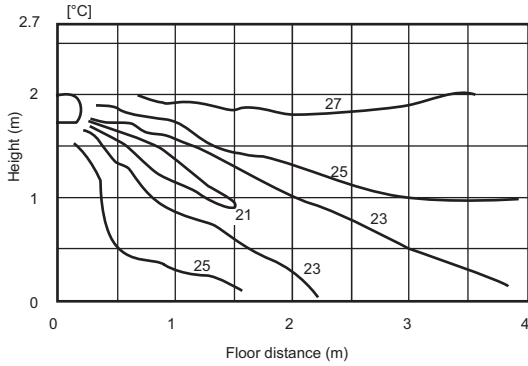


PKFY

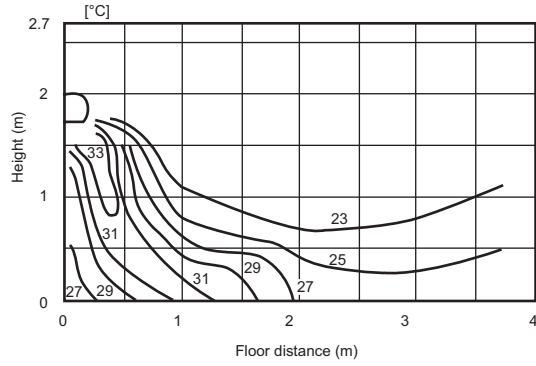
## 6-1. Temperature distributions

### PKFY-P15-25VBM-E

<Cooling mode>  
Horizontal air flow

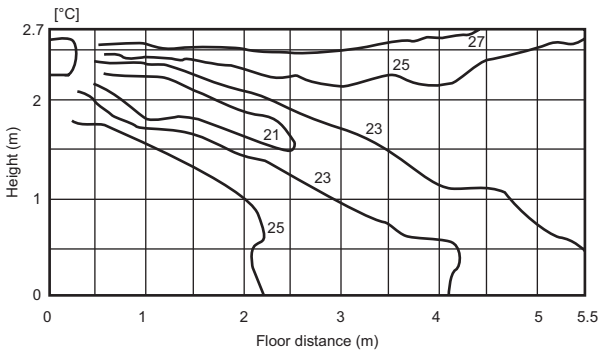


<Heating mode>  
Downward air flow

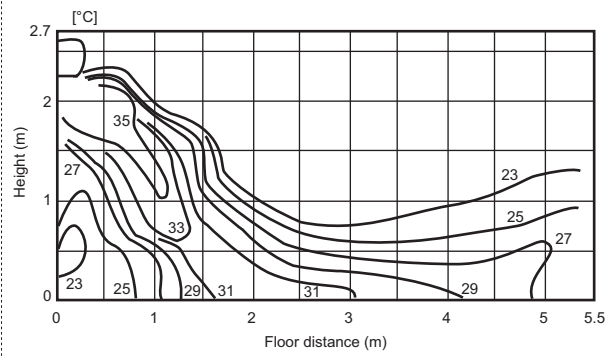


### PKFY-P32-50VHM-E

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Horizontal air flow

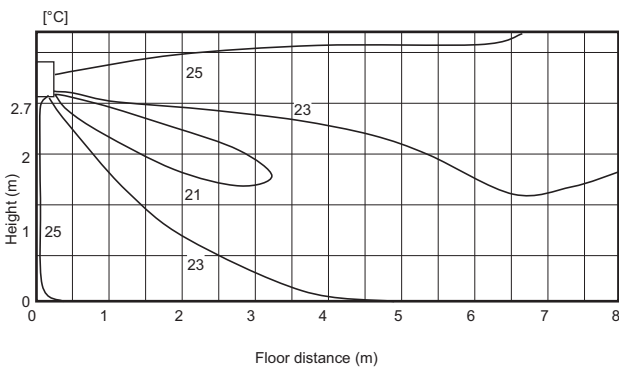


<Heating mode>  
Downward air flow

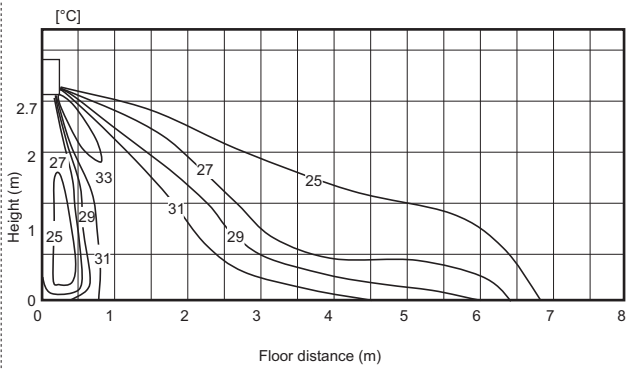


### PKFY-P63, 100VKM-E

<Cooling mode>  
Horizontal air flow



<Heating mode>  
Downward air flow



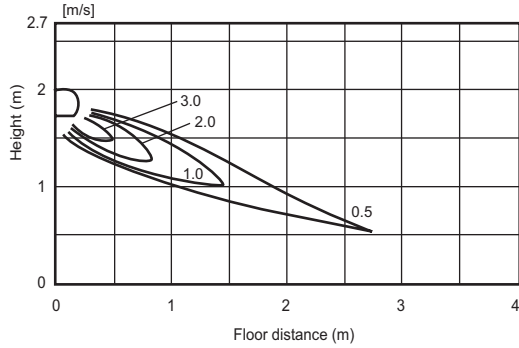
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

PKFY

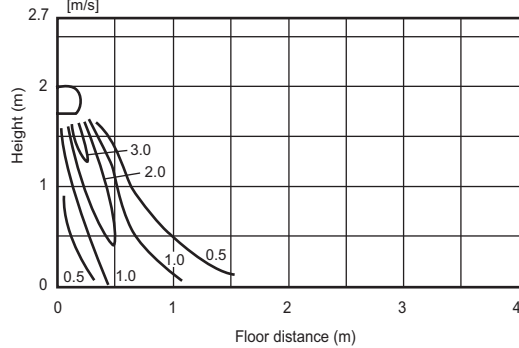
6-2. Airflow distributions

PKFY-P15-25VBM-E

<Fan mode>  
Horizontal air flow

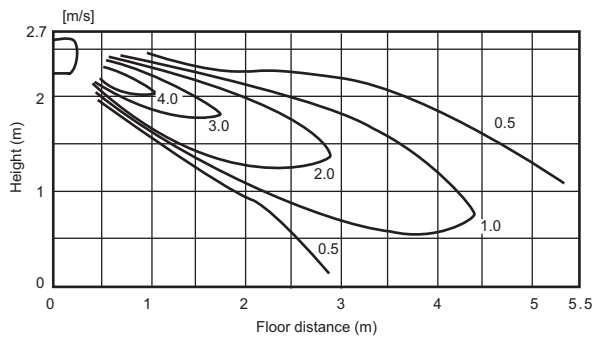


<Fan mode>  
Downward air flow

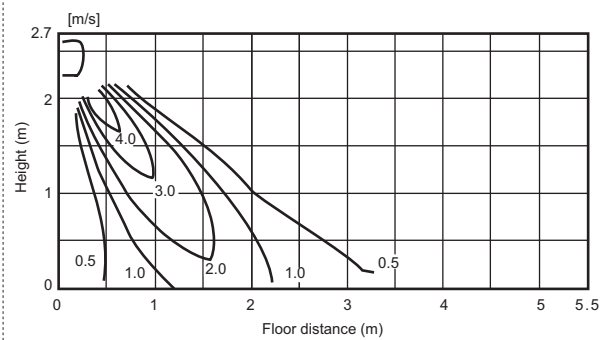


PKFY-P32-50VHM-E

<Fan mode>  
Horizontal air flow

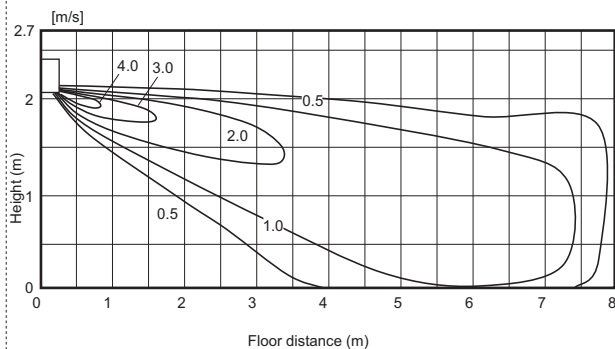


<Fan mode>  
Downward air flow

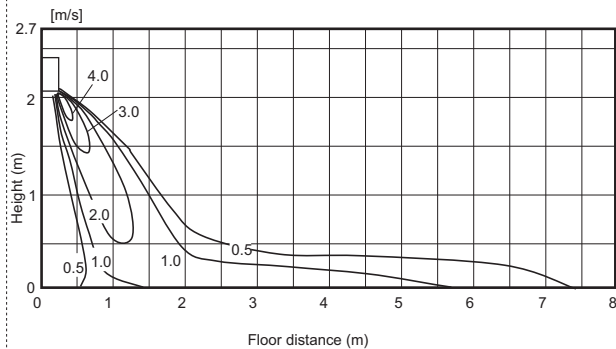


PKFY-P63, 100VKM-E

<Fan mode>  
Horizontal air flow



<Fan mode>  
Downward air flow

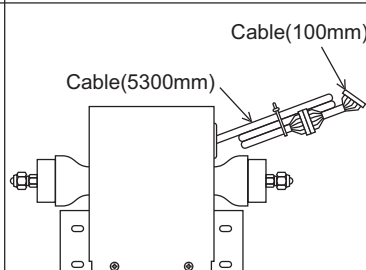
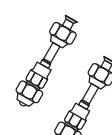
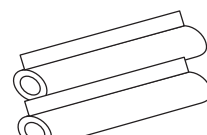




Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

## 7-1. Optional parts line up for the Indoor unit

	External LEV Box	Drain pump
PKFY-P15, 20, 25VBM-E	PAC-SG95LE-E	—
PKFY-P32, 40, 50VHM-E	PAC-SG95LE-E	PAC-SH75DM-E
PKFY-P63, 100VKM-E	PAC-SG95LE-E (For P63 only)	PAC-SH94DM-E

## 7-2. External LEV Box

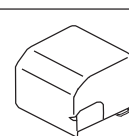

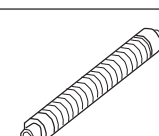
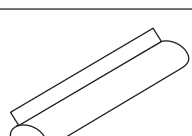

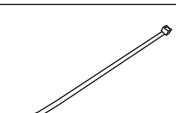
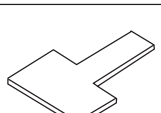
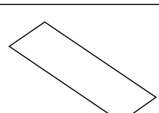
Item	① External LEV Box	② Joint pipe	③ Pipe cover	④ Band	⑤ Fastener
Quantity	1	2	2	2	2
Shape					

Detailed installation information should be referred to its Installation Manual (RG79A417K01)

## 7-3. Drain pump

### PAC-SH75DM-E

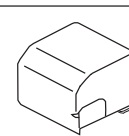

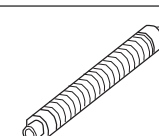
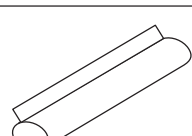

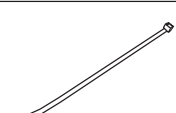
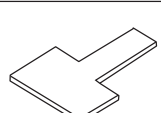
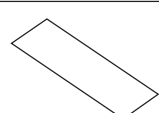
If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-SH75DM-E can pump water up to 800mm high from the drain pan.

Item	① Drain pump	② Screw	③ Drain hose	④ Drain hose cover	⑤ Hose band
Quantity	1	(M4×16)×1, (M4×35)×6	1	1	1
Shape					
Item	⑥ Band	⑦ Installation plate	⑧ Wiring diagram		
Quantity	1	1	1		
Shape					

Detailed installation information should be referred to its Installation Manual (RG79Y375H01)

### PAC-SH94DM-E

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-SH94DM-E can pump water up to 800mm high from the drain pan.

Item	① Drain pump	② Screw	③ Drain hose	④ Drain hose cover	⑤ Hose band
Quantity	1	(M4×16)×1, (M4×35)×6	1	1	1
Shape					
Item	⑥ Band	⑦ Installation plate	⑧ Wiring diagram		
Quantity	1	1	1		
Shape					

Detailed installation information should be referred to its Installation Manual (RG79Y376H01)

**PFFY-P-VKM-E2, PFFY-P-VLEM-E, PFFY-P-VLRM-E, PFFY-P-VLRMM-E**

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# 1. SPECIFICATIONS

EP-YKM

Model			PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2	
Power source			1-phase 220-230-240V 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	3,200	4,000	
	*4	Power input	kW	0.025	0.025	0.025	0.028
	*4	Current input	A	0.20	0.20	0.20	0.24
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	
	*4	Power input	kW	0.025	0.025	0.025	0.028
	*4	Current input	A	0.20	0.20	0.20	0.24
External finish			Plastic (Pure White)				
External dimension H x W x D		mm	600 x 700 x 200				
		in.	23-5/8 x 27-9/16 x 7-7/8				
Net weight		kg (lbs)	15 (34)				
Heat exchanger			Cross fin (Aluminium fin and copper tube)				
FAN	Type x Quantity		Line flow fan x 2				
	External static press.	Pa	0				
		mmH <sub>2</sub> O	0				
	Motor type		DC motor				
	Motor output		0.03 x 2				
	Driving mechanism		Direct-drive				
	Airflow rate (Low-Mid-High-SHigh)	m <sup>3</sup> / min	5.9 - 6.8 - 7.6 - 8.7	6.1 - 7.0 - 8.0 - 9.1	6.1 - 7.0 - 8.0 - 9.1	8.0 - 9.0 - 9.5 - 10.7	
L / s		98 - 113 - 127 - 145	102 - 117 - 133 - 152	102 - 117 - 133 - 152	133 - 150 - 158 - 178		
cfm		208 - 240 - 268 - 307	215 - 247 - 283 - 321	215 - 247 - 283 - 321	283 - 318 - 335 - 378		
Sound pressure level (Low-Mid-High-SHigh) (measured in anechoic room) *4		dB <A>	27 - 31 - 34 - 37	28 - 32 - 35 - 38	28 - 32 - 35 - 38	35 - 38 - 42 - 44	
Insulation material			Polyethylene sheet				
Air filter			PP honeycomb fabric (Catechin air filter)				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare				
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare				
Field drain pipe size		mm (in.)	I.D. 16mm (5/8)				
Drawing	External		IU-BK01-B517				
	Wiring		IU-RG79-V367				
	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.				
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31		
		Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = 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.					
		*4 The values are measured at the rated external static pressure.					

PFFY

# 1. SPECIFICATIONS

EP-YKM

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																				
	*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																				
	*4	Power input	kW	0.04 / 0.06	0.04 / 0.06	0.06 / 0.07	0.065 / 0.075																			
*4	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																				
	*3	kcal / h	2,200	2,800	3,400	4,300																				
	*3	BTU / h	8,500	10,900	13,600	17,100																				
	*4	Power input	kW	0.04 / 0.06	0.04 / 0.06	0.06 / 0.07	0.065 / 0.075																			
	*4	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 (lbs)	23 (51)	23 (51)	25 (56)	26 (58)																				
Heat exchanger			Cross fin (Aluminium 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 <sub>2</sub> 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-High)	m <sup>3</sup> / 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																					
Sound pressure level (Low-High) (measured in anechoic room)	dB <A>	32 - 38 (220V)	32 - 38 (220V)	33 - 38 (220V)	36 - 41 (220V)																					
	dB <A>	33 - 39 (230V)	33 - 39 (230V)	34 - 39 (230V)	37 - 42 (230V)																					
	*4 dB <A>	34 - 40 (240V)	34 - 40 (240V)	35 - 40 (240V)	38 - 43 (240V)																					
Insulation material			Polyethylene foam, Urethane foam																							
Air filter			PP honeycomb fabric (washable)																							
Protection device			Fuse																							
Refrigerant control device			LEV																							
Connectable outdoor unit			R410A CITY MULTI																							
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare																				
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare																				
Field drain pipe size		mm (in.)	I.D. 26mm (1)																							
Drawing	External		IU-W65-3950																							
	Wiring		IU-W65-3960																							
	Refrigerant cycle		-																							
Standard attachment	Document		Installation Manual, Instruction Book																							
	Accessory		Drain hose (O.D.27mm(1-3/32), (End O.D.20mm(13/16))) (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.																							
<p><b>Note :</b></p> <table border="0"> <tr> <td>*1 Nominal cooling conditions</td> <td>*2 Nominal cooling conditions</td> <td>*3 Nominal heating conditions</td> <td>Unit converter</td> </tr> <tr> <td>Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)</td> <td>27°CDB/19.5°CWB (81°FDB/67°FWB)</td> <td>20°CDB (68°FDB)</td> <td>kcal/h = kW x 860</td> </tr> <tr> <td>Outdoor : 35°CDB (95°FDB)</td> <td>35°CDB (95°FDB)</td> <td>7°CDB/6°CWB (45°FDB/43°FWB)</td> <td>BTU/h = kW x 3,412</td> </tr> <tr> <td>Pipe length : 7.5 m (24-9/16 ft)</td> <td>5 m (16-3/8 ft)</td> <td>7.5 m (24-9/16 ft)</td> <td>cfm = m<sup>3</sup>/min x 35.31</td> </tr> <tr> <td>Level difference : 0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>lbs = kg / 0.4536</td> </tr> </table> <p>* Nominal conditions *1, *3 are subject to JIS B8615-1.          * Due to continuing improvement, above specification may be subject to change without notice.          *4 The values are measured at the rated external static pressure.</p>							*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 <sup>3</sup> /min x 35.31	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536
*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 <sup>3</sup> /min x 35.31																							
Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536																							

PFFY

# 1. SPECIFICATIONS

EP-YKM

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	
	*1	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	
		*4	Power input	kW	0.085 / 0.09	0.1 / 0.11	0.04 / 0.06
*4	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	
	*3	kcal / h	5,400	6,900	2,200	2,800	
		BTU / h	21,500	27,300	8,500	10,900	
	*4	Power input	kW	0.085 / 0.09	0.1 / 0.11	0.04 / 0.06	0.04 / 0.06
		*4	Current input	A	0.40 / 0.41	0.46 / 0.47	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 (lbs)	30 (67)	32 (71)	18.5 (41)	18.5 (41)	
Heat exchanger		Cross fin (Aluminium 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 <sub>2</sub> O	0	0	0	0	
	Motor type		1-phase induction motor				
	Motor output		kW	0.035	0.050	0.015	0.015
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-High)	m <sup>3</sup> / 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		
Sound pressure level (Low-High) (measured in anechoic room)	dB <A>	36 - 41 (220V)	38 - 44 (220V)	32 - 38 (220V)	32 - 38 (220V)		
	dB <A>	37 - 42 (230V)	39 - 45 (230V)	33 - 39 (230V)	33 - 39 (230V)		
	*4	dB <A>	38 - 43 (240V)	40 - 46 (240V)	34 - 40 (240V)	34 - 40 (240V)	
Insulation material		Polyethylene foam, Urethane foam					
Air filter		PP honeycomb fabric (washable)					
Protection device		Fuse					
Refrigerant control device		LEV					
Connectable outdoor unit		R410A CITY MULTI					
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	
Field drain pipe size		mm (in.)	I.D. 26mm (1)				
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		Drain hose (O.D.27mm(1-3/32), (End O.D.20mm(13/16))) (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.				
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31		
Level difference :		0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536		
* Nominal conditions *1, *3 are subject to JIS B8615-1 or JIS B8615-2.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							
*4 The values are measured at the rated external static pressure.							

PFFY

# 1. SPECIFICATIONS

EP-YKM

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	
	*4	Power input	kW	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
	*4	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	
	*4	Power input	kW	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
	*4	Current input	A	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
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 (lbs)	20 (45)	21 (47)	25 (56)	27 (60)	
Heat exchanger			Cross fin (Aluminium 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 <sub>2</sub> O	0	0	0	0	
	Motor type		1-phase induction motor				
	Motor output	kW	0.018	0.030	0.035	0.050	
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-High)	m <sup>3</sup> / 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		
Sound pressure level (Low-High) (measured in anechoic room)	dB <A>	33 - 38 (220V)	36 - 41 (220V)	36 - 41 (220V)	38 - 44 (220V)		
	dB <A>	34 - 39 (230V)	37 - 42 (230V)	37 - 42 (230V)	39 - 45 (230V)		
	*4 dB <A>	35 - 40 (240V)	38 - 43 (240V)	38 - 43 (240V)	40 - 46 (240V)		
Insulation material			Polyethylene foam, Urethane foam				
Air filter			PP honeycomb fabric (washable)				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	
Field drain pipe size		mm (in.)	I.D. 26mm (1)				
Drawing	External		IU-W65-3951				
	Wiring		IU-W65-3960				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Drain hose (O.D.27mm(1-3/32), (End O.D.20mm(13/16))) (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.				
<b>Note :</b>			*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 <sup>3</sup> /min x 35.31	
Level difference :			0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536	
* Nominal conditions *1, *3 are subject to JIS B8615-1 or JIS B8615-2.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							
*4 The values are measured at the factory setting of external static pressure.							

PFFY

# 1. SPECIFICATIONS

EP-YKM

Model		PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E		
Power source		1-phase 220-240V (50/60Hz)					
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	
	*1	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	
	*4	Power input	kW	0.04	0.04	0.04	0.05
*4	Current input	A	0.34	0.34	0.38	0.43	
Heating capacity (Nominal )	*3	kW	2.5	3.2	4.0	5.0	
	*3	kcal / h	2,200	2,800	3,400	4,300	
		BTU / h	8,500	10,900	13,600	17,100	
	*4	Power input	kW	0.04	0.04	0.04	0.05
	*4	Current input	A	0.34	0.34	0.38	0.43
External finish		Galvanized steel plate					
External dimension H x W x D		mm	639 x 886 x 220	639 x 886 x 220	639 x 1006 x 220	639 x 1006 x 220	
		in.	25-3/16 x 34-15/16 x 8-11/16	25-3/16 x 34-15/16 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16	
Net weight		kg (lbs)	18.5 (41)	18.5 (41)	20 (45)	21(47)	
Heat exchanger		Cross fin (Aluminium 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	20 - <40> - <60>	20 - <40> - <60>	20 - <40> - <60>	20 - <40> - <60>	
		mmH <sub>2</sub> O	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	2.0 - <4.1> - <6.1>	
	Motor type		DC brushless motor				
	Motor output		kW	0.096	0.096	0.096	0.096
	Driving mechanism		Direct-driven				
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min		4.5 - 5.5 - 6.5	4.5 - 5.5 - 6.5	6.5 - 7.5 - 9.0	8.0 - 9.5 - 11.0
		L / s		75 - 92 - 108	75 - 92 - 108	108 - 125 - 150	133 - 158 - 183
cfm		159 - 194 - 230	159 - 194 - 230	230 - 265 - 318	283 - 335 - 388		
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>		31 - 36 - 40 (20Pa)	31 - 36 - 40 (20Pa)	27 - 32 - 37 (20Pa)	30 - 36 - 40 (20Pa)	
	dB <A>		34 - 39 - 42 (40Pa)	34 - 39 - 42 (40Pa)	30 - 35 - 41 (40Pa)	32 - 38 - 42 (40Pa)	
	*4	dB <A>	35 - 40 - 43 (60Pa)	35 - 40 - 43 (60Pa)	32 - 37 - 42 (60Pa)	35 - 39 - 44 (60Pa)	
Insulation material		Polyethylene foam, Urethane foam					
Air filter		PP honeycomb fabric (washable)					
Protection device		Fuse					
Refrigerant control device		LEV					
Connectable outdoor unit		R410A CITY MULTI					
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	ø6.35 (ø1/4) Brazed	
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	ø12.7 (ø1/2) Brazed	
Field drain pipe size		mm (in.)	I.D. 26mm (1)<Accessory hose O.D.27mm(top end:O.D.20mm)>				
Drawing	External		IU-KB94-L081	IU-KB94-L081	IU-KB94-L081	IU-KB94-L081	
	Wiring		IU-KB94-G985	IU-KB94-G985	IU-KB94-G985	IU-KB94-G985	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory		Screw plate, Level adjusting screw, Strainer, Drain hose (flexible joint), Hose band				
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.				
<b>Note :</b>		*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 <sup>3</sup> /min x 35.31		
Level difference :		0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536		
* Nominal conditions *1, *3 are subject to JIS B8615-1 or JIS B8615-2.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							
*4 The values are measured at the factory setting of external static pressure.							

PFFY

# 1. SPECIFICATIONS

EP-YKM

Model			PFFY-P50VLRMM-E	PFFY-P63VLRMM-E																						
Power source			1-phase 220-240V (50/60Hz)																							
Cooling capacity (Nominal)	*1	kW	5.6	7.1																						
	*1	kcal / h	4,800	6,100																						
	*1	BTU / h	19,100	24,200																						
	*2	kcal / h	5,000	6,300																						
	*4	Power input	kW	0.05	0.07																					
*4	Current input	A	0.48	0.59																						
Heating capacity (Nominal )	*3	kW	6.3	8.0																						
	*3	kcal / h	5,400	6,900																						
	*3	BTU / h	21,500	27,300																						
	*4	Power input	kW	0.05	0.07																					
	*4	Current input	A	0.48	0.59																					
External finish			Galvanized steel plate																							
External dimension H x W x D		mm	639 x 1246 x 220	639 x 1246 x 220																						
		in.	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 (lbs)	25 (56)	27 (60)																						
Heat exchanger			Cross fin (Aluminium fin and copper tube)																							
FAN	Type x Quantity		Sirocco fan x 2		Sirocco fan x 2																					
	External static press.	Pa	20 - <40> - <60>		20 - <40> - <60>																					
		mmH <sub>2</sub> O	2.0 - <4.1> - <6.1>		2.0 - <4.1> - <6.1>																					
	Motor type		DC brushless motor																							
	Motor output		kW	0.096	0.096																					
	Driving mechanism		Direct-driven																							
	Airflow rate (Low-Mid-High)	m <sup>3</sup> / min		10.0 - 12.0 - 14.0		11.0 - 13.0-15.5																				
L / s		167 - 200 - 233		183 - 217 - 258																						
cfm		353 - 424 - 494		388 - 459 - 547																						
Sound pressure level (Low-Mid-High) (measured in anechoic room)	dB <A>		32 - 37 - 41 (20Pa)		35 - 40 - 44 (20Pa)																					
	dB <A>		35 - 40 - 44 (40Pa)		36 - 42 - 47 (40Pa)																					
	*4	dB <A>	36 - 41 - 45 (60Pa)		38 - 43 - 48 (60Pa)																					
Insulation material			Polyethylene foam, Urethane foam																							
Air filter			PP honeycomb fabric (washable)																							
Protection device			Fuse																							
Refrigerant control device			LEV																							
Connectable outdoor unit			R410A CITY MULTI																							
Diameter of refrigerant pipe	Liquid (R410A)	mm (in.)	ø6.35 (ø1/4) Brazed	ø9.52 (ø3/8) Brazed																						
	Gas (R410A)	mm (in.)	ø12.7 (ø1/2) Brazed	ø15.88 (ø5/8) Brazed																						
Field drain pipe size		mm (in.)	I.D. 26mm (1)<Accessory hose O.D.27mm(top end:O.D.20mm)>																							
Drawing	External		IU-KB94-L081	IU-KB94-L081																						
	Wiring		IU-KB94-G985	IU-KB94-G985																						
	Refrigerant cycle		-	-																						
Standard attachment	Document		Installation Manual, Instruction Book																							
	Accessory		Screw plate, Level adjusting screw, Strainer, Drain hose (flexible joint), Hose band																							
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.																							
<p><b>Note :</b></p> <table border="0"> <tr> <td>*1 Nominal cooling conditions</td> <td>*2 Nominal cooling conditions</td> <td>*3 Nominal heating conditions</td> <td>Unit converter</td> </tr> <tr> <td>Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)</td> <td>27°CDB/19.5°CWB (81°FDB/67°FWB)</td> <td>20°CDB (68°FDB)</td> <td>kcal/h = kW x 860</td> </tr> <tr> <td>Outdoor : 35°CDB (95°FDB)</td> <td>35°CDB (95°FDB)</td> <td>7°CDB/6°CWB (45°FDB/43°FWB)</td> <td>BTU/h = kW x 3,412</td> </tr> <tr> <td>Pipe length : 7.5 m (24-9/16 ft)</td> <td>5 m (16-3/8 ft)</td> <td>7.5 m (24-9/16 ft)</td> <td>cfm = m<sup>3</sup>/min x 35.31</td> </tr> <tr> <td>Level difference : 0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>0 m (0 ft)</td> <td>lbs = kg / 0.4536</td> </tr> </table> <p>* Nominal conditions *1, *3 are subject to JIS B8615-1 or JIS B8615-2.          * Due to continuing improvement, above specification may be subject to change without notice.          *4 The values are measured at the factory setting of external static pressure.</p>							*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 <sup>3</sup> /min x 35.31	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536
*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 <sup>3</sup> /min x 35.31																							
Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lbs = kg / 0.4536																							
						*Above specification data is subject to rounding variation.																				

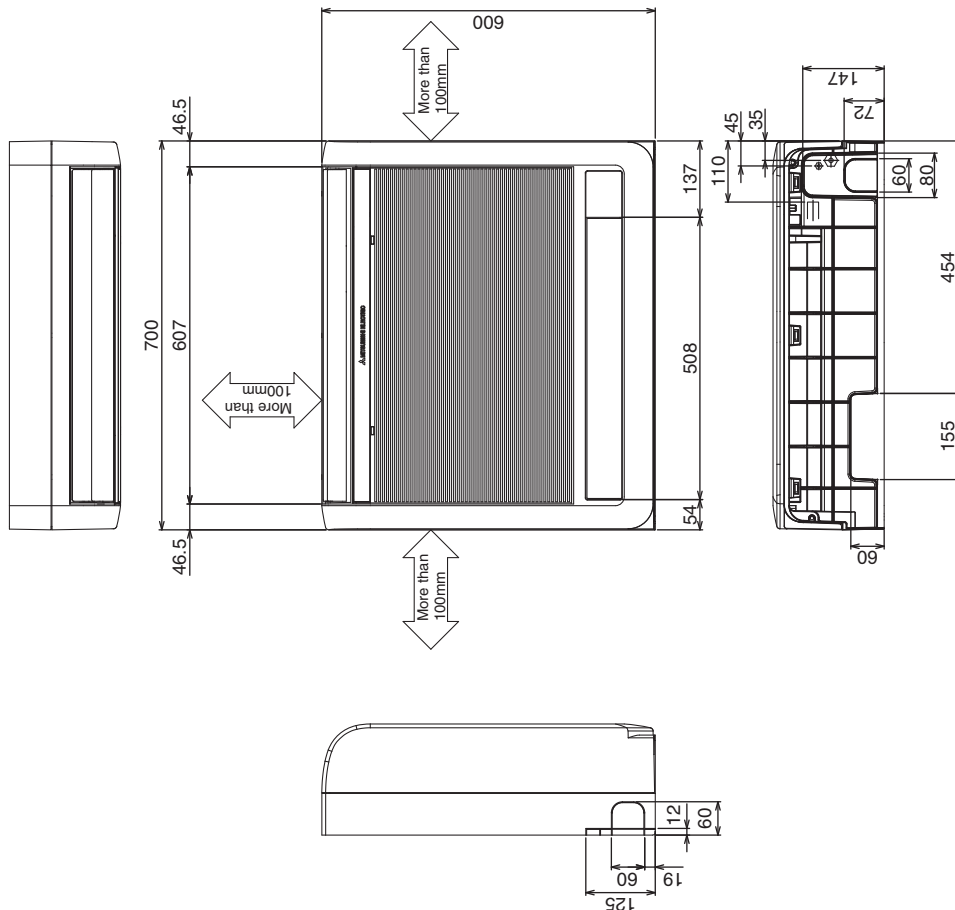
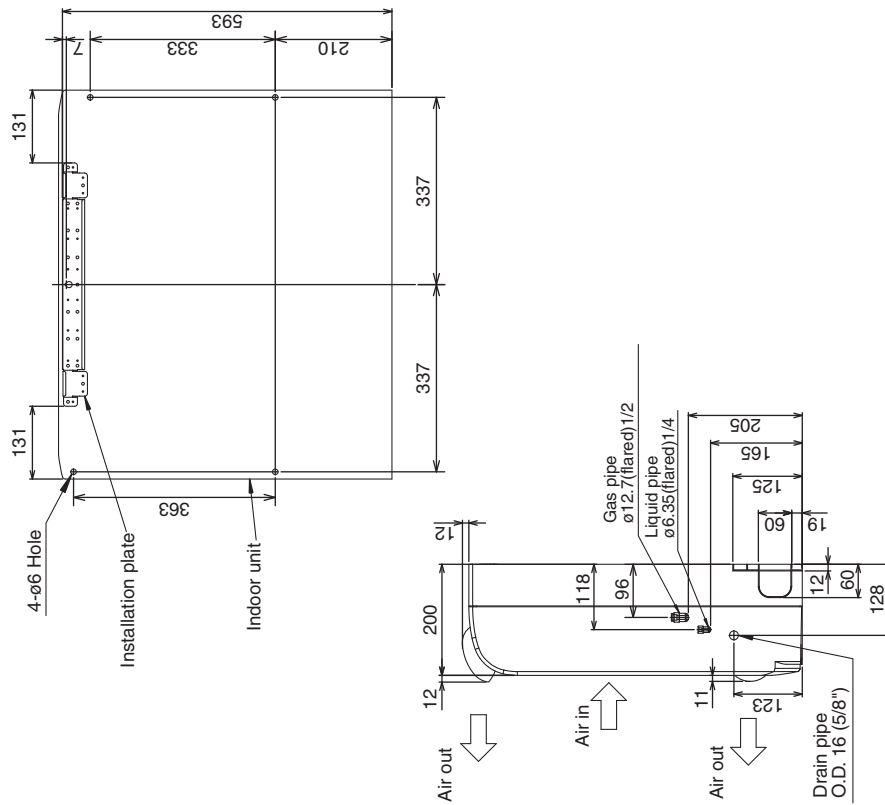
PFFY

## 2. EXTERNAL DIMENSIONS

EP-YKM

PFFY-P20, 25, 32, 40VKM-E2

Unit : mm



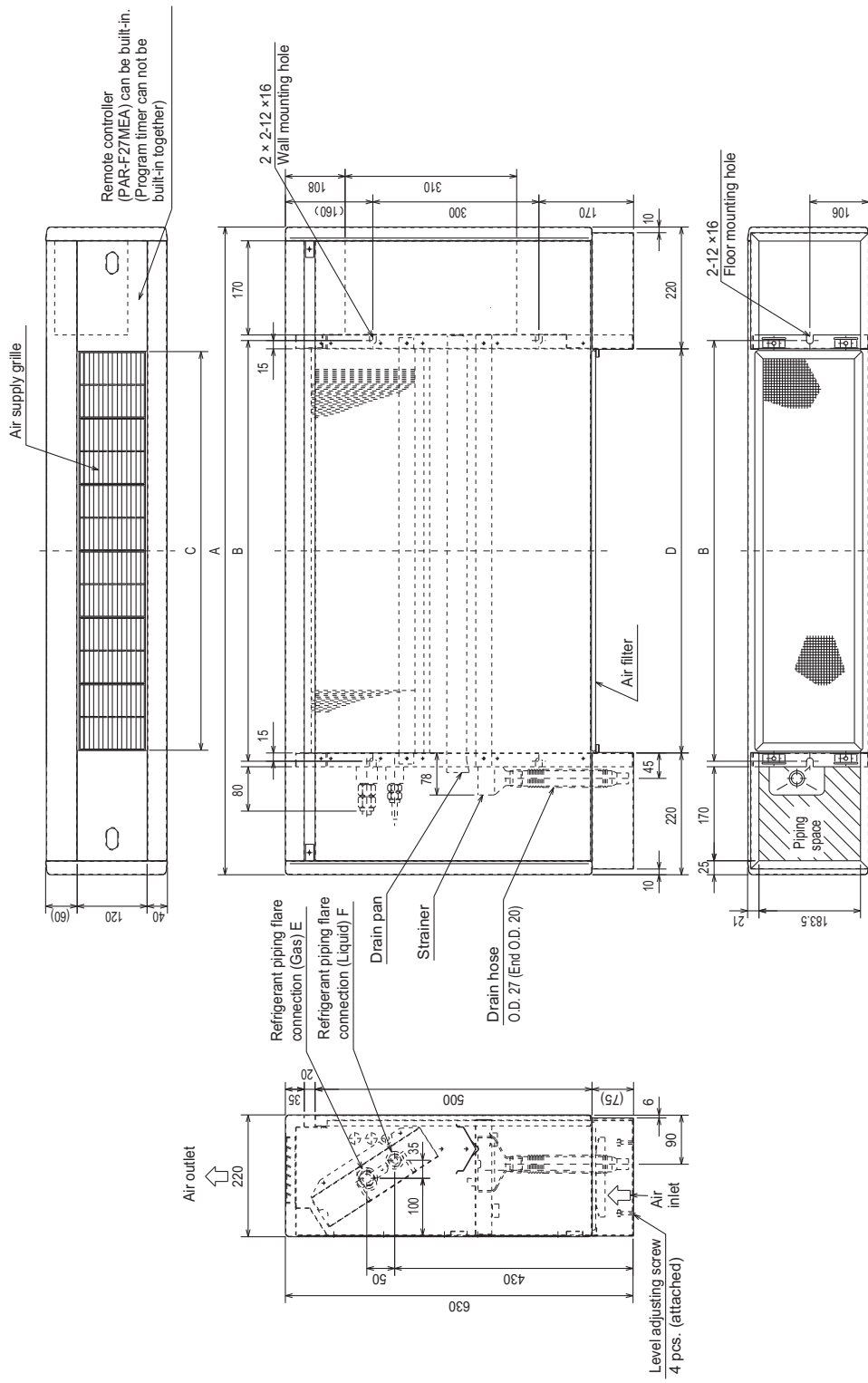
PFFY

## 2. EXTERNAL DIMENSIONS

EP-YKM

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

Unit : mm



Dimensions

Model	A	B	C	D	E (Gas)	F (Liquid)
PFFY-P20VLEM-E	1050	640	600	610	Ø12.7	Ø6.35
PFFY-P25VLEM-E	1050	640	600	610	Ø12.7	Ø6.35
PFFY-P32VLEM-E	1170	760	720	730	Ø12.7	Ø6.35
PFFY-P40VLEM-E	1170	760	720	730	Ø12.7	Ø6.35
PFFY-P50VLEM-E	1410	1000	960	970	Ø12.7	Ø6.35
PFFY-P63VLEM-E	1410	1000	960	970	Ø15.88	Ø9.52

PFFY

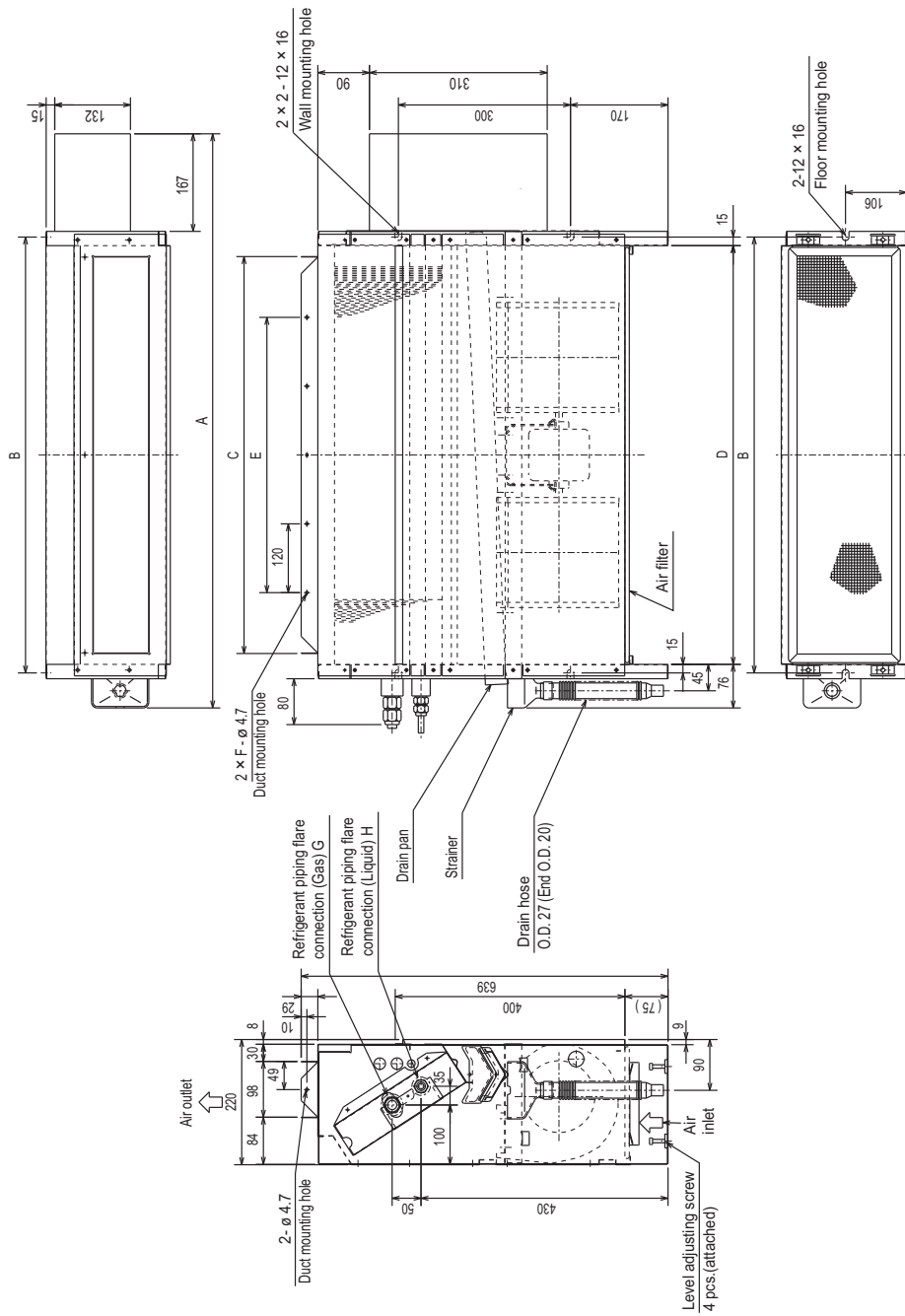


## 2. EXTERNAL DIMENSIONS

EP-YKM

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

Unit : mm



Dimensions

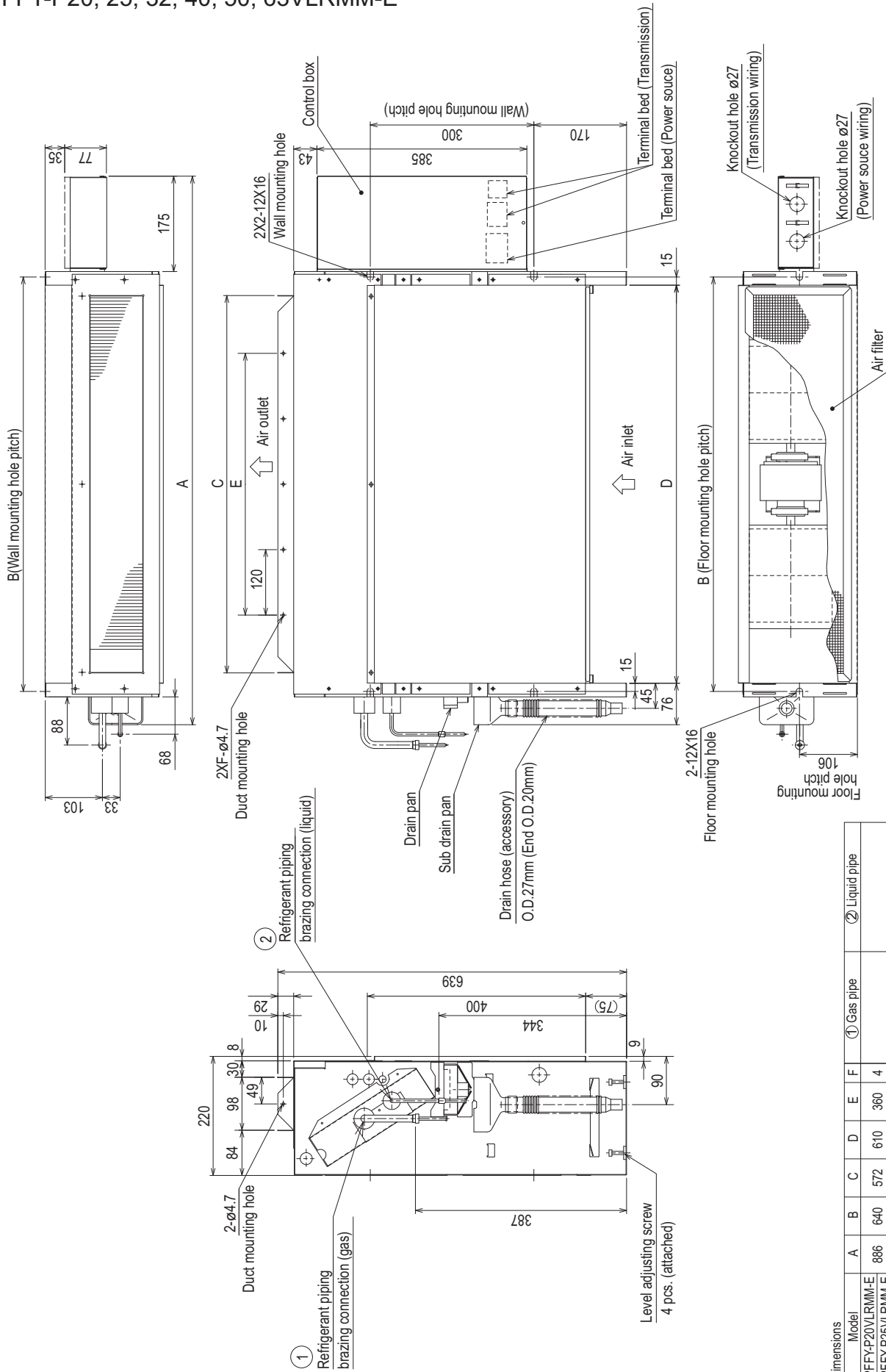
Model	A	B	C	D	E	F	G (Gas)	H (Liquid)
PFFY-P20VLRM-E	886	640	572	610	360	4	ø12.7	ø6.35
PFFY-P25VLRM-E	886	640	572	610	360	4	ø12.7	ø6.35
PFFY-P32VLRM-E	1006	760	692	730	480	5	ø12.7	ø6.35
PFFY-P40VLRM-E	1006	760	692	730	480	5	ø12.7	ø6.35
PFFY-P50VLRM-E	1246	1000	932	970	720	7	ø12.7	ø6.35
PFFY-P63VLRM-E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

# 2. EXTERNAL DIMENSIONS

EP-YKM

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

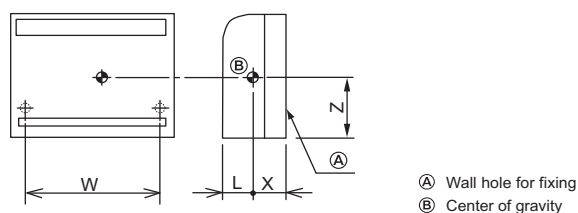
Unit : mm



Dimensions	A	B	C	D	E	F	① Gas pipe	② Liquid pipe
Model								
PFFY-P20VLRMM-E	886	640	572	610	360	4		
PFFY-P25VLRMM-E							ø12.7	ø6.35
PFFY-P32VLRMM-E	1006	760	692	730	480	5		
PFFY-P40VLRMM-E								
PFFY-P50VLRMM-E	1246	1000	932	970	720	7	ø15.88	ø9.52
PFFY-P63VLRMM-E								

PFFY

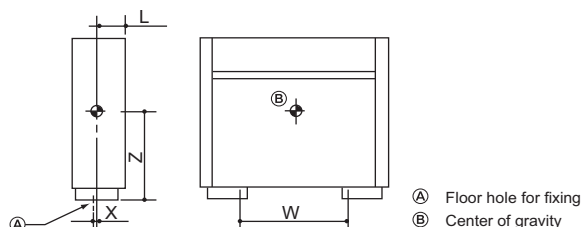
#### PFFY-P20, 25, 32, 40VKM-E2



(mm)[in]

Model name	W	L	X	Z
PFFY-P20VKM-E2	674 [26-9/16]	85 [3-3/8]	115 [4-9/16]	330 [13]
PFFY-P25VKM-E2	674 [26-9/16]	85 [3-3/8]	115 [4-9/16]	330 [13]
PFFY-P32VKM-E2	674 [26-9/16]	85 [3-3/8]	115 [4-9/16]	330 [13]
PFFY-P40VKM-E2	674 [26-9/16]	85 [3-3/8]	115 [4-9/16]	330 [13]

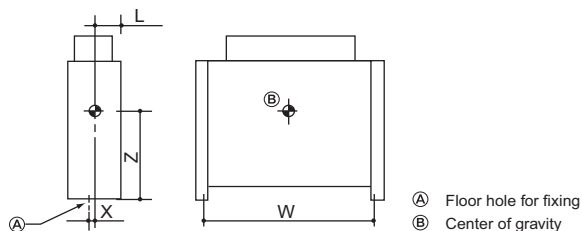
#### PFFY-P20, 25, 32, 40, 50, 63VLEM-E



(mm)[in]

Model name	W	L	X	Z
PFFY-P20VLEM-E	640 [25-1/4]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P25VLEM-E	640 [25-1/4]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P32VLEM-E	760 [29-15/16]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P40VLEM-E	760 [29-15/16]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P50VLEM-E	1000 [39-3/8]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P63VLEM-E	1000 [39-3/8]	100 [3-15/16]	17 [11/16]	335 [13-1/4]

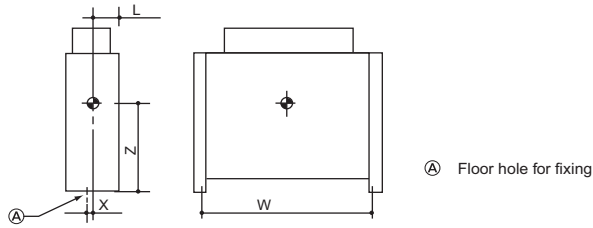
#### PFFY-P20, 25, 32, 40, 50, 63VLRM-E



(mm)[in]

Model name	W	L	X	Z
PFFY-P20VLRM-E	640 [25-1/4]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P25VLRM-E	640 [25-1/4]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P32VLRM-E	760 [29-15/16]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P40VLRM-E	760 [29-15/16]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P50VLRM-E	1000 [39-3/8]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P63VLRM-E	1000 [39-3/8]	100 [3-15/16]	17 [11/16]	335 [13-1/4]

#### PFFY-P20, 25, 32, 40, 50, 63VLRMM-E



Ⓐ Floor hole for fixing

(mm)[in]

Model name	W	L	X	Z
PFFY-P20VLRMM-E	640 [25-1/4]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P25VLRMM-E	640 [25-1/4]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P32VLRMM-E	760 [29-15/16]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P40VLRMM-E	760 [29-15/16]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P50VLRMM-E	1000 [39-3/8]	100 [3-15/16]	17 [11/16]	335 [13-1/4]
PFFY-P63VLRMM-E	1000 [39-3/8]	100 [3-15/16]	17 [11/16]	335 [13-1/4]

## PFFY-P20, 25, 32, 40VKM-E2

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B	INDOOR CONTROLLER BOARD	MF1	FAN MOTOR (UPPER)	TH23	PIPE TEMP. DETECTION/GAS (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR	MF2	FAN MOTOR (LOWER)	A. B	ADDRESS BOARD
CN51		MV1	VANE MOTOR 1	SW1	SWITCH
CN52		MV2	VANE MOTOR 2	SW11	MODE SELECTION
CN105		LS	LIMIT SWITCH (CLOSE)	SW12	ADDRESS SETTING 1s DIGIT
SW2	SWITCH	LEV	LINEAR EXPANSION VALVE	SW14	ADDRESS SETTING 10ths DIGIT
SW3		TB2	TERMINAL BLOCK	SWC	BRANCH NO.
SW4		TB5	TERMINAL BLOCK		OPTION SELECTOR
FUSE	FUSE (T6.3AL250V)	TH21	THERMISTOR		
LED1	POWER SUPPLY (I.B)				
LED2	POWER SUPPLY (I.B)	TH22	THERMISTOR		

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, 

○ ○ ○
-------

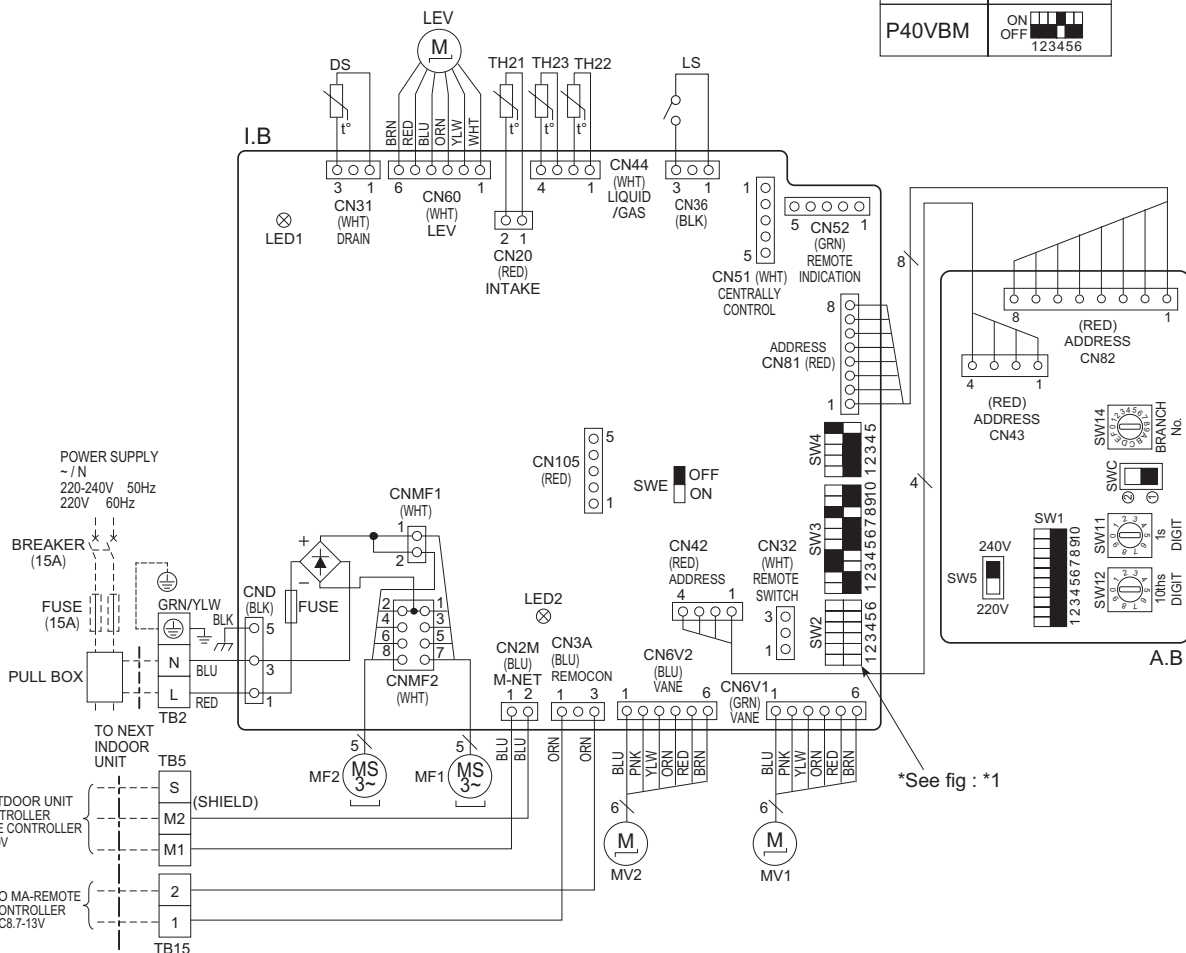
 : connector.
- The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the table below.
- Please set the switch SW5 according to the power supply voltage.  
Set SW5 to 240V side when the power supply is 230 and 240 volts.  
When the power supply is 220 volts, set SW5 to 220V side.

The black square (■) indicates a switch position. <\*1>

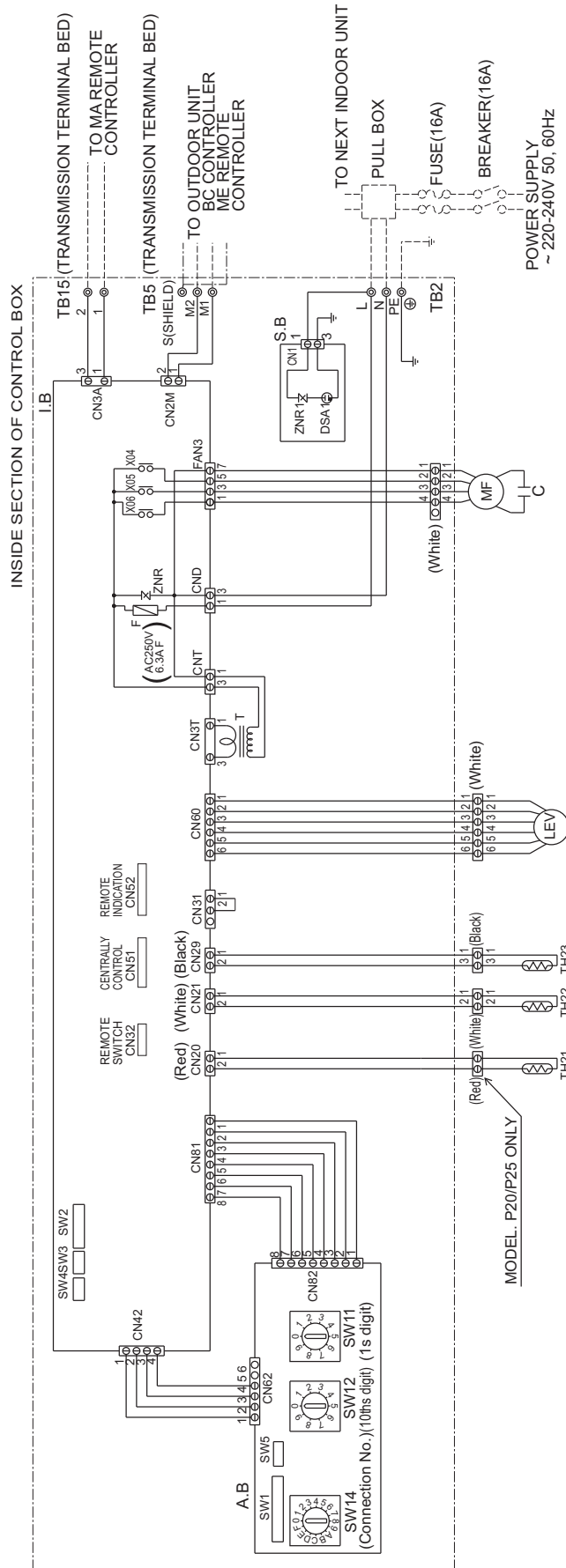
LED on indoor board for service

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

MODELS	SW2					
P20VBM	ON OFF <table border="1" style="display: inline-table;"><tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td></tr></table> 123456	■	■	■	■	■
■	■	■	■	■		
P25VBM	ON OFF <table border="1" style="display: inline-table;"><tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td></tr></table> 123456	■	■	■	■	■
■	■	■	■	■		
P32VBM	ON OFF <table border="1" style="display: inline-table;"><tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td></tr></table> 123456	■	■	■	■	■
■	■	■	■	■		
P40VBM	ON OFF <table border="1" style="display: inline-table;"><tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td></tr></table> 123456	■	■	■	■	■
■	■	■	■	■		



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

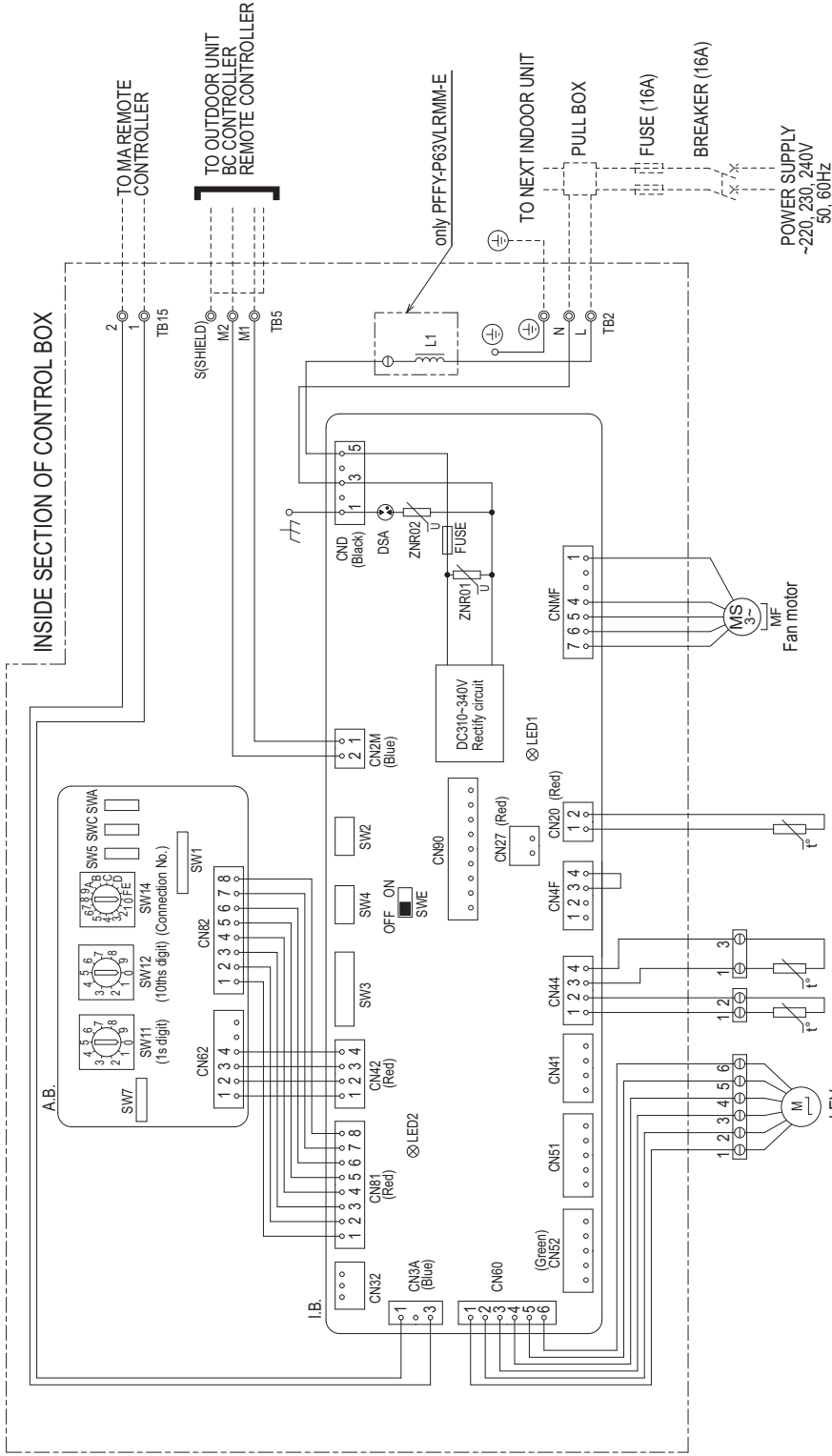


### SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
MF	Fan motor	TH22	Thermistor (inlet temp.detection)
C	Capacitor (for MF)	TH23	Thermistor (piping temp.detection/liquid)
I.B	Indoor controller board	SW11 (A.B)	Switch (1s digit address set)
A.B	Address board	SW12 (A.B)	Switch (10ths 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 mode selection)
LEV	Electronic linear expan. valve	SW5 (A.B)	Switch (for voltage selection)
S.B	Surge absorber board	X04~06	Aux.relay
TH21	Thermistor (inlet temp.detection)		

PFFY

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



NOTE:1. The wirings to TB2, TB5, TB15 shown in dotted line are field work.  
2. Mark ⊙ indicates terminal bed, ⊖ connector.

OPERATION OF LED FOR INDOOR CIRCUIT BOARD SERVICE

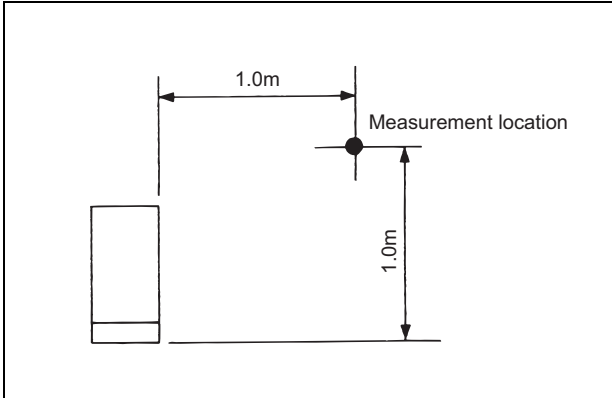
SYMBOL	LED operation under normal state
LED1	At applying main power source → Lighting
LED2	At receiving MA transmission power source → Lighting

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	A.B.	Address board
FUSE	Fuse <AC250V 6.3A>	SW1	Switch (for mode selection)
ZNR01,02	Varistor	SW5	Switch (for mode selection)
DSA	Arrestor	SW7	Switch (for model selection)
CN27	Connector (Dampner)	SW12	Switch (1s digit address set)
CN32	Connector (Remote switch)	SW14	Switch (10ths digit address set)
CN41	Connector (HA terminal-A)	SWA	Switch (for static pressure selection)
CN51	Connector (Centrally control)	SWC	Switch (for static pressure selection)
CN52	Connector (Remote indication)	TB2	Power source terminal bed
CN90	Connector (Wireless)	TB5	Transmission terminal bed
SW2	Switch (for capacity code)	TB15	Transmission terminal bed
SW3	Switch (for mode selection)	TH21	Thermistor (inlet air temp. detection)
SW4	Switch (for model selection)	TH22	Thermistor (piping temp. detection/liquid)
SWE	Connector (emergency operation)	TH23	Thermistor (piping temp. detection/gas)
L1	AC reactor (Power factor improvement)	LEV	Electronic linear expansion valve

## 5-1. Sound levels

PFFY-P-VKM-E2, VLEM-E, VLRM-E

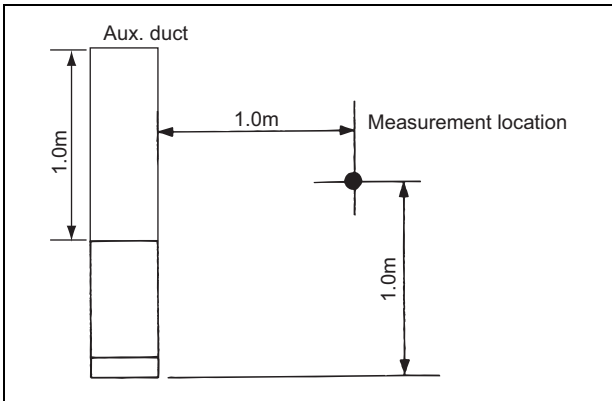


\* Measured in anechoic room

Sound level at anechoic room : Low-High

	Sound level dB (A)
PFFY-P20VKM-E2	27-31-34-37
PFFY-P25VKM-E2	28-32-35-38
PFFY-P32VKM-E2	28-32-35-38
PFFY-P40VKM-E2	35-38-42-44
PFFY-P20VLEM-E	34-40
PFFY-P20VLRM-E	
PFFY-P25VLEM-E	
PFFY-P25VLRM-E	35-40
PFFY-P32VLEM-E	
PFFY-P32VLRM-E	38-43
PFFY-P40VLEM-E	
PFFY-P40VLRM-E	
PFFY-P50VLRM-E	
PFFY-P63VLEM-E	40-46
PFFY-P63VLRM-E	

PFFY-P-VLRMM-E



\* Measured in anechoic room

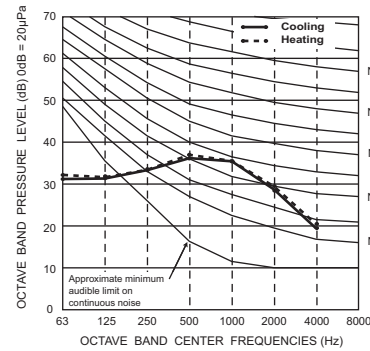
Sound level at anechoic room : Low-Middle-High

	Sound level dB (A)		
	20Pa	40Pa	60Pa
PFFY-P20VLRMM-E	31-36-40	34-39-42	35-40-43
PFFY-P25VLRMM-E	31-36-40	34-39-42	35-40-43
PFFY-P32VLRMM-E	27-32-37	30-35-41	32-37-42
PFFY-P40VLRMM-E	30-36-40	32-38-42	35-39-44
PFFY-P50VLRMM-E	32-37-41	35-40-44	36-41-45
PFFY-P63VLRMM-E	35-40-44	36-42-47	38-43-48

## 5-2. NC curves

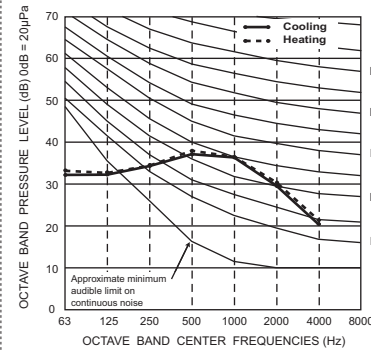
PFFY-P20VKM-E2

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



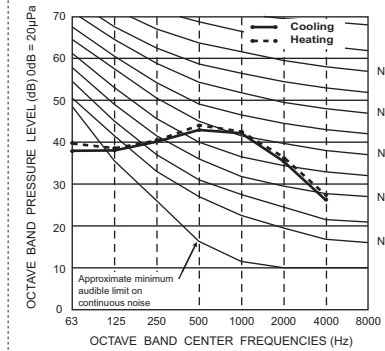
PFFY-P25, 32VKM-E2

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



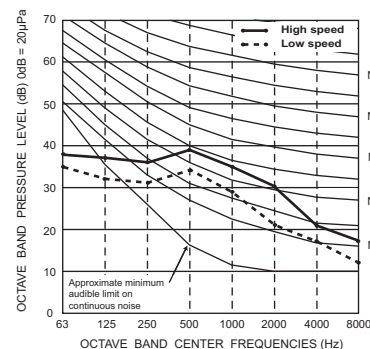
PFFY-P40VKM-E2

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



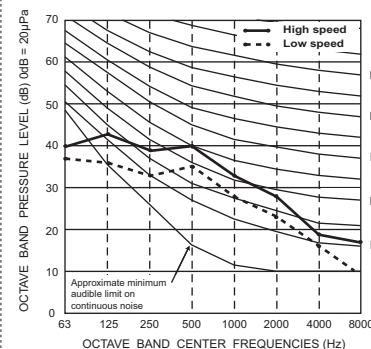
PFFY-P20, 25VLEM-E, VLRM-E

External static pressure : 0Pa  
Power source : 220, 230, 240V, 50Hz / 208, 220, 230V, 60Hz



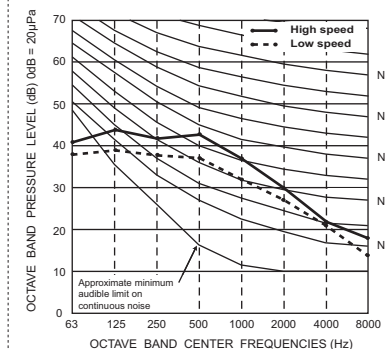
PFFY-P32VLEM-E, VLRM-E

External static pressure : 0Pa  
Power source : 220, 230, 240V, 50Hz / 208, 220, 230V, 60Hz

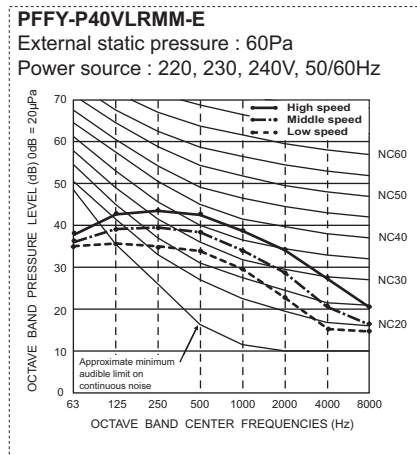
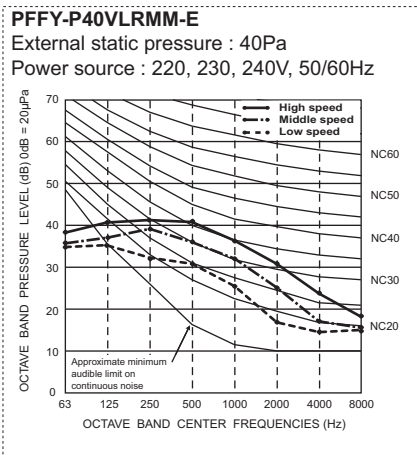
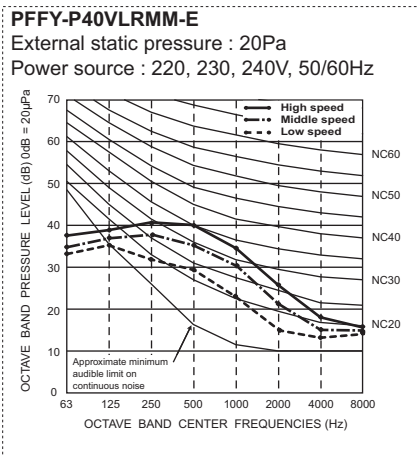
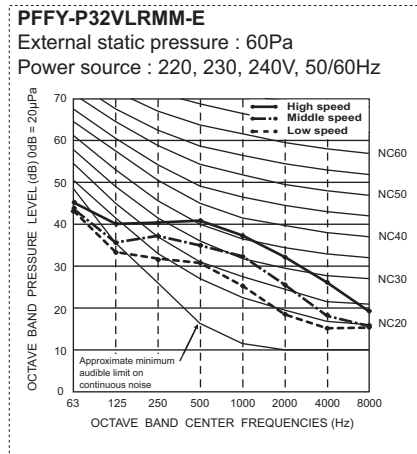
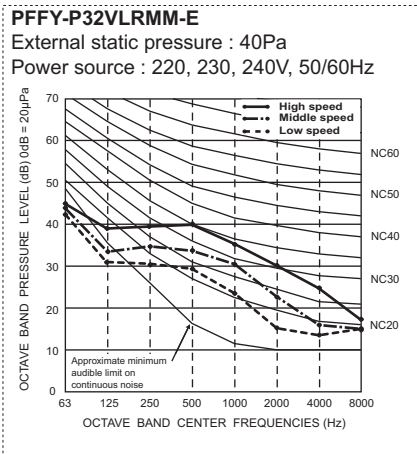
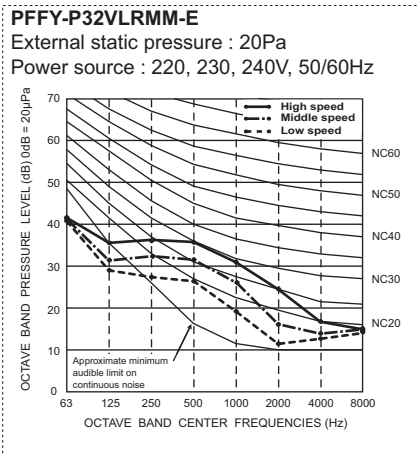
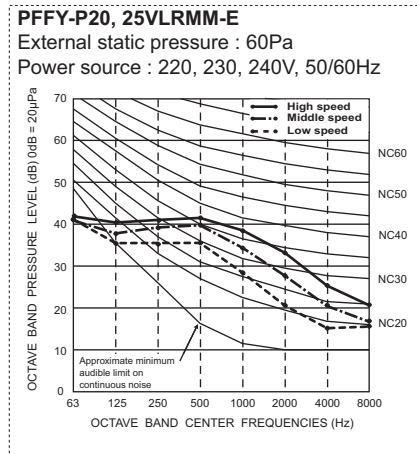
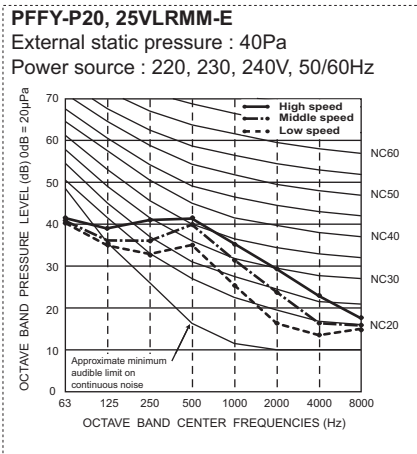
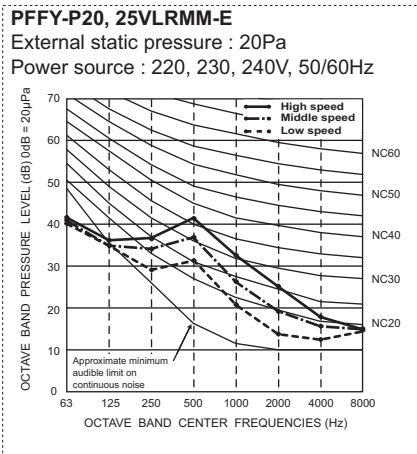
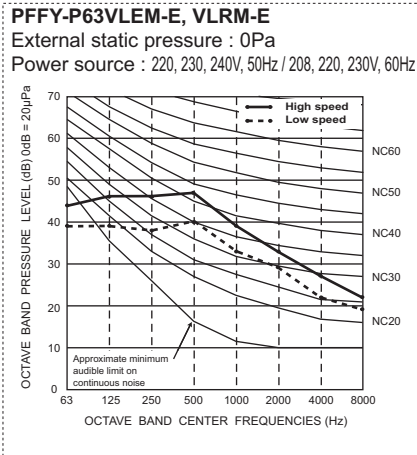
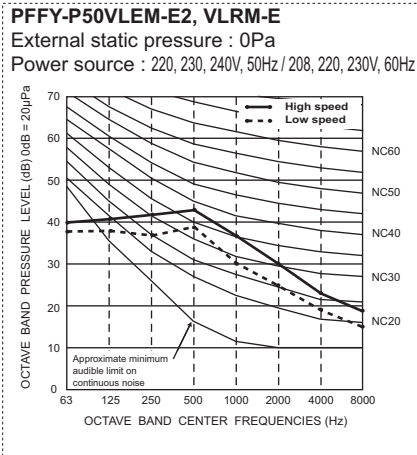


PFFY-P40VLEM-E, VLRM-E

External static pressure : 0Pa  
Power source : 220, 230, 240V, 50Hz / 208, 220, 230V, 60Hz

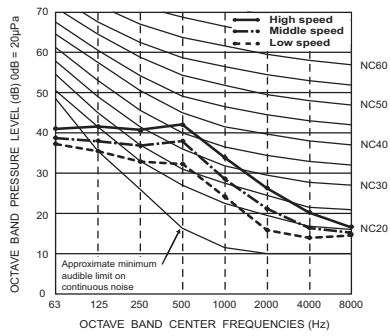




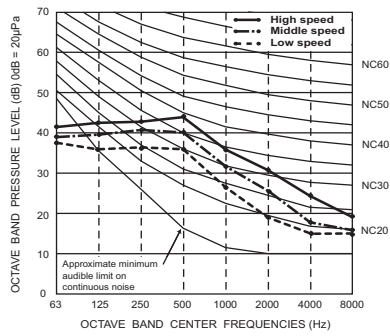


PFFY

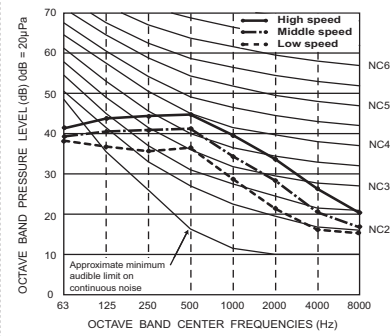
**PFFY-P50VLRMM-E**  
 External static pressure : 20Pa  
 Power source : 220, 230, 240V, 50/60Hz



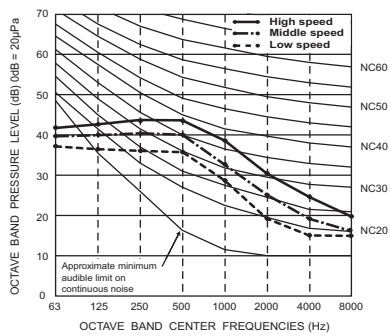
**PFFY-P50VLRMM-E**  
 External static pressure : 40Pa  
 Power source : 220, 230, 240V, 50/60Hz



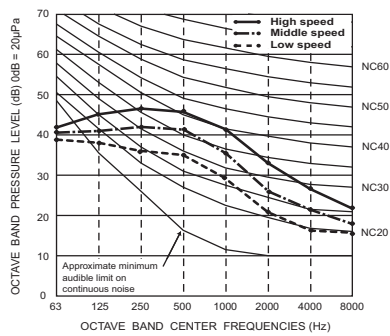
**PFFY-P50VLRMM-E**  
 External static pressure : 60Pa  
 Power source : 220, 230, 240V, 50/60Hz



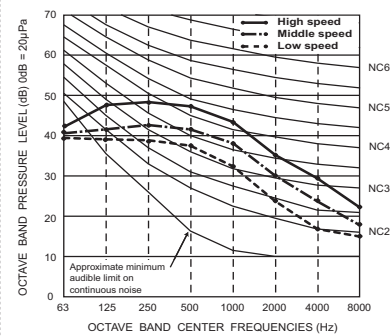
**PFFY-P63VLRMM-E**  
 External static pressure : 20Pa  
 Power source : 220, 230, 240V, 50/60Hz



**PFFY-P63VLRMM-E**  
 External static pressure : 40Pa  
 Power source : 220, 230, 240V, 50/60Hz



**PFFY-P63VLRMM-E**  
 External static pressure : 60Pa  
 Power source : 220, 230, 240V, 50/60Hz

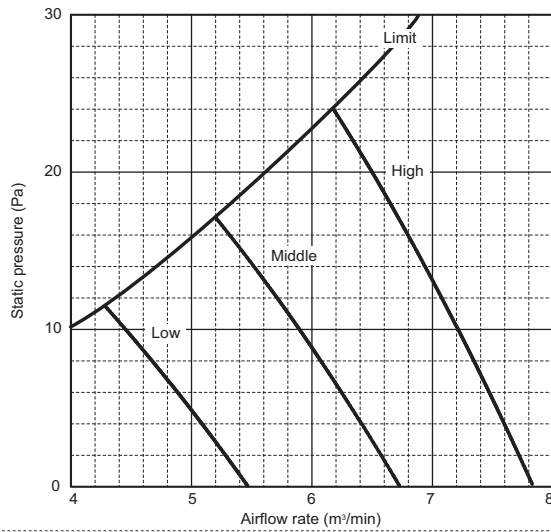


# 6. FAN CHARACTERISTICS CURVES

EP-YKM

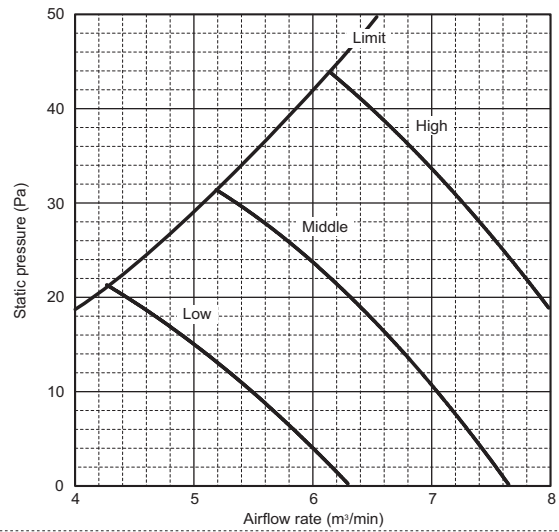
## PFFY-P20, 25VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



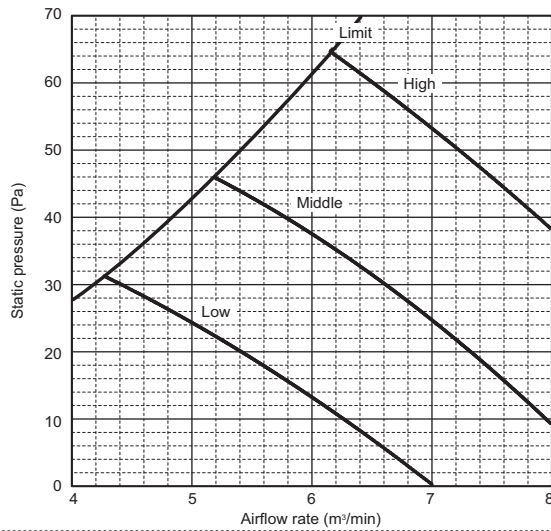
## PFFY-P20, 25VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



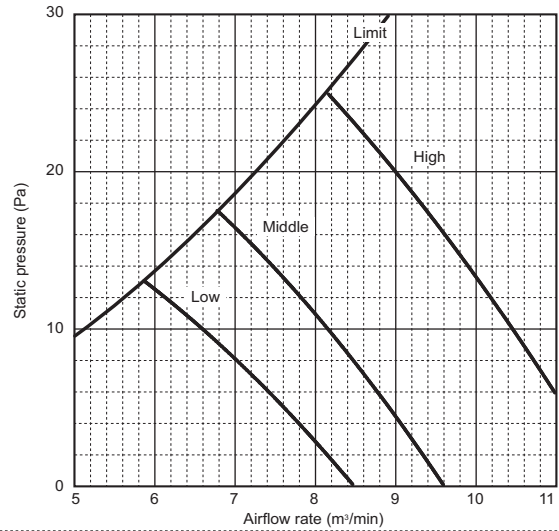
## PFFY-P20, 25VLRMM-E

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



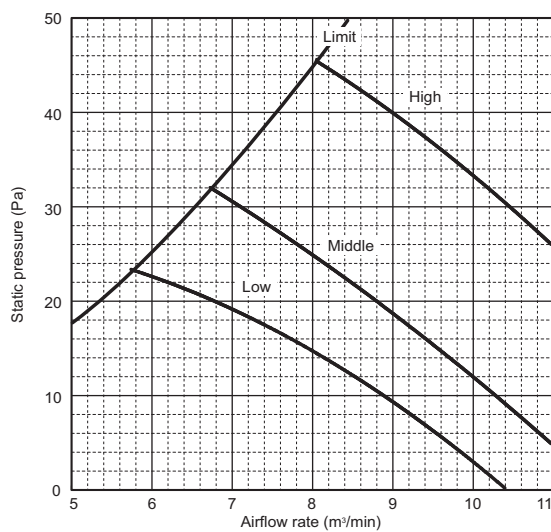
## PFFY-P32VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



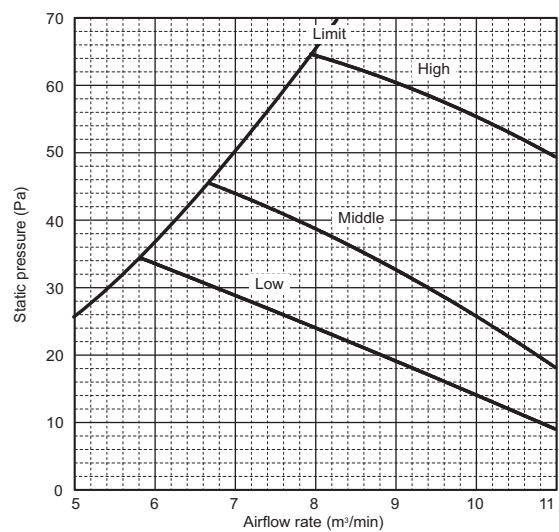
## PFFY-P32VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



## PFFY-P32VLRMM-E

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

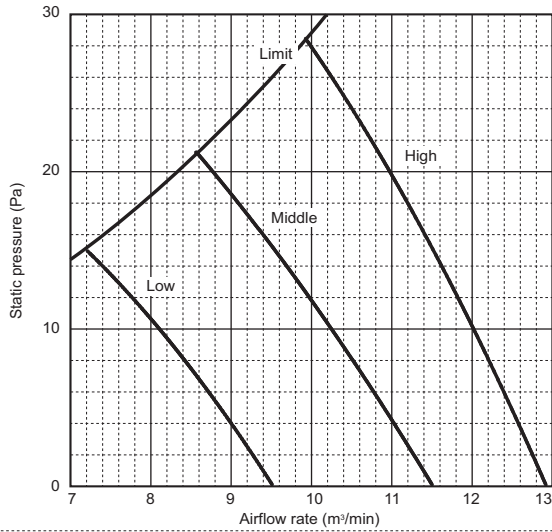


PFFY

# 6. FAN CHARACTERISTICS CURVES

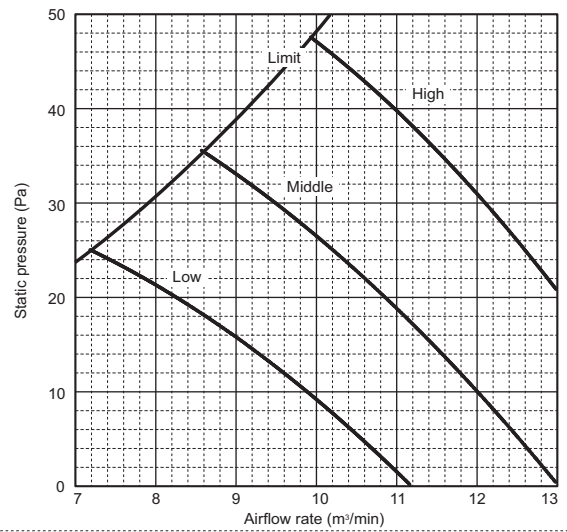
## PFFY-P40VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



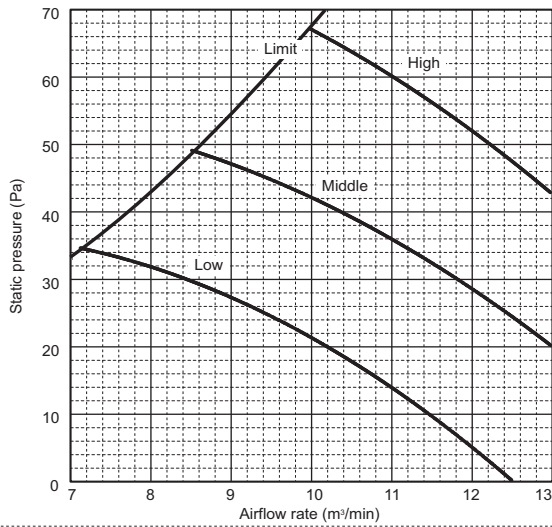
## PFFY-P40VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



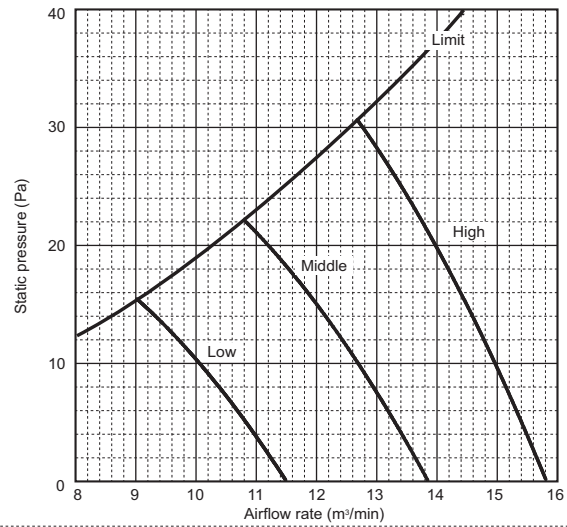
## PFFY-P40VLRMM-E

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



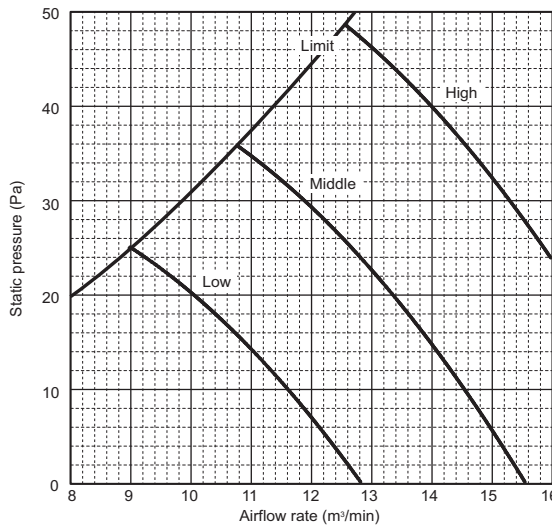
## PFFY-P50VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



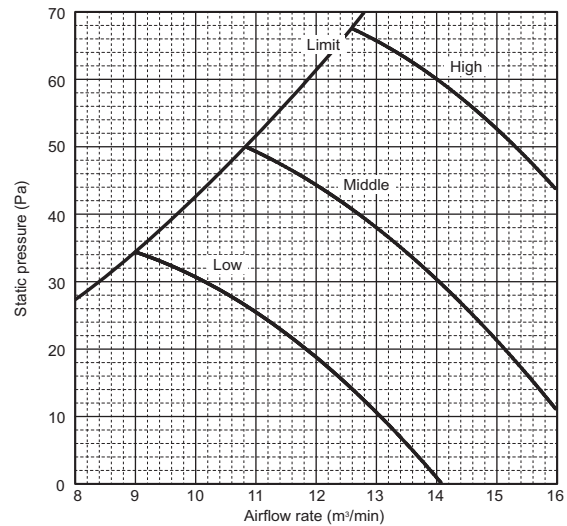
## PFFY-P50VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



## PFFY-P50VLRMM-E

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



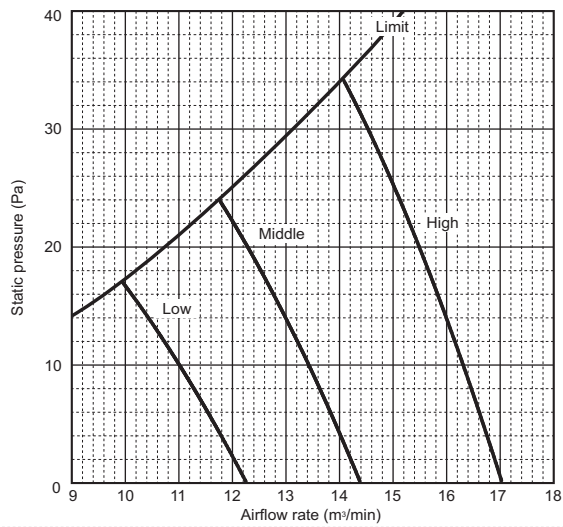
PFFY

# 6. FAN CHARACTERISTICS CURVES

EP-YKM

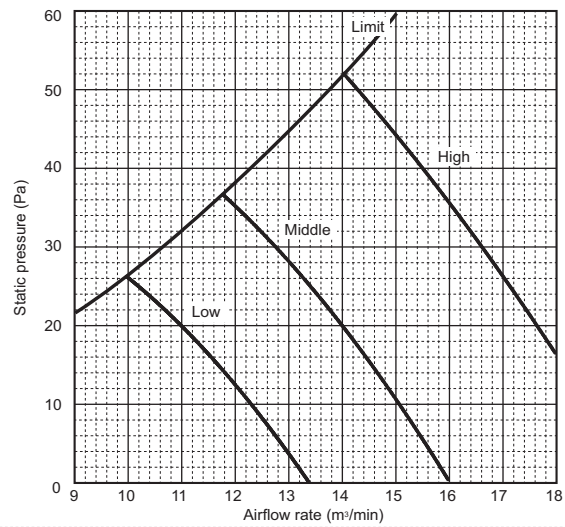
## PFFY-P63VLRMM-E

External static pressure : 20Pa  
Power source : 220,230,240V, 50/60Hz



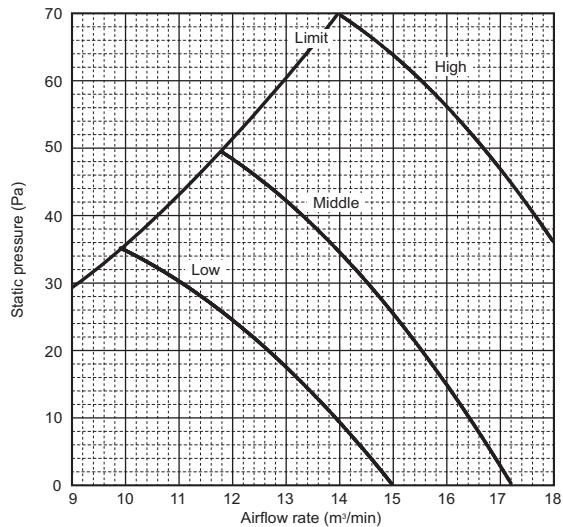
## PFFY-P63VLRMM-E

External static pressure : 40Pa  
Power source : 220,230,240V, 50/60Hz



## PFFY-P63VLRMM-E

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

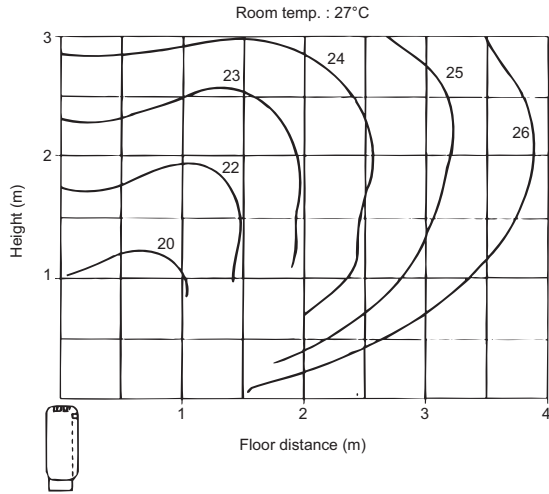


PFFY

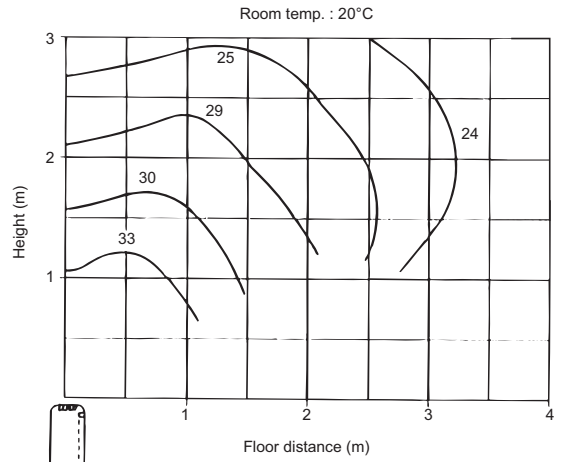
## 7-1. Temperature distributions

PFFY-P20-63VLEM-E

<Cooling mode>

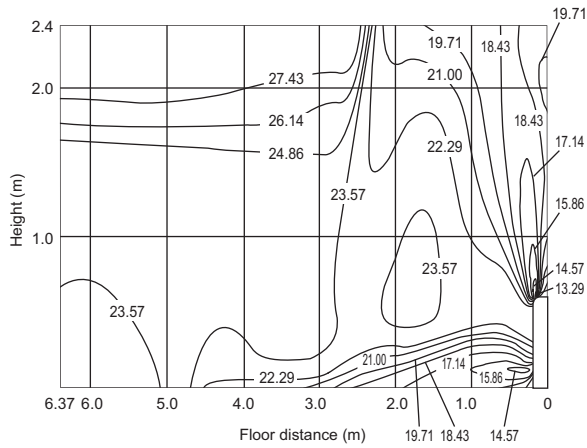


<Heating mode>

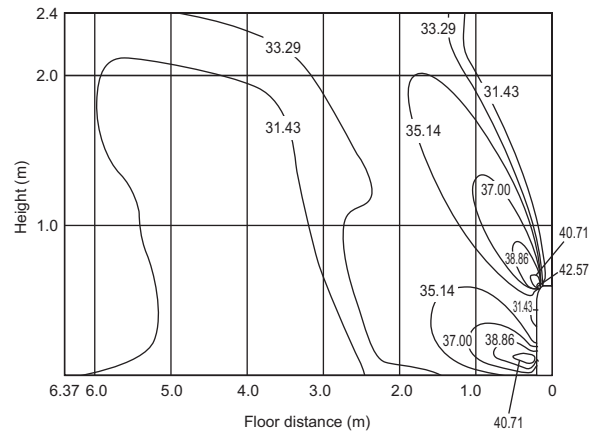


PFFY-P20-40VKM-E2

<Cooling mode>



<Heating mode>



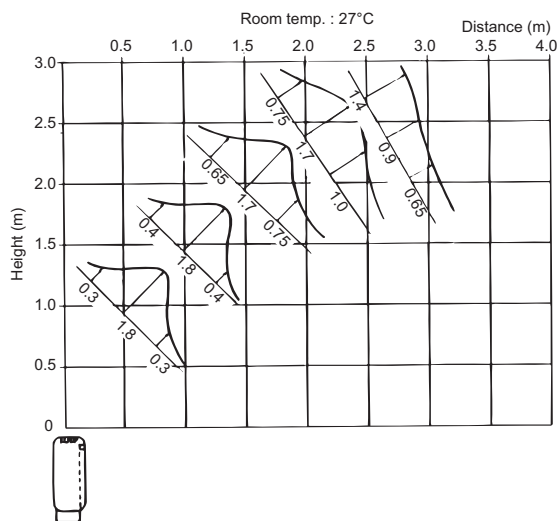
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

PFFY

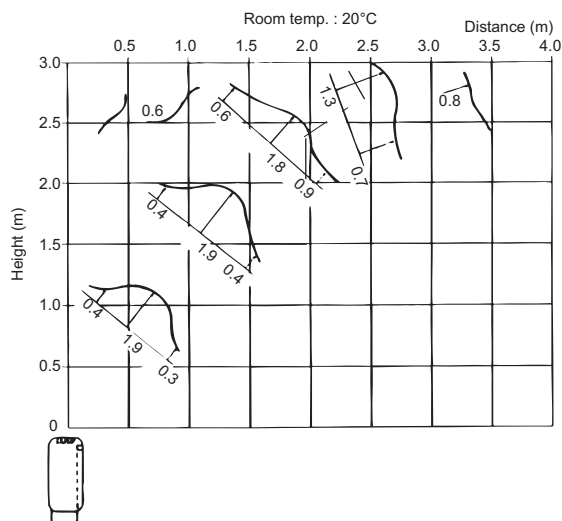
## 7-2. Airflow distributions

PFFY-P20-63VLEM-E

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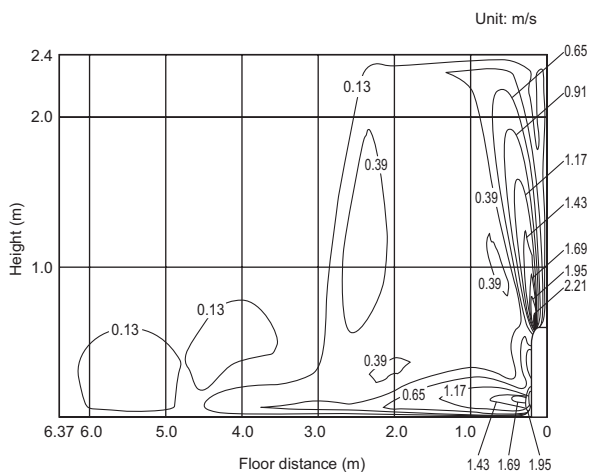


<Heating mode>

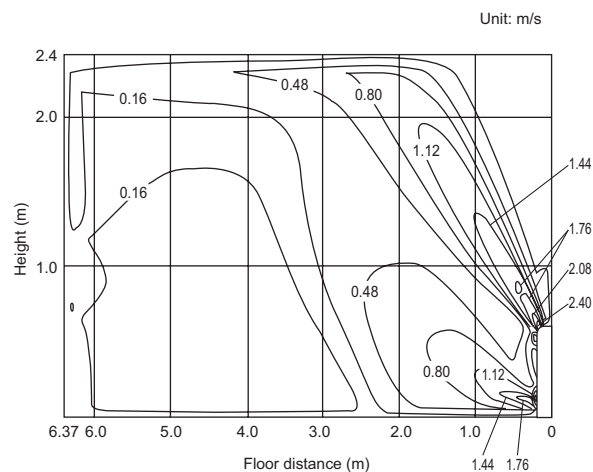


PFFY-P20-40VKM-E2

<Cooling mode>



<Heating mode>



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.

**LGH-RX5-E**

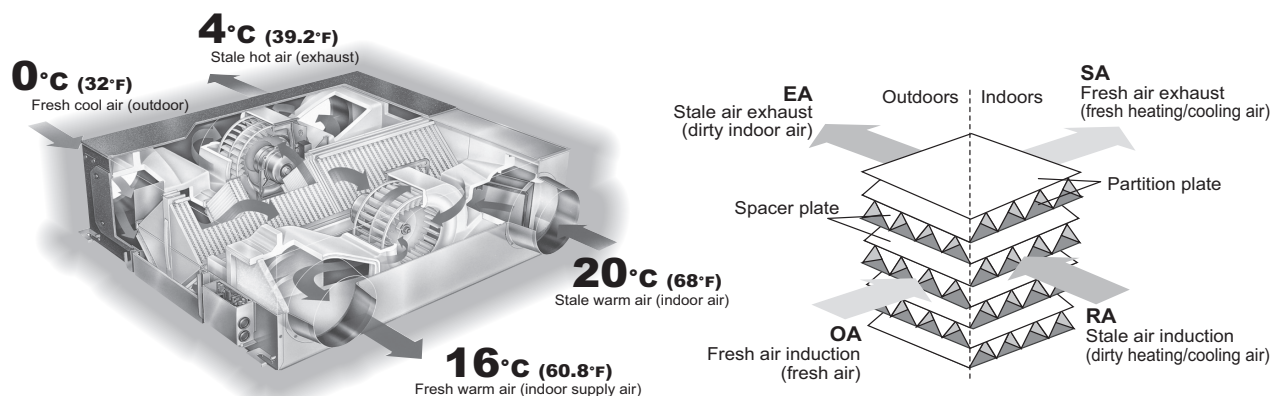
1. EXTERNAL DIMENSIONS .....	1 - 199
2. PERFORMANCE .....	1 - 201
3. SPECIFICATIONS .....	1 - 204
4. SAMPLE INSTALLATIONS .....	1 - 207
5. ELECTRICAL WIRING DIAGRAMS .....	1 - 208



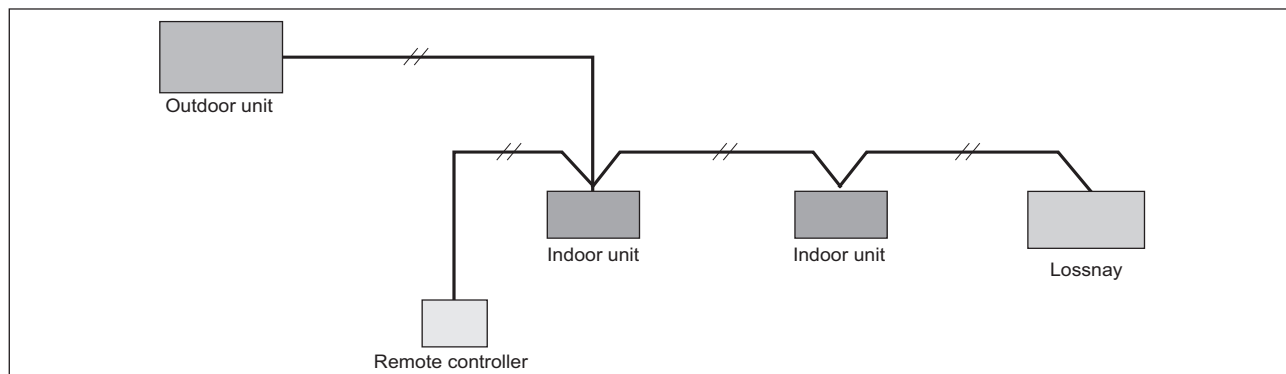
# LOSSNAY

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

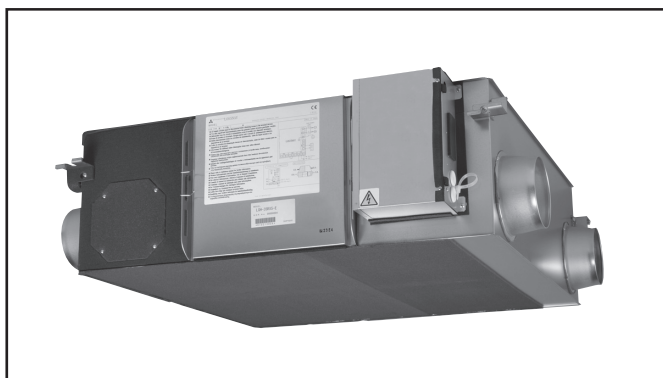
The LOSSNAY core is a special preserved paper made cross-flow and plate-fin structure, which is referable below.



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



## Line up of LOSSNAY units

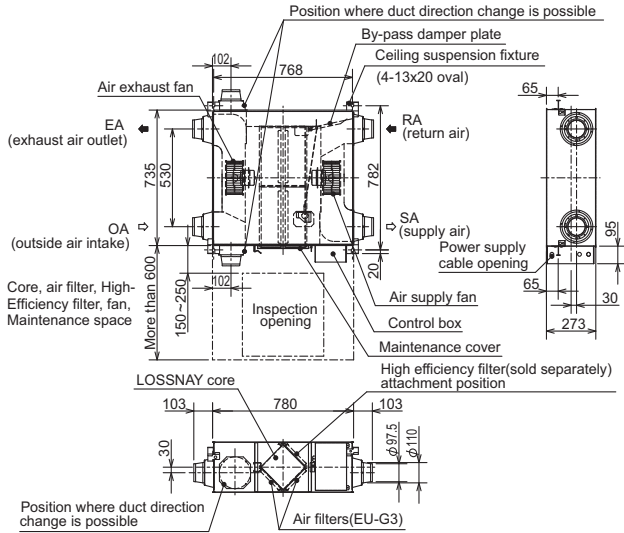


- LGH-15RX5 [150m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-25RX5 [250m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-35RX5 [350m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-50RX5 [500m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-65RX5 [650m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-80RX5 [800m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-100RX5 [1000m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-150RX5 [1500m<sup>3</sup>/h Single phase 220-240V 50Hz]
- LGH-200RX5 [2000m<sup>3</sup>/h Single phase 220-240V 50Hz]

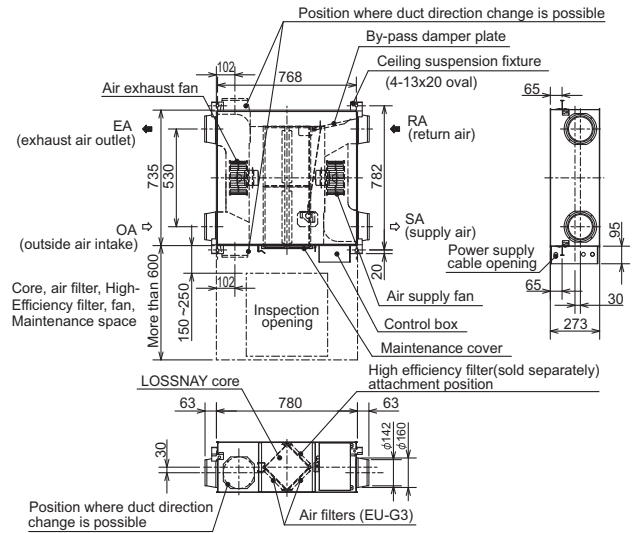
LOSSNAY

(Unit : mm)

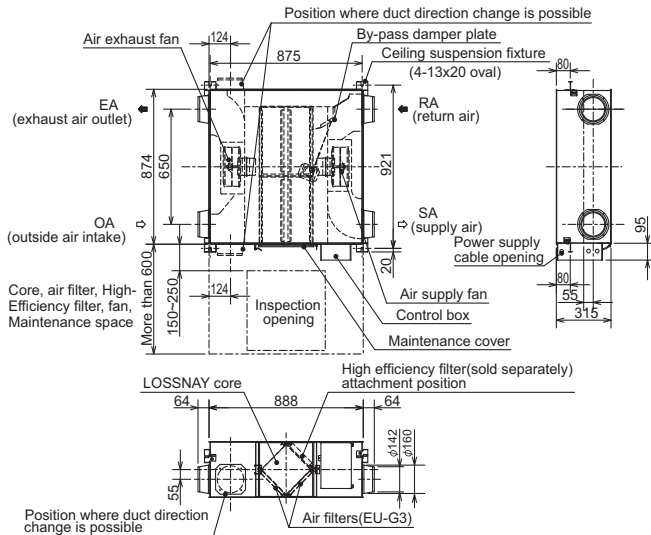
**LGH-15RX5-E**



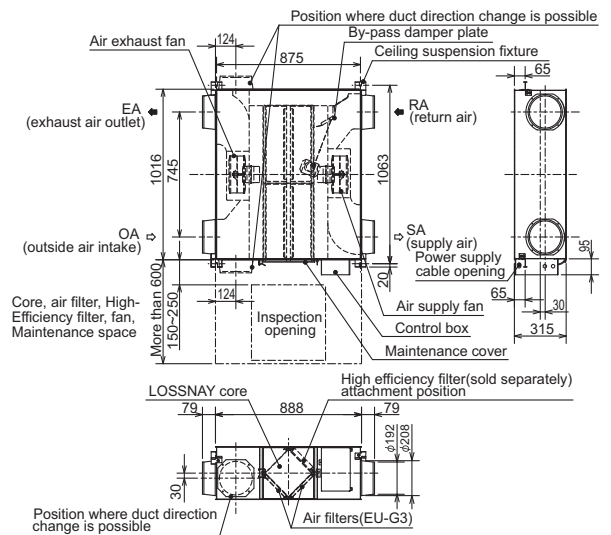
**LGH-25RX5-E**



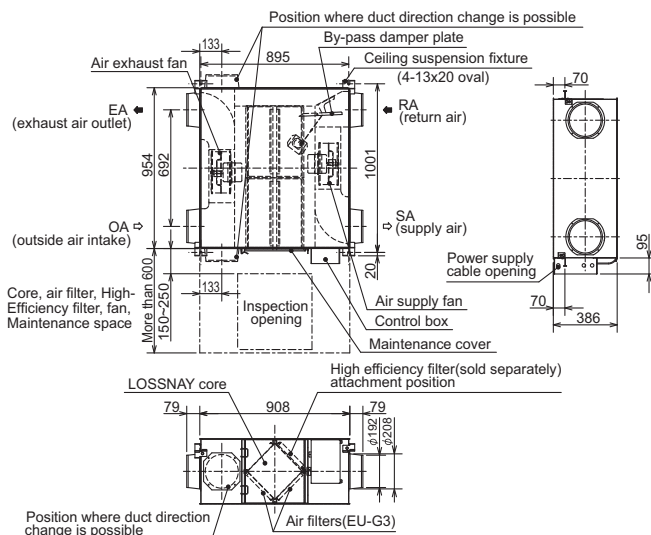
**LGH-35RX5-E**



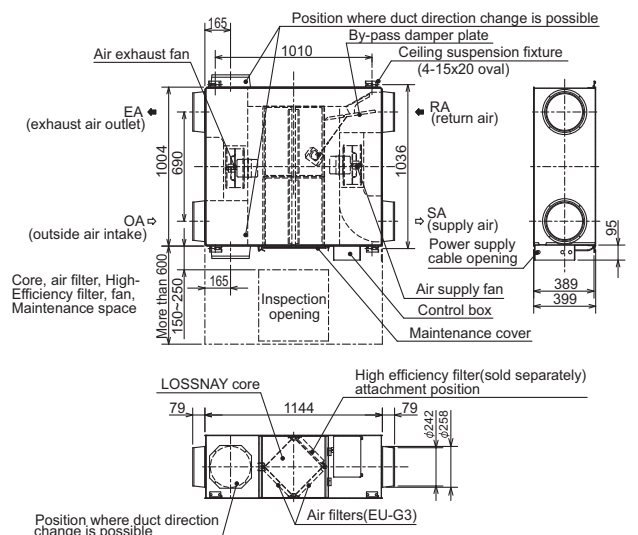
**LGH-50RX5-E**



**LGH-65RX5-E**



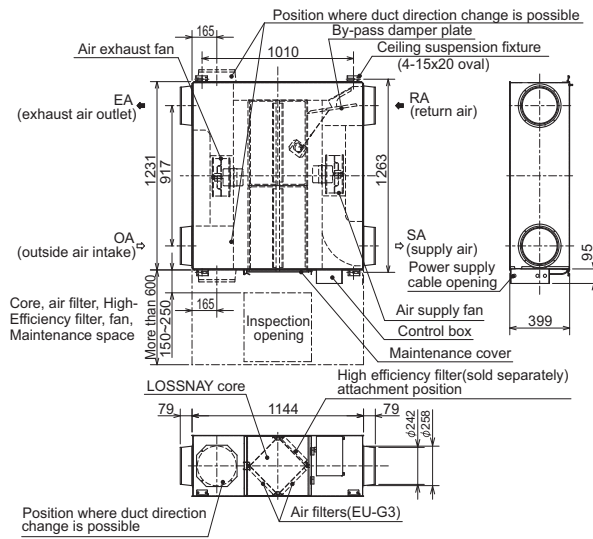
**LGH-80RX5-E**



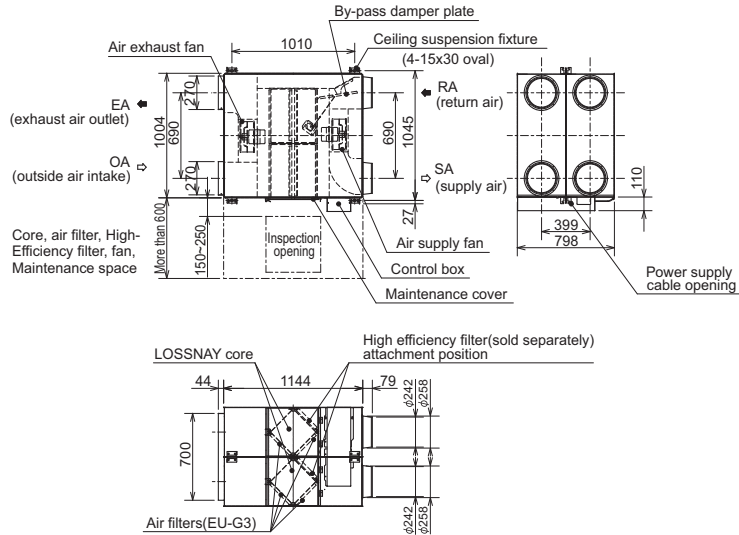
LOSSNAY

(Unit : mm)

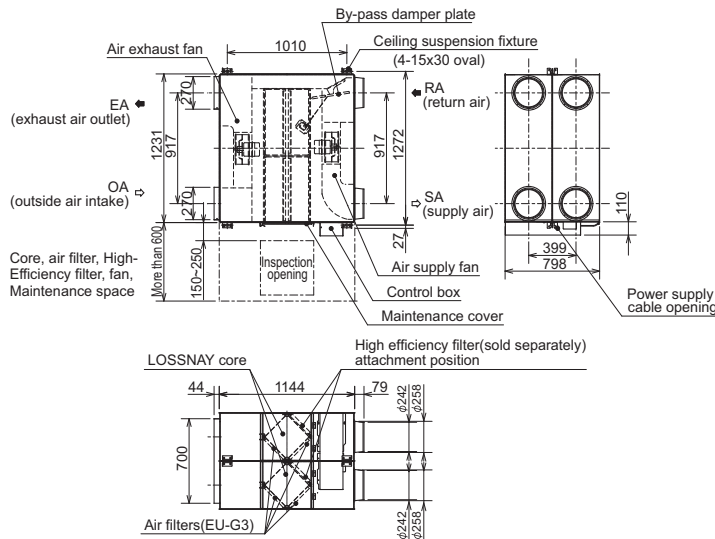
## LGH-100RX5-E

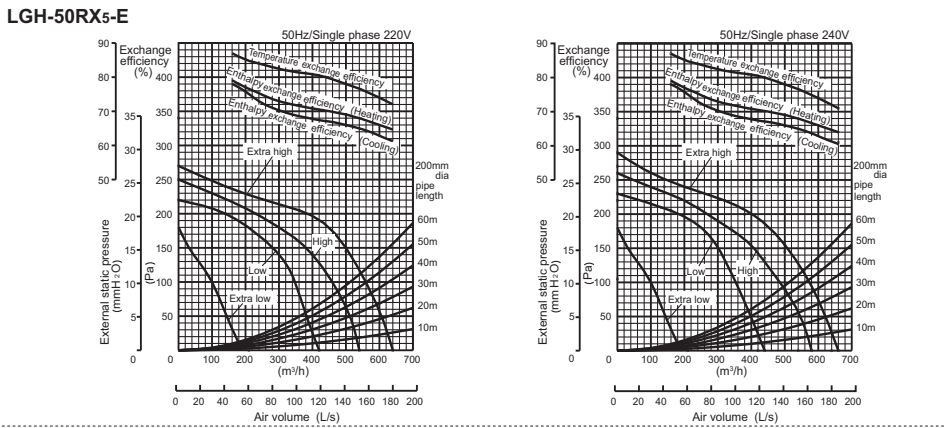
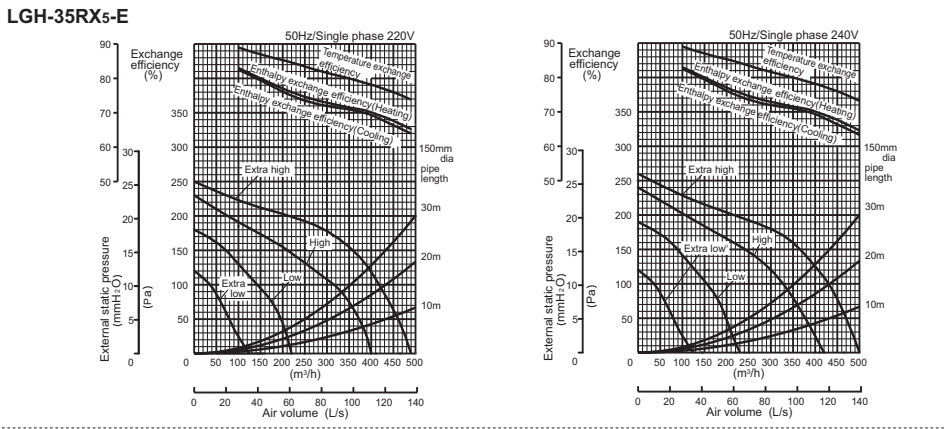
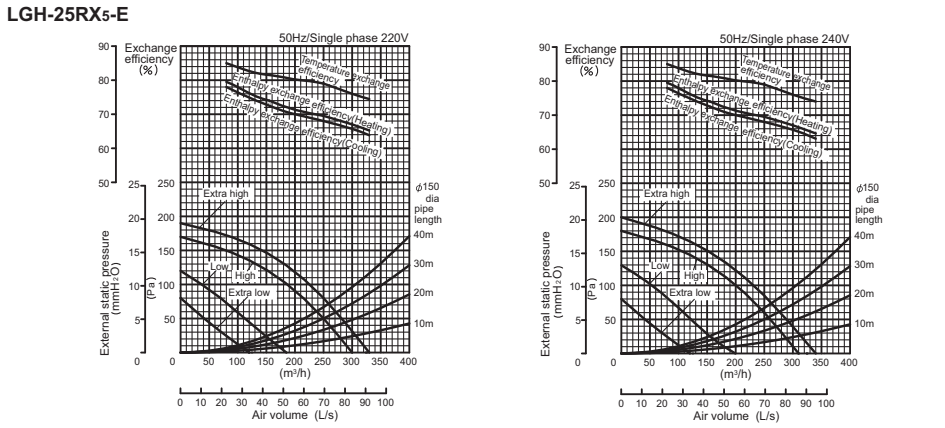
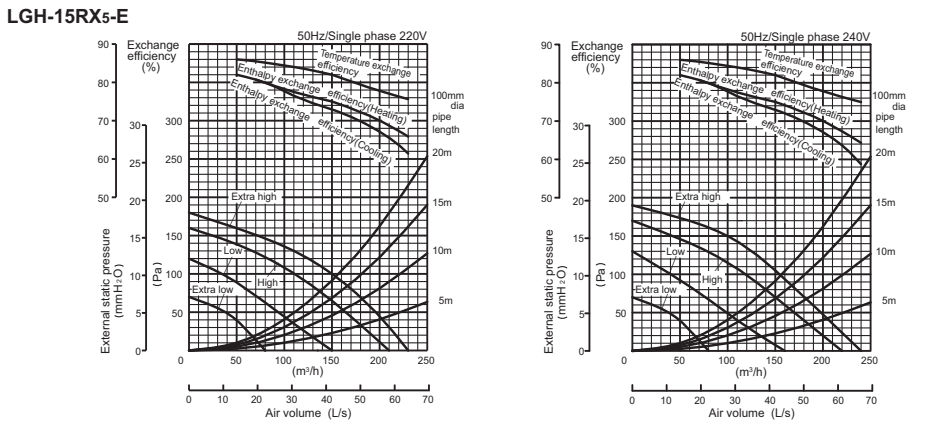


## LGH-150RX5-E

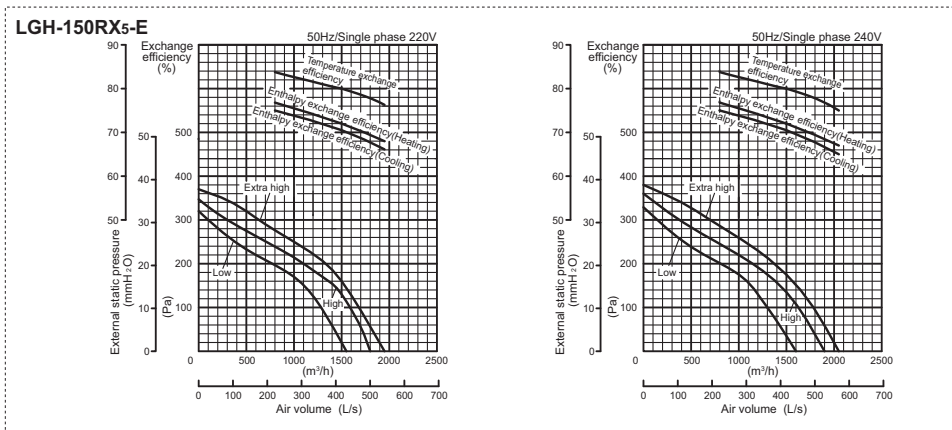
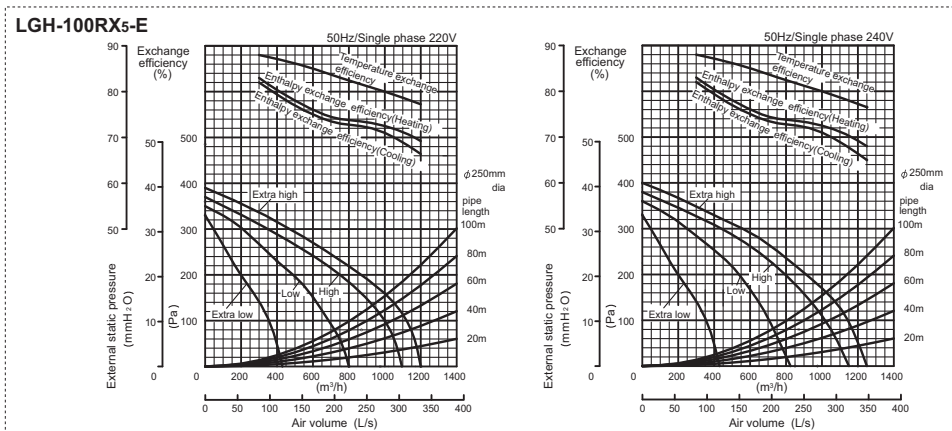
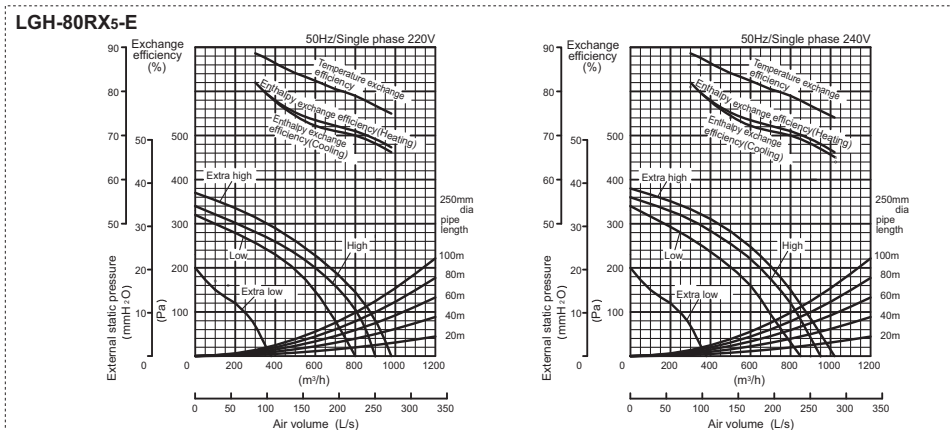
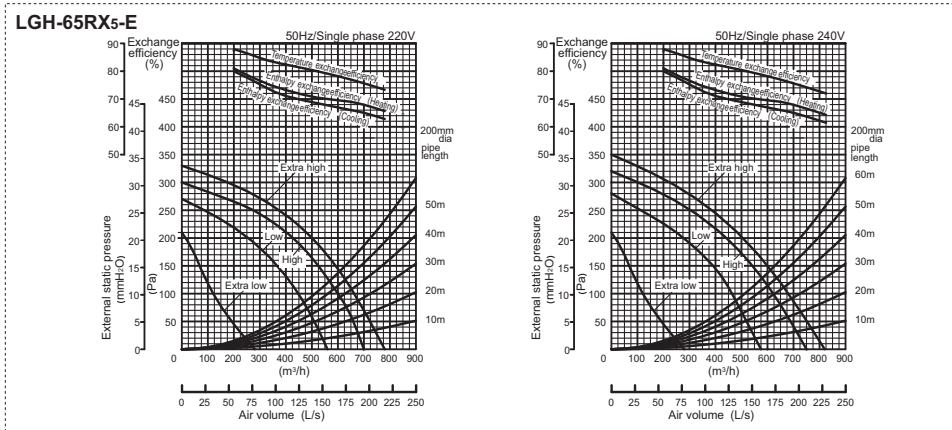


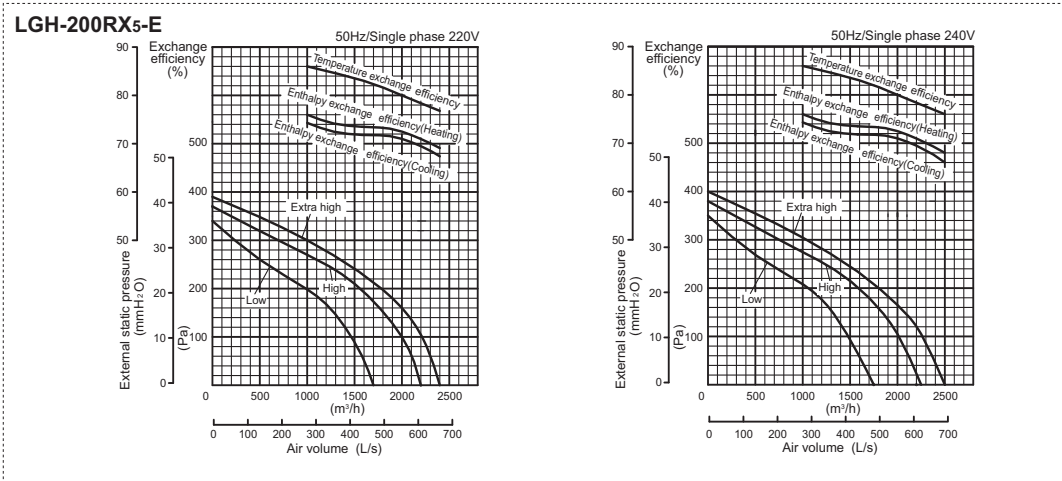
## LGH-200RX5-E





LOSSNAY





### 3. SPECIFICATIONS

#### LGH-15RX5-E

Model		LGH-15RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.44-0.46	0.37-0.38	0.25-0.25	0.14-0.15	0.45-0.46	0.37-0.38	0.25-0.26	0.14-0.15
Power consumption (W)		96-110	80-90	53-59	30-35	97-110	81-91	54-61	30-35
Air volume	(m <sup>3</sup> /h)	150	150	110	70	150	150	110	70
	(L/s)	42	42	31	19	42	42	31	19
External static pressure	(mmHzO)	10.2-10.7	6.6-7.1	3.6-4.1	1.4	10.2-10.7	6.6-7.1	3.6-4.1	1.4
	(Pa)	100-105	65-70	35-40	14	100-105	65-70	35-40	14
Temperature exchange efficiency (%)		82.0	82.0	84.0	85.5	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	75.0	75.0	77.5	81.0	—	—	—	—
	Cooling	73.0	73.0	76.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		27.5-28	26.5-27	22-23.5	18	28.5-29	27-28	23-24	18-19
Weight (kg)		20							
Starting current		Under 0.8 A Less							

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 6 dB greater than the indicated value. (at High Fan speed)

#### LGH-25RX5-E

Model		LGH-25RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.52-0.55	0.47-0.48	0.26-0.27	0.17-0.18	0.53-0.55	0.47-0.48	0.26-0.27	0.17-0.18
Power consumption (W)		113-129	102-114	56-62	36-42	115-131	103-115	56-63	36-42
Air volume	(m <sup>3</sup> /h)	250	250	155	105	250	250	155	105
	(L/s)	69	69	43	29	69	69	43	29
External static pressure	(mmHzO)	8.2-8.7	5.1-6.1	2-2.5	0.9	8.2-8.7	5.1-6.1	2-2.5	0.9
	(Pa)	80-85	50-60	20-25	9	80-85	50-60	20-25	9
Temperature exchange efficiency (%)		79.0	79.0	81.5	83.5	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	69.5	69.5	74.0	77.5	—	—	—	—
	Cooling	68.0	68.0	72.5	76.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		26-27	25-26	20-21.5	18-19	26.5-27.5	25.5-26.5	20.5-22	18-19
Weight (kg)		20							
Starting current		Under 0.9 A Less							

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

#### LGH-35RX5-E

Model		LGH-35RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.92-0.92	0.74-0.74	0.5-0.51	0.28-0.3	0.93-0.94	0.77-0.77	0.51-0.52	0.28-0.3
Power consumption (W)		195-212	160-169	105-116	58-69	197-217	164-173	105-116	58-69
Air volume	(m <sup>3</sup> /h)	350	350	210	115	350	350	210	115
	(L/s)	97	97	58	32	97	97	58	32
External static pressure	(mmHzO)	15.8-16.3	7.6-8.2	2.5-3.1	0.9	15.8-16.3	7.6-8.2	2.5-3.1	0.9
	(Pa)	155-160	75-80	25-30	9	155-160	75-80	25-30	9
Temperature exchange efficiency (%)		80.0	80.0	85.0	88.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	71.5	71.5	76.5	81.5	—	—	—	—
	Cooling	71.0	71.0	75.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		32-32	28.5-29.5	21.5-23	18	32.5-32.5	29.5-30.5	21.5-24	18
Weight (kg)		29							
Starting current		Under 2.4 A Less							

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

## LGH-50RX<sub>5</sub>-E

Model		LGH-50RX <sub>5</sub> -E								
Frequency / Power source		50Hz / Single phase 220-240V								
Ventilation mode		LOSSNAY ventilation				By-pass ventilation				
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		1.2-1.25	1.0-1.0	0.85-0.85	0.4-0.4	1.25-1.25	1.0-1.0	0.85-0.85	0.4-0.4	
Power consumption (W)		255-286	207-228	175-190	80-95	260-290	210-230	180-195	80-95	
Air volume		(m <sup>3</sup> /h)	500	500	390	180	500	500	390	180
		(L/s)	139	139	108	50	139	139	108	50
External static pressure		(mmHzO)	15.3-15.8	6.6-9.2	4.1-6.1	1.0	15.3-15.8	6.6-9.2	4.1-6.1	1.0
		(Pa)	150-155	65-90	40-60	10	150-155	65-90	40-60	10
Temperature exchange efficiency (%)		78.0	78.0	81.0	86.0	—	—	—	—	
Enthalpy exchange efficiency (%)		Heating	69.0	69.0	71.0	78.0	—	—	—	—
		Cooling	66.5	66.5	68.0	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		33-34	30.5-32	26.5-28	19	34-35	31-32.5	27-29	19	
Weight (kg)		32								
Starting current		Under 3.0 A Less								

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)

## LGH-65RX<sub>5</sub>-E

Model		LGH-65RX <sub>5</sub> -E								
Frequency / Power source		50Hz / Single phase 220-240V								
Ventilation mode		LOSSNAY ventilation				By-pass ventilation				
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6	1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6	
Power consumption (W)		350-380	308-322	248-265	120-140	350-385	310-335	250-265	120-140	
Air volume		(m <sup>3</sup> /h)	650	650	520	265	650	650	520	265
		(L/s)	181	181	144	74	181	181	144	74
External static pressure		(mmHzO)	11.2-12.2	6.1-8.2	4.1-5.1	0.8	11.2-12.2	6.1-8.2	4.1-5.1	0.8
		(Pa)	110-120	60-80	40-50	8	110-120	60-80	40-50	8
Temperature exchange efficiency (%)		77.0	77.0	80.0	86.0	—	—	—	—	
Enthalpy exchange efficiency (%)		Heating	68.5	68.5	70.5	78.0	—	—	—	—
		Cooling	66.0	66.0	68.5	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		34-34.5	32-33	28.5-31.5	22	34.5-35	32.5-33.5	28.5-30.5	22-22.5	
Weight (kg)		40								
Starting current		Under 4.4 A Less								

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

## LGH-80RX<sub>5</sub>-E

Model		LGH-80RX <sub>5</sub> -E								
Frequency / Power source		50Hz / Single phase 220-240V								
Ventilation mode		LOSSNAY ventilation				By-pass ventilation				
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	
Power consumption (W)		380-415	345-370	315-340	125-145	380-415	345-370	315-340	120-145	
Air volume		(m <sup>3</sup> /h)	800	800	700	355	800	800	700	355
		(L/s)	222	222	194	99	222	222	194	99
External static pressure		(mmHzO)	14.8-15.3	10.7-12.2	8.2-9.7	2	14.8-15.3	10.7-12.2	8.2-9.7	2
		(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20
Temperature exchange efficiency (%)		79.0	79.0	80.5	87.5	—	—	—	—	
Enthalpy exchange efficiency (%)		Heating	71.0	71.0	72.5	79.5	—	—	—	—
		Cooling	70.0	70.0	71.5	79.5	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		33.5-34.5	32-33	30-31	22	34.5-35.5	33-34	31-32	22	
Weight (kg)		53								
Starting current		Under 3.8 A Less								

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)



## LGH-100RX5-E

Model		LGH-100RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9	2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9
Power consumption (W)		500-535	445-475	350-380	175-200	510-550	460-485	365-395	175-200
Air volume	(m <sup>3</sup> /h)	1000	1000	755	415	1000	1000	755	415
	(L/s)	278	278	210	115	278	278	210	115
External static pressure	(mmHzO)	16.3-17.3	10.2-11.2	5.6-6.1	1.8	16.3-17.3	10.2-11.2	5.6-6.1	1.8
	(Pa)	160-170	100-110	55-60	18	160-170	100-110	55-60	18
Temperature exchange efficiency (%)		80.0	80.0	83.0	87.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	74.0	80.0	—	—	—	—
	Cooling	71.0	71.0	73.0	79.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		36-37	34-35	31-32.5	21-22	37-38	35-36	32-33	21-22
Weight (kg)		59							
Starting current		Under 4.6 A Less							

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 17 dB greater than the indicated value. (at High Fan speed)

## LGH-150RX5-E

Model		LGH-150RX5-E						
Frequency / Power source		50Hz / Single phase 220-240V						
Ventilation mode		LOSSNAY ventilation			By-pass ventilation			
Fan speed		Extra High	High	Low	Extra High	High	Low	
Current (A)		3.5-3.5	3.2-3.2	2.9-2.9	3.5-3.5	3.2-3.2	2.9-2.9	
Power consumption (W)		760-830	690-740	630-680	765-835	695-745	635-685	
Air volume	(m <sup>3</sup> /h)	1500	1500	1300	1500	1500	1300	
	(L/s)	417	417	361	417	417	361	
External static pressure	(mmHzO)	16.3-17.8	13.3-13.8	9.7-10.2	16.3-17.8	13.3-13.8	9.7-10.2	
	(Pa)	160-175	130-135	95-100	160-175	130-135	95-100	
Temperature exchange efficiency (%)		80.0	80.0	81.0	—	—	—	
Enthalpy exchange efficiency (%)	Heating	72.0	72.0	72.5	—	—	—	
	Cooling	70.5	70.5	71.5	—	—	—	
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		38-39	36-37.5	33.5-35	39-40.5	37.5-39	35.5-37	
Weight (kg)		105						
Starting current		Under 7.3 A Less						

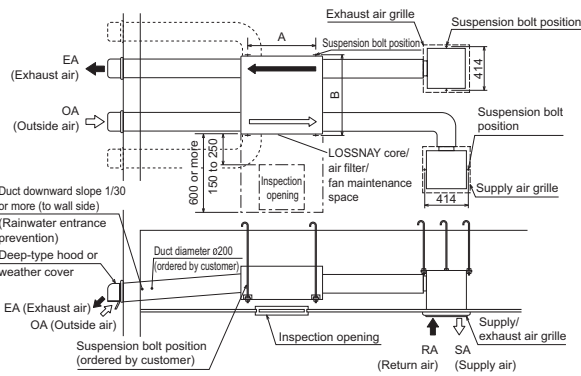
\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 19 dB greater than the indicated value. (at High Fan speed)

## LGH-200RX5-E

Model		LGH-200RX5-E						
Frequency / Power source		50Hz / Single phase 220-240V						
Ventilation mode		LOSSNAY ventilation			By-pass ventilation			
Fan speed		Extra High	High	Low	Extra High	High	Low	
Current (A)		4.8-4.8	4.2-4.2	3.4-3.4	4.8-4.8	4.2-4.2	3.4-3.4	
Power consumption (W)		1035-1100	910-980	715-785	1040-1110	915-980	720-785	
Air volume	(m <sup>3</sup> /h)	2000	2000	1580	2000	2000	1580	
	(L/s)	556	556	439	556	556	439	
External static pressure	(mmHzO)	16.3-16.8	10.2-10.7	6.1-6.6	16.3-16.8	10.2-10.7	6.1-6.6	
	(Pa)	160-165	100-105	60-65	160-165	100-105	60-65	
Temperature exchange efficiency (%)		80.0	80.0	83.0	—	—	—	
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	73.5	—	—	—	
	Cooling	71.0	71.0	72.0	—	—	—	
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		39.5-40	37-38	32.5-34	40.5-41	38-39	33.5-35	
Weight (kg)		118						
Starting current		Under 11.9A Less						

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

## LGH-15RX5-E to 100RX5

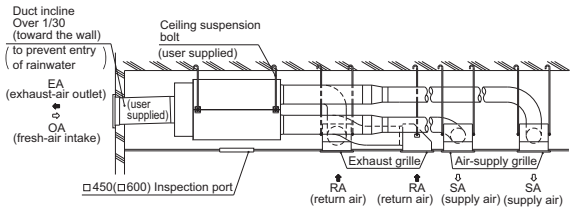
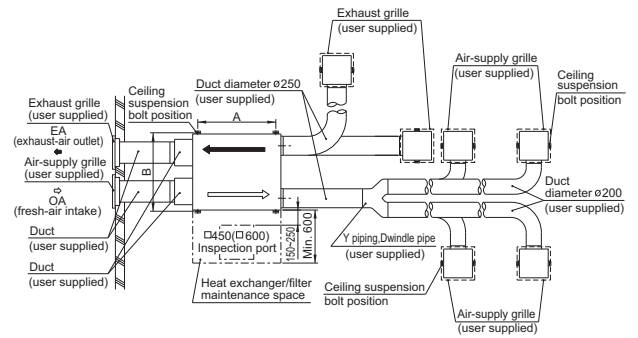


- Always leave inspection holes (□450 or □600) on the air filter and LOSSNAY core removal side.
- Always insulate the two ducts outside the room (intake air and exhaust air ducts) to prevent condensation.
- It is possible to change the direction of the outside air ducts (OA and EA side).
- Do not install the vent cap or round hood where it will come into direct contact with rain water.

Unit: mm

Model	A	B
LGH-15RX5	768	782
LGH-25RX5	768	782
LGH-35RX5	875	921
LGH-50RX5	875	1063
LGH-65RX5	895	1001
LGH-80RX5	1010	1036
LGH-100RX5	1010	1263

## LGH-150RX5 and 200RX5



- Always leave inspection holes (□450 or □600) on the air filter and LOSSNAY core removal side.
- Always insulate the two ducts outside the room (intake air and exhaust air ducts) to prevent condensation.
- If necessary, order a weather cover to prevent rain water from direct contact or entering the unit.

Unit: mm

Model	A	B
LGH-150RX5	1010	1045
LGH-200RX5	1010	1272

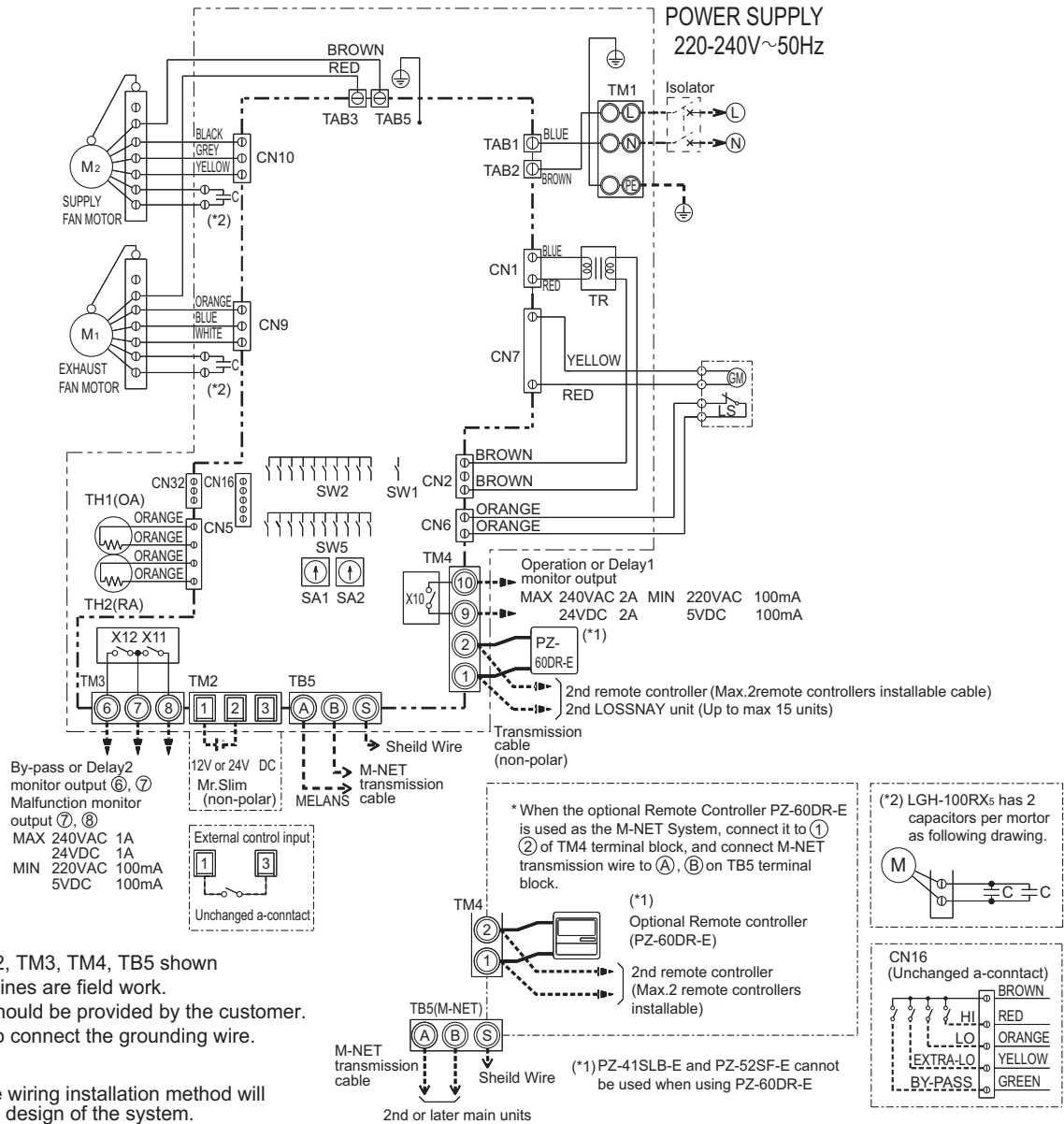
### Attention for specifications

1. Cold operation mode(\*1) is to start repeating in the case that LOSSNAY's detected OA temperature is less than -10°C.  
\*1. Supply air(SA) in the operation for 60min. followed by stop operation for 10min.
2. The current, power consumption and efficiency are based on the air flow rate in the specification.
3. Fan speed is selectable by the remote controller from High (Extra-High), Low, Extra-Low(Extra-Low not equipped LGH-150RX5 and 200RX5).  
Multi Ventilation Mode should set on LOSSNAY unit or remote controller (PZ-60DR-E).
4. LOSSNAY ventilation mode is to start automatically in the case that LOSSNAY's detected OA temperature is less than +8°C, even if By-pass ventilation is set by remote controller.  
Remote controller continue to show "By-pass ventilation" in this case.
5. Temperature Exchange efficiency(%) are based on winter condition.
6. Mitsubishi Electric measures the machine according to the Japan Industrial Standards(JIS B 8628)

### Attention

1. When using the product where it is exposed to high temperatures and humidity (40°C or higher, RH 80% or higher), or where fog occurs frequently, moisture is likely to condense in the core, and may result in condensation build up in the unit. The product should not be used under such conditions.
2. Outdoor air may enter the LOSSNAY owing to the pressure difference between indoor and outdoor or external winds even when the product is not operated. It is recommended to install an Electrically operated damper to block the outdoor air.
3. In a cold weather area, an area with strong external winds or where fog occurs frequently, cold outdoor air, external winds or fog may be introduced into the product when its operation is stopped.  
It is recommended to install an Electrically operated damper.
4. In a cold weather area, or others, dewing or freezing could occur on the main unit, where the duct is connected, or other sections, depending on the conditions of outdoor air and indoor temperature and moisture, even if they are within the range of operating conditions. Make sure to confirm the operating conditions and other precautions, and do not use the product if dewing or freezing is anticipated.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor louvres from LOSSNAY, and properly insulated. (The entry of rain water may cause power leakage, fire, or damage to household property)
6. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming.  
If it is expected that the ambient temperature around the place where the LOSSNAY unit is installed will be high during the summer air conditioning season, it is recommended that the indoor ductwork be covered with insulation material.
7. Inspection opening (450 × 450 or 600 × 600mm) must be installed on the filter and LOSSNAY

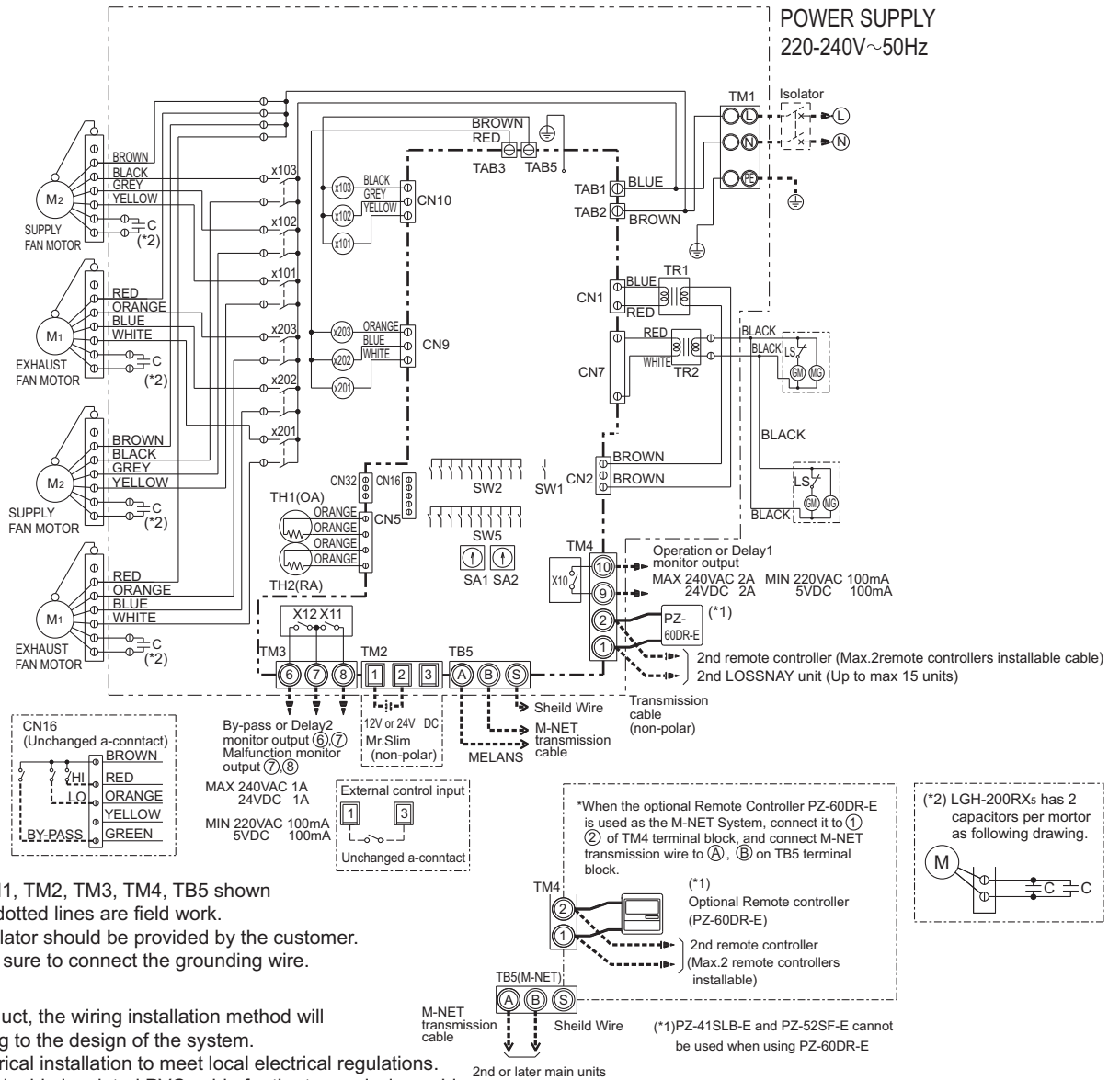
## LGH-15RX5 to 100RX5



### Definition of Symbols

M1:	Motor for exhaust fan	CN1:	Connector (Transformer primary)
M2:	Motor for supply fan	CN2:	Connector (Transformer secondary)
C:	Capacitor	CN5:	Connector (Thermistor)
GM:	Motor for By-pass operation	CN6:	Connector (Microswitch)
LS:	Microswitch	CN7:	Connector (Motor for By-pass operation)
TH1:	Thermistor for outside air	TAB3:	Tab connector (Fan motor)
TH2:	Thermistor for return air	TAB5:	Tab connector (Fan motor)
SW1:	Switch (Main/Sub change)	CN9:	Connector (Fan motor)
SW2, 5:	Switch (Function selection)	CN10:	Connector (Fan motor)
TM1:	Terminal block (Power supply)	CN16:	Connector (High/Low/By-pass switch)
TM2:	Terminal block (External control input)	CN32:	Connector (Remote control selection)
TM3:	Terminal block (Monitor output)	SA1:	Address setting rotary switch (10 digit)
TM4:	Terminal block (Transmission cable and monitor output)	SA2:	Address setting rotary switch (1 digit)
TB5:	Terminal block (M-NET Transmission cable)	SYMBOL	○ □ : Indicates terminal block.
TAB1, TAB2:	Connector (Power supply)		⊙ : Connector.
TR1:	Control circuit transformer		⊠ : Board insertion connector or fastening connector of control board.
X10, X11, X12:	Relay contact		

## LGH-150RX5 and 200RX5



- NOTE 1. TM1, TM2, TM3, TM4, TB5 shown in dotted lines are field work.  
2. Isolator should be provided by the customer.  
3. Be sure to connect the grounding wire.

**\*Attention**

- With this product, the wiring installation method will vary according to the design of the system.  
Perform electrical installation to meet local electrical regulations.  
·Always use double insulated PVC cable for the transmission cables.  
·Wiring work must be performed by qualified professionals.  
·All supply circuits must be disconnected before obtaining access to the terminal devices.

\*Specifications may be subject to change without notice.

**Definition of Symbols**

M1:	Motor for exhaust fan	X10,X11,X12:	Relay contact
M2:	Motor for supply fan	X101,X102,X103:	Relay Supply fan speed control
C:	Capacitor	X201,X202,X203:	Relay Exhaust fan speed control
GM:	Motor for By-pass operation	CN1:	Connector (Transformer primary)
LS:	Microswitch	CN2:	Connector (Transformer secondary)
TH1:	Thermistor for outside air	CN5:	Connector (Thermistor)
TH2:	Thermistor for return air	CN6:	Connector (Microswitch)
SW1:	Switch (Main/Sub change)	CN7:	Connector (Motor for By-pass operation)
SW2, 5:	Switch (Function selection)	CN9:	Connector (Fan motor)
TM1:	Terminal block (Power supply)	TAB3:	Tab connector (Fan motor)
TM2:	Terminal block (External control input)	TAB5:	Tab connector (Fan motor)
TM3:	Terminal block (Monitor output)	CN9:	Connector (Fan motor)
TM4:	Terminal block (Transmission cable and monitor output)	CN10:	Connector (Fan motor)
TB5:	Terminal block (M-NET Transmission cable)	CN16:	Connector (High/Low/By-pass switch)
TAB1,TAB2:	Connector (Power supply)	CN32:	Connector (Remote control selection)
TR1:	Control circuit transformer	SA1:	Address setting rotary switch (10 digit)
TR2:	By-pass operation transformer	SA2:	Address setting rotary switch (1 digit)
		SYMBOL	○ □ : Indicates terminal block. ⊕ : Connector. ⊕ : Board insertion connector or fastening connector of control board.

LOSSNAY



**GUF-RD3, GUF-RDH3**

1. SPECIFICATIONS ..... 1 - 213

2. SOUND LEVELS ..... 1 - 214

    2-1. Measurement Condition..... 1 - 214

    2-2. NC curves ..... 1 - 214

3. FAN CHARACTERISTICS CURVES..... 1 - 215

4. EXTERNAL DIMENSIONS ..... 1 - 216

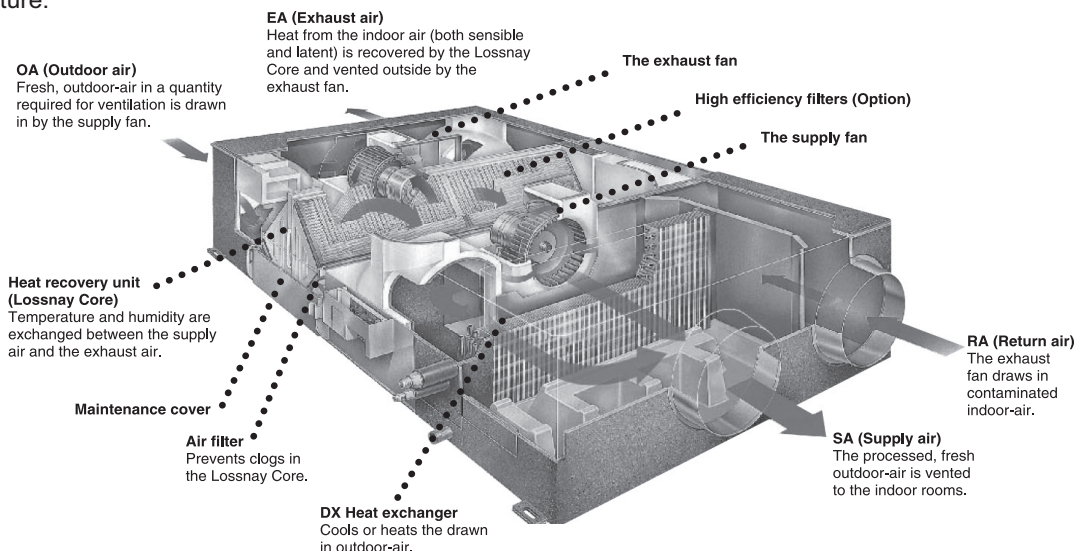
5. ELECTRICAL WIRING DIAGRAMS ..... 1 - 217

# OA Processing unit

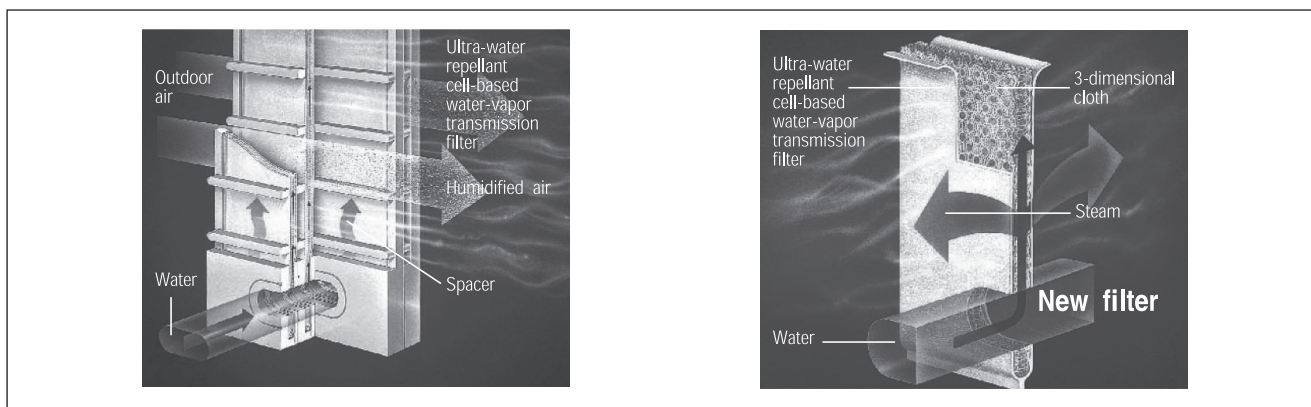
OA Processing unit GUF-RD(H)<sub>3</sub> combines the characteristics of LOSSNAY and air conditioning function of indoor unit, offers perfect air conditioning in which fresh outdoor air, humidity, temperature adjustment are all considered.

Moreover, GUF-RD(H)<sub>3</sub> realizes the air conditioning solution at the most energy saving method.

## GUF Structure:

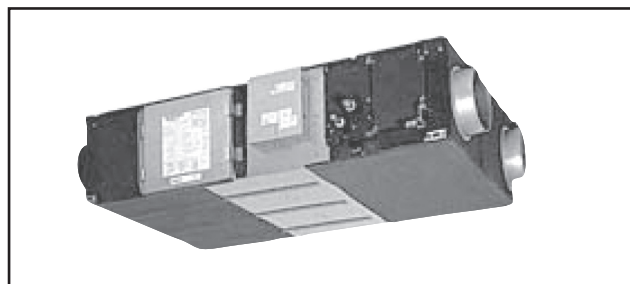


## Permeable Film Humidifier (GUF-RDH Model)



OA Processing unit

## Line up of OA Processing units



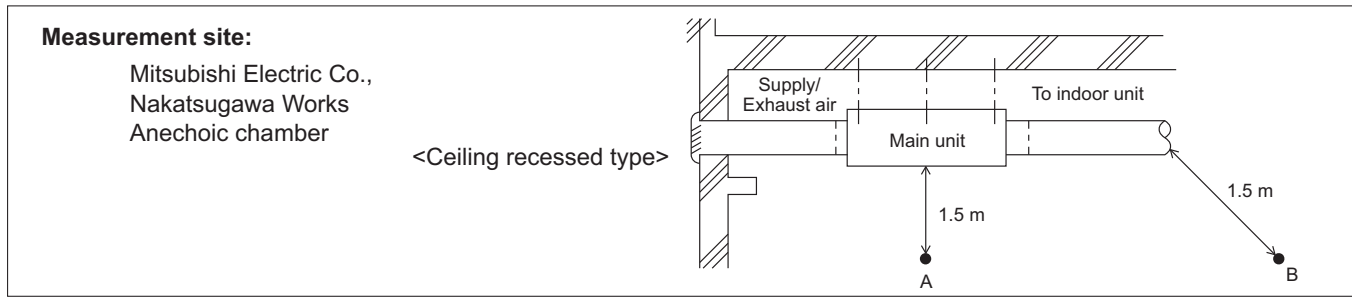
GUF-50RD <sub>3</sub>	500m <sup>3</sup> /h	1-phase 220-240V 50Hz, 1-phase 220V 60Hz
GUF-100RD <sub>3</sub>	1000m <sup>3</sup> /h	1-phase 220-240V 50Hz, 1-phase 220V 60Hz
GUF-50RDH <sub>3</sub>	500m <sup>3</sup> /h	1-phase 220-240V 50Hz, 1-phase 220V 60Hz
GUF-100RDH <sub>3</sub>	1000m <sup>3</sup> /h	1-phase 220-240V 50Hz, 1-phase 220V 60Hz

# 1. SPECIFICATIONS

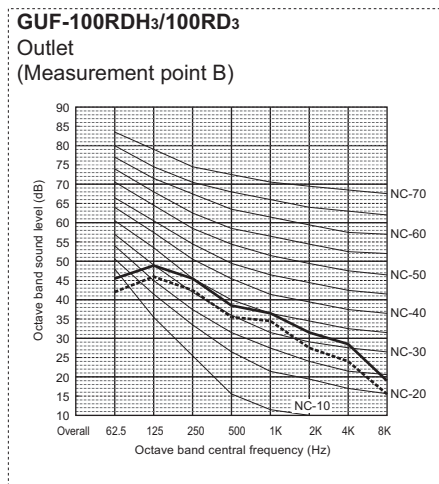
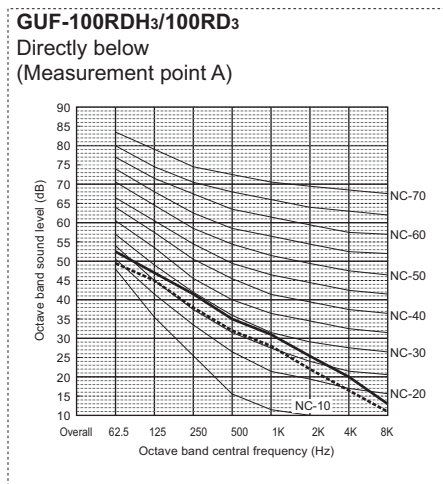
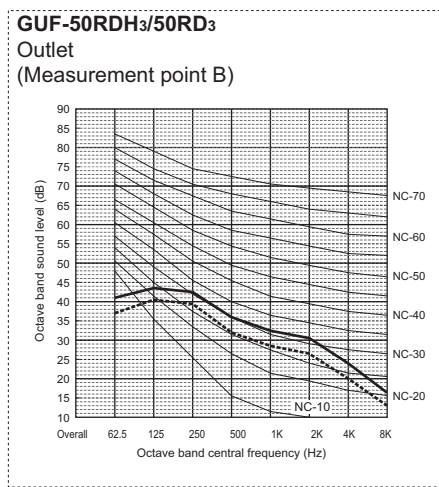
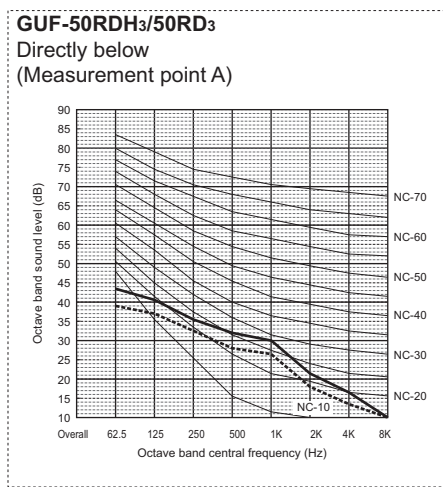
Model			GUF-50RDH <sub>3</sub>		GUF-100RDH <sub>3</sub>		GUF-50RD <sub>3</sub>		GUF-100RD <sub>3</sub>	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz							
Cooling capacity Figure in < > is the recovery capacity by LOSSNAY core.	*1	kW	5.46	<1.83>	11.17	<3.85>	5.46	<1.83>	11.17	<3.85>
	*1	kcal / 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>
*4	Power input	W	235-265		480-505		235-265		480-505	
*4	Current input	A	1.15		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>
	*4	Power input	W	235-265		480-505		235-265		480-505
*4	Current input	A	1.15		2.20		1.15		2.20	
Capacity equivalent to indoor unit			P32		P63		P32		P63	
Humidifying capacity		kg / h	2.7		5.4		-		-	
		lbs / h	6.0		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 (lbs)	57 (126)		98 (217)		54 (120)		92 (203)	
Heat exchanger			Partition, Cross-flow structure, Special preserved paper-plate.							
Refrigerant coil			Cross fin (Aluminium fin and copper tube)							
FAN			SA: Centrifugal fan (Sirocco fan) x 1 EA: Centrifugal fan (Sirocco fan) x 1							
External static press. *5		Pa	125		135		140		140	
		mmH <sub>2</sub> 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 <sup>3</sup> / h	500		1,000		500		1,000	
		L / s	139		278		139		278	
		cfm	294		589		294		589	
Sound pressure level (Low-High) (measured in anechoic room) *4		dB <A>	33.5-34.5		38-39		33.5-34.5		38-39	
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 CITY MULTI							
Diameter of refrigerant pipe		Liquid	mm (in.)		ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare		ø6.35 (ø1/4) Flare	
		Gas	mm (in.)		ø12.7 (ø1/2) Flare		ø15.88 (ø5/8) Flare		ø12.7 (ø1/2) Flare	
Field drain pipe size		mm (in.)	Socket(I.D. 32mm (1-1/4))+O.D. 32mm (1-1/4)							
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-E (for GUF-50RDH <sub>3</sub> , GUF-50RD <sub>3</sub> ) PZ-100RFM-E (for GUF-100RDH <sub>3</sub> , GUF-100RD <sub>3</sub> )							
		Installation	Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.							
<b>Note :</b>			*1 Nominal cooling conditions		*2 Nominal cooling conditions		*3 Nominal heating conditions		Unit converter	
			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)		27°CDB/19.5°CWB (81°FDB/67°FWB) 35°CDB (95°FDB) 5 m (16-3/8 ft) 0 m (0 ft)		20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft)		kcal/h = kW x 860 BTU/h = kW x 3,412 cfm = m <sup>3</sup> /min x 35.31 lbs = 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.							
			*4 The values are measured at the rated external static pressure.							
			*5 The figure in < > indicates the value when external static pressure is changed.							
			*Above specification data is subject to rounding variation.							



## 2-1. Measurement Condition

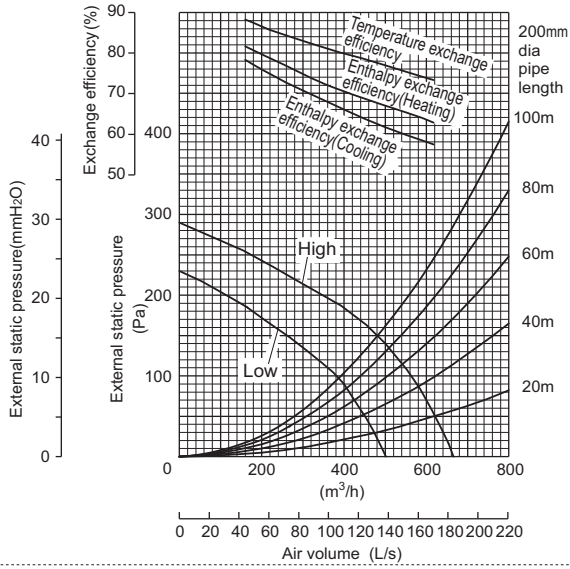


## 2-2. NC curves

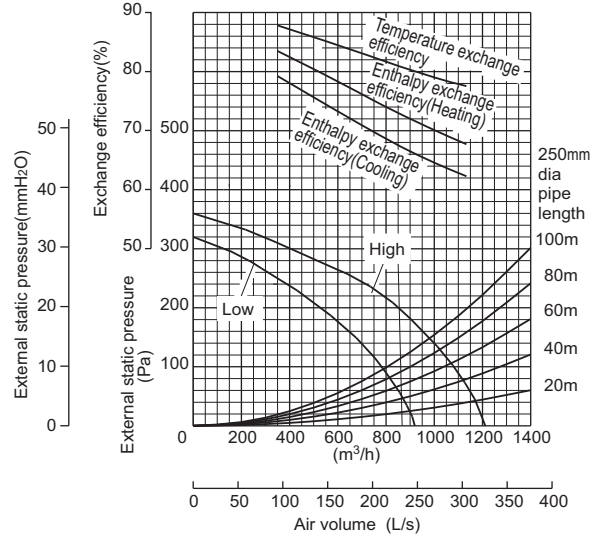


OA  
Processing unit

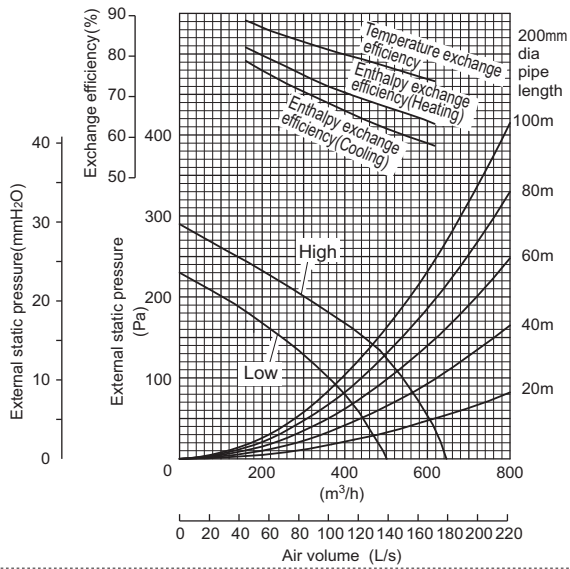
**GUF-50RD3**  
Non-Humidifying Type



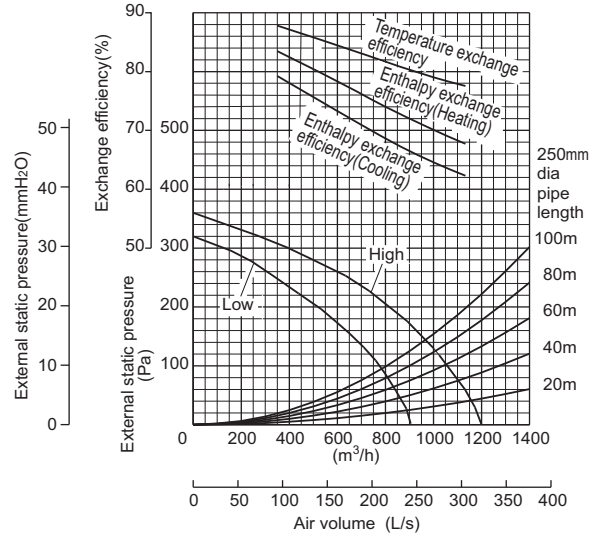
**GUF-100RD3**  
Non-Humidifying Type



**GUF-50RDH3**  
Humidifying Type



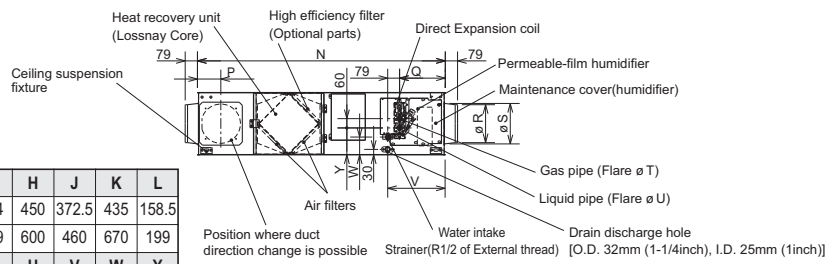
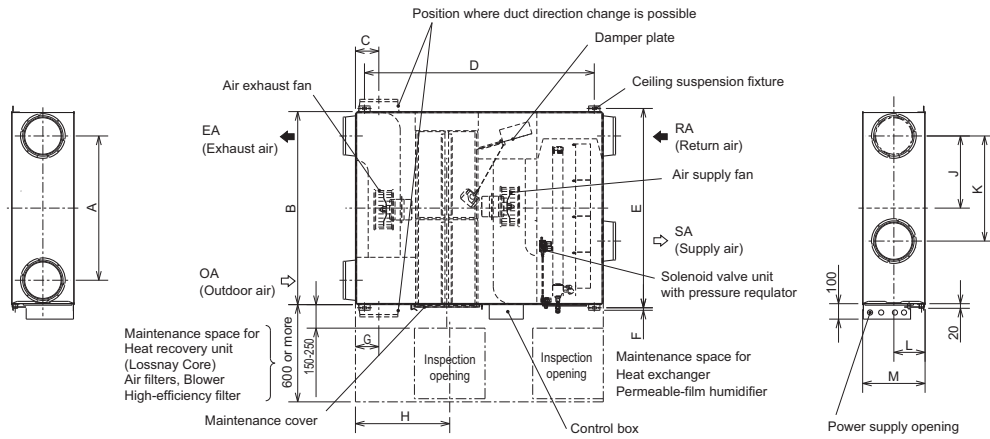
**GUF-100RDH3**  
Humidifying Type



GUF-50,100RD(H)<sub>3</sub>

Humidifying Type GUF-50/100RDH<sub>3</sub>

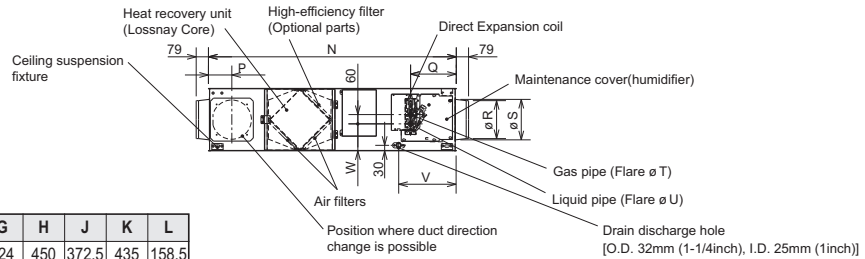
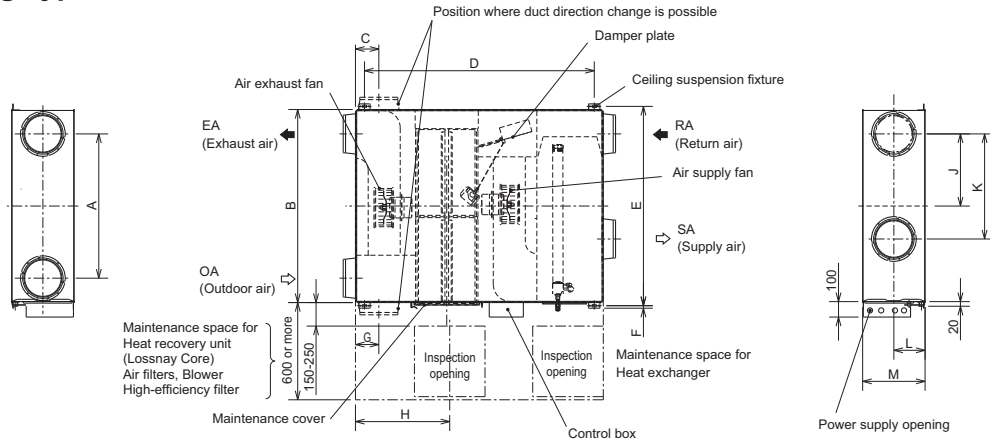
Unit : mm



Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RDH <sub>3</sub>	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RDH <sub>3</sub>	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 <sub>3</sub>	317	1,288	124	266	192	208	12.7	6.35	347	99	135
GUF-100RDH <sub>3</sub>	398	1,580	149	280	242	258	15.88	9.52	361	110	169

Non-Humidifying Type GUF-50/100RD<sub>3</sub>

Unit : mm

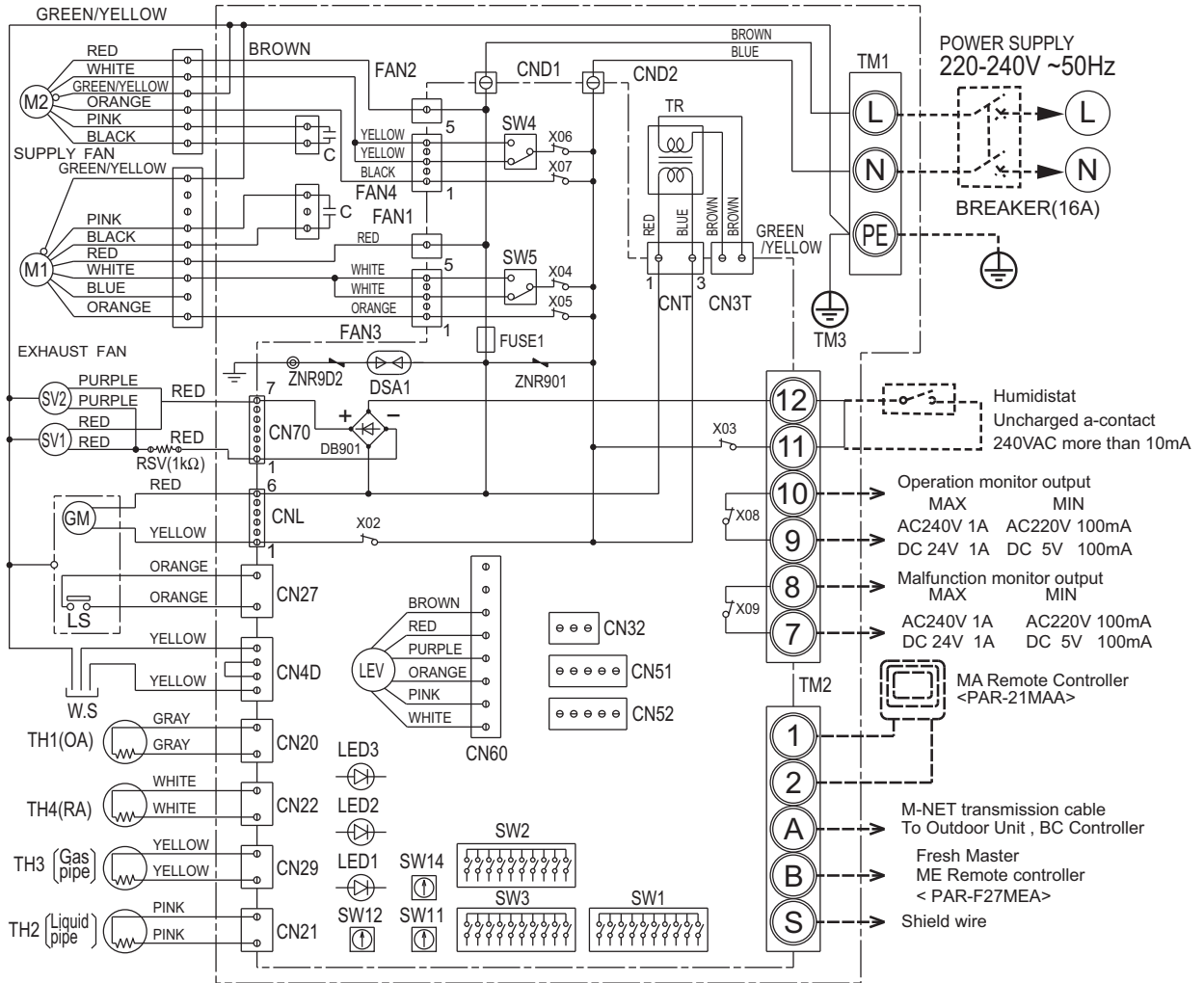


Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RD <sub>3</sub>	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RD <sub>3</sub>	920	1,231	149	1,465	1,271	16	149	600	460	670	199
Model	M	N	P	Q	R	S	T	U	V	W	Y
GUF-50RD <sub>3</sub>	317	1,288	124	266	192	208	12.7	6.35	347	99	135
GUF-100RD <sub>3</sub>	398	1,580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

OA Processing unit

Humidifying Type GUF-50/100RDH3

- 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.

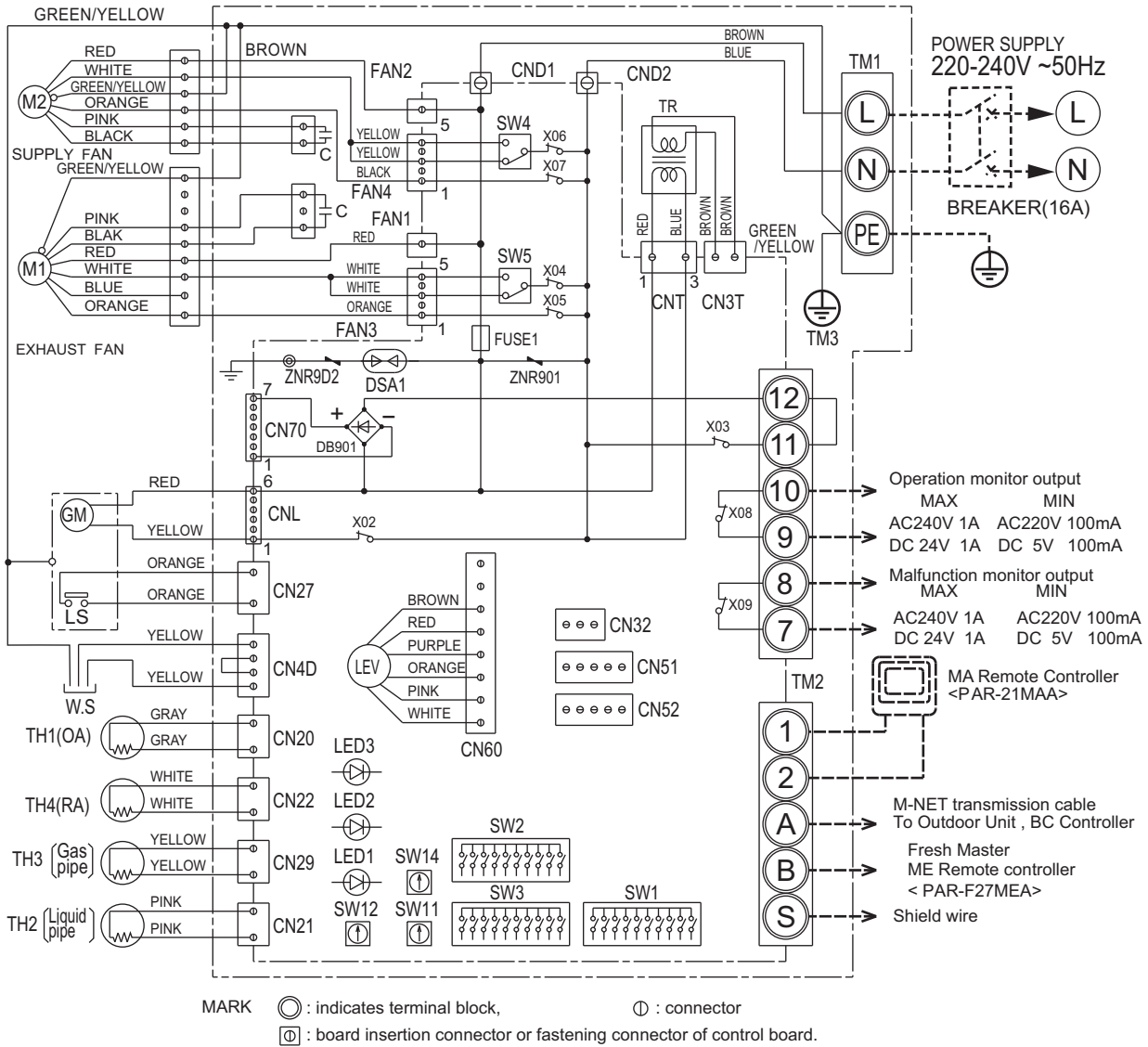
Symbol Explanation

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)	LED3	Power supply monitor
RSV	Resistance (solenoid valve)	CN51, CN52	Connector (Remote input/output)		M-NET Power supply monitor

Processing unit  
OA

## Non-Humidifying Type GUF-50/100RD<sub>3</sub>

- 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)		Power supply monitor
		CN51, CN52	Connector (Remote input/output)	LED3	M-NET Power supply monitor

OA Processing unit

**CMB-P-V-G1, CMB-P-V-GA1, CMB-P-V-HA1, CMB-P-V-GB1, CMB-P-V-HB1**

1. SPECIFICATIONS .....	1 - 220
2. EXTERNAL DIMENSIONS .....	1 - 229
3. ELECTRICAL WIRING DIAGRAMS .....	1 - 234

# 1. SPECIFICATIONS

EP-YKM

Model name			CMB-P104V-G1		CMB-P105V-G1	
Number of branch			4		5	
Power source			1-phase 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input (220/230/240)	Cooling	kW	0.067/0.076/0.085	0.054/0.061/0.067	0.082/0.093/0.104	0.066/0.074/0.082
	Heating		0.030/0.034/0.038	0.024/0.027/0.030	0.038/0.043/0.048	0.030/0.034/0.038
Current (220/230/240)	Cooling	A	0.31/0.34/0.36	0.25/0.27/0.28	0.38/0.41/0.44	0.30/0.33/0.35
	Heating		0.14/0.15/0.16	0.11/0.12/0.13	0.18/0.19/0.20	0.14/0.15/0.16
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit/heatsource unit			PURY-(E)P200/250/300/350YJM-A(-BS) PQRY-P200/250/300YHM-A			
Indoor unit capacity connectable to 1 branch			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81. )			
External dimension H x W x D		mm (in.)	284 x 648 x 432 (11-3/16 x 25-17/32 x 17-1/32)			
Refrigerant piping diameter	Connectable outdoor unit capacity		<b>To outdoor unit</b>			
			<b>High press. pipe</b>		<b>Low press. pipe</b>	
	to P200		15.88 (5/8)		19.05 (3/4)	
	mm (in.) O.D.		Braze		Braze	
	P250/P300		19.05 (3/4)		22.2 (7/8)	
	mm (in.) O.D.		Braze		Braze	
	to P350		19.05 (3/4)		28.58 (1-1/8)	
	mm (in.) O.D.		Braze		Braze	
			<b>To indoor unit</b>			
			<b>Liquid pipe</b>		<b>Gas pipe</b>	
mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Braze		Indoor unit Model 50 or smaller 12.7 (1/2) Braze		
		bigger than 50 9.52 (3/8) Braze		bigger than 50 15.88 (5/8) Braze		
		(12.7 (1/2) with optional joint pipe used.)		(19.05 (3/4) with optional joint pipe used.)		
Field drain pipe size		mm (in.) O.D.	32 (1-1/4)			
Net weight		kg (lbs)	24 (53)		27 (60)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark						
Note:			<ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>4. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>5. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>			

Ref.: Spec\_CMB-P104-105V-G1

# 1. SPECIFICATIONS

EP-YKM

Model name			CMB-P106V-G1		CMB-P108V-G1	
Number of branch			6		8	
Power source			1-phase 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input (220/230/240)	Cooling	kW	0.097/0.110/0.123	0.078/0.088/0.097	0.127/0.144/0.161	0.102/0.115/0.127
	Heating		0.045/0.051/0.057	0.036/0.041/0.045	0.060/0.068/0.076	0.048/0.054/0.060
Current (220/230/240)	Cooling	A	0.45/0.48/0.52	0.36/0.39/0.41	0.58/0.63/0.68	0.47/0.50/0.53
	Heating		0.21/0.23/0.24	0.17/0.18/0.19	0.28/0.30/0.32	0.22/0.24/0.25
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit/heatsource unit			PURY-(E)P200/250/300/350YJM-A-(BS) PQRY-P200/250/300YHM-A			
Indoor unit capacity connectable to 1 branch			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81 . )			
External dimension H x W x D		mm (in.)	284 x 648 x 432 (11-3/16 x 25-17/32 x 17-1/32)			
Refrigerant piping diameter	Connectable outdoor unit capacity		<b>To outdoor unit</b>			
			<b>High press. pipe</b>		<b>Low press. pipe</b>	
	to P200		15.88 (5/8)		19.05 (3/4)	
	mm (in.) O.D.		Brazed		Brazed	
	P250/P300		19.05 (3/4)		22.2 (7/8)	
	mm (in.) O.D.		Brazed		Brazed	
	to P350		19.05 (3/4)		28.58 (1-1/8)	
	mm (in.) O.D.		Brazed		Brazed	
			<b>To indoor unit</b>			
			<b>Liquid pipe</b>		<b>Gas pipe</b>	
mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed		Indoor unit Model 50 or smaller 12.7 (1/2) Brazed		
		bigger than 50 9.52 (3/8) Brazed (12.7 (1/2) with optional joint pipe used.)		bigger than 50 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)		
Field drain pipe size		mm (in.) O.D.	32 (1-1/4)			
Net weight		kg (lbs)	28 (62)		33 (73)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark						
<p>Note:</p> <ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>4. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>5. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>						

Ref.: Spec\_CMB-P106-108V-G1



# 1. SPECIFICATIONS

EP-YKM

Model name			CMB-P1010V-G1		CMB-P1013V-G1	
Number of branch			10		13	
Power source			1-phase 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input (220/230/240)	Cooling	kW	0.156/0.177/0.198	0.126/0.141/0.156	0.201/0.228/0.255	0.162/0.182/0.201
	Heating		0.075/0.085/0.095	0.060/0.068/0.075	0.097/0.110/0.123	0.078/0.088/0.097
Current (220/230/240)	Cooling	A	0.71/0.77/0.83	0.58/0.62/0.65	0.92/1.00/1.07	0.74/0.80/0.84
	Heating		0.35/0.37/0.40	0.28/0.30/0.32	0.45/0.48/0.52	0.36/0.39/0.41
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit/heatsource unit			PURY-(E)P200/250/300/350YJM-A(-BS) PQRY-P200/250/300YHM-A			
Indoor unit capacity connectable to 1 branch			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81. )			
External dimension H x W x D		mm (in.)	284 x 648 x 432 (11-3/16 x 25-17/32 x 17-1/32)		284 x 1,098 x 432 (11-3/16 x 43-1/4 x 17-1/32)	
Refrigerant piping diameter	Connectable outdoor unit capacity		To outdoor unit			
			High press. pipe		Low press. pipe	
	to P200		15.88 (5/8)		19.05 (3/4)	
	mm (in.) O.D.		Braze		Braze	
	P250/P300		19.05 (3/4)		22.2 (7/8)	
	mm (in.) O.D.		Braze		Braze	
	to P350		19.05 (3/4)		28.58 (1-1/8)	
	mm (in.) O.D.		Braze		Braze	
			To indoor unit			
			Liquid pipe		Gas pipe	
mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Braze bigger than 50 9.52 (3/8) Braze (12.7 (1/2) with optional joint pipe used.)		Indoor unit Model 50 or smaller 12.7 (1/2) Braze bigger than 50 15.88 (5/8) Braze (19.05 (3/4) with optional joint pipe used.)		
Field drain pipe size		mm (in.) O.D.	32 (1-1/4)			
Net weight		kg (lbs)	38 (84)		45 (100)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark						
Note:			<ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>4. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>5. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>			

Ref.: Spec\_CMB-P1010-1013V-G1

# 1. SPECIFICATIONS

EP-YKM

<b>Model name</b>			<b>CMB-P1016V-G1</b>	
<b>Number of branch</b>			16	
<b>Power source</b>			1-phase 220/230/240V	
			50Hz	60Hz
<b>Power input</b> (220/230/240)	Cooling	kW	0.246/0.279/0.312	
	Heating		0.198/0.222/0.246	
<b>Current</b> (220/230/240)	Cooling	A	0.119/0.135/0.151	
	Heating		0.096/0.108/0.119	
<b>External finish</b>	Galvanized steel plate			
	(Lower part drain pan painting N1.5)			
<b>Connectable outdoor unit/heatsource unit</b>			PURY-(E)P200/250/300/350YJM-A(-BS) PQRY-P200/250/300YHM-A	
<b>Indoor unit capacity connectable to 1 branch</b>			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81 . )	
<b>External dimension H x W x D</b>		mm (in.)	284 x 1,098 x 432 (11-3/16 x 43-1/4 x 17-1/32)	
<b>Refrigerant piping diameter</b>	<b>Connectable outdoor unit capacity</b>		<b>To outdoor unit</b>	
			<b>High press. pipe</b>	<b>Low press. pipe</b>
	to P200		15.88 (5/8)	19.05 (3/4)
	mm (in.) O.D.		Brazed	Brazed
	P250/P300		19.05 (3/4)	22.2 (7/8)
	mm (in.) O.D.		Brazed	Brazed
	to P350		19.05 (3/4)	28.58 (1-1/8)
	mm (in.) O.D.		Brazed	Brazed
			<b>To indoor unit</b>	
			<b>Liquid pipe</b>	<b>Gas pipe</b>
mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed (12.7 (1/2) with optional joint pipe used.)	Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)	
<b>Field drain pipe size</b>		mm (in.) O.D.	32 (1-1/4)	
<b>Net weight</b>		kg (lbs)	52 (115)	
<b>Accessories</b>			Drain Connection pipe (with flexible hose and insulation) Reducer	
<b>Remark</b>				
<b>Note:</b> <ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>4. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>5. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>				

Ref.: Spec\_CMB-P1016V-G1

# 1. SPECIFICATIONS

EP-YKM

Model name			CMB-P108V-GA1		CMB-P1010V-GA1	
Number of branch			8		10	
Power source			1-phase 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input (220/230/240)	Cooling	kW	0.127/0.144/0.161	0.102/0.115/0.127	0.156/0.177/0.198	0.126/0.141/0.156
	Heating		0.060/0.068/0.076	0.048/0.054/0.060	0.075/0.085/0.095	0.060/0.068/0.075
Current (220/230/240)	Cooling	A	0.58/0.63/0.68	0.47/0.50/0.53	0.71/0.77/0.83	0.58/0.62/0.65
	Heating		0.28/0.30/0.32	0.22/0.24/0.25	0.35/0.37/0.40	0.28/0.30/0.32
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit/heatsource unit			PURY-(E)P200/250/300/350/400/450/500/550/600/650Y(S)JM-A(1)(-BS) PQRY-P200/250/300/400/450/500/550/600Y(S)HM-A			
Indoor unit capacity connectable to 1 branch			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81. )			
External dimension H x W x D		mm (in.)	289 x 1,110 x 520 (11-13/32 x 43-23/32 x 20-1/2)			
Refrigerant piping diameter	Connectable outdoor unit capacity		<b>To outdoor unit</b>			
			<b>High press. pipe</b>		<b>Low press. pipe</b>	
	to P200		15.88 (5/8)		19.05 (3/4)	
	mm (in.) O.D.		Braze		Braze	
	P250/P300		19.05 (3/4)		22.2 (7/8)	
	mm (in.) O.D.		Braze		Braze	
	to P350		19.05 (3/4)		28.58 (1-1/8)	
	mm (in.) O.D.		Braze		Braze	
	P400 to P500		22.2 (7/8)		28.58 (1-1/8)	
	mm (in.) O.D.		Braze		Braze	
	P550 to P650		28.58 (1-1/8)		28.58 (1-1/8)	
	mm (in.) O.D.		Braze		Braze	
			<b>To indoor unit</b>			
			<b>Liquid pipe</b>		<b>Gas pipe</b>	
mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Braze bigger than 50 9.52 (3/8) Braze (12.7 (1/2) with optional joint pipe used.)		Indoor unit Model 50 or smaller 12.7 (1/2) Braze bigger than 50 15.88 (5/8) Braze (19.05 (3/4) with optional joint pipe used.)		
Total indoor unit capacity connected to this Sub BC controller		<b>To other BC controller</b>				
		<b>High press. pipe</b>		<b>Low press. pipe</b>		
		<b>Liquid pipe</b>				
to P200		15.88 (5/8) Braze		19.05 (3/4) Braze		
mm (in.) O.D.		9.52 (3/8) Braze				
P201 to P300		19.05 (3/4) Braze		22.2 (7/8) Braze		
mm (in.) O.D.		9.52 (3/8) Braze				
P301 to P350		19.05 (3/4) Braze		28.58 (1-1/8) Braze		
mm (in.) O.D.		12.7 (1/2) Braze				
Field drain pipe size		mm (in.) O.D.		32 (1-1/4)		
Net weight		kg (lbs)		43 (95) 48 (106)		
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark						
Note:			<ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>4. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>5. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>			

Ref.: Spec\_CMB-P108-1010V-GA1

# 1. SPECIFICATIONS

EP-YKM

Model name			CMB-P1013V-GA1		CMB-P1016V-GA1	
Number of branch			13		16	
Power source			1-phase 220/230/240V			
			50Hz	60Hz-	50Hz	60Hz-
Power input (220/230/240)	Cooling	kW	0.201/0.228/0.255	0.162/0.182/0.201	0.246/0.279/0.312	0.198/0.222/0.246
	Heating		0.097/0.110/0.123	0.078/0.088/0.097	0.119/0.135/0.151	0.096/0.108/0.119
Current (220/230/240)	Cooling	A	0.92/1.00/1.07	0.74/0.80/0.84	1.12/1.22/1.30	0.90/0.97/1.03
	Heating		0.45/0.48/0.52	0.36/0.39/0.41	0.55/0.59/0.63	0.44/0.47/0.50
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable outdoor unit/heatsource unit			PURY-(E)P200/250/300/350/400/450/500/550/600/650Y(S)JM-A(1)(-BS) PQRY-P200/250/300/400/450/500/550/600Y(S)HM-A			
Indoor unit capacity connectable to 1 branch			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81. )			
External dimension H x W x D		mm (in.)	289 x 1,110 x 520 (11-13/32 x 43-23/32 x 20-1/2)			
Refrigerant piping diameter	Connectable outdoor unit capacity		<b>To outdoor unit</b>			
			<b>High press. pipe</b>		<b>Low press. pipe</b>	
	to P200		15.88 (5/8)		19.05 (3/4)	
	mm (in.) O.D.		Brazed		Brazed	
	P250/P300		19.05 (3/4)		22.2 (7/8)	
	mm (in.) O.D.		Brazed		Brazed	
	to P350		19.05 (3/4)		28.58 (1-1/8)	
	mm (in.) O.D.		Brazed		Brazed	
	P400 to P500		22.2 (7/8)		28.58 (1-1/8)	
	mm (in.) O.D.		Brazed		Brazed	
	P550 to P650		28.58 (1-1/8)		28.58 (1-1/8)	
	mm (in.) O.D.		Brazed		Brazed	
			<b>To indoor unit</b>			
			<b>Liquid pipe</b>		<b>Gas pipe</b>	
mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed (12.7 (1/2) with optional joint pipe used.)		Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)		
Total indoor unit capacity connected to this Sub BC controller		<b>To other BC controller</b>				
		<b>High press. pipe</b>		<b>Low press. pipe</b>		
		<b>Liquid pipe</b>				
to P200		15.88 (5/8) Brazed		19.05 (3/4) Brazed		
mm (in.) O.D.		9.52 (3/8) Brazed				
P201 to P300		19.05 (3/4) Brazed		22.2 (7/8) Brazed		
mm (in.) O.D.		9.52 (3/8) Brazed				
P301 to P350		19.05 (3/4) Brazed		28.58 (1-1/8) Brazed		
mm (in.) O.D.		12.7 (1/2) Brazed				
Field drain pipe size	mm (in.) O.D.	32 (1-1/4)				
Net weight	kg (lbs)	55 (122)		62 (137)		
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark						
Note:			<ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>4. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>5. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>			

Ref.: Spec\_CMB-P1013-1016V-GA1

BC

# 1. SPECIFICATIONS

EP-YKM

<b>Model name</b>			<b>CMB-P1016V-HA1</b>	
Number of branch			16	
Power source			1-phase 220/230/240V	
			50Hz	60Hz
Power input (220/230/240)	Cooling	kW	0.246/0.279/0.312	
	Heating		0.119/0.135/0.151	
Current (220/230/240)	Cooling	A	1.12/1.22/1.30	
	Heating		0.55/0.59/0.63	
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)	
Connectable outdoor unit/heatsource unit			PURY-(E)P700/750/800/850/900YSJM-A(1)(-BS)	
Indoor unit capacity connectable to 1 branch			Model P80 or smaller ( Use optional joint pipe combing 2 branches when the total unit capacity exceeds 81. )	
External dimension H x W x D		mm (in.)	289 x 1,110 x 520 (11-13/32 x 43-23/32 x 20-1/2)	
Refrigerant piping diameter	Connectable outdoor unit capacity		<b>To outdoor unit</b>	
			<b>High press. pipe</b>	<b>Low press. pipe</b>
	P700/P750/ P800 mm (in.) O.D.		28.58 (1-1/8) Braze	34.93 (1-3/8) Braze
		P850/P900 mm (in.) O.D.	28.58 (1-1/8) Braze	41.28 (1-5/8) Braze
			<b>To indoor unit</b>	
			<b>Liquid pipe</b>	<b>Gas pipe</b>
	mm (in.) O.D.	Indoor unit Model 50 or smaller	6.35 (1/4) Braze	Indoor unit Model 50 or smaller 12.7 (1/2) Braze
		bigger than 50 (12.7 (1/2) with optional joint pipe used.)	9.52 (3/8) Braze	bigger than 50 15.88 (5/8) Braze (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)
	Total indoor unit capacity connected to this Sub BC controller		<b>To other BC controller</b>	
			<b>High press. pipe</b>	<b>Low press. pipe</b>
		<b>Liquid pipe</b>		
to P200 mm (in.) O.D.		15.88 (5/8) Braze	19.05 (3/4) Braze	
		9.52 (3/8) Braze		
P201 to P300 mm (in.) O.D.		19.05 (3/4) Braze	22.2 (7/8) Braze	
		9.52 (3/8) Braze		
P301 to P350 mm (in.) O.D.		19.05 (3/4) Braze	28.58 (1-1/8) Braze	
		12.7 (1/2) Braze		
P351 to P400 mm (in.) O.D.		22.2 (7/8) Braze	28.58 (1-1/8) Braze	
		12.7 (1/2) Braze		
P401 to P450 mm (in.) O.D.		22.2 (7/8) Braze	28.58 (1-1/8) Braze	
		15.88 (5/8) Braze		
Field drain pipe size	mm (in.) O.D.	32 (1-1/4)		
Net weight	kg (lbs)	69 (153)		
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark				
<p>Note:</p> <ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. When using an outdoor unit -28HP(P700) or more, use this product.</li> <li>4. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>5. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>6. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>				

Ref.: Spec\_CMB-P1016V-HA1

# 1. SPECIFICATIONS

Model name			CMB-P104V-GB1		CMB-P108V-GB1	
Number of branch			4		8	
Power source			1-phase 220/230/240V			
			50Hz	60Hz	50Hz	60Hz
Power input (220/230/240)	Cooling	kW	0.060/0.068/0.076	0.048/0.054/0.060	0.119/0.135/0.151	0.096/0.108/0.119
	Heating		0.030/0.034/0.038	0.024/0.027/0.030	0.060/0.068/0.076	0.048/0.054/0.060
Current (220/230/240)	Cooling	A	0.28/0.30/0.32	0.22/0.24/0.25	0.55/0.59/0.63	0.44/0.47/0.50
	Heating		0.14/0.15/0.16	0.11/0.12/0.13	0.28/0.30/0.32	0.22/0.24/0.25
External finish			Galvanized steel plate (Lower part drain pan painting N1.5)			
Connectable BC controller			CMB-P108/1010/1013/1016V-GA1, CMB-P1016V-HA1 CMB-P104/108V-GB1, CMB-P1016V-HB1			
Indoor unit capacity connectable to 1 branch			Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds 81.)			
External dimension H x W x D		mm (in.)	284 x 648 x 432 (11-3/16 x 25-17/32 x 17-1/32)			
Refrigerant piping diameter			<b>To indoor unit</b>			
			<b>Liquid pipe</b>		<b>Gas pipe</b>	
	mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed (12.7 (1/2) with optional joint pipe used.)		Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)	
	Total indoor unit capacity connected to this Sub BC controller		<b>To other BC controller</b>			
			<b>High press. pipe</b>		<b>Low press. pipe</b>	
			<b>Liquid pipe</b>			
	to P200		15.88 (5/8) Brazed		19.05 (3/4) Brazed	
	mm (in.) O.D.		9.52 (3/8) Brazed			
	P201 to P300		19.05 (3/4) Brazed		22.2 (7/8) Brazed	
	mm (in.) O.D.		9.52 (3/8) Brazed			
P301 to P350		19.05 (3/4) Brazed		28.58 (1-1/8) Brazed		
mm (in.) O.D.		12.7 (1/2) Brazed				
Field drain pipe size		mm (in.) O.D.	32 (1-1/4)			
Net weight		kg (lbs)	22 (49)		32 (71)	
Accessories			Drain Connection pipe (with flexible hose and insulation) Reducer		Drain Connection pipe (with flexible hose and insulation) Reducer	
Remark						
Note:			<ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. For sub BC controller CMB-P-V-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P350 unit.</li> <li>4. To use the Sub BC controller, the Main BC controller is necessary to be connected with.</li> <li>5. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>6. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>			

# 1. SPECIFICATIONS

EP-YKM

<b>Model name</b>		<b>CMB-P1016V-HB1</b>		
Number of branch		16		
Power source		1-phase 220/230/240V		
		50Hz	60Hz	
Power input (220/230/240)	Cooling	kW	0.237/0.269/0.301	
	Heating		0.119/0.135/0.151	
Current (220/230/240)	Cooling	A	1.08/1.17/1.26	
	Heating		0.55/0.59/0.63	
External finish		Galvanized steel plate (Lower part drain pan painting N1.5)		
Connectable BC controller		Main BC	CMB-P108/1010/1013/1016V-GA1, CMB-P1016V-HA1	
		Sub BC	CMB-P104/108V-GB1, CMB-P1016V-HB1	
Indoor unit capacity connectable to 1 branch		Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds 81.)		
External dimension H x W x D		mm (in.)	284 x 1,098 x 432 (11-3/16 x 43-1/4 x 17-1/32)	
Refrigerant piping diameter	Connectable outdoor unit capacity		<b>To outdoor unit</b>	
			<b>High press. pipe</b>	
	mm (in.) O.D.		-	
			<b>To indoor unit</b>	
			<b>Liquid pipe</b>	
	mm (in.) O.D.		Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed (12.7 (1/2) with optional joint pipe used.)	
			<b>Gas pipe</b>	
	mm (in.) O.D.		Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	
	Total indoor unit capacity connected to this Sub BC controller		<b>To other BC controller</b>	
			<b>High press. pipe</b>	<b>Low press. pipe</b>
		<b>Liquid pipe</b>		
to P200		15.88 (5/8) Brazed	19.05 (3/4) Brazed	
mm (in.) O.D.		9.52 (3/8) Brazed		
P201 to P300		19.05 (3/4) Brazed	22.2 (7/8) Brazed	
mm (in.) O.D.		9.52 (3/8) Brazed		
P301 to P350		19.05 (3/4) Brazed	28.58 (1-1/8) Brazed	
mm (in.) O.D.		12.7 (1/2) Brazed		
P351 to P400		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
mm (in.) O.D.		12.7 (1/2) Brazed		
P401 to P450		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
mm (in.) O.D.		15.88 (5/8) Brazed		
Field drain pipe size		mm (in.) O.D.	32 (1-1/4)	
Net weight		kg (lbs)	55 (122)	
Accessories		Drain Connection pipe (with flexible hose and insulation) Reducer		
Remark				
<p>Note:</p> <ol style="list-style-type: none"> <li>1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</li> <li>2. The equipment is for R410A refrigerant.</li> <li>3. For sub BC controller CMB-P1016V-HB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that a P450 unit.</li> <li>4. To use the Sub BC controller, the Main BC controller is necessary to be connected with.</li> <li>5. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors. (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)</li> <li>6. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decrease a little.)</li> <li>7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.</li> </ol>				

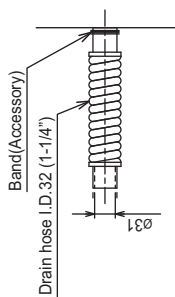
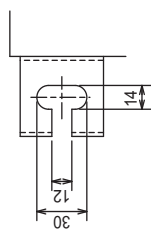
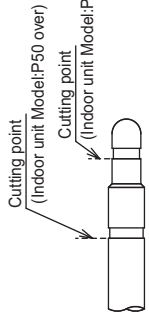
BC

## CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1

Unit : mm

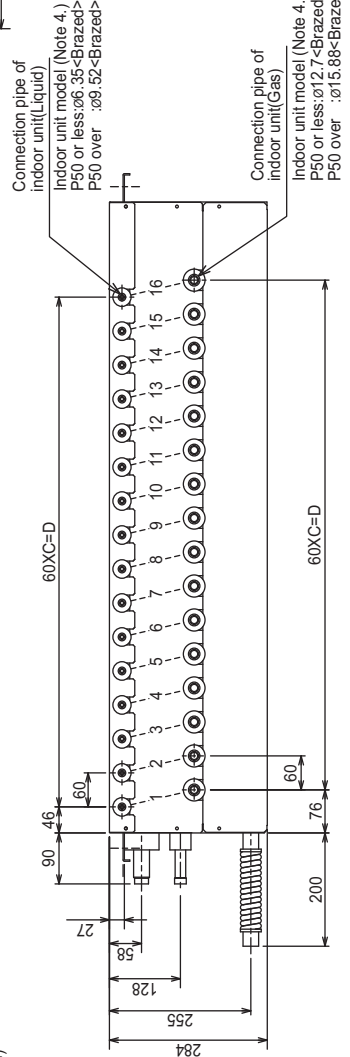
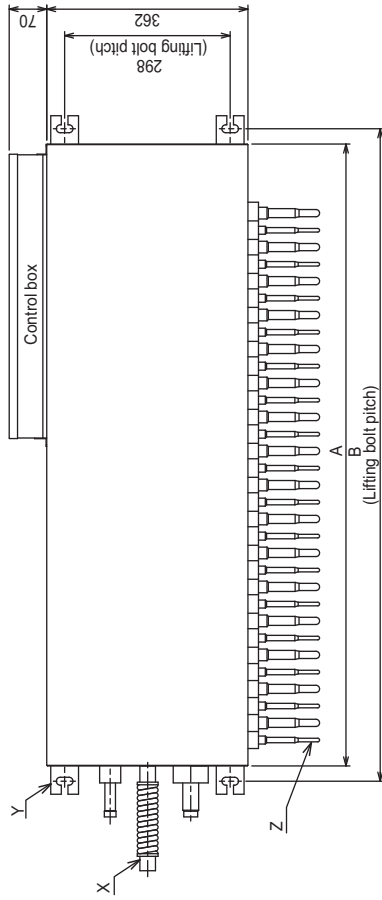
- <Accessories>
- Refrigerant<Low pressure> conn. pipe.....2pcs.
  - Refrigerant<High pressure> conn. pipe.....1pc.
  - Drain hose I.D.32 (1-1/4").....1pc.
  - Hose band.....1pc.
  - Tie band.....1pc.

- Note 1. 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.)  
 3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.  
 (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)  
 4. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.



Connection pipe of outdoor unit(High pressure)  
 P200:φ15.88<Brazed>(use attachment pipe)  
 P250:P300;P350:φ19.05<Brazed>

Connection pipe of outdoor unit(Low pressure)  
 P200:φ19.05<Brazed>(use attachment pipe)  
 P250:P300;φ22.2<Brazed>  
 P350:φ28.6<Brazed>(use attachment pipe)



	A	B	C	D
CMB-P104V-G1			3	180
CMB-P105V-G1			4	240
CMB-P106V-G1	648	702	5	300
CMB-P108V-G1			7	420
CMB-P1010V-G1			9	540
CMB-P1013V-G1			12	720
CMB-P1016V-G1	1098	1152	15	900



## CMB-P108, 1010, 1013, 1016V-GA1

Unit : mm

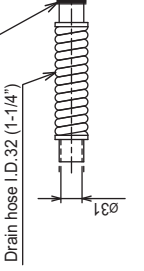
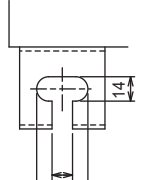
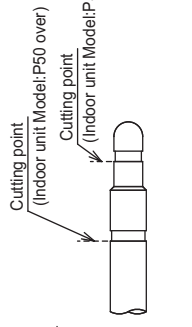
- <Accessories>
- Refrigerant<Low pressure> conn. pipe.....1pc.
  - Refrigerant<High pressure> conn. pipe...2pcs.
  - Drain hose I.D.32 (1-1/4").....1pc.
  - Hose band.....1pc.
  - Tie band.....1pc.

Connection pipe of SUB BC CONTROLLER (High pressure)  
 Total capacity of indoor unit at SUB BC CONTROLLER (use attachment pipe of SUB BC CONTROLLER)  
 P200 or less:φ15.88<Brazed>  
 P350 or less:φ19.05<Brazed>  
 P350 over :φ22.2<Brazed> (use attachment pipe of JOINT<option>)

Connection pipe of SUB BC CONTROLLER (Liquid)  
 Total capacity of indoor unit at SUB BC CONTROLLER  
 P300 or less :φ9.52<Brazed>  
 P400 or less :φ12.7<Brazed> (use attachment pipe of SUB BC CONTROLLER)  
 P400 over :φ15.88<Brazed> (use attachment pipe of JOINT<option>)

Connection pipe of SUB BC CONTROLLER (Low pressure)  
 Total capacity of indoor unit at SUB BC CONTROLLER  
 P200 or less:φ19.05<Brazed> (use attachment pipe of SUB BC CONTROLLER)  
 P300 or less:φ22.2<Brazed> (use attachment pipe of SUB BC CONTROLLER)  
 P300 over:φ28.6<Brazed> (use attachment pipe of SUB BC CONTROLLER)

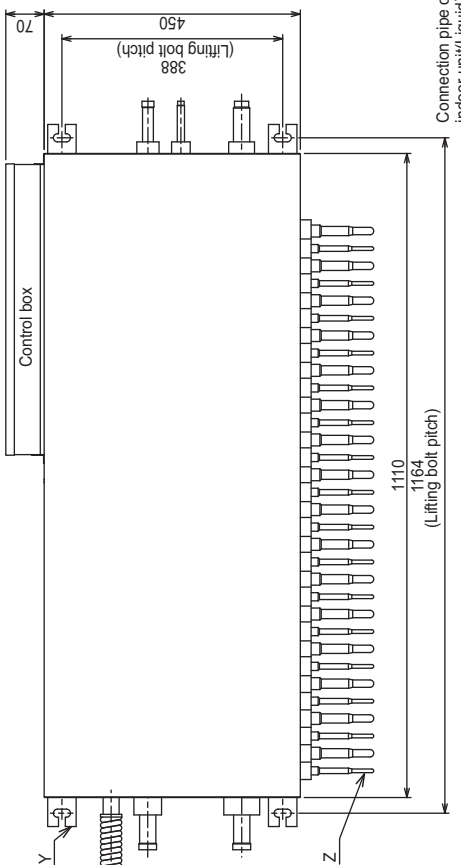
- Note 1. Suspension bolt(φ10), washer(M10), and nut(M10) prepare in the field.  
 2. Take notice of service space as follows.  
 (Please give attention not to occupy service space by letting ducts and pipes through.)  
 3. Please take service space for connection pipe of SUB BC CONTROLLER.  
 4. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.  
 (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)  
 5. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.



Connection pipe of outdoor unit(High pressure)  
 P250,300,350:φ19.05<Brazed> (use attachment pipe)  
 P400,450,500:φ22.2 <Brazed>  
 P550,600,650:φ28.6 <Brazed> (use attachment pipe)

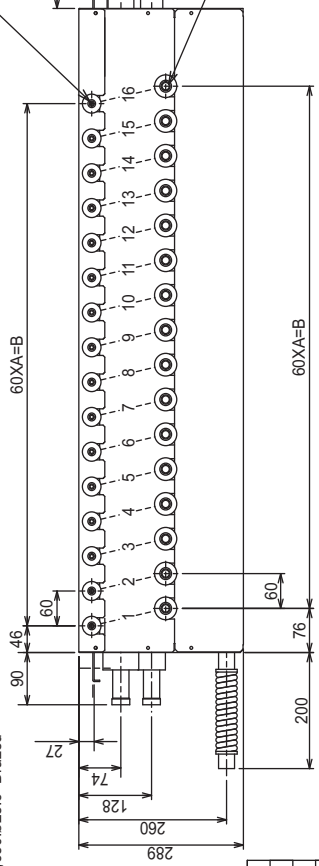
Drain pipe O.D.32 (1-1/4")

Connection pipe of outdoor unit (Low pressure)  
 P250,300:φ22.2<Brazed> (use attachment pipe)  
 P350,400,450,500,550,600,650:φ28.6<Brazed>



Connection pipe of indoor unit(Liquid)  
 Indoor unit model (Note 5)  
 P50 or less:φ6.35<Brazed>  
 P50 over :φ9.52<Brazed>

Connection pipe of indoor unit(Gas)  
 Indoor unit model (Note 5)  
 P50 or less:φ12.7<Brazed>  
 P50 over :φ15.88<Brazed>



	A	B
CMB-P108V-GA1	7	420
CMB-P1010V-GA1	9	540
CMB-P1013V-GA1	12	720
CMB-P1016V-GA1	15	900

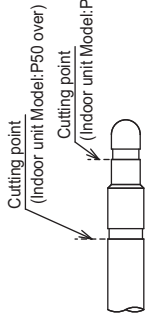
BC

CMB-P1016V-HA1

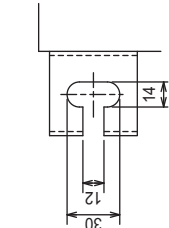
Unit : mm

- <Accessories>
- Refrigerant<Low pressure> conn. pipe.....1pc.
  - Drain hose I.D.32 (1-1/4").....1pc.
  - Hose band.....1pc.
  - Tie band.....1pc.

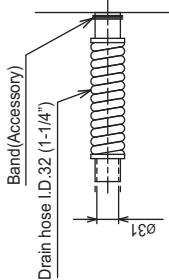
- Note 1. Suspension bolt( $\phi 10$ ), washer(M10), and nut(M10) prepare in the field.  
 2. Take notice of service space as follows.  
 (Please give attention not to occupy service space by letting ducts and pipes through.)  
 3. Please take service space for connection pipe of SUB BC CONTROLLER.  
 4. When using an outdoor unit-28HP(P700) or more, use this product.  
 5. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.  
 (For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)  
 6. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.



Detail of Z section



Detail of Y section

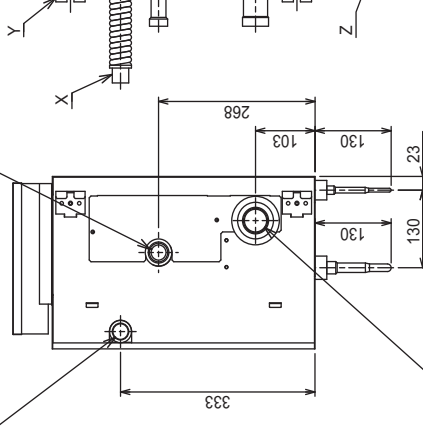
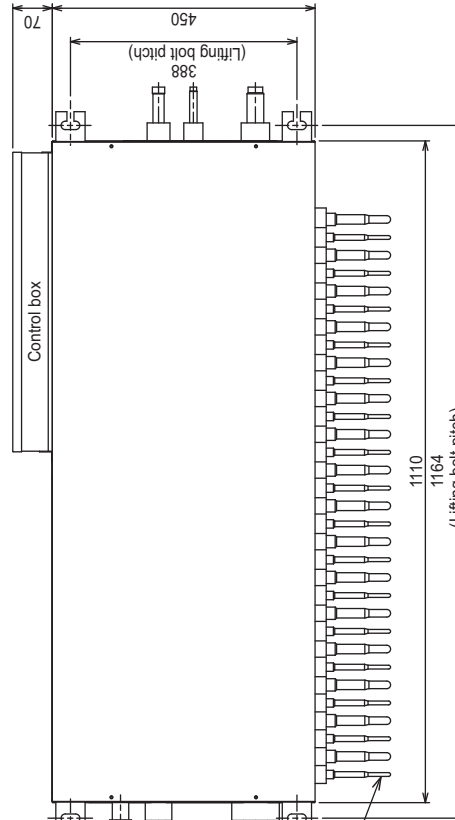
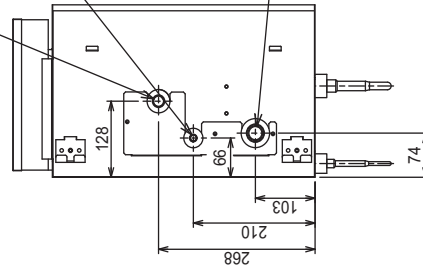


Detail of X section

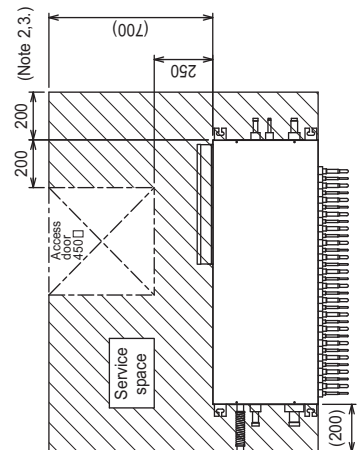
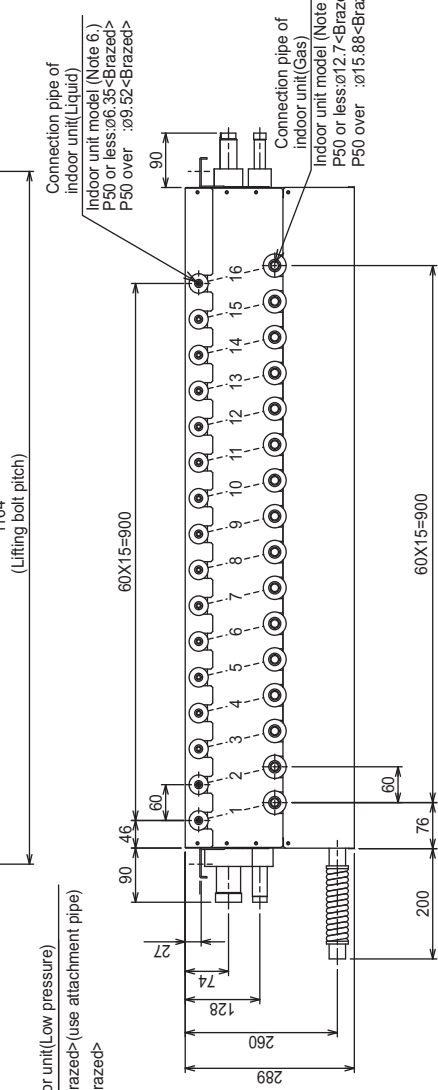
Connection pipe of SUB BC CONTROLLER (High pressure)  
 Total capacity of indoor unit at SUB BC CONTROLLER  
 P200 or less:  $\phi 15.88$ <Brazed>  
 (use attachment pipe of SUB BC CONTROLLER)  
 P300 or less:  $\phi 19.05$ <Brazed>  
 P350 or less:  $\phi 22.2$ <Brazed>  
 (use attachment pipe of JOINT<option>)

Connection pipe of SUB BC CONTROLLER (Liquid)  
 Total capacity of indoor unit at SUB BC CONTROLLER  
 P300 or less:  $\phi 9.52$ <Brazed>  
 P400 or less:  $\phi 12.7$ <Brazed>  
 (use attachment pipe of SUB BC CONTROLLER)  
 P400 over:  $\phi 15.88$ <Brazed>  
 (use attachment pipe of JOINT<option>)

Connection pipe of SUB BC CONTROLLER (Low pressure)  
 Total capacity of indoor unit at SUB BC CONTROLLER  
 P200 or less:  $\phi 9.05$ <Brazed>  
 (use attachment pipe of SUB BC CONTROLLER)  
 P300 or less:  $\phi 22.2$ <Brazed>  
 P300 over:  $\phi 28.58$ <Brazed>  
 (use attachment pipe of SUB BC CONTROLLER)



Connection pipe of outdoor unit (Low pressure)  
 P700 to P800 :  $\phi 34.93$ <Brazed> (use attachment pipe)  
 P850, P900 :  $\phi 41.28$ <Brazed>



## CMB-P104, 108V-GB1

Unit : mm

### <Accessories>

- Refrigerant<Low pressure> conn. pipe.....4pcs.
- Refrigerant<High pressure> conn. pipe.....2pcs.
- Refrigerant<Liquid> conn. pipe.....2pcs.
- Drain hose I.D.32 (1-1/4)".....1pc.
- Hose band.....1pc.
- Tie band.....1pc.

Note 1. Suspension bolt( $\phi$ 10), washer(M10), and nut(M10) prepare in the field.

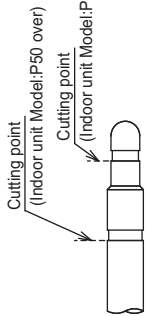
2. Take notice of service space as follows. (Please give attention not to occupy service space by letting ducts and pipes through.)

3. Can't use singleness. (MAIN BC CONTROLLER is necessary.)

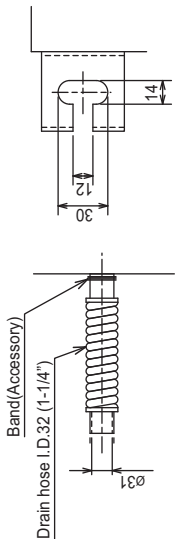
4. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.

(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)

5. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.



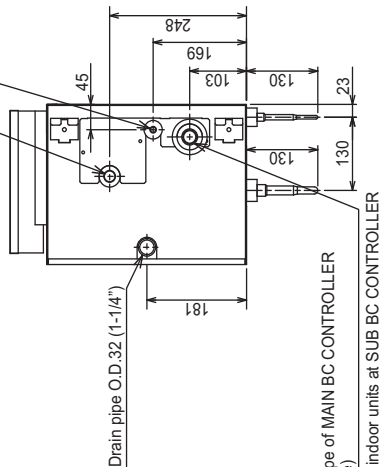
Detail of Z section



Detail of Y section

Connection pipe of MAIN BC CONTROLLER  
(High pressure)

Total capacity of indoor units at SUB BC CONTROLLER  
P200 or less: $\phi$ 15.88<Brazed>(use attachment pipe)  
P200 over: $\phi$ 19.05<Brazed>



Connection pipe of MAIN BC CONTROLLER  
(Low pressure)

Total capacity of indoor units at SUB BC CONTROLLER  
P200 or less: $\phi$ 19.05<Brazed>(use attachment pipe)  
P300 or less: $\phi$ 22.2<Brazed>  
P300 over: $\phi$ 28.6<Brazed>(use attachment pipe)

	A	B
CMB-P104V-GB1	3	180
CMB-P108V-GB1	7	420

## CMB-P1016V-HB1

Unit : mm

- <Accessories>
- Refrigerant<Low pressure> conn. pipe.....4pcs.
  - Refrigerant<High pressure> conn. pipe.....2pcs.
  - Refrigerant<Liquid> conn. pipe.....2pcs.
  - Drain hose I.D.32 (1-1/4").....1pc.
  - Hose band.....1pc.
  - Tie band.....1pc.

Note 1. 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.)

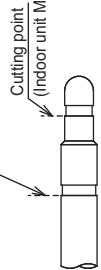
3. Can't use singleness.(MAIN BC CONTROLLER is necessary)

4. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.

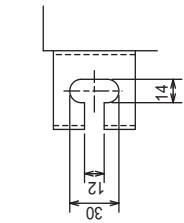
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)

5. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.

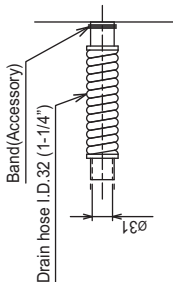
Cutting point  
(Indoor unit Model:P50 over)



Detail of Z section



Detail of Y section



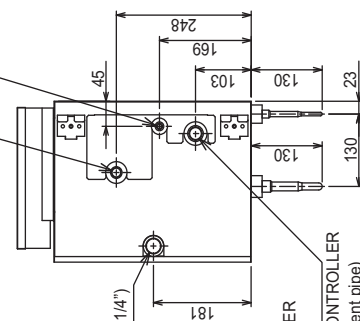
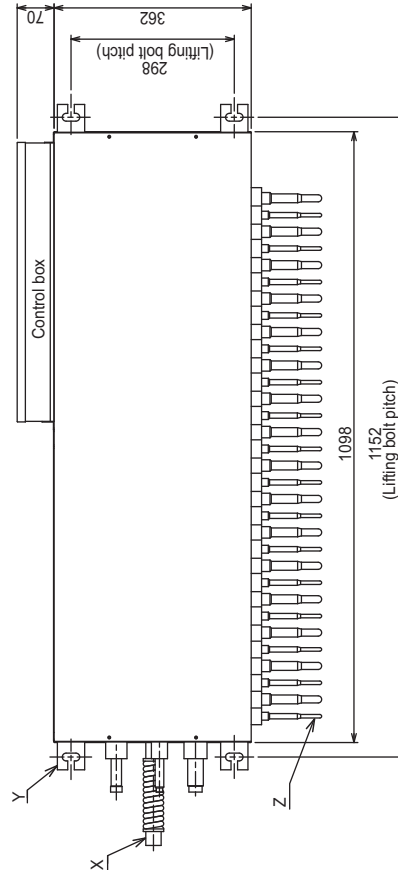
Detail of X section

Connection pipe of MAIN BC CONTROLLER (High pressure)

Total capacity of indoor units at SUB BC CONTROLLER  
P200 or less:φ15.88<Brazed>(use attachment pipe)  
P200 over :φ19.05<Brazed>

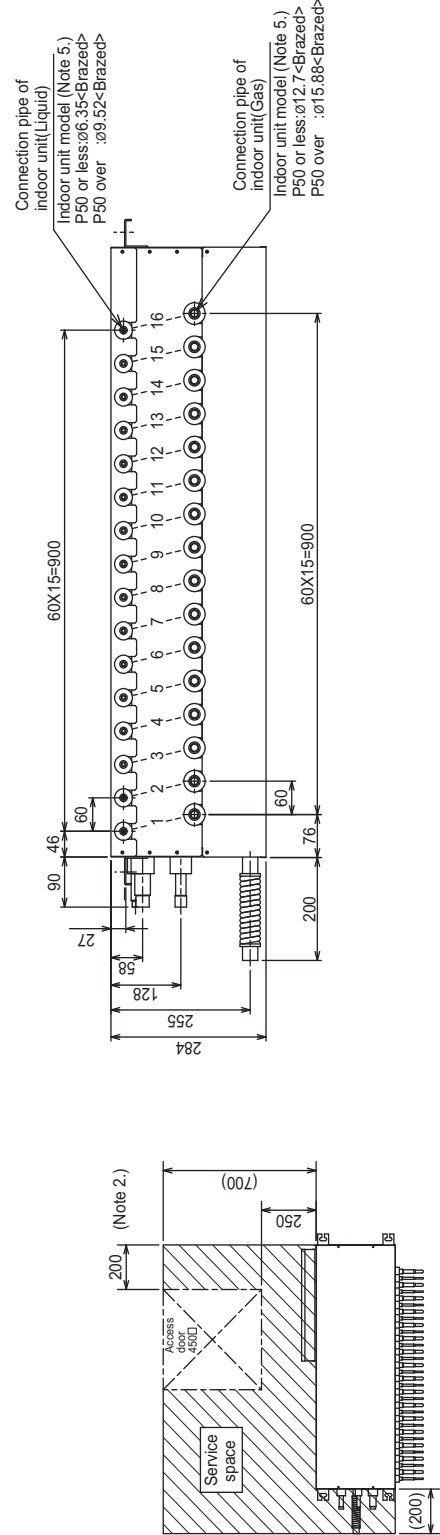
Connection pipe of MAIN BC CONTROLLER(Liquid)

Total capacity of indoor units at SUB BC CONTROLLER  
P300 or less:φ9.52 <Brazed>  
P300 over :φ12.7 <Brazed>(use attachment pipe)



Connection pipe of MAIN BC CONTROLLER (Low pressure)

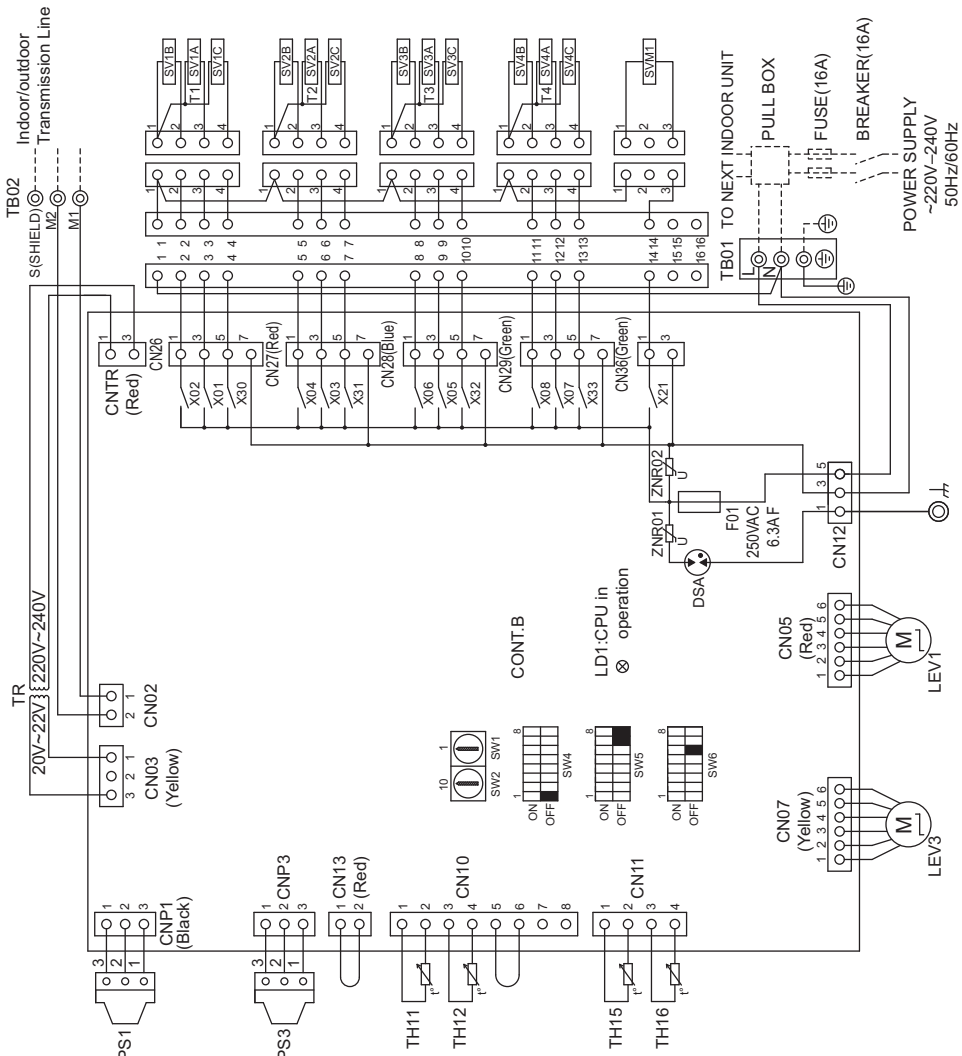
Total capacity of indoor units at SUB BC CONTROLLER  
P200 or less:φ19.05<Brazed>(use attachment pipe)  
P300 or less:φ22.2 <Brazed>  
P300 over :φ28.58<Brazed>(use attachment pipe)



## CMB-P104V-G1

(Symbol explanation)	Name
TR	Transformer
TH11, 12, 15, 16	Thermister sensor
LEV1, 3	Expansion valve
PS1, 3	Pressure sensor
CONT.B	Circuit BC controller 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 6.3A 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

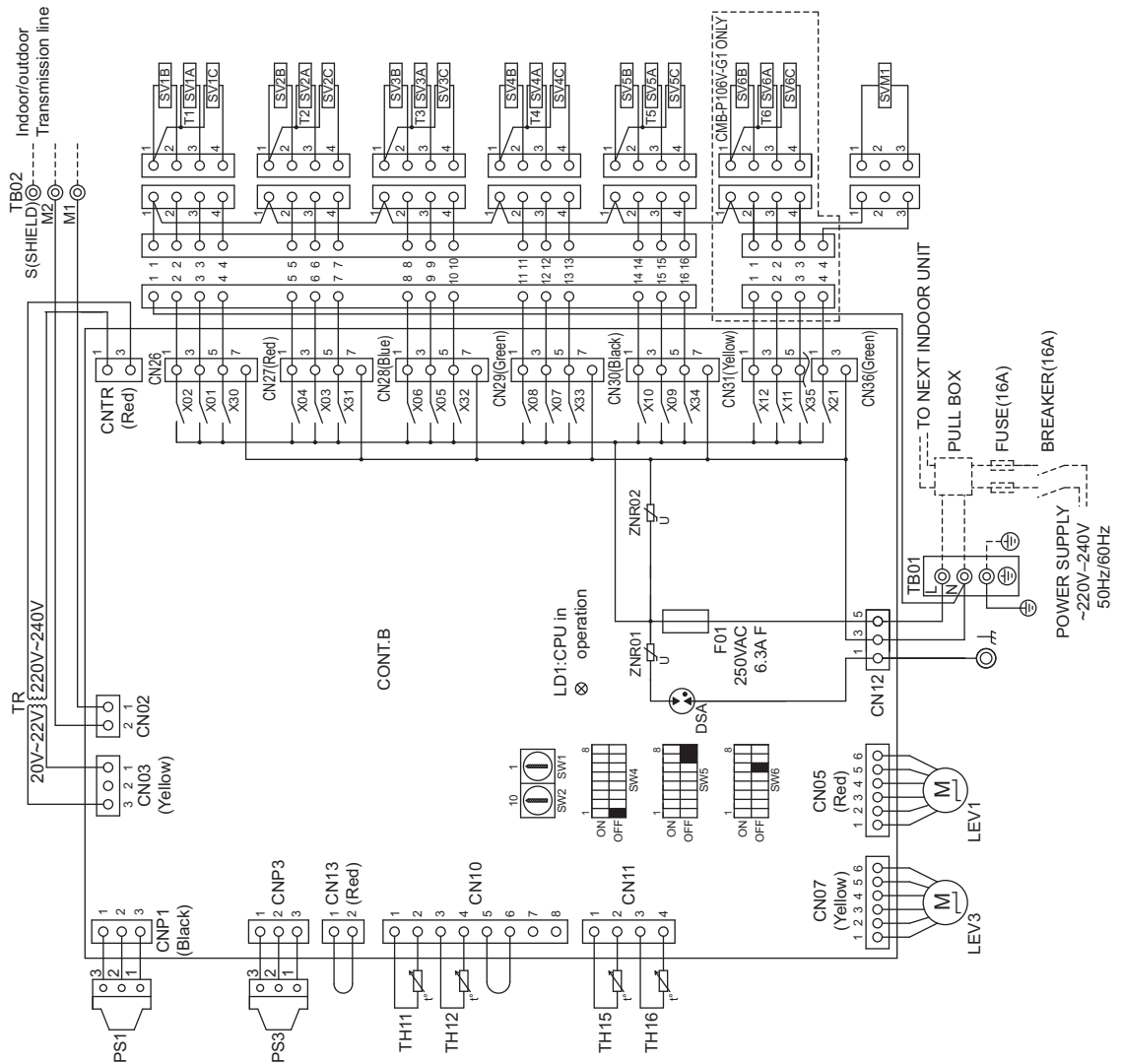


BC

## CMB-P105,106V-G1

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

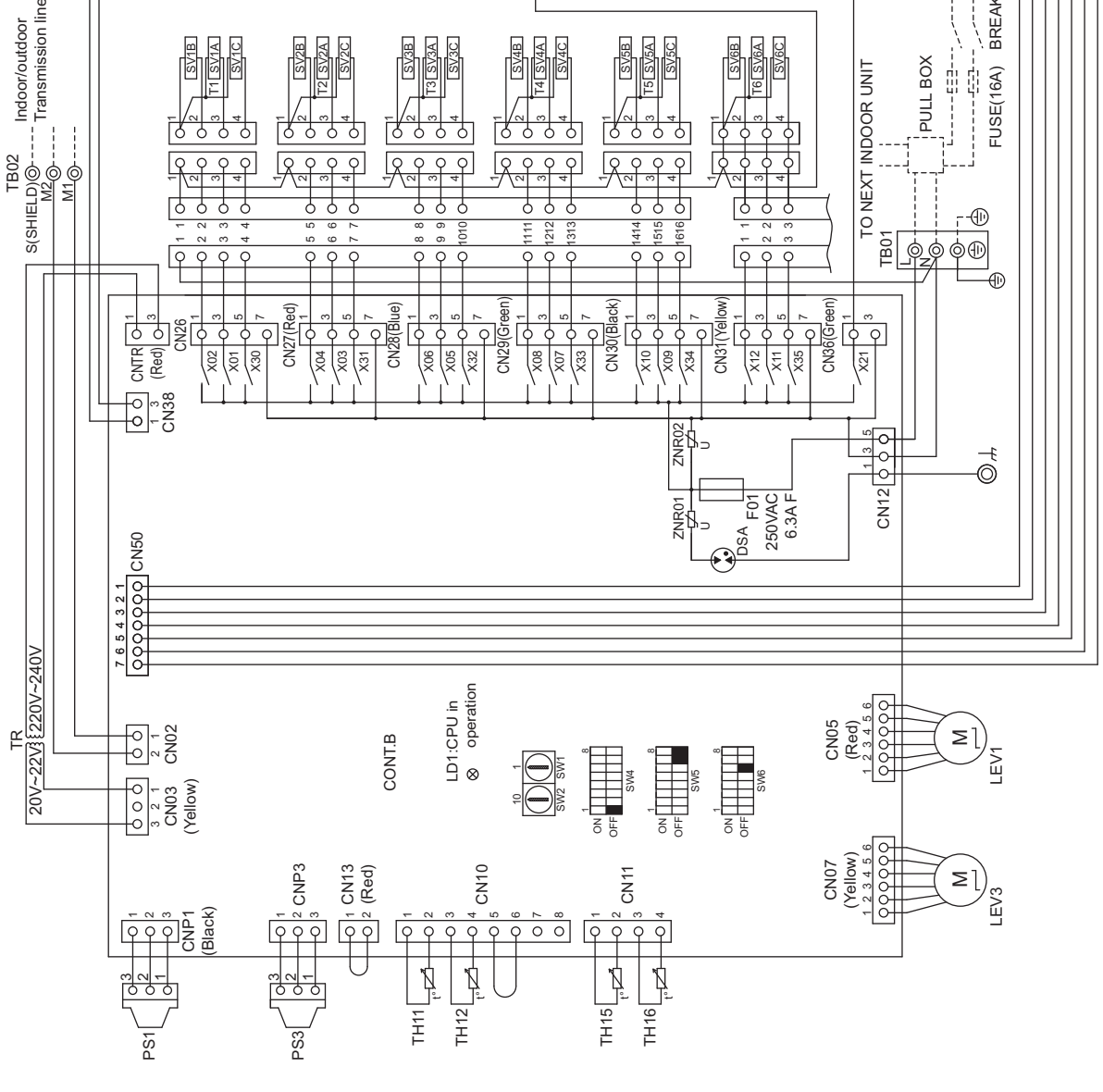
Note: 1. TB02 is transmission terminal block.  
Never connect power line to it.  
2. The initial set values of switch on CONT.B are as follows.  
SW1:0  
SW2:0



## CMB-P108,1010V-G1

(Symbol explanation)	
Symbol	Name
TR	Transformer
TH11, 12, 15, 16	Thermister 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 Terminal
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

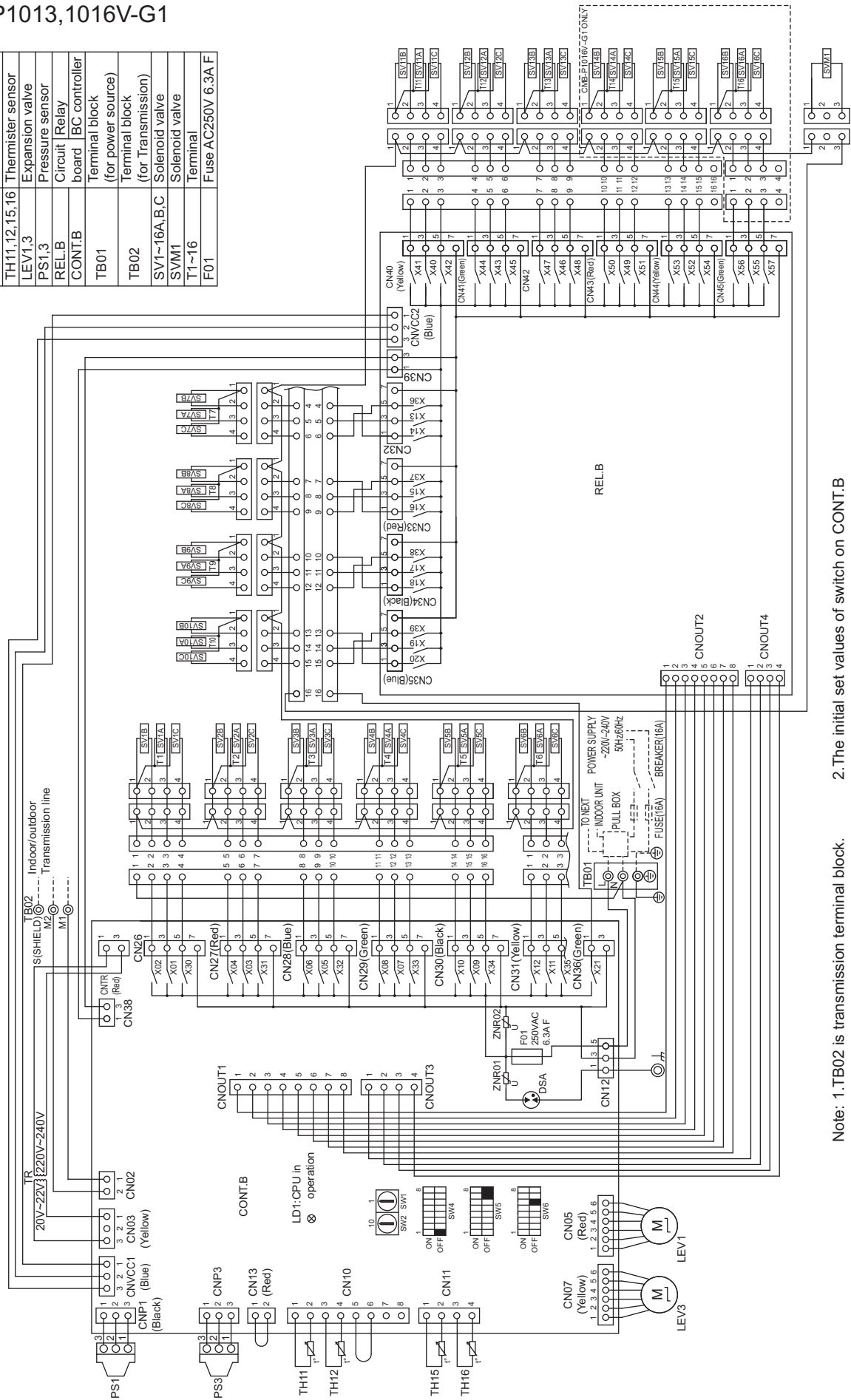


BC

## CMB-P1013,1016V-G1

(Symbol explanation)

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister 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	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

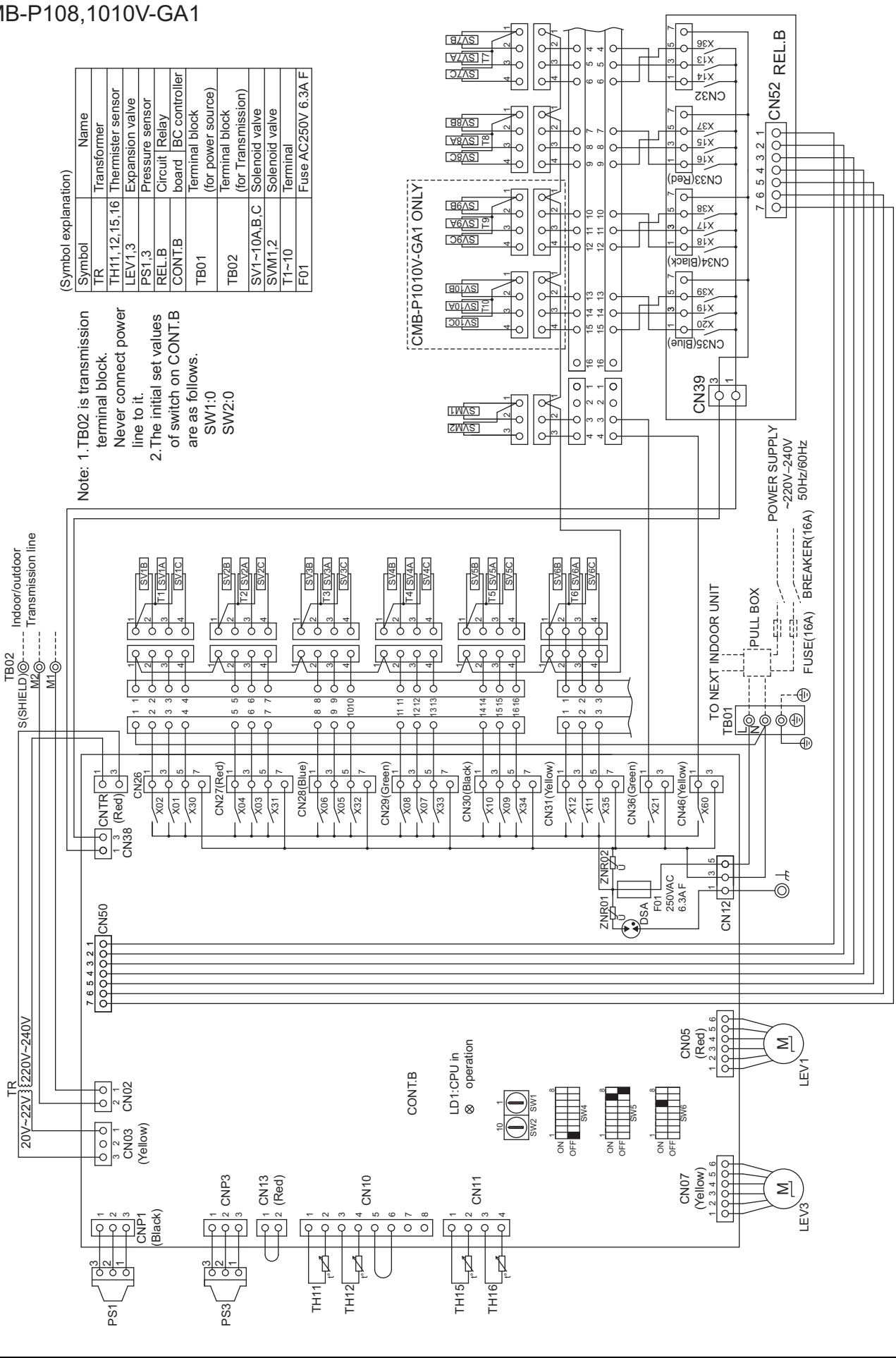
BC



## CMB-P108,1010V-GA1

Symbol	Name
TR	Transformer
TH11, 12, 15, 16	Thermister 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
SVM1,2	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

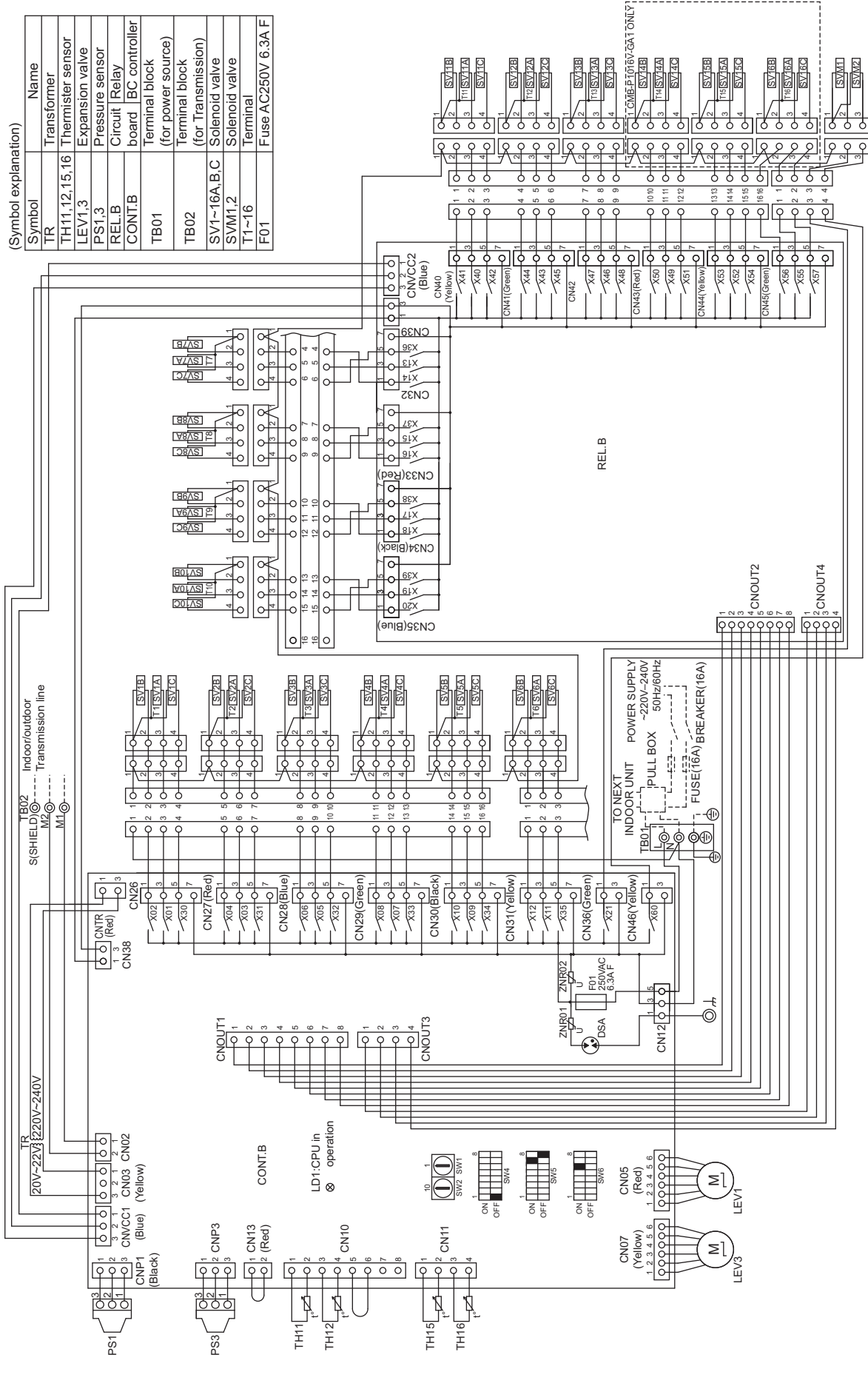


BC

# 3. ELECTRICAL WIRING DIAGRAMS

CMB-P1013,1016V-GA1

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
RELB	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

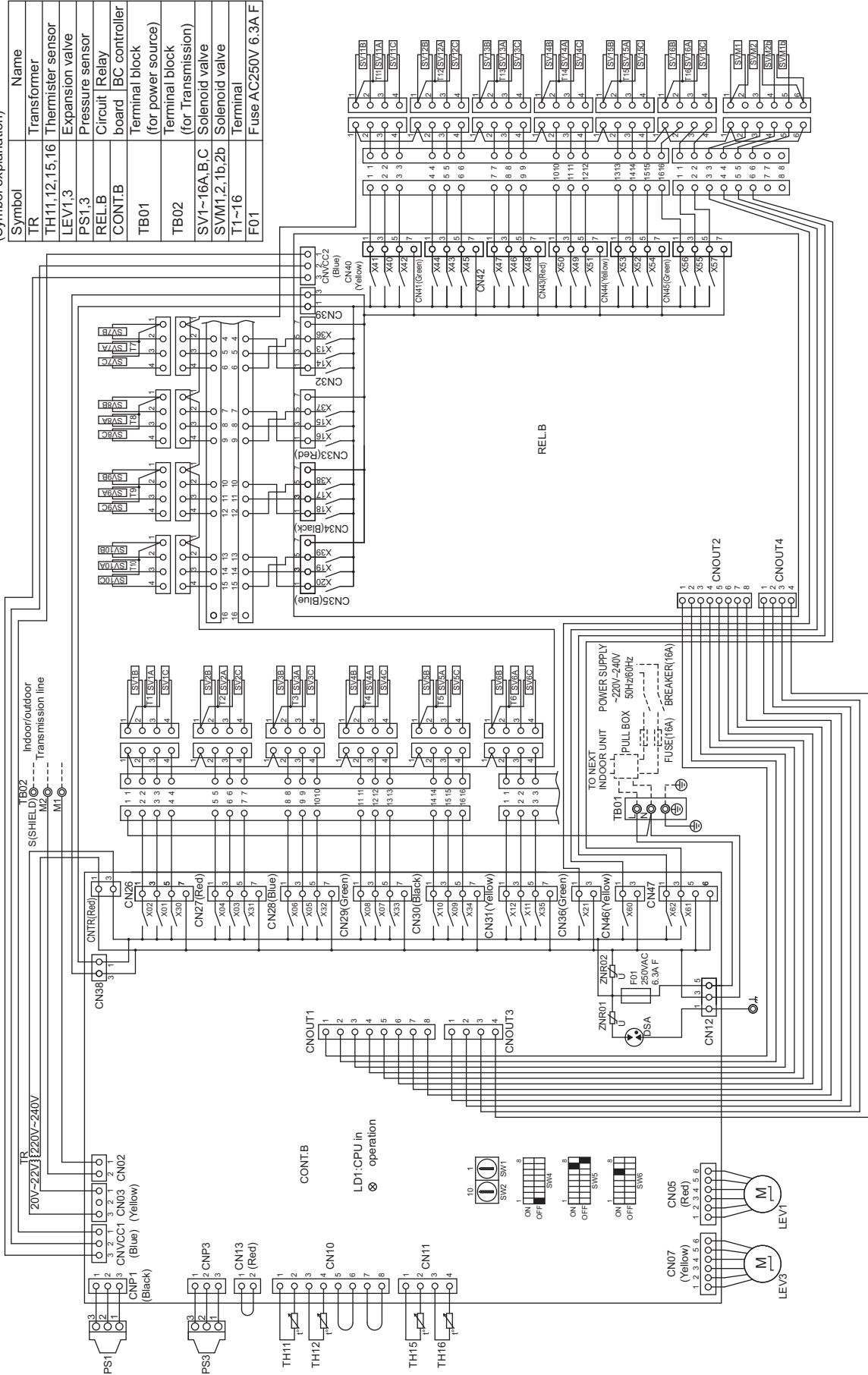


Note: 1. TB02 is transmission terminal block.  
Never connect power line to it.

2. The initial set values of switch on CONT.B are as follows.  
SW1:0  
SW2:0

## CMB-P1016V-HA1

Symbol	Name
TR	Transformer
TH11,12,15,16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
REL.B	Circuit Relay board
CONT.B	IBC controller board
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1~16A,B,C	Solenoid valve
SVM1,2,1b,2b	Solenoid valve
T1~16	Terminal
F01	Fuse AC250V 6.3A F



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

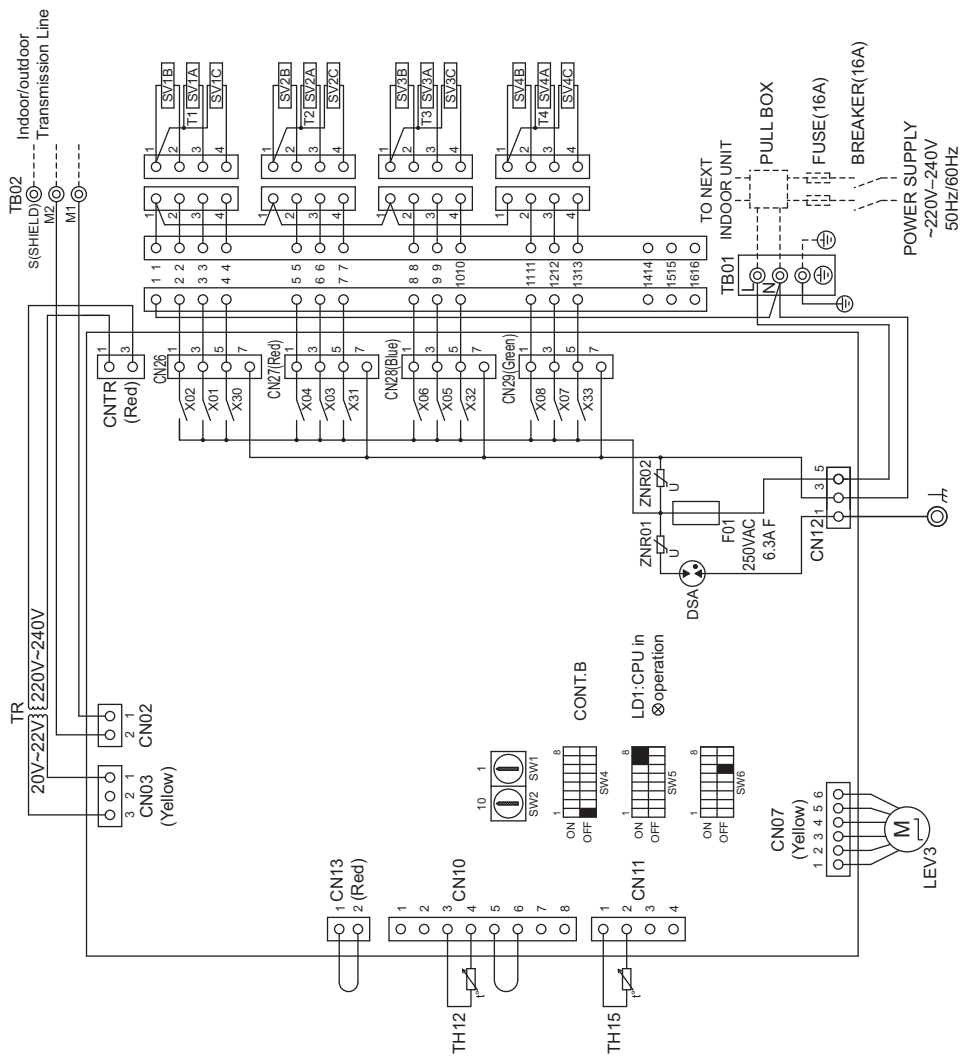
2. The initial set values of switch on CONT.B are as follows.  
 SW1:0  
 SW2:0

BC

## CMB-P104V-GB1

(Symbol explanation)	Name
Symbol	Transformer
TR	Transformer
TH12.15	Thermister sensor
LEV3	Expansion valve
CONT.B	Circuit BC controller board
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



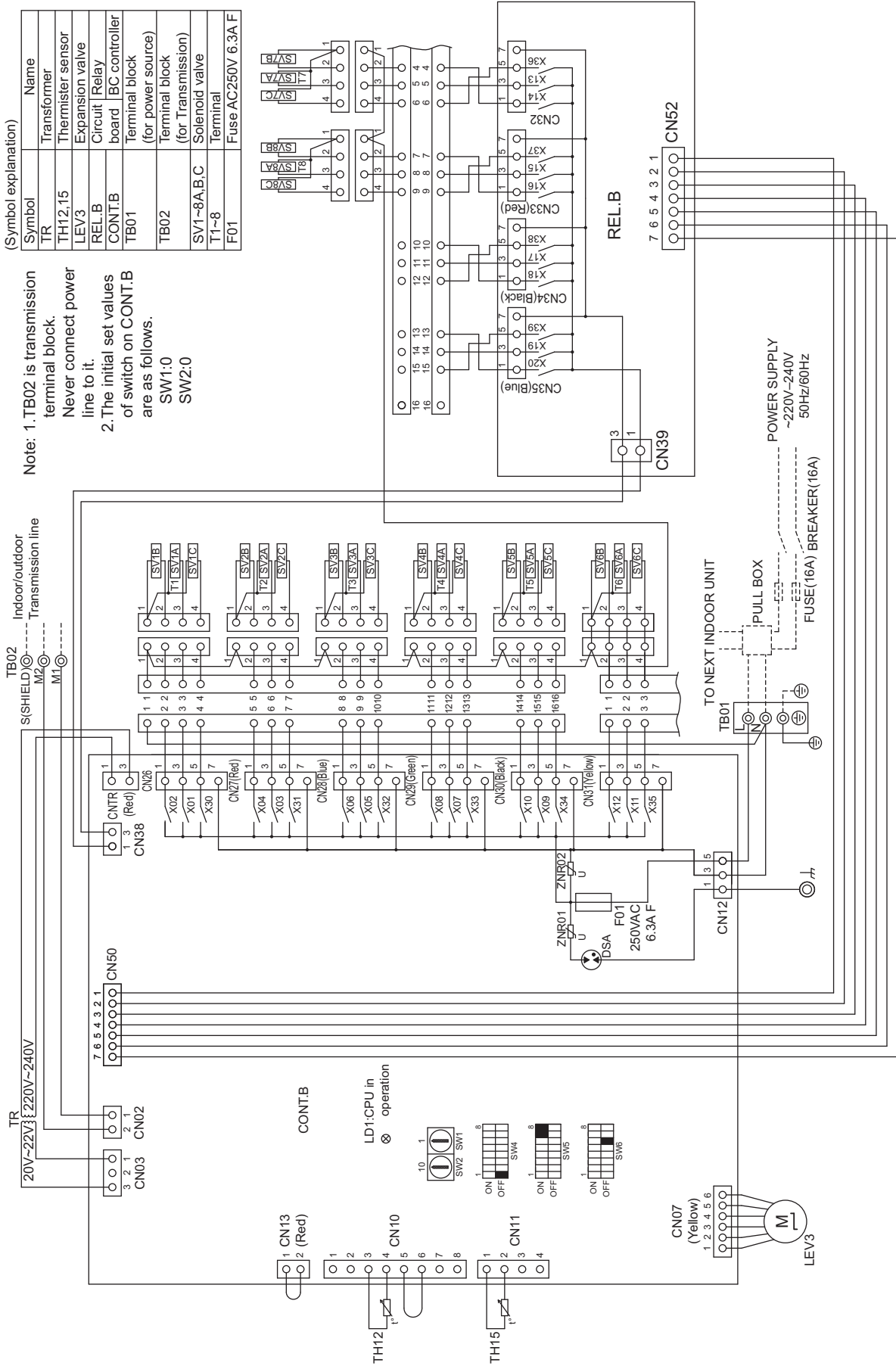
BC

## CMB-P108V-GB1

(Symbol explanation)

Symbol	Name
TR	Transformer
TH12,15	Thermister sensor
LEV3	Expansion valve
REL.B	Circuit Relay
CONT.B	BC controller board
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

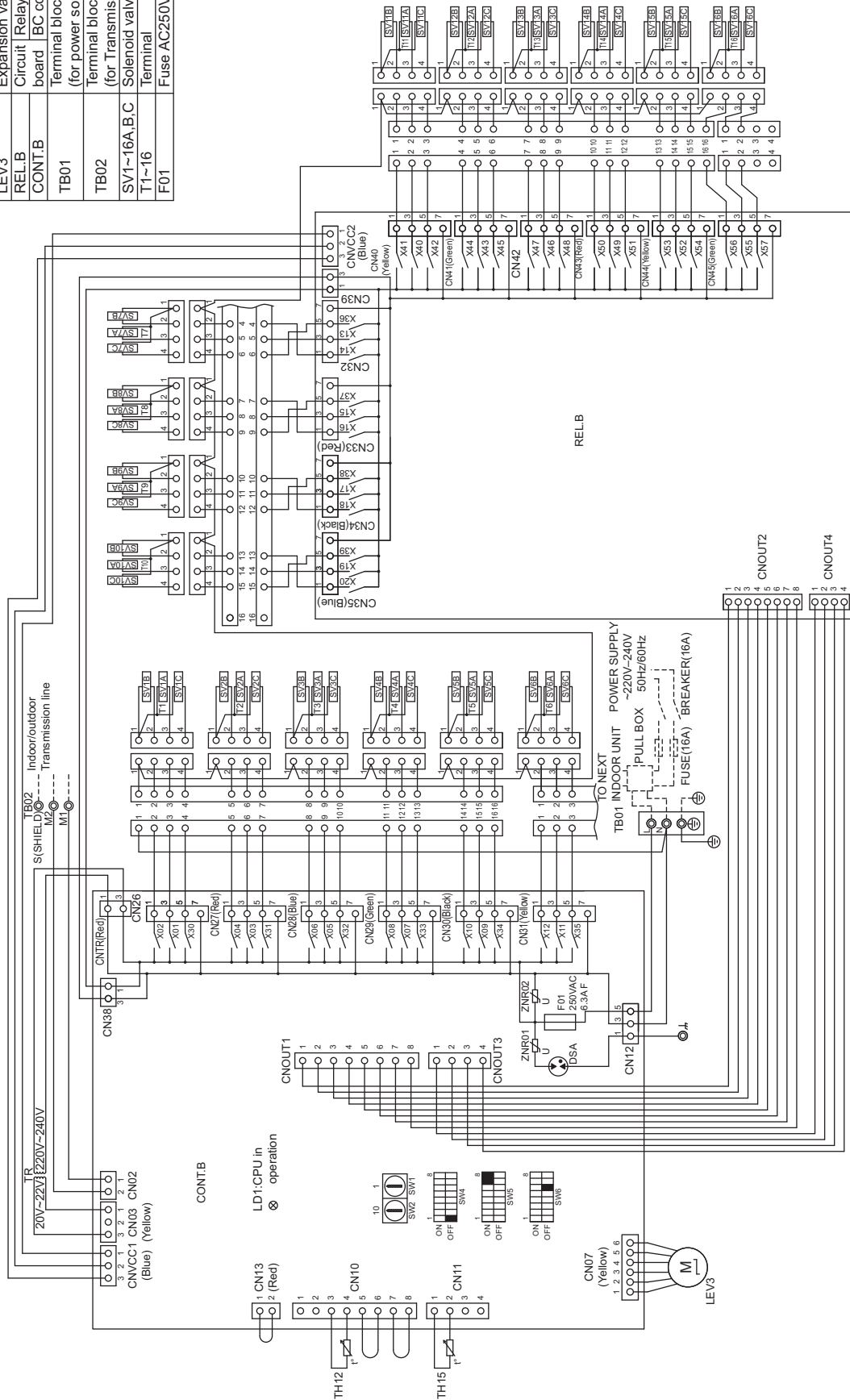


BC

## CMB-P1016V-HB1

(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)
SV1~16A,B,C	Solenoid valve
TT1~16	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



## Capacity Table

1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)] .....	1 - 247
1-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 247
1-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 252
1-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 257
1-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 262
1-5. Cooling capacity with PUHY-EP850-900YSKM .....	1 - 267
2. Cooling [Ceiling concealed (Middle static pressure type)] .....	1 - 272
2-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 272
2-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 274
2-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 276
2-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 278
2-5. Cooling capacity with PUHY-EP850-900YSKM .....	1 - 280
3. Cooling [Ceiling cassette (1-way flow type)] .....	1 - 282
3-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 282
3-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 283
3-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 284
3-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 285
3-5. Cooling capacity with PUHY-EP850-900YSKM .....	1 - 286
4. Cooling [Ceiling cassette (2-way flow type)] .....	1 - 287
4-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 287
4-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 289
4-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 291
4-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 293
4-5. Cooling capacity with PUHY-EP850-900YSKM .....	1 - 295
5. Cooling [Ceiling cassette (4-way flow type)] .....	1 - 297
5-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 297
5-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 299
5-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 301
5-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 303
5-5. Cooling capacity with PUHY-EP850-900YSKM .....	1 - 305
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6-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 307
6-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 308
6-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 309
6-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 310
6-5. Cooling capacity with PUHY-EP850-900YSKM .....	1 - 311
7. Cooling [Wall mounted] .....	1 - 312
7-1. Cooling capacity with PUHY, PURY-EP200-250YKM .....	1 - 312
7-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM .....	1 - 314
7-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 316
7-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 318
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8-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 328
8-4. Cooling capacity with PUHY, PURY-EP700-800YSKM .....	1 - 331
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9-3. Heating capacity with PUHY, PURY-EP450-650Y(S)KM .....	1 - 339
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# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

## 1-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PEFY-P-VMH-E		CA:Capacity(kW) , SHC:Sensible Heat Capacity(kW)													
Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
40 (4.5)	20.0	4.3	3.3	4.4	3.4	4.7	3.3	4.9	3.5	5.0	3.5	5.3	3.5	5.7	3.4
	22.5	4.3	3.3	4.4	3.4	4.7	3.3	4.9	3.5	5.0	3.5	5.3	3.5	5.7	3.4
	25.0	4.3	3.3	4.4	3.4	4.7	3.3	4.9	3.5	5.0	3.5	5.3	3.5	5.6	3.4
	27.5	4.3	3.2	4.4	3.3	4.6	3.3	4.8	3.5	4.9	3.5	5.2	3.4	5.5	3.4
	30.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.5	4.8	3.4	5.1	3.4	5.4	3.3
	32.5	4.1	3.2	4.2	3.3	4.5	3.2	4.6	3.4	4.7	3.4	5.0	3.3	5.3	3.3
	35.0	4.0	3.1	4.1	3.2	4.4	3.2	4.5	3.4	4.6	3.4	4.9	3.3	5.2	3.3
	37.5	4.0	3.1	4.1	3.2	4.3	3.2	4.4	3.4	4.5	3.3	4.8	3.3	5.0	3.2
	40.0	3.9	3.1	4.0	3.2	4.2	3.1	4.3	3.3	4.4	3.3	4.7	3.2	4.9	3.2
	43.0	3.8	3.0	3.9	3.1	4.1	3.1	4.2	3.3	4.3	3.2	4.5	3.2	4.8	3.1
46.0	2.9	2.6	3.0	2.7	3.3	2.7	3.4	2.9	3.5	2.9	3.7	2.9	4.0	2.9	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.1	6.6	4.0	7.1	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.1	6.6	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	27.5	5.3	3.8	5.5	3.9	5.8	3.9	5.9	4.1	6.1	4.0	6.4	4.0	6.8	3.9
	30.0	5.2	3.8	5.4	3.9	5.7	3.8	5.8	4.0	6.0	4.0	6.3	3.9	6.7	3.9
	32.5	5.1	3.7	5.3	3.8	5.6	3.8	5.7	4.0	5.9	3.9	6.2	3.9	6.6	3.8
	35.0	5.0	3.7	5.2	3.8	5.5	3.7	5.6	3.9	5.8	3.9	6.1	3.8	6.4	3.7
	37.5	4.9	3.6	5.1	3.7	5.4	3.7	5.5	3.9	5.6	3.8	5.9	3.8	6.3	3.7
	40.0	4.8	3.6	5.0	3.7	5.3	3.6	5.4	3.8	5.5	3.8	5.8	3.7	6.1	3.6
	43.0	4.7	3.5	4.8	3.6	5.1	3.6	5.3	3.8	5.4	3.7	5.6	3.6	6.0	3.6
46.0	3.6	3.0	3.8	3.1	4.1	3.1	4.2	3.3	4.3	3.3	4.6	3.2	4.9	3.2	
63 (7.1)	20.0	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.4	7.9	5.4	8.4	5.3	9.0	5.3
	22.5	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.4	7.9	5.4	8.4	5.3	9.0	5.3
	25.0	6.7	5.0	7.0	5.2	7.5	5.1	7.7	5.4	7.9	5.4	8.3	5.3	8.8	5.2
	27.5	6.7	5.0	6.9	5.1	7.3	5.1	7.5	5.4	7.7	5.3	8.1	5.2	8.7	5.2
	30.0	6.6	4.9	6.8	5.1	7.2	5.0	7.4	5.3	7.6	5.3	8.0	5.2	8.5	5.1
	32.5	6.5	4.9	6.7	5.0	7.1	5.0	7.2	5.2	7.4	5.2	7.8	5.1	8.3	5.0
	35.0	6.4	4.8	6.5	5.0	6.9	4.9	7.1	5.2	7.3	5.1	7.7	5.1	8.1	5.0
	37.5	6.2	4.8	6.4	4.9	6.8	4.8	7.0	5.1	7.2	5.1	7.5	5.0	8.0	4.9
	40.0	6.1	4.7	6.3	4.8	6.7	4.8	6.8	5.1	7.0	5.0	7.4	4.9	7.8	4.9
	43.0	6.0	4.6	6.1	4.8	6.5	4.7	6.7	5.0	6.9	5.0	7.2	4.9	7.6	4.8
46.0	4.6	4.0	4.8	4.2	5.2	4.1	5.3	4.5	5.5	4.4	5.8	4.4	6.2	4.3	
71 (8.0)	20.0	7.6	5.6	7.9	5.8	8.4	5.7	8.7	6.1	8.9	6.0	9.5	6.0	10.1	5.9
	22.5	7.6	5.6	7.9	5.8	8.4	5.7	8.7	6.1	8.9	6.0	9.5	6.0	10.1	5.9
	25.0	7.6	5.6	7.9	5.8	8.4	5.7	8.6	6.1	8.9	6.0	9.4	5.9	10.0	5.8
	27.5	7.6	5.6	7.8	5.7	8.3	5.7	8.5	6.0	8.7	5.9	9.2	5.8	9.8	5.8
	30.0	7.4	5.5	7.7	5.7	8.1	5.6	8.3	5.9	8.5	5.9	9.0	5.8	9.6	5.7
	32.5	7.3	5.4	7.5	5.6	8.0	5.5	8.2	5.8	8.4	5.8	8.8	5.7	9.4	5.6
	35.0	7.2	5.4	7.4	5.5	7.8	5.5	8.0	5.8	8.2	5.7	8.6	5.6	9.2	5.5
	37.5	7.0	5.3	7.2	5.5	7.7	5.4	7.9	5.7	8.1	5.7	8.5	5.6	9.0	5.5
	40.0	6.9	5.2	7.1	5.4	7.5	5.3	7.7	5.7	7.9	5.6	8.3	5.5	8.8	5.4
	43.0	6.7	5.2	6.9	5.3	7.3	5.3	7.5	5.6	7.7	5.5	8.1	5.4	8.5	5.3
46.0	5.2	4.5	5.4	4.6	5.8	4.6	6.0	5.0	6.2	4.9	6.6	4.9	7.0	4.8	
80 (9.0)	20.0	8.6	6.3	8.9	6.5	9.5	6.5	9.7	6.9	10.0	6.8	10.6	6.7	11.4	6.7
	22.5	8.6	6.3	8.9	6.5	9.5	6.5	9.7	6.9	10.0	6.8	10.6	6.7	11.4	6.7
	25.0	8.6	6.3	8.9	6.5	9.5	6.5	9.7	6.8	10.0	6.8	10.5	6.7	11.2	6.6
	27.5	8.5	6.3	8.8	6.5	9.3	6.4	9.5	6.8	9.8	6.7	10.3	6.6	11.0	6.5
	30.0	8.4	6.2	8.6	6.4	9.1	6.3	9.4	6.7	9.6	6.6	10.1	6.5	10.8	6.4
	32.5	8.2	6.2	8.5	6.3	8.9	6.3	9.2	6.6	9.4	6.6	9.9	6.5	10.5	6.4
	35.0	8.1	6.1	8.3	6.3	8.8	6.2	9.0	6.5	9.2	6.5	9.7	6.4	10.3	6.3
	37.5	7.9	6.0	8.1	6.2	8.6	6.1	8.8	6.5	9.1	6.4	9.5	6.3	10.1	6.2
	40.0	7.7	5.9	8.0	6.1	8.4	6.0	8.7	6.4	8.9	6.4	9.3	6.2	9.9	6.1
	43.0	7.6	5.8	7.8	6.0	8.2	6.0	8.5	6.3	8.7	6.3	9.1	6.1	9.6	6.0
46.0	5.9	5.0	6.1	5.3	6.5	5.2	6.8	5.6	7.0	5.6	7.4	5.5	7.9	5.5	
100 (11.2)	20.0	10.6	8.5	11.0	8.8	11.8	8.8	12.1	9.3	12.5	9.3	13.2	9.2	14.2	9.1
	22.5	10.6	8.5	11.0	8.8	11.8	8.8	12.1	9.3	12.5	9.3	13.2	9.2	14.2	9.1
	25.0	10.6	8.5	11.0	8.8	11.8	8.8	12.1	9.3	12.4	9.2	13.1	9.1	13.9	9.0
	27.5	10.6	8.5	10.9	8.8	11.6	8.7	11.9	9.2	12.2	9.2	12.9	9.0	13.7	8.9
	30.0	10.4	8.4	10.7	8.7	11.3	8.6	11.6	9.1	12.0	9.1	12.6	8.9	13.4	8.8
	32.5	10.2	8.3	10.5	8.6	11.1	8.5	11.4	9.1	11.7	9.0	12.4	8.8	13.1	8.7
	35.0	10.0	8.2	10.3	8.5	10.9	8.4	11.2	9.0	11.5	8.9	12.1	8.7	12.8	8.6
	37.5	9.8	8.1	10.1	8.4	10.7	8.3	11.0	8.9	11.3	8.8	11.9	8.7	12.6	8.5
	40.0	9.6	8.1	9.9	8.3	10.5	8.2	10.8	8.8	11.1	8.7	11.6	8.6	12.3	8.4
	43.0	9.4	7.9	9.7	8.2	10.2	8.1	10.5	8.7	10.8	8.6	11.3	8.5	12.0	8.3
46.0	7.3	7.0	7.6	7.3	8.1	7.3	8.4	7.9	8.7	7.8	9.2	7.7	9.8	7.7	
125 (14.0)	20.0	13.3	9.8	13.8	10.1	14.7	10.1	15.2	10.6	15.6	10.6	16.6	10.4	17.7	10.3
	22.5	13.3	9.8	13.8	10.1	14.7	10.1	15.2	10.6	15.6	10.6	16.6	10.4	17.7	10.3
	25.0	13.3	9.8	13.8	10.1	14.7	10.1	15.1	10.6	15.5	10.5	16.4	10.4	17.4	10.2
	27.5	13.3	9.8	13.6	10.1	14.4	10.0	14.8	10.5	15.2	10.4	16.1	10.3	17.1	10.1
	30.0	13.0	9.7	13.4	10.0	14.2	9.8	14.6	10.4	14.9	10.3	15.8	10.1	16.7	10.0
	32.5	12.8	9.6	13.2	9.8	13.9	9.7	14.3	10.3	14.7	10.2	15.4	10.0	16.4	9.9
	35.0	12.5	9.4	12.9	9.7	13.7	9.6	14.0	10.1	14.4	10.1	15.1	9.9	16.0	9.7
	37.5	12.3	9.3	12.7	9.6	13.4	9.5	13.8	10.0	14.1	10.0	14.8	9.8	15.7	9.6
	40.0	12.1	9.2	12.4	9.5	13.1	9.4	13.5	9.9	13.8	9.8	14.5	9.6	15.4	9.5
	43.0	11.8	9.1	12.1	9.3	12.8	9.2	13.2	9.8	13.5	9.7	14.1	9.5	15.0	9.4
46.0	9.1	7.8	9.5	8.1	10.2	8.1	10.5	8.7	10.9	8.7	11.5	8.5	12.3	8.5	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
140 (16.0)	20.0	15.2	11.2	15.8	11.6	16.8	11.5	17.3	12.2	17.8	12.1	18.9	11.9	20.2	11.8
	22.5	15.2	11.2	15.8	11.6	16.8	11.5	17.3	12.2	17.8	12.1	18.9	11.9	20.2	11.8
	25.0	15.2	11.2	15.8	11.6	16.8	11.5	17.3	12.1	17.7	12.0	18.7	11.9	19.9	11.7
	27.5	15.2	11.2	15.6	11.5	16.5	11.4	16.9	12.0	17.4	11.9	18.4	11.7	19.5	11.6
	30.0	14.9	11.1	15.3	11.4	16.2	11.2	16.6	11.9	17.1	11.8	18.0	11.6	19.1	11.4
	32.5	14.6	10.9	15.0	11.2	15.9	11.1	16.3	11.7	16.8	11.6	17.6	11.4	18.7	11.3
	35.0	14.3	10.8	14.8	11.1	15.6	11.0	16.0	11.6	16.4	11.5	17.3	11.3	18.3	11.1
	37.5	14.1	10.7	14.5	11.0	15.3	10.8	15.7	11.5	16.1	11.4	16.9	11.2	17.9	11.0
	40.0	13.8	10.5	14.2	10.8	15.0	10.7	15.4	11.3	15.8	11.3	16.6	11.0	17.6	10.9
	43.0	13.4	10.4	13.8	10.7	14.6	10.5	15.0	11.2	15.4	11.1	16.1	10.9	17.1	10.7
46.0	10.4	8.9	10.8	9.3	11.6	9.3	12.0	9.9	12.4	9.9	13.1	9.8	14.1	9.7	
200 (22.4)	20.0	21.3	16.1	22.1	16.6	23.5	16.5	24.2	17.5	25.0	17.4	26.5	17.2	28.3	17.0
	22.5	21.3	16.1	22.1	16.6	23.5	16.5	24.2	17.5	25.0	17.4	26.5	17.2	28.3	17.0
	25.0	21.3	16.1	22.1	16.6	23.5	16.5	24.2	17.5	24.8	17.3	26.2	17.1	27.9	16.8
	27.5	21.2	16.0	21.8	16.5	23.1	16.3	23.7	17.3	24.3	17.1	25.7	16.9	27.3	16.6
	30.0	20.8	15.9	21.4	16.3	22.7	16.1	23.3	17.1	23.9	16.9	25.2	16.7	26.8	16.4
	32.5	20.4	15.7	21.0	16.1	22.3	16.0	22.9	16.9	23.5	16.8	24.7	16.5	26.2	16.2
	35.0	20.1	15.5	20.7	16.0	21.9	15.8	22.4	16.7	23.0	16.6	24.2	16.3	25.7	16.1
	37.5	19.7	15.3	20.3	15.8	21.4	15.6	22.0	16.5	22.6	16.4	23.7	16.1	25.1	15.9
	40.0	19.3	15.1	19.9	15.6	21.0	15.4	21.6	16.4	22.1	16.2	23.2	15.9	24.6	15.7
	43.0	18.8	14.9	19.4	15.4	20.5	15.2	21.1	16.1	21.6	16.0	22.6	15.7	23.9	15.5
46.0	14.6	12.9	15.1	13.5	16.3	13.4	16.8	14.4	17.4	14.4	18.3	14.2	19.7	14.0	
250 (28.0)	20.0	26.6	20.0	27.6	20.7	29.4	20.5	30.3	21.7	31.2	21.6	33.1	21.3	35.4	21.1
	22.5	26.6	20.0	27.6	20.7	29.4	20.5	30.3	21.7	31.2	21.6	33.1	21.3	35.4	21.1
	25.0	26.6	20.0	27.6	20.7	29.4	20.5	30.2	21.7	31.0	21.5	32.8	21.2	34.8	20.9
	27.5	26.5	20.0	27.3	20.5	28.9	20.3	29.7	21.5	30.4	21.3	32.1	20.9	34.2	20.7
	30.0	26.0	19.7	26.8	20.3	28.4	20.1	29.1	21.2	29.9	21.1	31.5	20.7	33.5	20.4
	32.5	25.6	19.5	26.3	20.1	27.8	19.8	28.6	21.0	29.3	20.8	30.9	20.5	32.8	20.2
	35.0	25.1	19.3	25.8	19.8	27.3	19.6	28.0	20.7	28.8	20.6	30.3	20.2	32.1	19.9
	37.5	24.6	19.0	25.3	19.6	26.8	19.4	27.5	20.5	28.2	20.4	29.6	20.0	31.4	19.7
	40.0	24.1	18.8	24.8	19.4	26.3	19.1	27.0	20.3	27.7	20.2	29.0	19.8	30.7	19.5
	43.0	23.5	18.5	24.2	19.1	25.6	18.9	26.3	20.0	27.0	19.9	28.2	19.5	29.9	19.2
46.0	18.2	16.0	18.9	16.7	20.3	16.6	21.0	17.9	21.7	17.8	22.9	17.6	24.6	17.4	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMHS-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
200 (22.4)	20.0	21.3	17.4	22.1	18.0	23.5	17.9	24.2	19.1	25.0	19.0	26.5	18.7	28.3	18.5
	22.5	21.3	17.4	22.1	18.0	23.5	17.9	24.2	19.1	25.0	19.0	26.5	18.7	28.3	18.5
	25.0	21.3	17.4	22.1	18.0	23.5	17.9	24.2	19.0	24.8	18.9	26.2	18.6	27.9	18.4
	27.5	21.2	17.3	21.8	17.9	23.1	17.7	23.7	18.9	24.3	18.7	25.7	18.4	27.3	18.2
	30.0	20.8	17.1	21.4	17.7	22.7	17.5	23.3	18.7	23.9	18.5	25.2	18.3	26.8	18.0
	32.5	20.4	17.0	21.0	17.5	22.3	17.3	22.9	18.5	23.5	18.4	24.7	18.1	26.2	17.8
	35.0	20.1	16.8	20.7	17.4	21.9	17.2	22.4	18.3	23.0	18.2	24.2	17.9	25.7	17.6
	37.5	19.7	16.6	20.3	17.2	21.4	17.0	22.0	18.2	22.6	18.0	23.7	17.7	25.1	17.5
	40.0	19.3	16.4	19.9	17.0	21.0	16.8	21.6	18.0	22.1	17.9	23.2	17.5	24.6	17.3
	43.0	18.8	16.2	19.4	16.8	20.5	16.6	21.1	17.8	21.6	17.7	22.6	17.3	23.9	17.1
46.0	14.6	14.3	15.1	15.0	16.3	14.9	16.8	16.1	17.4	16.1	18.3	15.9	19.7	15.7	
250 (28.0)	20.0	26.6	21.2	27.6	21.9	29.4	21.8	30.3	23.2	31.2	23.1	33.1	22.8	35.4	22.5
	22.5	26.6	21.2	27.6	21.9	29.4	21.8	30.3	23.2	31.2	23.1	33.1	22.8	35.4	22.5
	25.0	26.6	21.2	27.6	21.9	29.4	21.8	30.2	23.2	31.0	23.0	32.8	22.6	34.8	22.3
	27.5	26.5	21.1	27.3	21.8	28.9	21.6	29.7	22.9	30.4	22.8	32.1	22.4	34.2	22.1
	30.0	26.0	20.9	26.8	21.6	28.4	21.3	29.1	22.7	29.9	22.5	31.5	22.2	33.5	21.9
	32.5	25.6	20.7	26.3	21.4	27.8	21.1	28.6	22.5	29.3	22.3	30.9	22.0	32.8	21.7
	35.0	25.1	20.5	25.8	21.1	27.3	20.9	28.0	22.3	28.8	22.1	30.3	21.7	32.1	21.4
	37.5	24.6	20.2	25.3	20.9	26.8	20.7	27.5	22.1	28.2	21.9	29.6	21.5	31.4	21.2
	40.0	24.1	20.0	24.8	20.7	26.3	20.5	27.0	21.8	27.7	21.7	29.0	21.3	30.7	21.0
	43.0	23.5	19.7	24.2	20.4	25.6	20.2	26.3	21.6	27.0	21.4	28.2	21.0	29.9	20.7
46.0	18.2	17.4	18.9	18.1	20.3	18.0	21.0	19.5	21.7	19.4	22.9	19.1	24.6	19.0	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMR-E-L/R

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.8	2.8	1.8
	22.5	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.8	2.8	1.8
	25.0	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.8	2.7	1.8
	27.5	2.1	1.7	2.1	1.8	2.3	1.7	2.3	1.9	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	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
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.3	1.8	2.5	1.7
	40.0	1.9	1.6	2.0	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.3	1.7	2.4	1.7
	43.0	1.8	1.6	1.9	1.7	2.0	1.6	2.1	1.8	2.1	1.7	2.2	1.7	2.3	1.7
46.0	1.4	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.8	1.6	1.9	1.6	
25 (2.8)	20.0	2.7	2.0	2.8	2.1	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	22.5	2.7	2.0	2.8	2.1	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	25.0	2.7	2.0	2.8	2.1	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	27.5	2.7	2.0	2.7	2.0	2.9	2.0	3.0	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.3	2.0
	32.5	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	35.0	2.5	1.9	2.6	2.0	2.7	1.9	2.8	2.1	2.9	2.0	3.0	2.0	3.2	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.8	2.0	3.0	2.0	3.1	2.0
	40.0	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	1.9
	43.0	2.4	1.8	2.4	1.9	2.6	1.9	2.6	2.0	2.7	2.0	2.8	1.9	3.0	1.9
46.0	1.8	1.6	1.9	1.7	2.0	1.6	2.1	1.8	2.2	1.8	2.3	1.7	2.5	1.7	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.6	2.6
	22.5	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.1	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.5	3.6	2.4	3.7	2.6	3.8	2.5	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.4	4.1	2.4
	37.5	3.2	2.3	3.3	2.4	3.4	2.3	3.5	2.5	3.6	2.4	3.8	2.4	4.0	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.7	2.4	3.9	2.3
	43.0	3.0	2.2	3.1	2.3	3.3	2.3	3.4	2.4	3.5	2.4	3.6	2.3	3.8	2.3
46.0	2.3	1.9	2.4	2.0	2.6	2.0	2.7	2.1	2.8	2.1	2.9	2.1	3.2	2.0	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMS1(L)-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	32.5	1.6	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.5	1.4	1.6	1.4	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.5
46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	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
	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
	32.5	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	2.0	1.8	2.1	1.7	2.1	1.9	2.2	1.9	2.3	1.8	2.4	1.8
	43.0	1.8	1.7	1.9	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.2	1.8	2.3	1.8
46.0	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.7	1.9	1.6	
25 (2.8)	20.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.2	3.3	2.2
	32.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	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
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	40.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
46.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.7
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.6	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.6	4.1	2.6
	37.5	3.2	2.5	3.3	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.8	2.6	4.0	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.7	2.6	3.9	2.5
	43.0	3.0	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.6	2.5	3.8	2.5
46.0	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	2.9	2.3	3.2	2.3	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.3	3.1	4.4	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	4.0	3.0	4.1	3.1	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.0	3.1
	40.0	3.9	2.9	4.0	3.0	4.2	3.0	4.3	3.2	4.4	3.2	4.7	3.1	4.9	3.0
	43.0	3.8	2.9	3.9	3.0	4.1	3.0	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
46.0	2.9	2.5	3.0	2.6	3.3	2.6	3.4	2.8	3.5	2.8	3.7	2.7	4.0	2.7	
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.9	3.9	6.1	4.2	6.2	4.1	6.6	4.1	7.1	4.0
	22.5	5.3	3.9	5.5	4.0	5.9	3.9	6.1	4.2	6.2	4.1	6.6	4.1	7.1	4.0
	25.0	5.3	3.9	5.5	4.0	5.9	3.9	6.0	4.2	6.2	4.1	6.6	4.1	7.0	4.0
	27.5	5.3	3.8	5.5	3.9	5.8	3.9	5.9	4.1	6.1	4.1	6.4	4.0	6.8	4.0
	30.0	5.2	3.8	5.4	3.9	5.7	3.9	5.8	4.1	6.0	4.0	6.3	4.0	6.7	3.9
	32.5	5.1	3.7	5.3	3.9	5.6	3.8	5.7	4.0	5.9	4.0	6.2	3.9	6.6	3.9
	35.0	5.0	3.7	5.2	3.8	5.5	3.8	5.6	4.0	5.8	3.9	6.1	3.9	6.4	3.8
	37.5	4.9	3.7	5.1	3.8	5.4	3.7	5.5	3.9	5.6	3.9	5.9	3.8	6.3	3.8
	40.0	4.8	3.6	5.0	3.7	5.3	3.7	5.4	3.9	5.5	3.8	5.8	3.8	6.1	3.7
	43.0	4.7	3.5	4.8	3.6	5.1	3.6	5.3	3.8	5.4	3.8	5.6	3.7	6.0	3.6
46.0	3.6	3.0	3.8	3.2	4.1	3.1	4.2	3.4	4.3	3.4	4.6	3.3	4.9	3.3	
63 (7.1)	20.0	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.3	7.9	5.2	8.4	5.2	9.0	5.1
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.3	7.9	5.2	8.4	5.2	9.0	5.1
	25.0	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.2	7.9	5.2	8.3	5.1	8.8	5.1
	27.5	6.7	4.9	6.9	5.0	7.3	4.9	7.5	5.2	7.7	5.1	8.1	5.1	8.7	5.0
	30.0	6.6	4.8	6.8	4.9	7.2	4.9	7.4	5.1	7.6	5.1	8.0	5.0	8.5	4.9
	32.5	6.5	4.7	6.7	4.9	7.1	4.8	7.2	5.1	7.4	5.0	7.8	4.9	8.3	4.9
	35.0	6.4	4.7	6.5	4.8	6.9	4.7	7.1	5.0	7.3	5.0	7.7	4.9	8.1	4.8
	37.5	6.2	4.6	6.4	4.7	6.8	4.7	7.0	4.9	7.2	4.9	7.5	4.8	8.0	4.7
	40.0	6.1	4.6	6.3	4.7	6.7	4.6	6.8	4.9	7.0	4.8	7.4	4.7	7.8	4.7
	43.0	6.0	4.5	6.1	4.6	6.5	4.6	6.7	4.8	6.9	4.8	7.2	4.7	7.6	4.6
46.0	4.6	3.8	4.8	4.0	5.2	4.0	5.3	4.3	5.5	4.2	5.8	4.2	6.2	4.1	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

## 1-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.4	3.3	4.5	3.4	4.9	3.4	5.0	3.6	5.2	3.6	5.5	3.6	5.8	3.5
	22.5	4.4	3.3	4.5	3.4	4.8	3.4	4.9	3.6	5.1	3.6	5.4	3.5	5.7	3.5
	25.0	4.3	3.3	4.4	3.4	4.7	3.3	4.9	3.5	5.0	3.5	5.3	3.5	5.6	3.4
	27.5	4.2	3.2	4.3	3.3	4.6	3.3	4.8	3.5	4.9	3.5	5.2	3.4	5.5	3.4
	30.0	4.1	3.2	4.2	3.3	4.5	3.2	4.7	3.5	4.8	3.4	5.1	3.4	5.4	3.3
	32.5	4.1	3.2	4.2	3.2	4.4	3.2	4.6	3.4	4.7	3.4	5.0	3.4	5.3	3.3
	35.0	4.0	3.1	4.1	3.2	4.3	3.2	4.5	3.4	4.6	3.4	4.9	3.3	5.2	3.3
	37.5	3.9	3.1	4.0	3.2	4.2	3.1	4.4	3.3	4.5	3.3	4.8	3.3	5.1	3.2
	40.0	3.9	3.1	3.9	3.1	4.2	3.1	4.3	3.3	4.4	3.3	4.7	3.2	5.0	3.2
	43.0	3.8	3.0	3.8	3.1	4.0	3.0	4.2	3.3	4.3	3.2	4.6	3.2	4.8	3.1
46.0	2.9	2.6	3.0	2.7	3.2	2.7	3.2	2.9	3.5	2.9	3.7	2.9	4.0	2.9	
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.1	4.0	6.3	4.2	6.5	4.2	6.9	4.1	7.3	4.1
	22.5	5.4	3.9	5.6	4.0	6.0	3.9	6.2	4.2	6.3	4.1	6.7	4.1	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	27.5	5.3	3.8	5.4	3.9	5.7	3.8	5.9	4.1	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.7	3.9
	32.5	5.1	3.7	5.2	3.8	5.5	3.7	5.7	3.9	5.9	3.9	6.2	3.9	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.7	3.9	6.1	3.8	6.5	3.8
	37.5	4.9	3.6	5.0	3.7	5.3	3.6	5.5	3.8	5.6	3.8	6.0	3.8	6.3	3.7
	40.0	4.8	3.6	4.9	3.6	5.2	3.6	5.3	3.8	5.5	3.8	5.8	3.7	6.2	3.7
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.7	5.4	3.7	5.7	3.7	6.0	3.6
46.0	3.7	3.0	3.7	3.1	4.0	3.1	4.1	3.3	4.3	3.3	4.6	3.3	5.0	3.2	
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.7	5.2	7.9	5.5	8.2	5.5	8.7	5.5	9.2	5.4
	22.5	6.9	5.1	7.1	5.2	7.6	5.2	7.8	5.5	8.0	5.5	8.5	5.4	9.1	5.3
	25.0	6.8	5.0	7.0	5.2	7.4	5.1	7.7	5.4	7.9	5.4	8.4	5.3	8.9	5.2
	27.5	6.7	5.0	6.8	5.1	7.3	5.1	7.5	5.4	7.7	5.3	8.2	5.3	8.7	5.2
	30.0	6.5	4.9	6.7	5.0	7.1	5.0	7.4	5.3	7.6	5.3	8.1	5.2	8.5	5.1
	32.5	6.4	4.9	6.6	5.0	7.0	4.9	7.2	5.2	7.4	5.2	7.9	5.1	8.4	5.1
	35.0	6.3	4.8	6.4	4.9	6.8	4.9	7.1	5.2	7.3	5.1	7.7	5.1	8.2	5.0
	37.5	6.2	4.7	6.3	4.8	6.7	4.8	6.9	5.1	7.1	5.1	7.6	5.0	8.0	4.9
	40.0	6.1	4.7	6.2	4.8	6.6	4.7	6.8	5.0	7.0	5.0	7.4	4.9	7.8	4.9
	43.0	6.0	4.6	6.0	4.7	6.4	4.7	6.6	5.0	6.8	4.9	7.2	4.9	7.6	4.8
46.0	4.6	4.0	4.7	4.1	5.0	4.1	5.2	4.4	5.5	4.4	5.9	4.4	6.3	4.4	
71 (8.0)	20.0	7.8	5.7	8.0	5.9	8.6	5.9	8.9	6.2	9.2	6.2	9.8	6.1	10.4	6.0
	22.5	7.7	5.7	8.0	5.8	8.5	5.8	8.8	6.1	9.1	6.1	9.6	6.0	10.2	5.9
	25.0	7.6	5.6	7.8	5.8	8.4	5.7	8.6	6.1	8.9	6.0	9.4	5.9	10.0	5.9
	27.5	7.5	5.5	7.7	5.7	8.2	5.6	8.5	6.0	8.7	5.9	9.3	5.9	9.8	5.8
	30.0	7.4	5.5	7.5	5.6	8.0	5.6	8.3	5.9	8.6	5.9	9.1	5.8	9.6	5.7
	32.5	7.3	5.4	7.4	5.5	7.9	5.5	8.1	5.8	8.4	5.8	8.9	5.7	9.4	5.6
	35.0	7.1	5.4	7.2	5.5	7.7	5.4	8.0	5.8	8.2	5.7	8.7	5.7	9.2	5.6
	37.5	7.0	5.3	7.1	5.4	7.5	5.4	7.8	5.7	8.0	5.7	8.5	5.6	9.0	5.5
	40.0	6.9	5.2	6.9	5.3	7.4	5.3	7.6	5.6	7.9	5.6	8.3	5.5	8.8	5.4
	43.0	6.7	5.2	6.8	5.2	7.2	5.2	7.4	5.5	7.7	5.5	8.1	5.4	8.6	5.4
46.0	5.2	4.5	5.2	4.6	5.7	4.6	5.9	4.9	6.1	4.9	6.6	4.9	7.1	4.8	
80 (9.0)	20.0	8.7	6.4	9.0	6.6	9.7	6.6	10.1	7.0	10.4	7.0	11.0	6.9	11.7	6.8
	22.5	8.7	6.4	9.0	6.6	9.6	6.6	9.9	6.9	10.2	6.9	10.8	6.8	11.5	6.7
	25.0	8.6	6.3	8.8	6.5	9.4	6.5	9.7	6.8	10.0	6.8	10.6	6.7	11.3	6.6
	27.5	8.4	6.3	8.6	6.4	9.2	6.4	9.5	6.8	9.8	6.7	10.4	6.6	11.0	6.5
	30.0	8.3	6.2	8.5	6.4	9.0	6.3	9.3	6.7	9.6	6.7	10.2	6.6	10.8	6.5
	32.5	8.2	6.1	8.3	6.3	8.9	6.2	9.1	6.6	9.4	6.6	10.0	6.5	10.6	6.4
	35.0	8.0	6.1	8.1	6.2	8.7	6.1	9.0	6.5	9.2	6.5	9.8	6.4	10.4	6.3
	37.5	7.9	6.0	8.0	6.1	8.5	6.1	8.8	6.4	9.0	6.4	9.6	6.3	10.2	6.2
	40.0	7.7	5.9	7.8	6.0	8.3	6.0	8.6	6.4	8.8	6.3	9.4	6.2	9.9	6.2
	43.0	7.6	5.9	7.6	5.9	8.1	5.9	8.4	6.3	8.6	6.2	9.1	6.2	9.7	6.1
46.0	5.9	5.1	5.9	5.2	6.4	5.2	6.7	5.6	6.9	5.6	7.4	5.5	8.0	5.5	
100 (11.2)	20.0	10.9	8.6	11.3	8.9	12.1	8.9	12.5	9.5	12.9	9.5	13.7	9.3	14.5	9.2
	22.5	10.8	8.6	11.2	8.9	11.9	8.8	12.3	9.4	12.7	9.4	13.5	9.3	14.3	9.1
	25.0	10.7	8.5	11.0	8.8	11.7	8.7	12.1	9.3	12.5	9.3	13.2	9.2	14.0	9.0
	27.5	10.5	8.5	10.8	8.7	11.5	8.6	11.8	9.2	12.2	9.2	13.0	9.1	13.7	8.9
	30.0	10.3	8.4	10.6	8.6	11.2	8.5	11.6	9.1	12.0	9.1	12.7	9.0	13.5	8.8
	32.5	10.2	8.3	10.3	8.5	11.0	8.4	11.4	9.0	11.7	9.0	12.4	8.9	13.2	8.7
	35.0	10.0	8.2	10.1	8.4	10.8	8.4	11.2	9.0	11.5	8.9	12.2	8.8	12.9	8.7
	37.5	9.8	8.1	9.9	8.3	10.6	8.3	10.9	8.8	11.2	8.8	11.9	8.7	12.6	8.6
	40.0	9.6	8.0	9.7	8.2	10.3	8.2	10.7	8.8	11.0	8.7	11.7	8.6	12.4	8.5
	43.0	9.4	8.0	9.5	8.1	10.1	8.1	10.4	8.6	10.7	8.6	11.4	8.5	12.1	8.4
46.0	7.3	7.0	7.3	7.2	8.0	7.2	8.3	7.8	8.6	7.8	9.3	7.8	9.9	7.7	
125 (14.0)	20.0	13.6	10.0	14.1	10.3	15.1	10.3	15.7	10.9	16.2	10.8	17.2	10.7	18.2	10.5
	22.5	13.6	10.0	14.0	10.2	14.9	10.2	15.4	10.7	15.9	10.7	16.8	10.6	17.8	10.4
	25.0	13.3	9.8	13.7	10.1	14.6	10.0	15.1	10.6	15.6	10.6	16.5	10.4	17.5	10.3
	27.5	13.1	9.7	13.5	10.0	14.3	9.9	14.8	10.5	15.3	10.4	16.2	10.3	17.2	10.1
	30.0	12.9	9.6	13.2	9.9	14.1	9.8	14.5	10.4	15.0	10.3	15.9	10.2	16.8	10.0
	32.5	12.7	9.5	12.9	9.7	13.8	9.7	14.2	10.2	14.7	10.2	15.6	10.1	16.5	9.9
	35.0	12.5	9.4	12.7	9.6	13.5	9.5	14.0	10.1	14.4	10.1	15.2	9.9	16.2	9.8
	37.5	12.3	9.3	12.4	9.5	13.2	9.4	13.6	10.0	14.1	9.9	14.9	9.8	15.8	9.7
	40.0	12.0	9.2	12.2	9.4	12.9	9.3	13.3	9.9	13.8	9.8	14.6	9.7	15.5	9.5
	43.0	11.8	9.1	11.8	9.2	12.6	9.1	13.0	9.7	13.4	9.7	14.2	9.5	15.1	9.4
46.0	9.1	7.8	9.2	8.0	9.9	8.0	10.3	8.6	10.8	8.6	11.6	8.6	12.4	8.5	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
140 (16.0)	20.0	15.5	11.4	16.1	11.7	17.3	11.7	17.9	12.4	18.5	12.4	19.6	12.2	20.8	12.0
	22.5	15.5	11.4	16.0	11.7	17.0	11.6	17.6	12.3	18.1	12.2	19.2	12.1	20.4	11.9
	25.0	15.3	11.3	15.7	11.6	16.7	11.5	17.3	12.1	17.8	12.1	18.9	11.9	20.0	11.7
	27.5	15.0	11.1	15.4	11.4	16.4	11.3	16.9	12.0	17.4	11.9	18.5	11.8	19.6	11.6
	30.0	14.8	11.0	15.1	11.3	16.1	11.2	16.6	11.8	17.1	11.8	18.1	11.6	19.2	11.5
	32.5	14.5	10.9	14.8	11.1	15.7	11.0	16.3	11.7	16.8	11.6	17.8	11.5	18.8	11.3
	35.0	14.3	10.8	14.5	11.0	15.4	10.9	16.0	11.6	16.4	11.5	17.4	11.4	18.5	11.2
	37.5	14.0	10.6	14.2	10.8	15.1	10.7	15.6	11.4	16.1	11.4	17.0	11.2	18.1	11.0
	40.0	13.8	10.5	13.9	10.7	14.8	10.6	15.2	11.3	15.7	11.2	16.7	11.1	17.7	10.9
43.0	13.5	10.4	13.5	10.5	14.4	10.4	14.8	11.1	15.3	11.0	16.3	10.9	17.2	10.7	
46.0	10.4	9.0	10.5	9.2	11.4	9.2	11.8	9.9	12.3	9.9	13.2	9.8	14.2	9.7	
200 (22.4)	20.0	21.8	16.3	22.5	16.8	24.2	16.8	25.0	17.8	25.9	17.8	27.5	17.5	29.1	17.3
	22.5	21.7	16.3	22.4	16.8	23.8	16.6	24.6	17.7	25.4	17.6	26.9	17.3	28.6	17.1
	25.0	21.4	16.1	21.9	16.6	23.4	16.4	24.2	17.5	24.9	17.4	26.4	17.1	28.0	16.9
	27.5	21.0	15.9	21.5	16.4	22.9	16.2	23.7	17.3	24.4	17.2	25.9	16.9	27.5	16.7
	30.0	20.7	15.8	21.1	16.2	22.5	16.0	23.2	17.1	23.9	17.0	25.4	16.7	26.9	16.5
	32.5	20.3	15.6	20.7	16.0	22.0	15.8	22.8	16.9	23.5	16.8	24.9	16.6	26.4	16.3
	35.0	20.0	15.4	20.3	15.8	21.6	15.7	22.4	16.7	23.0	16.6	24.4	16.4	25.8	16.1
	37.5	19.6	15.3	19.9	15.6	21.1	15.5	21.8	16.5	22.5	16.4	23.9	16.2	25.3	15.9
	40.0	19.3	15.1	19.4	15.4	20.7	15.3	21.3	16.3	22.0	16.2	23.4	16.0	24.8	15.7
43.0	18.9	14.9	18.9	15.2	20.1	15.0	20.8	16.0	21.4	16.0	22.8	15.8	24.1	15.5	
46.0	14.6	13.0	14.7	13.3	15.9	13.3	16.6	14.3	17.2	14.3	18.5	14.2	19.9	14.1	
250 (28.0)	20.0	27.2	20.3	28.1	20.9	30.3	20.9	31.3	22.2	32.3	22.1	34.3	21.8	36.4	21.5
	22.5	27.1	20.3	28.0	20.8	29.8	20.7	30.8	21.9	31.7	21.8	33.7	21.5	35.7	21.2
	25.0	26.7	20.0	27.4	20.6	29.2	20.4	30.2	21.7	31.1	21.6	33.0	21.3	35.0	21.0
	27.5	26.3	19.8	26.9	20.3	28.7	20.2	29.6	21.4	30.5	21.3	32.4	21.1	34.3	20.7
	30.0	25.8	19.6	26.4	20.1	28.1	19.9	29.0	21.2	29.9	21.1	31.8	20.8	33.7	20.5
	32.5	25.4	19.4	25.9	19.9	27.5	19.7	28.4	20.9	29.3	20.8	31.1	20.6	33.0	20.2
	35.0	25.0	19.2	25.3	19.6	27.0	19.4	28.0	20.7	28.7	20.6	30.5	20.3	32.3	20.0
	37.5	24.5	19.0	24.8	19.4	26.4	19.2	27.3	20.4	28.1	20.3	29.8	20.1	31.6	19.8
	40.0	24.1	18.8	24.3	19.1	25.9	19.0	26.7	20.2	27.5	20.1	29.2	19.8	30.9	19.5
43.0	23.6	18.5	23.7	18.8	25.2	18.7	26.0	19.9	26.8	19.8	28.4	19.6	30.1	19.3	
46.0	18.3	16.1	18.4	16.5	19.9	16.5	20.7	17.8	21.5	17.7	23.2	17.6	24.8	17.5	

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



# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMHS-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
200 (22.4)	20.0	21.8	17.6	22.5	18.2	24.2	18.2	25.0	19.4	25.9	19.3	27.5	19.1	29.1	18.8
	22.5	21.7	17.5	22.4	18.1	23.8	18.0	24.6	19.2	25.4	19.1	26.9	18.9	28.6	18.6
	25.0	21.4	17.4	21.9	17.9	23.4	17.8	24.2	19.0	24.9	18.9	26.4	18.7	28.0	18.4
	27.5	21.0	17.2	21.5	17.8	22.9	17.6	23.7	18.8	24.4	18.7	25.9	18.5	27.5	18.2
	30.0	20.7	17.1	21.1	17.6	22.5	17.4	23.2	18.6	23.9	18.6	25.4	18.3	26.9	18.1
	32.5	20.3	16.9	20.7	17.4	22.0	17.2	22.8	18.5	23.5	18.4	24.9	18.1	26.4	17.9
	35.0	20.0	16.7	20.3	17.2	21.6	17.0	22.4	18.3	23.0	18.2	24.4	18.0	25.8	17.7
	37.5	19.6	16.6	19.9	17.0	21.1	16.9	21.8	18.1	22.5	18.0	23.9	17.8	25.3	17.5
	40.0	19.3	16.4	19.4	16.8	20.7	16.7	21.3	17.9	22.0	17.8	23.4	17.6	24.8	17.3
	43.0	18.9	16.2	18.9	16.6	20.1	16.5	20.8	17.7	21.4	17.6	22.8	17.4	24.1	17.1
46.0	14.6	14.3	14.7	14.7	15.9	14.8	16.6	16.0	17.2	16.0	18.5	15.9	19.9	15.8	
250 (28.0)	20.0	27.2	21.5	28.1	22.2	30.3	22.2	31.3	23.6	32.3	23.5	34.3	23.2	36.4	22.9
	22.5	27.1	21.4	28.0	22.1	29.8	22.0	30.8	23.4	31.7	23.3	33.7	23.0	35.7	22.6
	25.0	26.7	21.2	27.4	21.9	29.2	21.7	30.2	23.2	31.1	23.0	33.0	22.7	35.0	22.4
	27.5	26.3	21.0	26.9	21.6	28.7	21.5	29.6	22.9	30.5	22.8	32.4	22.5	34.3	22.2
	30.0	25.8	20.8	26.4	21.4	28.1	21.2	29.0	22.7	29.9	22.6	31.8	22.3	33.7	21.9
	32.5	25.4	20.6	25.9	21.2	27.5	21.0	28.4	22.4	29.3	22.3	31.1	22.0	33.0	21.7
	35.0	25.0	20.4	25.3	20.9	27.0	20.8	28.0	22.3	28.7	22.1	30.5	21.8	32.3	21.5
	37.5	24.5	20.2	24.8	20.7	26.4	20.5	27.3	22.0	28.1	21.8	29.8	21.6	31.6	21.3
	40.0	24.1	20.0	24.3	20.5	25.9	20.3	26.7	21.7	27.5	21.6	29.2	21.3	30.9	21.0
	43.0	23.6	19.8	23.7	20.2	25.2	20.0	26.0	21.4	26.8	21.3	28.4	21.1	30.1	20.8
46.0	18.3	17.4	18.4	17.9	19.9	17.9	20.7	19.4	21.5	19.3	23.2	19.2	24.8	19.1	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMR-E-L/R

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.5	1.9	2.5	1.9	2.7	1.9	2.9	1.9
	22.5	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.8	1.8
	25.0	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.8	2.8	1.8
	27.5	2.1	1.7	2.1	1.8	2.3	1.7	2.3	1.9	2.4	1.9	2.5	1.8	2.7	1.8
	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
	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
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.5	1.7
	40.0	1.9	1.6	1.9	1.7	2.0	1.6	2.1	1.8	2.2	1.8	2.3	1.7	2.4	1.7
	43.0	1.9	1.6	1.9	1.6	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.4	1.7
46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.6	1.7	1.6	1.8	1.6	2.0	1.6
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.1
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.1	3.6	2.1
	25.0	2.7	2.0	2.7	2.0	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	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
	30.0	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.0	3.0	2.0	3.2	2.0
	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
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	1.9
	43.0	2.4	1.8	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.8	1.9	3.0	1.9
46.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.8	2.2	1.8	2.3	1.7	2.5	1.7	
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.7	4.2	2.7	4.4	2.6	4.7	2.6
	22.5	3.5	2.5	3.6	2.5	3.8	2.5	4.0	2.7	4.1	2.6	4.3	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.6	3.8	2.5	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.3	3.6	2.5	3.7	2.5	3.9	2.4	4.2	2.4
	37.5	3.2	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.8	2.4	4.1	2.4
	40.0	3.1	2.3	3.1	2.3	3.3	2.3	3.4	2.4	3.5	2.4	3.8	2.4	4.0	2.3
	43.0	3.0	2.2	3.0	2.3	3.2	2.2	3.3	2.4	3.4	2.4	3.7	2.3	3.9	2.3
46.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.1	2.8	2.1	3.0	2.1	3.2	2.1	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMS1(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.7	1.5	1.7	1.5	1.8	1.5	1.9	1.7	2.0	1.7	2.1	1.6	2.2	1.6
	22.5	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
	25.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	30.0	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.5	1.4	1.5	1.4	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.5
46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.5	2.0	2.5	2.0	2.7	2.0	2.9	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.8	1.9
	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
	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
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.7	2.1	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	1.9	1.7	2.0	1.7	2.1	1.9	2.2	1.8	2.3	1.8	2.4	1.8
	43.0	1.9	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
46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.6	
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	22.5	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	25.0	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.1
	40.0	2.4	2.0	2.4	2.1	2.6	2.0	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
46.0	1.8	1.8	1.8	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.2	2.9	4.4	2.8	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.8	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.7	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.3	2.6	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.6	4.2	2.6
	37.5	3.2	2.5	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.6
	40.0	3.1	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.8	2.6	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.6	3.4	2.6	3.7	2.5	3.9	2.5
46.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3	
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.5	5.2	3.5	5.5	3.4	5.8	3.4
	22.5	4.4	3.2	4.5	3.3	4.8	3.3	4.9	3.4	5.1	3.4	5.4	3.4	5.7	3.3
	25.0	4.3	3.2	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.2	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.3	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	3.9	3.0	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	40.0	3.9	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	5.0	3.1
	43.0	3.8	2.9	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.1	4.6	3.1	4.8	3.0
46.0	2.9	2.5	3.0	2.6	3.2	2.6	3.3	2.8	3.5	2.8	3.7	2.7	4.0	2.7	
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.1	4.0	6.3	4.3	6.5	4.2	6.9	4.2	7.3	4.1
	22.5	5.4	3.9	5.6	4.0	6.0	4.0	6.2	4.2	6.3	4.2	6.7	4.1	7.1	4.1
	25.0	5.3	3.9	5.5	4.0	5.8	3.9	6.0	4.2	6.2	4.1	6.6	4.1	7.0	4.0
	27.5	5.3	3.8	5.4	3.9	5.7	3.9	5.9	4.1	6.1	4.1	6.5	4.0	6.9	4.0
	30.0	5.2	3.8	5.3	3.9	5.6	3.8	5.8	4.1	6.0	4.0	6.4	4.0	6.7	3.9
	32.5	5.1	3.7	5.2	3.8	5.5	3.8	5.7	4.0	5.9	4.0	6.2	3.9	6.6	3.9
	35.0	5.0	3.7	5.1	3.8	5.4	3.7	5.6	4.0	5.7	3.9	6.1	3.9	6.5	3.8
	37.5	4.9	3.6	5.0	3.7	5.3	3.7	5.5	3.9	5.6	3.9	6.0	3.8	6.3	3.8
	40.0	4.8	3.6	4.9	3.7	5.2	3.6	5.3	3.8	5.5	3.8	5.8	3.8	6.2	3.7
	43.0	4.7	3.6	4.7	3.6	5.0	3.6	5.2	3.8	5.4	3.8	5.7	3.7	6.0	3.7
46.0	3.7	3.0	3.7	3.1	4.0	3.1	4.1	3.3	4.3	3.3	4.6	3.3	5.0	3.3	
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.7	5.1	7.9	5.4	8.2	5.4	8.7	5.3	9.2	5.2
	22.5	6.9	4.9	7.1	5.1	7.6	5.0	7.8	5.3	8.0	5.3	8.5	5.2	9.1	5.1
	25.0	6.8	4.9	7.0	5.0	7.4	5.0	7.7	5.2	7.9	5.2	8.4	5.2	8.9	5.1
	27.5	6.7	4.8	6.8	4.9	7.3	4.9	7.5	5.2	7.7	5.2	8.2	5.1	8.7	5.0
	30.0	6.5	4.8	6.7	4.9	7.1	4.8	7.4	5.1	7.6	5.1	8.1	5.0	8.5	4.9
	32.5	6.4	4.7	6.6	4.8	7.0	4.8	7.2	5.1	7.4	5.0	7.9	5.0	8.4	4.9
	35.0	6.3	4.7	6.4	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.7	4.9	8.2	4.8
	37.5	6.2	4.6	6.3	4.7	6.7	4.6	6.9	4.9	7.1	4.9	7.6	4.8	8.0	4.8
	40.0	6.1	4.6	6.2	4.6	6.6	4.6	6.8	4.9	7.0	4.8	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.0	4.5	6.4	4.5	6.6	4.8	6.8	4.8	7.2	4.7	7.6	4.6
46.0	4.6	3.8	4.7	3.9	5.0	3.9	5.2	4.2	5.5	4.2	5.9	4.2	6.3	4.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

## 1-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.5	5.0	3.5	5.3	3.5	5.7	3.4
	22.5	4.2	3.2	4.3	3.3	4.6	3.3	4.8	3.5	4.9	3.5	5.3	3.5	5.6	3.4
	25.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.5	4.9	3.5	5.2	3.4	5.6	3.4
	27.5	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.5	4.8	3.5	5.2	3.4	5.5	3.4
	30.0	4.1	3.2	4.2	3.2	4.5	3.2	4.6	3.4	4.8	3.4	5.1	3.4	5.5	3.4
	32.5	4.0	3.1	4.1	3.2	4.4	3.2	4.6	3.4	4.7	3.4	5.1	3.4	5.4	3.3
	35.0	4.0	3.1	4.1	3.2	4.4	3.2	4.5	3.4	4.7	3.4	5.0	3.4	5.4	3.3
	37.5	4.0	3.1	4.0	3.2	4.3	3.2	4.5	3.4	4.6	3.4	5.0	3.3	5.3	3.3
	40.0	3.9	3.1	4.0	3.1	4.3	3.1	4.4	3.4	4.6	3.3	4.9	3.3	5.3	3.3
	43.0	3.9	3.1	3.9	3.1	4.2	3.1	4.4	3.3	4.5	3.3	4.9	3.3	5.2	3.3
46.0	3.0	2.7	3.1	2.7	3.4	2.8	3.5	3.0	3.7	3.0	4.0	3.0	4.4	3.0	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	22.5	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.9	3.9
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.7	5.1	3.7	5.5	3.7	5.7	4.0	5.9	3.9	6.3	3.9	6.7	3.9
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.6	3.8
	40.0	4.9	3.6	4.9	3.6	5.3	3.6	5.5	3.9	5.7	3.9	6.1	3.8	6.5	3.8
	43.0	4.8	3.6	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.8
46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.4	4.6	3.4	5.0	3.4	5.4	3.4	
63 (7.1)	20.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.4	7.9	5.4	8.4	5.3	8.9	5.3
	22.5	6.6	5.0	6.8	5.1	7.3	5.1	7.6	5.4	7.8	5.4	8.3	5.3	8.8	5.2
	25.0	6.6	4.9	6.8	5.1	7.2	5.0	7.5	5.3	7.7	5.3	8.2	5.3	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.3	7.6	5.3	8.2	5.2	8.7	5.2
	30.0	6.4	4.9	6.6	5.0	7.1	5.0	7.3	5.3	7.6	5.3	8.1	5.2	8.6	5.1
	32.5	6.4	4.8	6.5	4.9	7.0	4.9	7.2	5.2	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.2	7.4	5.2	7.9	5.1	8.5	5.1
	37.5	6.2	4.8	6.3	4.9	6.8	4.9	7.1	5.2	7.3	5.2	7.8	5.1	8.4	5.1
	40.0	6.2	4.7	6.3	4.8	6.7	4.8	7.0	5.1	7.2	5.1	7.8	5.1	8.3	5.0
	43.0	6.1	4.7	6.2	4.8	6.7	4.8	6.9	5.1	7.1	5.1	7.7	5.0	8.2	5.0
46.0	4.7	4.1	4.8	4.2	5.3	4.2	5.6	4.5	5.8	4.5	6.3	4.6	6.9	4.5	
71 (8.0)	20.0	7.6	5.6	7.8	5.7	8.3	5.7	8.6	6.0	8.9	6.0	9.4	5.9	10.0	5.9
	22.5	7.5	5.5	7.7	5.7	8.2	5.7	8.5	6.0	8.8	6.0	9.4	5.9	10.0	5.8
	25.0	7.4	5.5	7.6	5.6	8.1	5.6	8.4	6.0	8.7	5.9	9.3	5.9	9.9	5.8
	27.5	7.3	5.5	7.5	5.6	8.1	5.6	8.3	5.9	8.6	5.9	9.2	5.8	9.8	5.8
	30.0	7.3	5.4	7.4	5.6	8.0	5.5	8.2	5.9	8.5	5.9	9.1	5.8	9.7	5.7
	32.5	7.2	5.4	7.3	5.5	7.9	5.5	8.2	5.8	8.4	5.8	9.0	5.8	9.6	5.7
	35.0	7.1	5.4	7.2	5.5	7.8	5.5	8.0	5.8	8.3	5.8	8.9	5.7	9.5	5.7
	37.5	7.0	5.3	7.2	5.4	7.7	5.4	8.0	5.8	8.3	5.7	8.8	5.7	9.4	5.6
	40.0	7.0	5.3	7.1	5.4	7.6	5.4	7.9	5.7	8.2	5.7	8.7	5.7	9.4	5.6
	43.0	6.9	5.2	7.0	5.3	7.5	5.3	7.8	5.7	8.1	5.7	8.6	5.6	9.2	5.6
46.0	5.4	4.5	5.4	4.6	6.0	4.7	6.3	5.1	6.5	5.1	7.1	5.1	7.7	5.1	
80 (9.0)	20.0	8.5	6.3	8.8	6.5	9.4	6.5	9.7	6.8	10.0	6.8	10.6	6.7	11.3	6.6
	22.5	8.4	6.3	8.7	6.4	9.3	6.4	9.6	6.8	9.9	6.8	10.5	6.7	11.2	6.6
	25.0	8.3	6.2	8.6	6.4	9.2	6.4	9.5	6.8	9.8	6.7	10.4	6.7	11.1	6.6
	27.5	8.3	6.2	8.5	6.3	9.1	6.3	9.4	6.7	9.7	6.7	10.3	6.6	11.0	6.5
	30.0	8.2	6.1	8.4	6.3	9.0	6.3	9.3	6.7	9.6	6.6	10.2	6.6	10.9	6.5
	32.5	8.1	6.1	8.3	6.2	8.9	6.2	9.2	6.6	9.5	6.6	10.1	6.5	10.8	6.5
	35.0	8.0	6.1	8.1	6.2	8.8	6.2	9.0	6.5	9.4	6.6	10.0	6.5	10.7	6.4
	37.5	7.9	6.0	8.0	6.1	8.7	6.1	9.0	6.5	9.3	6.5	9.9	6.5	10.6	6.4
	40.0	7.8	6.0	7.9	6.1	8.6	6.1	8.9	6.5	9.2	6.5	9.8	6.4	10.5	6.4
	43.0	7.7	5.9	7.8	6.0	8.4	6.0	8.7	6.4	9.1	6.4	9.7	6.4	10.4	6.3
46.0	6.0	5.1	6.1	5.3	6.7	5.3	7.0	5.7	7.4	5.7	8.0	5.7	8.7	5.7	
100 (11.2)	20.0	10.6	8.5	10.9	8.8	11.7	8.7	12.0	9.3	12.4	9.3	13.2	9.2	14.1	9.0
	22.5	10.5	8.4	10.8	8.7	11.5	8.7	11.9	9.3	12.3	9.2	13.1	9.1	13.9	9.0
	25.0	10.4	8.4	10.6	8.7	11.4	8.6	11.8	9.2	12.2	9.2	13.0	9.1	13.8	9.0
	27.5	10.3	8.3	10.5	8.6	11.3	8.6	11.7	9.2	12.1	9.1	12.9	9.0	13.7	8.9
	30.0	10.2	8.3	10.4	8.5	11.2	8.5	11.5	9.1	11.9	9.1	12.7	9.0	13.6	8.9
	32.5	10.1	8.2	10.3	8.5	11.0	8.5	11.4	9.0	11.8	9.0	12.6	8.9	13.5	8.8
	35.0	9.9	8.2	10.1	8.4	10.9	8.4	11.2	9.0	11.7	9.0	12.5	8.9	13.3	8.8
	37.5	9.8	8.1	10.0	8.4	10.8	8.3	11.2	8.9	11.6	8.9	12.4	8.8	13.2	8.8
	40.0	9.7	8.1	9.9	8.3	10.6	8.3	11.0	8.9	11.4	8.9	12.2	8.8	13.1	8.7
	43.0	9.6	8.0	9.7	8.2	10.5	8.2	10.9	8.8	11.3	8.8	12.1	8.7	12.9	8.7
46.0	7.5	7.1	7.6	7.3	8.4	7.4	8.8	8.0	9.2	8.0	10.0	8.0	10.8	8.0	
125 (14.0)	20.0	13.2	9.8	13.6	10.1	14.6	10.0	15.1	10.6	15.5	10.6	16.5	10.4	17.6	10.3
	22.5	13.1	9.7	13.5	10.0	14.4	9.9	14.9	10.5	15.4	10.5	16.4	10.4	17.4	10.2
	25.0	13.0	9.7	13.3	9.9	14.3	9.9	14.7	10.5	15.2	10.4	16.2	10.3	17.3	10.2
	27.5	12.8	9.6	13.2	9.8	14.1	9.8	14.6	10.4	15.1	10.4	16.1	10.3	17.1	10.1
	30.0	12.7	9.5	13.0	9.8	13.9	9.7	14.4	10.3	14.9	10.3	15.9	10.2	17.0	10.1
	32.5	12.6	9.5	12.8	9.7	13.8	9.7	14.3	10.3	14.8	10.2	15.8	10.1	16.8	10.0
	35.0	12.4	9.4	12.7	9.6	13.6	9.6	14.0	10.1	14.6	10.2	15.6	10.1	16.7	10.0
	37.5	12.3	9.3	12.5	9.5	13.5	9.5	14.0	10.1	14.4	10.1	15.5	10.0	16.5	9.9
	40.0	12.2	9.3	12.4	9.5	13.3	9.4	13.8	10.1	14.3	10.0	15.3	10.0	16.4	9.9
	43.0	12.0	9.2	12.2	9.4	13.1	9.4	13.6	10.0	14.1	9.9	15.1	9.9	16.2	9.8
46.0	9.4	7.9	9.5	8.2	10.5	8.2	11.0	8.9	11.5	8.9	12.5	8.9	13.5	8.9	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
140 (16.0)	20.0	15.1	11.2	15.6	11.5	16.7	11.4	17.2	12.1	17.8	12.1	18.9	11.9	20.1	11.8
	22.5	15.0	11.1	15.4	11.4	16.5	11.4	17.0	12.0	17.6	12.0	18.7	11.9	19.9	11.7
	25.0	14.8	11.0	15.2	11.3	16.3	11.3	16.8	12.0	17.4	11.9	18.5	11.8	19.7	11.6
	27.5	14.7	11.0	15.0	11.2	16.1	11.2	16.7	11.9	17.2	11.8	18.4	11.7	19.6	11.6
	30.0	14.5	10.9	14.9	11.2	15.9	11.1	16.5	11.8	17.0	11.8	18.2	11.7	19.4	11.5
	32.5	14.4	10.8	14.7	11.1	15.8	11.0	16.3	11.7	16.9	11.7	18.0	11.6	19.2	11.5
	35.0	14.2	10.7	14.5	11.0	15.6	11.0	16.0	11.6	16.7	11.6	17.8	11.5	19.1	11.4
	37.5	14.1	10.7	14.3	10.9	15.4	10.9	15.9	11.6	16.5	11.5	17.7	11.4	18.9	11.3
	40.0	13.9	10.6	14.1	10.8	15.2	10.8	15.8	11.5	16.3	11.5	17.5	11.4	18.7	11.3
	43.0	13.7	10.5	13.9	10.7	15.0	10.7	15.6	11.4	16.1	11.4	17.3	11.3	18.5	11.2
46.0	10.7	9.1	10.9	9.3	12.0	9.4	12.5	10.2	13.1	10.2	14.3	10.2	15.5	10.1	
200 (22.4)	20.0	21.2	16.0	21.8	16.5	23.3	16.4	24.1	17.4	24.9	17.3	26.5	17.1	28.1	16.9
	22.5	21.0	15.9	21.6	16.4	23.1	16.3	23.8	17.3	24.6	17.2	26.2	17.1	27.9	16.8
	25.0	20.7	15.8	21.3	16.3	22.8	16.2	23.6	17.2	24.4	17.1	26.0	17.0	27.6	16.7
	27.5	20.5	15.7	21.0	16.1	22.6	16.1	23.3	17.1	24.1	17.0	25.7	16.9	27.4	16.7
	30.0	20.3	15.6	20.8	16.0	22.3	16.0	23.1	17.0	23.9	16.9	25.5	16.8	27.2	16.6
	32.5	20.1	15.5	20.5	15.9	22.1	15.9	22.8	16.9	23.6	16.8	25.2	16.7	26.9	16.5
	35.0	19.9	15.4	20.3	15.8	21.8	15.7	22.4	16.7	23.4	16.7	25.0	16.6	26.7	16.4
	37.5	19.7	15.3	20.0	15.7	21.5	15.6	22.3	16.7	23.1	16.6	24.7	16.5	26.4	16.3
	40.0	19.5	15.2	19.8	15.5	21.3	15.5	22.1	16.6	22.8	16.5	24.5	16.4	26.2	16.2
	43.0	19.2	15.1	19.5	15.4	21.0	15.4	21.8	16.4	22.6	16.4	24.2	16.3	25.9	16.1
46.0	15.0	13.1	15.2	13.5	16.8	13.6	17.5	14.7	18.3	14.7	20.0	14.7	21.7	14.7	
250 (28.0)	20.0	26.5	19.9	27.3	20.5	29.2	20.4	30.1	21.7	31.1	21.6	33.1	21.3	35.2	21.0
	22.5	26.2	19.8	26.9	20.4	28.8	20.3	29.8	21.5	30.8	21.4	32.8	21.2	34.9	20.9
	25.0	25.9	19.7	26.6	20.2	28.5	20.1	29.5	21.4	30.5	21.3	32.4	21.1	34.6	20.8
	27.5	25.7	19.5	26.3	20.1	28.2	20.0	29.2	21.2	30.1	21.2	32.1	21.0	34.3	20.7
	30.0	25.4	19.4	26.0	19.9	27.9	19.8	28.9	21.1	29.8	21.0	31.8	20.8	33.9	20.6
	32.5	25.1	19.3	25.7	19.8	27.6	19.7	28.5	21.0	29.5	20.9	31.5	20.7	33.6	20.5
	35.0	24.9	19.2	25.4	19.6	27.2	19.6	28.0	20.7	29.2	20.8	31.2	20.6	33.3	20.4
	37.5	24.6	19.0	25.0	19.5	26.9	19.4	27.9	20.7	28.9	20.6	30.9	20.5	33.0	20.3
	40.0	24.3	18.9	24.7	19.3	26.6	19.3	27.6	20.6	28.6	20.5	30.6	20.4	32.7	20.2
	43.0	24.0	18.7	24.3	19.1	26.2	19.1	27.2	20.4	28.2	20.4	30.2	20.2	32.4	20.0
46.0	18.7	16.3	19.0	16.8	20.9	16.9	21.9	18.3	22.9	18.3	24.9	18.3	27.1	18.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMHS-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
200 (22.4)	20.0	21.2	17.3	21.8	17.9	23.3	17.8	24.1	19.0	24.9	18.9	26.5	18.7	28.1	18.5
	22.5	21.0	17.2	21.6	17.8	23.1	17.7	23.8	18.9	24.6	18.8	26.2	18.6	27.9	18.4
	25.0	20.7	17.1	21.3	17.6	22.8	17.6	23.6	18.8	24.4	18.7	26.0	18.5	27.6	18.3
	27.5	20.5	17.0	21.0	17.5	22.6	17.5	23.3	18.7	24.1	18.6	25.7	18.4	27.4	18.2
	30.0	20.3	16.9	20.8	17.4	22.3	17.3	23.1	18.6	23.9	18.5	25.5	18.3	27.2	18.1
	32.5	20.1	16.8	20.5	17.3	22.1	17.2	22.8	18.5	23.6	18.4	25.2	18.3	26.9	18.1
	35.0	19.9	16.7	20.3	17.2	21.8	17.1	22.4	18.3	23.4	18.3	25.0	18.2	26.7	18.0
	37.5	19.7	16.6	20.0	17.1	21.5	17.0	22.3	18.3	23.1	18.2	24.7	18.1	26.4	17.9
	40.0	19.5	16.5	19.8	17.0	21.3	16.9	22.1	18.2	22.8	18.1	24.5	18.0	26.2	17.8
	43.0	19.2	16.4	19.5	16.8	21.0	16.8	21.8	18.1	22.6	18.0	24.2	17.9	25.9	17.7
46.0	15.0	14.5	15.2	15.0	16.8	15.1	17.5	16.4	18.3	16.4	20.0	16.4	21.7	16.3	
250 (28.0)	20.0	26.5	21.1	27.3	21.8	29.2	21.7	30.1	23.1	31.1	23.0	33.1	22.8	35.2	22.5
	22.5	26.2	21.0	26.9	21.6	28.8	21.5	29.8	23.0	30.8	22.9	32.8	22.6	34.9	22.4
	25.0	25.9	20.9	26.6	21.5	28.5	21.4	29.5	22.9	30.5	22.8	32.4	22.5	34.6	22.3
	27.5	25.7	20.7	26.3	21.4	28.2	21.3	29.2	22.7	30.1	22.6	32.1	22.4	34.3	22.1
	30.0	25.4	20.6	26.0	21.2	27.9	21.1	28.9	22.6	29.8	22.5	31.8	22.3	33.9	22.0
	32.5	25.1	20.5	25.7	21.1	27.6	21.0	28.5	22.5	29.5	22.4	31.5	22.2	33.6	21.9
	35.0	24.9	20.4	25.4	20.9	27.2	20.9	28.0	22.3	29.2	22.3	31.2	22.1	33.3	21.8
	37.5	24.6	20.2	25.0	20.8	26.9	20.7	27.9	22.2	28.9	22.1	30.9	22.0	33.0	21.7
	40.0	24.3	20.1	24.7	20.6	26.6	20.6	27.6	22.1	28.6	22.0	30.6	21.9	32.7	21.6
	43.0	24.0	20.0	24.3	20.5	26.2	20.4	27.2	21.9	28.2	21.9	30.2	21.7	32.4	21.5
46.0	18.7	17.6	19.0	18.2	20.9	18.3	21.9	19.8	22.9	19.9	24.9	19.8	27.1	19.8	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMR-E-L/R

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.8	2.8	1.8
	22.5	2.1	1.7	2.1	1.8	2.3	1.7	2.3	1.9	2.4	1.9	2.6	1.8	2.7	1.8
	25.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.9	2.4	1.8	2.5	1.8	2.7	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.7	1.8
	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
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	37.5	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
	40.0	1.9	1.6	1.9	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.4	1.8	2.6	1.8
	43.0	1.9	1.6	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8
46.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	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
	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
	25.0	2.6	2.0	2.7	2.0	2.9	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.5	2.1
	27.5	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.0	3.1	2.0	3.3	2.0
	40.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	43.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.2	2.0
46.0	1.9	1.6	1.9	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.7	1.8	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.5	2.5
	22.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.6	4.5	2.5
	25.0	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.6	3.9	2.6	4.2	2.5	4.4	2.5
	27.5	3.3	2.4	3.4	2.4	3.6	2.4	3.8	2.6	3.9	2.5	4.1	2.5	4.4	2.5
	30.0	3.3	2.4	3.3	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.3	2.5
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.5	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.3	3.5	2.3	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.5	3.7	2.5	3.9	2.4	4.2	2.4
	43.0	3.1	2.3	3.1	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.2	2.4
46.0	2.4	1.9	2.4	2.0	2.7	2.0	2.8	2.2	2.9	2.2	3.2	2.2	3.5	2.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMS1(L)-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	35.0	1.5	1.4	1.5	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	43.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	2.0	1.5
46.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.6	1.4	
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.1	1.8	2.3	1.8	2.3	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.7	1.9
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.7	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.8
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.2
	27.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	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	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
46.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.6
	37.5	3.2	2.5	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.3	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.3	5.2	3.3	5.6	3.3
	27.5	4.1	3.1	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.3	5.0	3.2	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.2
	40.0	3.9	3.0	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.9	3.2	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.1	7.0	4.0
	22.5	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.1	7.0	4.0
	25.0	5.2	3.8	5.3	3.9	5.7	3.9	5.9	4.1	6.1	4.1	6.5	4.0	6.9	4.0
	27.5	5.1	3.8	5.3	3.9	5.6	3.8	5.8	4.1	6.0	4.0	6.4	4.0	6.9	4.0
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.8	3.9
	32.5	5.0	3.7	5.1	3.8	5.5	3.8	5.7	4.0	5.9	4.0	6.3	4.0	6.7	3.9
	35.0	5.0	3.7	5.1	3.8	5.4	3.8	5.6	4.0	5.8	4.0	6.2	3.9	6.7	3.9
	37.5	4.9	3.7	5.0	3.7	5.4	3.7	5.6	4.0	5.8	3.9	6.2	3.9	6.6	3.9
	40.0	4.9	3.6	4.9	3.7	5.3	3.7	5.5	3.9	5.7	3.9	6.1	3.9	6.5	3.8
	43.0	4.8	3.6	4.9	3.7	5.2	3.7	5.4	3.9	5.6	3.9	6.0	3.9	6.5	3.8
46.0	3.7	3.1	3.8	3.2	4.2	3.2	4.4	3.4	4.6	3.5	5.0	3.5	5.4	3.4	
63 (7.1)	20.0	6.7	4.9	6.9	5.0	7.4	5.0	7.6	5.2	7.9	5.2	8.4	5.2	8.9	5.1
	22.5	6.6	4.8	6.8	4.9	7.3	4.9	7.6	5.2	7.8	5.2	8.3	5.1	8.8	5.1
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.8	6.7	4.9	7.2	4.8	7.4	5.1	7.6	5.1	8.2	5.1	8.7	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.7	6.4	4.7	6.9	4.7	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.9
	37.5	6.2	4.6	6.3	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	5.0	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.1	4.9	7.7	4.9	8.2	4.8
46.0	4.7	3.9	4.8	4.0	5.3	4.0	5.6	4.3	5.8	4.4	6.3	4.4	6.9	4.3	

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



# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

## 1-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.3	4.5	3.4	4.8	3.4	5.0	3.6	5.2	3.6	5.5	3.6	5.9	3.5
	22.5	4.3	3.3	4.4	3.4	4.7	3.4	4.9	3.6	5.1	3.5	5.4	3.5	5.8	3.5
	25.0	4.2	3.2	4.3	3.3	4.7	3.3	4.8	3.5	5.0	3.5	5.3	3.5	5.7	3.4
	27.5	4.1	3.2	4.3	3.3	4.6	3.3	4.7	3.5	4.9	3.5	5.2	3.4	5.6	3.4
	30.0	4.1	3.1	4.2	3.3	4.5	3.2	4.7	3.5	4.8	3.4	5.1	3.4	5.5	3.4
	32.5	4.0	3.1	4.1	3.2	4.4	3.2	4.6	3.4	4.7	3.4	5.0	3.4	5.4	3.3
	35.0	3.9	3.1	4.0	3.2	4.3	3.2	4.5	3.4	4.6	3.4	4.9	3.3	5.3	3.3
	37.5	3.8	3.0	4.0	3.1	4.2	3.1	4.4	3.3	4.5	3.3	4.8	3.3	5.2	3.3
	40.0	3.8	3.0	3.9	3.1	4.2	3.1	4.3	3.3	4.5	3.3	4.8	3.3	5.1	3.2
	43.0	3.7	3.0	3.8	3.1	4.1	3.1	4.2	3.3	4.3	3.3	4.6	3.2	4.9	3.2
46.0	2.8	2.6	2.9	2.7	3.2	2.7	3.4	2.9	3.5	2.9	3.8	2.9	4.1	2.9	
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.0	4.0	6.2	4.2	6.4	4.2	6.9	4.1	7.3	4.1
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.3	4.1	6.7	4.1	7.2	4.0
	25.0	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	27.5	5.1	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.0	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.8	6.5	3.8
	37.5	4.8	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.7	3.8	6.0	3.8	6.4	3.7
	40.0	4.7	3.5	4.8	3.6	5.2	3.6	5.4	3.8	5.5	3.8	5.9	3.8	6.3	3.7
	43.0	4.6	3.4	4.7	3.5	5.1	3.5	5.2	3.7	5.4	3.7	5.8	3.7	6.1	3.6
46.0	3.5	2.9	3.6	3.0	4.0	3.1	4.2	3.3	4.4	3.3	4.7	3.3	5.1	3.3	
63 (7.1)	20.0	6.9	5.1	7.1	5.2	7.6	5.2	7.9	5.5	8.2	5.5	8.7	5.5	9.3	5.4
	22.5	6.7	5.0	7.0	5.2	7.5	5.2	7.8	5.5	8.0	5.4	8.6	5.4	9.1	5.3
	25.0	6.6	5.0	6.9	5.1	7.4	5.1	7.6	5.4	7.9	5.4	8.4	5.3	8.9	5.3
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.5	5.3	7.7	5.3	8.3	5.3	8.8	5.2
	30.0	6.4	4.8	6.6	5.0	7.1	5.0	7.3	5.3	7.6	5.3	8.1	5.2	8.6	5.1
	32.5	6.3	4.8	6.5	4.9	7.0	4.9	7.2	5.2	7.5	5.2	7.9	5.2	8.5	5.1
	35.0	6.2	4.7	6.4	4.9	6.8	4.9	7.1	5.2	7.3	5.1	7.8	5.1	8.3	5.0
	37.5	6.1	4.7	6.2	4.8	6.7	4.8	6.9	5.1	7.2	5.1	7.6	5.0	8.1	5.0
	40.0	5.9	4.6	6.1	4.8	6.6	4.7	6.8	5.1	7.0	5.0	7.5	5.0	8.0	4.9
	43.0	5.8	4.5	6.0	4.7	6.4	4.7	6.6	5.0	6.9	5.0	7.3	4.9	7.8	4.9
46.0	4.5	3.9	4.6	4.1	5.1	4.1	5.3	4.4	5.5	4.4	6.0	4.4	6.4	4.4	
71 (8.0)	20.0	7.7	5.7	8.0	5.8	8.6	5.8	8.9	6.2	9.2	6.1	9.8	6.1	10.4	6.0
	22.5	7.6	5.6	7.9	5.8	8.4	5.8	8.7	6.1	9.0	6.1	9.6	6.0	10.3	5.9
	25.0	7.5	5.5	7.7	5.7	8.3	5.7	8.6	6.0	8.9	6.0	9.5	6.0	10.1	5.9
	27.5	7.3	5.5	7.6	5.6	8.1	5.6	8.4	6.0	8.7	5.9	9.3	5.9	9.9	5.8
	30.0	7.2	5.4	7.4	5.6	8.0	5.6	8.3	5.9	8.6	5.9	9.1	5.8	9.7	5.7
	32.5	7.1	5.3	7.3	5.5	7.8	5.5	8.1	5.8	8.4	5.8	9.0	5.8	9.5	5.7
	35.0	6.9	5.3	7.2	5.4	7.7	5.4	8.0	5.8	8.2	5.7	8.8	5.7	9.3	5.6
	37.5	6.8	5.2	7.0	5.4	7.5	5.4	7.8	5.7	8.1	5.7	8.6	5.6	9.2	5.5
	40.0	6.7	5.1	6.9	5.3	7.4	5.3	7.7	5.6	7.9	5.6	8.4	5.6	9.0	5.5
	43.0	6.5	5.1	6.7	5.2	7.2	5.2	7.5	5.6	7.7	5.5	8.2	5.5	8.8	5.4
46.0	5.0	4.4	5.2	4.5	5.7	4.6	6.0	4.9	6.2	4.9	6.7	4.9	7.3	4.9	
80 (9.0)	20.0	8.7	6.4	9.0	6.6	9.7	6.6	10.0	7.0	10.3	7.0	11.0	6.9	11.7	6.8
	22.5	8.5	6.3	8.9	6.5	9.5	6.5	9.8	6.9	10.2	6.9	10.8	6.8	11.5	6.7
	25.0	8.4	6.3	8.7	6.5	9.3	6.4	9.7	6.8	10.0	6.8	10.6	6.7	11.3	6.6
	27.5	8.3	6.2	8.5	6.4	9.2	6.4	9.5	6.8	9.8	6.7	10.5	6.7	11.1	6.6
	30.0	8.1	6.1	8.4	6.3	9.0	6.3	9.3	6.7	9.6	6.7	10.3	6.6	10.9	6.5
	32.5	8.0	6.0	8.2	6.2	8.8	6.2	9.1	6.6	9.4	6.6	10.1	6.5	10.7	6.4
	35.0	7.8	6.0	8.1	6.2	8.7	6.1	9.0	6.5	9.3	6.5	9.9	6.4	10.5	6.4
	37.5	7.7	5.9	7.9	6.1	8.5	6.1	8.8	6.5	9.1	6.4	9.7	6.4	10.3	6.3
	40.0	7.5	5.8	7.7	6.0	8.3	6.0	8.6	6.4	8.9	6.4	9.5	6.3	10.1	6.2
	43.0	7.4	5.7	7.6	5.9	8.1	5.9	8.4	6.3	8.7	6.3	9.3	6.2	9.9	6.1
46.0	5.7	5.0	5.9	5.2	6.4	5.2	6.7	5.6	7.0	5.6	7.6	5.6	8.2	5.6	
100 (11.2)	20.0	10.8	8.6	11.2	8.9	12.0	8.9	12.5	9.5	12.9	9.4	13.7	9.3	14.6	9.2
	22.5	10.6	8.5	11.0	8.8	11.8	8.8	12.2	9.4	12.6	9.4	13.5	9.3	14.4	9.1
	25.0	10.5	8.4	10.8	8.7	11.6	8.7	12.0	9.3	12.4	9.3	13.3	9.2	14.1	9.1
	27.5	10.3	8.3	10.6	8.6	11.4	8.6	11.8	9.2	12.2	9.2	13.0	9.1	13.8	9.0
	30.0	10.1	8.3	10.4	8.6	11.2	8.5	11.6	9.1	12.0	9.1	12.8	9.0	13.6	8.9
	32.5	9.9	8.2	10.2	8.5	11.0	8.4	11.4	9.0	11.8	9.0	12.5	8.9	13.3	8.8
	35.0	9.7	8.1	10.0	8.4	10.8	8.3	11.2	9.0	11.5	8.9	12.3	8.8	13.1	8.7
	37.5	9.5	8.0	9.8	8.3	10.6	8.3	10.9	8.9	11.3	8.8	12.1	8.7	12.8	8.6
	40.0	9.4	7.9	9.6	8.2	10.4	8.2	10.7	8.8	11.1	8.7	11.8	8.7	12.6	8.5
	43.0	9.2	7.8	9.4	8.1	10.1	8.1	10.5	8.7	10.8	8.6	11.5	8.6	12.3	8.4
46.0	7.0	6.9	7.3	7.2	8.0	7.2	8.3	7.8	8.7	7.8	9.4	7.8	10.2	7.8	
125 (14.0)	20.0	13.5	9.9	14.0	10.3	15.0	10.2	15.6	10.8	16.1	10.8	17.2	10.7	18.3	10.5
	22.5	13.3	9.8	13.8	10.1	14.8	10.1	15.3	10.7	15.8	10.7	16.9	10.6	17.9	10.4
	25.0	13.1	9.7	13.5	10.0	14.5	10.0	15.0	10.6	15.5	10.6	16.6	10.4	17.6	10.3
	27.5	12.8	9.6	13.3	9.9	14.3	9.9	14.8	10.5	15.3	10.4	16.3	10.3	17.3	10.2
	30.0	12.6	9.5	13.0	9.8	14.0	9.7	14.5	10.4	15.0	10.3	16.0	10.2	17.0	10.1
	32.5	12.4	9.4	12.8	9.7	13.7	9.6	14.2	10.2	14.7	10.2	15.7	10.1	16.7	10.0
	35.0	12.2	9.3	12.5	9.5	13.5	9.5	14.0	10.1	14.4	10.1	15.4	10.0	16.4	9.9
	37.5	11.9	9.1	12.3	9.4	13.2	9.4	13.7	10.0	14.1	10.0	15.1	9.9	16.0	9.7
	40.0	11.7	9.0	12.1	9.3	12.9	9.3	13.4	9.9	13.9	9.9	14.8	9.8	15.7	9.6
	43.0	11.4	8.9	11.8	9.2	12.6	9.1	13.1	9.7	13.5	9.7	14.4	9.6	15.4	9.5
46.0	8.8	7.7	9.1	8.0	10.0	8.0	10.4	8.7	10.9	8.7	11.8	8.6	12.7	8.6	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
140 (16.0)	20.0	15.5	11.4	16.0	11.7	17.2	11.7	17.8	12.4	18.4	12.3	19.6	12.2	20.9	12.1
	22.5	15.2	11.2	15.7	11.6	16.9	11.6	17.5	12.2	18.1	12.2	19.3	12.1	20.5	11.9
	25.0	14.9	11.1	15.5	11.4	16.6	11.4	17.2	12.1	17.8	12.1	18.9	11.9	20.1	11.8
	27.5	14.7	11.0	15.2	11.3	16.3	11.3	16.9	12.0	17.4	11.9	18.6	11.8	19.8	11.7
	30.0	14.4	10.8	14.9	11.2	16.0	11.1	16.6	11.8	17.1	11.8	18.3	11.7	19.4	11.5
	32.5	14.2	10.7	14.6	11.0	15.7	11.0	16.2	11.7	16.8	11.7	17.9	11.5	19.1	11.4
	35.0	13.9	10.6	14.3	10.9	15.4	10.9	16.0	11.6	16.5	11.5	17.6	11.4	18.7	11.3
	37.5	13.6	10.5	14.1	10.8	15.1	10.7	15.6	11.4	16.2	11.4	17.2	11.3	18.3	11.1
	40.0	13.4	10.3	13.8	10.6	14.8	10.6	15.3	11.3	15.8	11.3	16.9	11.2	18.0	11.0
	43.0	13.1	10.2	13.4	10.5	14.4	10.5	14.9	11.1	15.5	11.1	16.5	11.0	17.6	10.9
46.0	10.0	8.8	10.4	9.1	11.4	9.2	11.9	9.9	12.4	9.9	13.5	9.9	14.5	9.8	
200 (22.4)	20.0	21.6	16.3	22.4	16.8	24.1	16.7	24.9	17.8	25.7	17.7	27.5	17.5	29.2	17.3
	22.5	21.3	16.1	22.0	16.6	23.6	16.6	24.5	17.6	25.3	17.5	27.0	17.4	28.7	17.1
	25.0	20.9	15.9	21.6	16.4	23.2	16.4	24.0	17.4	24.9	17.3	26.5	17.2	28.2	16.9
	27.5	20.5	15.7	21.3	16.2	22.8	16.2	23.6	17.2	24.4	17.2	26.0	17.0	27.7	16.8
	30.0	20.2	15.5	20.9	16.1	22.4	16.0	23.2	17.0	24.0	17.0	25.6	16.8	27.2	16.6
	32.5	19.8	15.4	20.5	15.9	22.0	15.8	22.7	16.9	23.5	16.8	25.1	16.6	26.7	16.4
	35.0	19.5	15.2	20.1	15.7	21.5	15.6	22.4	16.7	23.1	16.6	24.6	16.4	26.2	16.2
	37.5	19.1	15.0	19.7	15.5	21.1	15.5	21.9	16.5	22.6	16.4	24.1	16.3	25.7	16.1
	40.0	18.7	14.9	19.3	15.3	20.7	15.3	21.4	16.3	22.2	16.2	23.7	16.1	25.2	15.9
	43.0	18.3	14.6	18.8	15.1	20.2	15.1	20.9	16.1	21.6	16.0	23.1	15.9	24.6	15.7
46.0	14.1	12.7	14.6	13.2	16.0	13.3	16.7	14.4	17.4	14.4	18.9	14.3	20.3	14.3	
250 (28.0)	20.0	27.0	20.2	28.0	20.9	30.1	20.8	31.1	22.1	32.2	22.0	34.3	21.8	36.5	21.5
	22.5	26.6	20.0	27.5	20.7	29.6	20.6	30.6	21.9	31.6	21.8	33.7	21.6	35.9	21.3
	25.0	26.1	19.8	27.1	20.4	29.0	20.4	30.0	21.6	31.1	21.5	33.1	21.3	35.2	21.1
	27.5	25.7	19.5	26.6	20.2	28.5	20.1	29.5	21.4	30.5	21.3	32.5	21.1	34.6	20.8
	30.0	25.2	19.3	26.1	19.9	28.0	19.9	29.0	21.2	29.9	21.1	31.9	20.9	34.0	20.6
	32.5	24.8	19.1	25.6	19.7	27.5	19.7	28.4	20.9	29.4	20.9	31.4	20.6	33.4	20.4
	35.0	24.3	18.9	25.1	19.5	26.9	19.4	28.0	20.7	28.8	20.6	30.8	20.4	32.7	20.2
	37.5	23.9	18.7	24.6	19.3	26.4	19.2	27.3	20.5	28.3	20.4	30.2	20.2	32.1	19.9
	40.0	23.4	18.5	24.1	19.0	25.9	19.0	26.8	20.2	27.7	20.2	29.6	20.0	31.5	19.7
	43.0	22.9	18.2	23.5	18.8	25.3	18.7	26.2	20.0	27.0	19.9	28.9	19.7	30.7	19.5
46.0	17.6	15.8	18.2	16.4	20.0	16.5	20.9	17.8	21.8	17.8	23.6	17.8	25.4	17.7	

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

CT

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMHS-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
200 (22.4)	20.0	21.6	17.5	22.4	18.2	24.1	18.1	24.9	19.3	25.7	19.3	27.5	19.1	29.2	18.8
	22.5	21.3	17.3	22.0	18.0	23.6	17.9	24.5	19.2	25.3	19.1	27.0	18.9	28.7	18.7
	25.0	20.9	17.2	21.6	17.8	23.2	17.7	24.0	19.0	24.9	18.9	26.5	18.7	28.2	18.5
	27.5	20.5	17.0	21.3	17.6	22.8	17.6	23.6	18.8	24.4	18.7	26.0	18.5	27.7	18.3
	30.0	20.2	16.8	20.9	17.5	22.4	17.4	23.2	18.6	24.0	18.6	25.6	18.4	27.2	18.1
	32.5	19.8	16.7	20.5	17.3	22.0	17.2	22.7	18.5	23.5	18.4	25.1	18.2	26.7	18.0
	35.0	19.5	16.5	20.1	17.1	21.5	17.0	22.4	18.3	23.1	18.2	24.6	18.0	26.2	17.8
	37.5	19.1	16.3	19.7	16.9	21.1	16.9	21.9	18.1	22.6	18.0	24.1	17.9	25.7	17.6
	40.0	18.7	16.2	19.3	16.8	20.7	16.7	21.4	17.9	22.2	17.9	23.7	17.7	25.2	17.5
	43.0	18.3	16.0	18.8	16.5	20.2	16.5	20.9	17.7	21.6	17.7	23.1	17.5	24.6	17.3
46.0	14.1	14.1	14.6	14.6	16.0	14.8	16.7	16.1	17.4	16.1	18.9	16.0	20.3	15.9	
250 (28.0)	20.0	27.0	21.4	28.0	22.2	30.1	22.1	31.1	23.5	32.2	23.5	34.3	23.2	36.5	22.9
	22.5	26.6	21.2	27.5	21.9	29.6	21.8	30.6	23.3	31.6	23.2	33.7	23.0	35.9	22.7
	25.0	26.1	21.0	27.1	21.7	29.0	21.6	30.0	23.1	31.1	23.0	33.1	22.8	35.2	22.5
	27.5	25.7	20.7	26.6	21.5	28.5	21.4	29.5	22.9	30.5	22.8	32.5	22.6	34.6	22.3
	30.0	25.2	20.5	26.1	21.3	28.0	21.2	29.0	22.7	29.9	22.6	31.9	22.3	34.0	22.1
	32.5	24.8	20.3	25.6	21.0	27.5	21.0	28.4	22.4	29.4	22.3	31.4	22.1	33.4	21.8
	35.0	24.3	20.1	25.1	20.8	26.9	20.7	28.0	22.3	28.8	22.1	30.8	21.9	32.7	21.6
	37.5	23.9	19.9	24.6	20.6	26.4	20.5	27.3	22.0	28.3	21.9	30.2	21.7	32.1	21.4
	40.0	23.4	19.7	24.1	20.4	25.9	20.3	26.8	21.8	27.7	21.7	29.6	21.5	31.5	21.2
	43.0	22.9	19.4	23.5	20.1	25.3	20.0	26.2	21.5	27.0	21.4	28.9	21.2	30.7	21.0
46.0	17.6	17.1	18.2	17.8	20.0	17.9	20.9	19.4	21.8	19.4	23.6	19.4	25.4	19.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMR-E-L/R

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.8	2.4	1.9	2.5	1.9	2.7	1.9	2.9	1.9
	22.5	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.9	2.5	1.9	2.6	1.9	2.8	1.8
	25.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.8	2.8	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.9	2.4	1.9	2.6	1.8	2.7	1.8
	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
	32.5	1.9	1.6	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	35.0	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
	37.5	1.9	1.6	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.7
	40.0	1.8	1.6	1.9	1.7	2.0	1.6	2.1	1.8	2.2	1.8	2.3	1.7	2.5	1.7
	43.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.8	2.1	1.7	2.3	1.7	2.4	1.7
46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.6	1.9	1.6	2.0	1.6	
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.7	2.1
	22.5	2.7	2.0	2.8	2.1	3.0	2.0	3.1	2.2	3.2	2.2	3.4	2.1	3.6	2.1
	25.0	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
	27.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	35.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.0	3.1	2.0	3.3	2.0
	37.5	2.4	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
	40.0	2.3	1.8	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.0
	43.0	2.3	1.8	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.9	2.0	3.1	1.9
46.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8	
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.7	4.1	2.7	4.4	2.6	4.7	2.6
	22.5	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.1	2.6	4.3	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.5	2.5
	27.5	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.6	3.9	2.6	4.2	2.5	4.5	2.5
	30.0	3.2	2.3	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.3	2.5
	35.0	3.1	2.3	3.2	2.4	3.5	2.3	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.4
	37.5	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.5	3.6	2.4	3.9	2.4	4.1	2.4
	40.0	3.0	2.2	3.1	2.3	3.3	2.3	3.4	2.4	3.6	2.4	3.8	2.4	4.0	2.4
	43.0	2.9	2.2	3.0	2.3	3.2	2.2	3.4	2.4	3.5	2.4	3.7	2.4	3.9	2.3
46.0	2.3	1.9	2.3	1.9	2.6	2.0	2.7	2.1	2.8	2.1	3.0	2.1	3.3	2.1	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMS1(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.7	2.0	1.6	2.1	1.6	2.2	1.6
	22.5	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
	25.0	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	35.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	37.5	1.4	1.4	1.5	1.5	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.4	1.4	1.5	1.4	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.5	1.6	1.5	1.8	1.5	1.9	1.5
46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.4	2.0	2.5	2.0	2.7	2.0	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.8	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	37.5	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.8
	40.0	1.8	1.7	1.9	1.7	2.0	1.7	2.1	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.8
46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.7	1.9	1.7	2.0	1.7	
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.7	2.3
	22.5	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.3	3.4	2.3	3.6	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.3	2.0	2.4	2.1	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	43.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.1	2.1
46.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.4	2.0	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.1	2.8	4.4	2.8	4.7	2.8
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.1	2.8	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.5	2.7
	30.0	3.2	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.7	4.3	2.6
	35.0	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.9	2.6	4.1	2.6
	40.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.6	4.0	2.6
	43.0	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
46.0	2.3	2.0	2.3	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.3	2.3	
40 (4.5)	20.0	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.5	5.2	3.5	5.5	3.4	5.9	3.4
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.1	3.4	5.4	3.4	5.8	3.3
	25.0	4.2	3.1	4.3	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	27.5	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.3	5.2	3.3	5.6	3.3
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.4	3.2
	35.0	3.9	3.0	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	37.5	3.8	2.9	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.2	5.2	3.1
	40.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	43.0	3.7	2.9	3.8	2.9	4.1	2.9	4.2	3.1	4.3	3.1	4.6	3.1	4.9	3.0
46.0	2.8	2.5	2.9	2.6	3.2	2.6	3.4	2.8	3.5	2.8	3.8	2.8	4.1	2.7	
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.0	4.0	6.2	4.2	6.4	4.2	6.9	4.2	7.3	4.1
	22.5	5.3	3.9	5.5	4.0	5.9	4.0	6.1	4.2	6.3	4.2	6.7	4.1	7.2	4.1
	25.0	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.1	7.0	4.0
	27.5	5.1	3.8	5.3	3.9	5.7	3.9	5.9	4.1	6.1	4.1	6.5	4.0	6.9	4.0
	30.0	5.0	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.8	3.9
	32.5	5.0	3.7	5.1	3.8	5.5	3.8	5.7	4.0	5.9	4.0	6.3	3.9	6.7	3.9
	35.0	4.9	3.6	5.0	3.7	5.4	3.7	5.6	4.0	5.8	3.9	6.2	3.9	6.5	3.8
	37.5	4.8	3.6	4.9	3.7	5.3	3.7	5.5	3.9	5.7	3.9	6.0	3.9	6.4	3.8
	40.0	4.7	3.5	4.8	3.6	5.2	3.6	5.4	3.9	5.5	3.8	5.9	3.8	6.3	3.8
	43.0	4.6	3.5	4.7	3.6	5.1	3.6	5.2	3.8	5.4	3.8	5.8	3.8	6.1	3.7
46.0	3.5	3.0	3.6	3.1	4.0	3.1	4.2	3.4	4.4	3.4	4.7	3.4	5.1	3.3	
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.6	5.1	7.9	5.4	8.2	5.3	8.7	5.3	9.3	5.2
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.8	5.3	8.0	5.3	8.6	5.2	9.1	5.2
	25.0	6.6	4.8	6.9	5.0	7.4	4.9	7.6	5.2	7.9	5.2	8.4	5.2	8.9	5.1
	27.5	6.5	4.8	6.7	4.9	7.2	4.9	7.5	5.2	7.7	5.2	8.3	5.1	8.8	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.3	4.6	6.5	4.8	7.0	4.8	7.2	5.0	7.5	5.0	7.9	5.0	8.5	4.9
	35.0	6.2	4.6	6.4	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.3	4.9
	37.5	6.1	4.5	6.2	4.7	6.7	4.6	6.9	4.9	7.2	4.9	7.6	4.9	8.1	4.8
	40.0	5.9	4.5	6.1	4.6	6.6	4.6	6.8	4.9	7.0	4.9	7.5	4.8	8.0	4.7
	43.0	5.8	4.4	6.0	4.5	6.4	4.5	6.6	4.8	6.9	4.8	7.3	4.7	7.8	4.7
46.0	4.5	3.8	4.6	3.9	5.1	3.9	5.3	4.2	5.5	4.2	6.0	4.2	6.4	4.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

## 1-5. Cooling capacity with PUHY-EP850-900YSKM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.5	5.0	3.5	5.3	3.5	5.7	3.4
	22.5	4.2	3.2	4.3	3.3	4.6	3.3	4.8	3.5	4.9	3.5	5.3	3.5	5.6	3.4
	25.0	4.2	3.2	4.3	3.3	4.6	3.3	4.7	3.5	4.9	3.5	5.2	3.4	5.6	3.4
	27.5	4.1	3.2	4.2	3.3	4.5	3.3	4.7	3.5	4.8	3.5	5.2	3.4	5.5	3.4
	30.0	4.1	3.2	4.2	3.2	4.5	3.2	4.6	3.4	4.8	3.4	5.1	3.4	5.5	3.4
	32.5	4.0	3.1	4.1	3.2	4.4	3.2	4.6	3.4	4.7	3.4	5.1	3.4	5.4	3.3
	35.0	4.0	3.1	4.1	3.2	4.4	3.2	4.5	3.4	4.7	3.4	5.0	3.4	5.4	3.3
	37.5	4.0	3.1	4.0	3.2	4.3	3.2	4.5	3.4	4.6	3.4	5.0	3.3	5.3	3.3
	40.0	3.9	3.1	4.0	3.1	4.3	3.1	4.4	3.4	4.6	3.3	4.9	3.3	5.3	3.3
	43.0	3.9	3.1	3.9	3.1	4.2	3.1	4.4	3.3	4.5	3.3	4.9	3.3	5.2	3.3
46.0	3.0	2.7	3.1	2.7	3.4	2.8	3.5	3.0	3.7	3.0	4.0	3.0	4.4	3.0	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	22.5	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.9	3.9
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.7	5.1	3.7	5.5	3.7	5.7	4.0	5.9	3.9	6.3	3.9	6.7	3.9
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.6	3.8
	40.0	4.9	3.6	4.9	3.6	5.3	3.6	5.5	3.9	5.7	3.9	6.1	3.8	6.5	3.8
	43.0	4.8	3.6	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.8
46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.4	4.6	3.4	5.0	3.4	5.4	3.4	
63 (7.1)	20.0	6.7	5.0	6.9	5.1	7.4	5.1	7.6	5.4	7.9	5.4	8.4	5.3	8.9	5.3
	22.5	6.6	5.0	6.8	5.1	7.3	5.1	7.6	5.4	7.8	5.4	8.3	5.3	8.8	5.2
	25.0	6.6	4.9	6.8	5.1	7.2	5.0	7.5	5.3	7.7	5.3	8.2	5.3	8.8	5.2
	27.5	6.5	4.9	6.7	5.0	7.2	5.0	7.4	5.3	7.6	5.3	8.2	5.2	8.7	5.2
	30.0	6.4	4.9	6.6	5.0	7.1	5.0	7.3	5.3	7.6	5.3	8.1	5.2	8.6	5.1
	32.5	6.4	4.8	6.5	4.9	7.0	4.9	7.2	5.2	7.5	5.2	8.0	5.2	8.5	5.1
	35.0	6.3	4.8	6.4	4.9	6.9	4.9	7.1	5.2	7.4	5.2	7.9	5.1	8.5	5.1
	37.5	6.2	4.8	6.3	4.9	6.8	4.9	7.1	5.2	7.3	5.2	7.8	5.1	8.4	5.1
	40.0	6.2	4.7	6.3	4.8	6.7	4.8	7.0	5.1	7.2	5.1	7.8	5.1	8.3	5.0
	43.0	6.1	4.7	6.2	4.8	6.7	4.8	6.9	5.1	7.1	5.1	7.7	5.0	8.2	5.0
46.0	4.7	4.1	4.8	4.2	5.3	4.2	5.6	4.5	5.8	4.5	6.3	4.6	6.9	4.5	
71 (8.0)	20.0	7.6	5.6	7.8	5.7	8.3	5.7	8.6	6.0	8.9	6.0	9.4	5.9	10.0	5.9
	22.5	7.5	5.5	7.7	5.7	8.2	5.7	8.5	6.0	8.8	6.0	9.4	5.9	10.0	5.8
	25.0	7.4	5.5	7.6	5.6	8.1	5.6	8.4	6.0	8.7	5.9	9.3	5.9	9.9	5.8
	27.5	7.3	5.5	7.5	5.6	8.1	5.6	8.3	5.9	8.6	5.9	9.2	5.8	9.8	5.8
	30.0	7.3	5.4	7.4	5.6	8.0	5.5	8.2	5.9	8.5	5.9	9.1	5.8	9.7	5.7
	32.5	7.2	5.4	7.3	5.5	7.9	5.5	8.2	5.8	8.4	5.8	9.0	5.8	9.6	5.7
	35.0	7.1	5.4	7.2	5.5	7.8	5.5	8.0	5.8	8.3	5.8	8.9	5.7	9.5	5.7
	37.5	7.0	5.3	7.2	5.4	7.7	5.4	8.0	5.8	8.3	5.7	8.8	5.7	9.4	5.6
	40.0	7.0	5.3	7.1	5.4	7.6	5.4	7.9	5.7	8.2	5.7	8.7	5.7	9.4	5.6
	43.0	6.9	5.2	7.0	5.3	7.5	5.3	7.8	5.7	8.1	5.7	8.6	5.6	9.2	5.6
46.0	5.4	4.5	5.4	4.6	6.0	4.7	6.3	5.1	6.5	5.1	7.1	5.1	7.7	5.1	
80 (9.0)	20.0	8.5	6.3	8.8	6.5	9.4	6.5	9.7	6.8	10.0	6.8	10.6	6.7	11.3	6.6
	22.5	8.4	6.3	8.7	6.4	9.3	6.4	9.6	6.8	9.9	6.8	10.5	6.7	11.2	6.6
	25.0	8.3	6.2	8.6	6.4	9.2	6.4	9.5	6.8	9.8	6.7	10.4	6.7	11.1	6.6
	27.5	8.3	6.2	8.5	6.3	9.1	6.3	9.4	6.7	9.7	6.7	10.3	6.6	11.0	6.5
	30.0	8.2	6.1	8.4	6.3	9.0	6.3	9.3	6.7	9.6	6.6	10.2	6.6	10.9	6.5
	32.5	8.1	6.1	8.3	6.2	8.9	6.2	9.2	6.6	9.5	6.6	10.1	6.5	10.8	6.5
	35.0	8.0	6.1	8.1	6.2	8.8	6.2	9.0	6.5	9.4	6.6	10.0	6.5	10.7	6.4
	37.5	7.9	6.0	8.0	6.1	8.7	6.1	9.0	6.5	9.3	6.5	9.9	6.5	10.6	6.4
	40.0	7.8	6.0	7.9	6.1	8.6	6.1	8.9	6.5	9.2	6.5	9.8	6.4	10.5	6.4
	43.0	7.7	5.9	7.8	6.0	8.4	6.0	8.7	6.4	9.1	6.4	9.7	6.4	10.4	6.3
46.0	6.0	5.1	6.1	5.3	6.7	5.3	7.0	5.7	7.4	5.7	8.0	5.7	8.7	5.7	
100 (11.2)	20.0	10.6	8.5	10.9	8.8	11.7	8.7	12.0	9.3	12.4	9.3	13.2	9.2	14.1	9.0
	22.5	10.5	8.4	10.8	8.7	11.5	8.7	11.9	9.3	12.3	9.2	13.1	9.1	13.9	9.0
	25.0	10.4	8.4	10.6	8.7	11.4	8.6	11.8	9.2	12.2	9.2	13.0	9.1	13.8	9.0
	27.5	10.3	8.3	10.5	8.6	11.3	8.6	11.7	9.2	12.1	9.1	12.9	9.0	13.7	8.9
	30.0	10.2	8.3	10.4	8.5	11.2	8.5	11.5	9.1	11.9	9.1	12.7	9.0	13.6	8.9
	32.5	10.1	8.2	10.3	8.5	11.0	8.5	11.4	9.0	11.8	9.0	12.6	8.9	13.5	8.8
	35.0	9.9	8.2	10.1	8.4	10.9	8.4	11.2	9.0	11.7	9.0	12.5	8.9	13.3	8.8
	37.5	9.8	8.1	10.0	8.4	10.8	8.3	11.2	8.9	11.6	8.9	12.4	8.8	13.2	8.8
	40.0	9.7	8.1	9.9	8.3	10.6	8.3	11.0	8.9	11.4	8.9	12.2	8.8	13.1	8.7
	43.0	9.6	8.0	9.7	8.2	10.5	8.2	10.9	8.8	11.3	8.8	12.1	8.7	12.9	8.7
46.0	7.5	7.1	7.6	7.3	8.4	7.4	8.8	8.0	9.2	8.0	10.0	8.0	10.8	8.0	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

PEFY-P-VMH-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
125 (14.0)	20.0	13.2	9.8	13.6	10.1	14.6	10.0	15.1	10.6	15.5	10.6	16.5	10.4	17.6	10.3
	22.5	13.1	9.7	13.5	10.0	14.4	9.9	14.9	10.5	15.4	10.5	16.4	10.4	17.4	10.2
	25.0	13.0	9.7	13.3	9.9	14.3	9.9	14.7	10.5	15.2	10.4	16.2	10.3	17.3	10.2
	27.5	12.8	9.6	13.2	9.8	14.1	9.8	14.6	10.4	15.1	10.4	16.1	10.3	17.1	10.1
	30.0	12.7	9.5	13.0	9.8	13.9	9.7	14.4	10.3	14.9	10.3	15.9	10.2	17.0	10.1
	32.5	12.6	9.5	12.8	9.7	13.8	9.7	14.3	10.3	14.8	10.2	15.8	10.1	16.8	10.0
	35.0	12.4	9.4	12.7	9.6	13.6	9.6	14.0	10.1	14.6	10.2	15.6	10.1	16.7	10.0
	37.5	12.3	9.3	12.5	9.5	13.5	9.5	14.0	10.1	14.4	10.1	15.5	10.0	16.5	9.9
	40.0	12.2	9.3	12.4	9.5	13.3	9.4	13.8	10.1	14.3	10.0	15.3	10.0	16.4	9.9
	43.0	12.0	9.2	12.2	9.4	13.1	9.4	13.6	10.0	14.1	9.9	15.1	9.9	16.2	9.8
46.0	9.4	7.9	9.5	8.2	10.5	8.2	11.0	8.9	11.5	8.9	12.5	8.9	13.5	8.9	
140 (16.0)	20.0	15.1	11.2	15.6	11.5	16.7	11.4	17.2	12.1	17.8	12.1	18.9	11.9	20.1	11.8
	22.5	15.0	11.1	15.4	11.4	16.5	11.4	17.0	12.0	17.6	12.0	18.7	11.9	19.9	11.7
	25.0	14.8	11.0	15.2	11.3	16.3	11.3	16.8	12.0	17.4	11.9	18.5	11.8	19.7	11.6
	27.5	14.7	11.0	15.0	11.2	16.1	11.2	16.7	11.9	17.2	11.8	18.4	11.7	19.6	11.6
	30.0	14.5	10.9	14.9	11.2	15.9	11.1	16.5	11.8	17.0	11.8	18.2	11.7	19.4	11.5
	32.5	14.4	10.8	14.7	11.1	15.8	11.0	16.3	11.7	16.9	11.7	18.0	11.6	19.2	11.5
	35.0	14.2	10.7	14.5	11.0	15.6	11.0	16.0	11.6	16.7	11.6	17.8	11.5	19.1	11.4
	37.5	14.1	10.7	14.3	10.9	15.4	10.9	15.9	11.6	16.5	11.5	17.7	11.4	18.9	11.3
	40.0	13.9	10.6	14.1	10.8	15.2	10.8	15.8	11.5	16.3	11.5	17.5	11.4	18.7	11.3
	43.0	13.7	10.5	13.9	10.7	15.0	10.7	15.6	11.4	16.1	11.4	17.3	11.3	18.5	11.2
46.0	10.7	9.1	10.9	9.3	12.0	9.4	12.5	10.2	13.1	10.2	14.3	10.2	15.5	10.1	
200 (22.4)	20.0	21.2	16.0	21.8	16.5	23.3	16.4	24.1	17.4	24.9	17.3	26.5	17.1	28.1	16.9
	22.5	21.0	15.9	21.6	16.4	23.1	16.3	23.8	17.3	24.6	17.2	26.2	17.1	27.9	16.8
	25.0	20.7	15.8	21.3	16.3	22.8	16.2	23.6	17.2	24.4	17.1	26.0	17.0	27.6	16.7
	27.5	20.5	15.7	21.0	16.1	22.6	16.1	23.3	17.1	24.1	17.0	25.7	16.9	27.4	16.7
	30.0	20.3	15.6	20.8	16.0	22.3	16.0	23.1	17.0	23.9	16.9	25.5	16.8	27.2	16.6
	32.5	20.1	15.5	20.5	15.9	22.1	15.9	22.8	16.9	23.6	16.8	25.2	16.7	26.9	16.5
	35.0	19.9	15.4	20.3	15.8	21.8	15.7	22.4	16.7	23.4	16.7	25.0	16.6	26.7	16.4
	37.5	19.7	15.3	20.0	15.7	21.5	15.6	22.3	16.7	23.1	16.6	24.7	16.5	26.4	16.3
	40.0	19.5	15.2	19.8	15.5	21.3	15.5	22.1	16.6	22.8	16.5	24.5	16.4	26.2	16.2
	43.0	19.2	15.1	19.5	15.4	21.0	15.4	21.8	16.4	22.6	16.4	24.2	16.3	25.9	16.1
46.0	15.0	13.1	15.2	13.5	16.8	13.6	17.5	14.7	18.3	14.7	20.0	14.7	21.7	14.7	
250 (28.0)	20.0	26.5	19.9	27.3	20.5	29.2	20.4	30.1	21.7	31.1	21.6	33.1	21.3	35.2	21.0
	22.5	26.2	19.8	26.9	20.4	28.8	20.3	29.8	21.5	30.8	21.4	32.8	21.2	34.9	20.9
	25.0	25.9	19.7	26.6	20.2	28.5	20.1	29.5	21.4	30.5	21.3	32.4	21.1	34.6	20.8
	27.5	25.7	19.5	26.3	20.1	28.2	20.0	29.2	21.2	30.1	21.2	32.1	21.0	34.3	20.7
	30.0	25.4	19.4	26.0	19.9	27.9	19.8	28.9	21.1	29.8	21.0	31.8	20.8	33.9	20.6
	32.5	25.1	19.3	25.7	19.8	27.6	19.7	28.5	21.0	29.5	20.9	31.5	20.7	33.6	20.5
	35.0	24.9	19.2	25.4	19.6	27.2	19.6	28.0	20.7	29.2	20.8	31.2	20.6	33.3	20.4
	37.5	24.6	19.0	25.0	19.5	26.9	19.4	27.9	20.7	28.9	20.6	30.9	20.5	33.0	20.3
	40.0	24.3	18.9	24.7	19.3	26.6	19.3	27.6	20.6	28.6	20.5	30.6	20.4	32.7	20.2
	43.0	24.0	18.7	24.3	19.1	26.2	19.1	27.2	20.4	28.2	20.4	30.2	20.2	32.4	20.0
46.0	18.7	16.3	19.0	16.8	20.9	16.9	21.9	18.3	22.9	18.3	24.9	18.3	27.1	18.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMHS-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
200 (22.4)	20.0	21.2	17.3	21.8	17.9	23.3	17.8	24.1	19.0	24.9	18.9	26.5	18.7	28.1	18.5
	22.5	21.0	17.2	21.6	17.8	23.1	17.7	23.8	18.9	24.6	18.8	26.2	18.6	27.9	18.4
	25.0	20.7	17.1	21.3	17.6	22.8	17.6	23.6	18.8	24.4	18.7	26.0	18.5	27.6	18.3
	27.5	20.5	17.0	21.0	17.5	22.6	17.5	23.3	18.7	24.1	18.6	25.7	18.4	27.4	18.2
	30.0	20.3	16.9	20.8	17.4	22.3	17.3	23.1	18.6	23.9	18.5	25.5	18.3	27.2	18.1
	32.5	20.1	16.8	20.5	17.3	22.1	17.2	22.8	18.5	23.6	18.4	25.2	18.3	26.9	18.1
	35.0	19.9	16.7	20.3	17.2	21.8	17.1	22.4	18.3	23.4	18.3	25.0	18.2	26.7	18.0
	37.5	19.7	16.6	20.0	17.1	21.5	17.0	22.3	18.3	23.1	18.2	24.7	18.1	26.4	17.9
	40.0	19.5	16.5	19.8	17.0	21.3	16.9	22.1	18.2	22.8	18.1	24.5	18.0	26.2	17.8
	43.0	19.2	16.4	19.5	16.8	21.0	16.8	21.8	18.1	22.6	18.0	24.2	17.9	25.9	17.7
46.0	15.0	14.5	15.2	15.0	16.8	15.1	17.5	16.4	18.3	16.4	20.0	16.4	21.7	16.3	
250 (28.0)	20.0	26.5	21.1	27.3	21.8	29.2	21.7	30.1	23.1	31.1	23.0	33.1	22.8	35.2	22.5
	22.5	26.2	21.0	26.9	21.6	28.8	21.5	29.8	23.0	30.8	22.9	32.8	22.6	34.9	22.4
	25.0	25.9	20.9	26.6	21.5	28.5	21.4	29.5	22.9	30.5	22.8	32.4	22.5	34.6	22.3
	27.5	25.7	20.7	26.3	21.4	28.2	21.3	29.2	22.7	30.1	22.6	32.1	22.4	34.3	22.1
	30.0	25.4	20.6	26.0	21.2	27.9	21.1	28.9	22.6	29.8	22.5	31.8	22.3	33.9	22.0
	32.5	25.1	20.5	25.7	21.1	27.6	21.0	28.5	22.5	29.5	22.4	31.5	22.2	33.6	21.9
	35.0	24.9	20.4	25.4	20.9	27.2	20.9	28.0	22.3	29.2	22.3	31.2	22.1	33.3	21.8
	37.5	24.6	20.2	25.0	20.8	26.9	20.7	27.9	22.2	28.9	22.1	30.9	22.0	33.0	21.7
	40.0	24.3	20.1	24.7	20.6	26.6	20.6	27.6	22.1	28.6	22.0	30.6	21.9	32.7	21.6
	43.0	24.0	20.0	24.3	20.5	26.2	20.4	27.2	21.9	28.2	21.9	30.2	21.7	32.4	21.5
46.0	18.7	17.6	19.0	18.2	20.9	18.3	21.9	19.8	22.9	19.9	24.9	19.8	27.1	19.8	

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



# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMR-E-L/R

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.1	1.8	2.3	1.8	2.4	1.9	2.4	1.9	2.6	1.8	2.8	1.8
	22.5	2.1	1.7	2.1	1.8	2.3	1.7	2.3	1.9	2.4	1.9	2.6	1.8	2.7	1.8
	25.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.9	2.4	1.8	2.5	1.8	2.7	1.8
	27.5	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.7	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.7	1.8
	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
	35.0	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
	37.5	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
	40.0	1.9	1.6	1.9	1.7	2.1	1.7	2.2	1.8	2.2	1.8	2.4	1.8	2.6	1.8
	43.0	1.9	1.6	1.9	1.7	2.1	1.7	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8
46.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	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
	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
	25.0	2.6	2.0	2.7	2.0	2.9	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.5	2.1
	27.5	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.0	3.1	2.0	3.3	2.0
	40.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	43.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.2	2.0
46.0	1.9	1.6	1.9	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.7	1.8	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.5	2.5
	22.5	3.4	2.4	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.6	4.5	2.5
	25.0	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.6	3.9	2.6	4.2	2.5	4.4	2.5
	27.5	3.3	2.4	3.4	2.4	3.6	2.4	3.8	2.6	3.9	2.5	4.1	2.5	4.4	2.5
	30.0	3.3	2.4	3.3	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.3	2.5
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.5	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.3	3.5	2.3	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.5	3.7	2.5	3.9	2.4	4.2	2.4
	43.0	3.1	2.3	3.1	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.2	2.4
46.0	2.4	1.9	2.4	2.0	2.7	2.0	2.8	2.2	2.9	2.2	3.2	2.2	3.5	2.2	

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

# 1. Cooling [Ceiling concealed (Silent/Slim/High static pressure type)]

EP-YKM

CT

PEFY-P-VMS1(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	35.0	1.5	1.4	1.5	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	43.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	2.0	1.5
46.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.6	1.4
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	2.0	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.1	1.8	2.3	1.8	2.3	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.7	1.9
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.7	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.8
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.2
	27.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	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	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
46.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.6
	37.5	3.2	2.5	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.3	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.3	5.2	3.3	5.6	3.3
	27.5	4.1	3.1	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.3	5.0	3.2	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.2
	40.0	3.9	3.0	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.9	3.2	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.1	7.0	4.0
	22.5	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.1	7.0	4.0
	25.0	5.2	3.8	5.3	3.9	5.7	3.9	5.9	4.1	6.1	4.1	6.5	4.0	6.9	4.0
	27.5	5.1	3.8	5.3	3.9	5.6	3.8	5.8	4.1	6.0	4.0	6.4	4.0	6.9	4.0
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.8	3.9
	32.5	5.0	3.7	5.1	3.8	5.5	3.8	5.7	4.0	5.9	4.0	6.3	4.0	6.7	3.9
	35.0	5.0	3.7	5.1	3.8	5.4	3.8	5.6	4.0	5.8	4.0	6.2	3.9	6.7	3.9
	37.5	4.9	3.7	5.0	3.7	5.4	3.7	5.6	4.0	5.8	3.9	6.2	3.9	6.6	3.9
	40.0	4.9	3.6	4.9	3.7	5.3	3.7	5.5	3.9	5.7	3.9	6.1	3.9	6.5	3.8
	43.0	4.8	3.6	4.9	3.7	5.2	3.7	5.4	3.9	5.6	3.9	6.0	3.9	6.5	3.8
46.0	3.7	3.1	3.8	3.2	4.2	3.2	4.4	3.4	4.6	3.5	5.0	3.5	5.4	3.4	
63 (7.1)	20.0	6.7	4.9	6.9	5.0	7.4	5.0	7.6	5.2	7.9	5.2	8.4	5.2	8.9	5.1
	22.5	6.6	4.8	6.8	4.9	7.3	4.9	7.6	5.2	7.8	5.2	8.3	5.1	8.8	5.1
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.8	6.7	4.9	7.2	4.8	7.4	5.1	7.6	5.1	8.2	5.1	8.7	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.7	6.4	4.7	6.9	4.7	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.9
	37.5	6.2	4.6	6.3	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	5.0	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.1	4.9	7.7	4.9	8.2	4.8
46.0	4.7	3.9	4.8	4.0	5.3	4.0	5.6	4.3	5.8	4.4	6.3	4.4	6.9	4.3	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

### 2-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.0	2.6	2.0	2.8	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.0	2.6	2.0	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.7	2.0
	27.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	32.5	2.0	1.8	2.1	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	1.9	2.5	1.9
	37.5	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	40.0	1.9	1.8	2.0	1.8	2.1	1.8	2.1	2.0	2.2	1.9	2.3	1.9	2.4	1.9
25 (2.8)	20.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	22.5	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	25.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	27.5	2.7	2.1	2.7	2.2	2.9	2.1	3.0	2.3	3.0	2.2	3.2	2.2	3.4	2.2
	30.0	2.6	2.1	2.7	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.3	2.2
	32.5	2.6	2.0	2.6	2.1	2.8	2.1	2.9	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	35.0	2.5	2.0	2.6	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.1	3.2	2.1
	37.5	2.5	2.0	2.5	2.1	2.7	2.0	2.8	2.2	2.8	2.2	3.0	2.1	3.1	2.1
	40.0	2.4	2.0	2.5	2.0	2.6	2.0	2.7	2.2	2.8	2.1	2.9	2.1	3.1	2.1
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.6	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.6	2.7
	25.0	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.6	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.6	3.7	2.6	3.9	2.6	4.1	2.5
	37.5	3.2	2.4	3.3	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.5	4.0	2.5
	40.0	3.1	2.4	3.2	2.5	3.4	2.4	3.5	2.6	3.6	2.6	3.7	2.5	3.9	2.5
40 (4.5)	20.0	4.3	3.4	4.4	3.6	4.7	3.5	4.9	3.8	5.0	3.7	5.3	3.7	5.7	3.7
	22.5	4.3	3.4	4.4	3.6	4.7	3.5	4.9	3.8	5.0	3.7	5.3	3.7	5.7	3.7
	25.0	4.3	3.4	4.4	3.6	4.7	3.5	4.9	3.8	5.0	3.7	5.3	3.7	5.6	3.6
	27.5	4.3	3.4	4.4	3.5	4.6	3.5	4.8	3.7	4.9	3.7	5.2	3.6	5.5	3.6
	30.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.8	3.7	5.1	3.6	5.4	3.5
	32.5	4.1	3.3	4.2	3.5	4.5	3.4	4.6	3.6	4.7	3.6	5.0	3.6	5.3	3.5
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.6	4.6	3.6	4.9	3.5	5.2	3.5
	37.5	4.0	3.3	4.1	3.4	4.3	3.3	4.4	3.6	4.5	3.5	4.8	3.5	5.0	3.4
	40.0	3.9	3.2	4.0	3.4	4.2	3.3	4.3	3.5	4.4	3.5	4.7	3.4	4.9	3.4
50 (5.6)	20.0	5.3	4.2	5.5	4.4	5.9	4.3	6.1	4.6	6.2	4.6	6.6	4.5	7.1	4.5
	22.5	5.3	4.2	5.5	4.4	5.9	4.3	6.1	4.6	6.2	4.6	6.6	4.5	7.1	4.5
	25.0	5.3	4.2	5.5	4.4	5.9	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	27.5	5.3	4.2	5.5	4.3	5.8	4.3	5.9	4.6	6.1	4.5	6.4	4.5	6.8	4.4
	30.0	5.2	4.2	5.4	4.3	5.7	4.3	5.8	4.5	6.0	4.5	6.3	4.4	6.7	4.4
	32.5	5.1	4.1	5.3	4.3	5.6	4.2	5.7	4.5	5.9	4.4	6.2	4.4	6.6	4.3
	35.0	5.0	4.1	5.2	4.2	5.5	4.2	5.6	4.4	5.8	4.4	6.1	4.3	6.4	4.3
	37.5	4.9	4.0	5.1	4.2	5.4	4.1	5.5	4.4	5.6	4.4	5.9	4.3	6.3	4.2
	40.0	4.8	4.0	5.0	4.1	5.3	4.1	5.4	4.3	5.5	4.3	5.8	4.2	6.1	4.2
63 (7.1)	20.0	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	7.9	5.7	8.4	5.6	9.0	5.5
	22.5	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	7.9	5.7	8.4	5.6	9.0	5.5
	25.0	6.7	5.2	7.0	5.4	7.5	5.4	7.7	5.7	7.9	5.6	8.3	5.6	8.8	5.5
	27.5	6.7	5.2	6.9	5.4	7.3	5.3	7.5	5.6	7.7	5.6	8.1	5.5	8.7	5.4
	30.0	6.6	5.2	6.8	5.3	7.2	5.3	7.4	5.6	7.6	5.5	8.0	5.4	8.5	5.4
	32.5	6.5	5.1	6.7	5.3	7.1	5.2	7.2	5.5	7.4	5.5	7.8	5.4	8.3	5.3
	35.0	6.4	5.0	6.5	5.2	6.9	5.1	7.1	5.5	7.3	5.4	7.7	5.3	8.1	5.2
	37.5	6.2	5.0	6.4	5.1	6.8	5.1	7.0	5.4	7.2	5.4	7.5	5.3	8.0	5.2
	40.0	6.1	4.9	6.3	5.1	6.7	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.8	5.1
71 (8.0)	20.0	7.6	5.7	7.9	5.9	8.4	5.8	8.7	6.2	8.9	6.1	9.5	6.1	10.1	6.0
	22.5	7.6	5.7	7.9	5.9	8.4	5.8	8.7	6.2	8.9	6.1	9.5	6.1	10.1	6.0
	25.0	7.6	5.7	7.9	5.9	8.4	5.8	8.6	6.2	8.9	6.1	9.4	6.0	10.0	5.9
	27.5	7.6	5.7	7.8	5.8	8.3	5.8	8.5	6.1	8.7	6.0	9.2	6.0	9.8	5.9
	30.0	7.4	5.6	7.7	5.8	8.1	5.7	8.3	6.0	8.5	6.0	9.0	5.9	9.6	5.8
	32.5	7.3	5.5	7.5	5.7	8.0	5.6	8.2	6.0	8.4	5.9	8.8	5.8	9.4	5.7
	35.0	7.2	5.5	7.4	5.6	7.8	5.6	8.0	5.9	8.2	5.9	8.6	5.7	9.2	5.7
	37.5	7.0	5.4	7.2	5.6	7.7	5.5	7.9	5.8	8.1	5.8	8.5	5.7	9.0	5.6
	40.0	6.9	5.3	7.1	5.5	7.5	5.4	7.7	5.8	7.9	5.7	8.3	5.6	8.8	5.5

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	22.5	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	25.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.5	10.5	6.4	11.2	6.4
	27.5	8.5	6.1	8.8	6.3	9.3	6.2	9.5	6.5	9.8	6.5	10.3	6.4	11.0	6.3
	30.0	8.4	6.0	8.6	6.2	9.1	6.1	9.4	6.4	9.6	6.4	10.1	6.3	10.8	6.2
	32.5	8.2	6.0	8.5	6.1	8.9	6.0	9.2	6.4	9.4	6.3	9.9	6.2	10.5	6.1
	35.0	8.1	5.9	8.3	6.0	8.8	6.0	9.0	6.3	9.2	6.2	9.7	6.1	10.3	6.0
	37.5	7.9	5.8	8.1	6.0	8.6	5.9	8.8	6.2	9.1	6.2	9.5	6.0	10.1	5.9
	40.0	7.7	5.7	8.0	5.9	8.4	5.8	8.7	6.1	8.9	6.1	9.3	6.0	9.9	5.9
	43.0	7.6	5.6	7.8	5.8	8.2	5.7	8.5	6.0	8.7	6.0	9.1	5.9	9.6	5.8
46.0	5.9	4.8	6.1	5.0	6.5	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.9	5.2	
100 (11.2)	20.0	10.6	8.4	11.0	8.7	11.8	8.6	12.1	9.2	12.5	9.1	13.2	9.0	14.2	8.9
	22.5	10.6	8.4	11.0	8.7	11.8	8.6	12.1	9.2	12.5	9.1	13.2	9.0	14.2	8.9
	25.0	10.6	8.4	11.0	8.7	11.8	8.6	12.1	9.2	12.4	9.1	13.1	9.0	13.9	8.9
	27.5	10.6	8.4	10.9	8.6	11.6	8.6	11.9	9.1	12.2	9.0	12.9	8.9	13.7	8.8
	30.0	10.4	8.3	10.7	8.6	11.3	8.5	11.6	9.0	12.0	8.9	12.6	8.8	13.4	8.7
	32.5	10.2	8.2	10.5	8.5	11.1	8.4	11.4	8.9	11.7	8.8	12.4	8.7	13.1	8.6
	35.0	10.0	8.1	10.3	8.4	10.9	8.3	11.2	8.8	11.5	8.8	12.1	8.6	12.8	8.5
	37.5	9.8	8.0	10.1	8.3	10.7	8.2	11.0	8.7	11.3	8.7	11.9	8.5	12.6	8.4
	40.0	9.6	7.9	9.9	8.2	10.5	8.1	10.8	8.6	11.1	8.6	11.6	8.4	12.3	8.3
	43.0	9.4	7.8	9.7	8.1	10.2	8.0	10.5	8.5	10.8	8.5	11.3	8.3	12.0	8.2
46.0	7.3	6.9	7.6	7.2	8.1	7.1	8.4	7.7	8.7	7.7	9.2	7.6	9.8	7.5	
125 (14.0)	20.0	13.3	10.2	13.8	10.6	14.7	10.5	15.2	11.2	15.6	11.1	16.6	11.0	17.7	10.8
	22.5	13.3	10.2	13.8	10.6	14.7	10.5	15.2	11.2	15.6	11.1	16.6	11.0	17.7	10.8
	25.0	13.3	10.2	13.8	10.6	14.7	10.5	15.1	11.1	15.5	11.0	16.4	10.9	17.4	10.7
	27.5	13.3	10.2	13.6	10.5	14.4	10.4	14.8	11.0	15.2	10.9	16.1	10.8	17.1	10.6
	30.0	13.0	10.1	13.4	10.4	14.2	10.3	14.6	10.9	14.9	10.8	15.8	10.6	16.7	10.5
	32.5	12.8	10.0	13.2	10.3	13.9	10.2	14.3	10.8	14.7	10.7	15.4	10.5	16.4	10.4
	35.0	12.5	9.9	12.9	10.2	13.7	10.1	14.0	10.7	14.4	10.6	15.1	10.4	16.0	10.3
	37.5	12.3	9.8	12.7	10.1	13.4	9.9	13.8	10.6	14.1	10.5	14.8	10.3	15.7	10.1
	40.0	12.1	9.6	12.4	9.9	13.1	9.8	13.5	10.5	13.8	10.4	14.5	10.2	15.4	10.0
	43.0	11.8	9.5	12.1	9.8	12.8	9.7	13.2	10.3	13.5	10.3	14.1	10.0	15.0	9.9
46.0	9.1	8.3	9.5	8.6	10.2	8.6	10.5	9.3	10.9	9.2	11.5	9.1	12.3	9.0	
140 (16.0)	20.0	15.2	11.6	15.8	12.0	16.8	11.9	17.3	12.6	17.8	12.5	18.9	12.4	20.2	12.2
	22.5	15.2	11.6	15.8	12.0	16.8	11.9	17.3	12.6	17.8	12.5	18.9	12.4	20.2	12.2
	25.0	15.2	11.6	15.8	12.0	16.8	11.9	17.3	12.6	17.7	12.5	18.7	12.3	19.9	12.1
	27.5	15.2	11.5	15.6	11.9	16.5	11.7	16.9	12.4	17.4	12.3	18.4	12.1	19.5	12.0
	30.0	14.9	11.4	15.3	11.8	16.2	11.6	16.6	12.3	17.1	12.2	18.0	12.0	19.1	11.8
	32.5	14.6	11.3	15.0	11.6	15.9	11.5	16.3	12.2	16.8	12.1	17.6	11.9	18.7	11.7
	35.0	14.3	11.1	14.8	11.5	15.6	11.4	16.0	12.0	16.4	12.0	17.3	11.7	18.3	11.6
	37.5	14.1	11.0	14.5	11.4	15.3	11.2	15.7	11.9	16.1	11.8	16.9	11.6	17.9	11.4
	40.0	13.8	10.9	14.2	11.2	15.0	11.1	15.4	11.8	15.8	11.7	16.6	11.5	17.6	11.3
	43.0	13.4	10.7	13.8	11.1	14.6	10.9	15.0	11.6	15.4	11.6	16.1	11.3	17.1	11.1
46.0	10.4	9.3	10.8	9.7	11.6	9.7	12.0	10.4	12.4	10.4	13.1	10.2	14.1	10.1	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

### 2-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	2.0	2.4	1.9	2.5	2.1	2.5	2.1	2.7	2.1	2.9	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.8	2.0
	27.5	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	2.0
	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
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.5	1.9
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	40.0	1.9	1.8	1.9	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.9
	43.0	1.9	1.7	1.9	1.8	2.0	1.8	2.0	1.9	2.1	1.9	2.2	1.9	2.4	1.9
46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.7	
25 (2.8)	20.0	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
	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	2.2
	25.0	2.7	2.1	2.7	2.2	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	27.5	2.6	2.1	2.7	2.1	2.9	2.1	3.0	2.3	3.1	2.3	3.2	2.2	3.4	2.2
	30.0	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	32.5	2.5	2.0	2.6	2.1	2.8	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	35.0	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.2	3.2	2.1
	37.5	2.5	2.0	2.5	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.1	3.2	2.1
	40.0	2.4	2.0	2.4	2.0	2.6	2.0	2.7	2.1	2.8	2.1	2.9	2.1	3.1	2.1
	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
46.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.2	2.8	4.4	2.8	4.7	2.7
	22.5	3.5	2.6	3.6	2.7	3.8	2.6	4.0	2.8	4.1	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	32.5	3.3	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.6	4.0	2.6	4.2	2.6
	35.0	3.2	2.4	3.3	2.5	3.5	2.5	3.6	2.6	3.7	2.6	3.9	2.6	4.2	2.5
	37.5	3.2	2.4	3.2	2.5	3.4	2.4	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.5
	40.0	3.1	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.6	3.8	2.5	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.7	2.5	3.9	2.4
46.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.2	3.0	2.2	3.2	2.2	
40 (4.5)	20.0	4.4	3.5	4.5	3.6	4.9	3.6	5.0	3.8	5.2	3.8	5.5	3.8	5.8	3.7
	22.5	4.4	3.5	4.5	3.6	4.8	3.6	4.9	3.8	5.1	3.8	5.4	3.7	5.7	3.7
	25.0	4.3	3.4	4.4	3.5	4.7	3.5	4.9	3.8	5.0	3.7	5.3	3.7	5.6	3.6
	27.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.7	4.9	3.7	5.2	3.6	5.5	3.6
	30.0	4.1	3.4	4.2	3.5	4.5	3.4	4.7	3.7	4.8	3.7	5.1	3.6	5.4	3.6
	32.5	4.1	3.3	4.2	3.4	4.4	3.4	4.6	3.6	4.7	3.6	5.0	3.6	5.3	3.5
	35.0	4.0	3.3	4.1	3.4	4.3	3.4	4.5	3.6	4.6	3.6	4.9	3.5	5.2	3.5
	37.5	3.9	3.3	4.0	3.4	4.2	3.3	4.4	3.6	4.5	3.5	4.8	3.5	5.1	3.4
	40.0	3.9	3.2	3.9	3.3	4.2	3.3	4.3	3.5	4.4	3.5	4.7	3.5	5.0	3.4
	43.0	3.8	3.2	3.8	3.3	4.0	3.2	4.2	3.5	4.3	3.5	4.6	3.4	4.8	3.4
46.0	2.9	2.8	3.0	2.9	3.2	2.9	3.3	3.1	3.5	3.1	3.7	3.1	4.0	3.1	
50 (5.6)	20.0	5.4	4.3	5.6	4.4	6.1	4.4	6.3	4.7	6.5	4.7	6.9	4.6	7.3	4.6
	22.5	5.4	4.3	5.6	4.4	6.0	4.4	6.2	4.7	6.3	4.6	6.7	4.6	7.1	4.5
	25.0	5.3	4.2	5.5	4.4	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	27.5	5.3	4.2	5.4	4.3	5.7	4.3	5.9	4.6	6.1	4.5	6.5	4.5	6.9	4.4
	30.0	5.2	4.1	5.3	4.3	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.4	6.7	4.4
	32.5	5.1	4.1	5.2	4.2	5.5	4.2	5.7	4.5	5.9	4.4	6.2	4.4	6.6	4.3
	35.0	5.0	4.1	5.1	4.2	5.4	4.1	5.6	4.4	5.7	4.4	6.1	4.3	6.5	4.3
	37.5	4.9	4.0	5.0	4.1	5.3	4.1	5.5	4.4	5.6	4.4	6.0	4.3	6.3	4.2
	40.0	4.8	4.0	4.9	4.1	5.2	4.0	5.3	4.3	5.5	4.3	5.8	4.3	6.2	4.2
	43.0	4.7	3.9	4.7	4.0	5.0	4.0	5.2	4.3	5.4	4.2	5.7	4.2	6.0	4.1
46.0	3.7	3.5	3.7	3.6	4.0	3.6	4.1	3.9	4.3	3.8	4.6	3.8	5.0	3.8	
63 (7.1)	20.0	6.9	5.3	7.1	5.5	7.7	5.5	7.9	5.8	8.2	5.8	8.7	5.7	9.2	5.6
	22.5	6.9	5.3	7.1	5.4	7.6	5.4	7.8	5.8	8.0	5.7	8.5	5.7	9.1	5.6
	25.0	6.8	5.2	7.0	5.4	7.4	5.3	7.7	5.7	7.9	5.7	8.4	5.6	8.9	5.5
	27.5	6.7	5.2	6.8	5.3	7.3	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.7	5.4
	30.0	6.5	5.1	6.7	5.3	7.1	5.2	7.4	5.6	7.6	5.5	8.1	5.5	8.5	5.4
	32.5	6.4	5.1	6.6	5.2	7.0	5.2	7.2	5.5	7.4	5.5	7.9	5.4	8.4	5.3
	35.0	6.3	5.0	6.4	5.1	6.8	5.1	7.1	5.5	7.3	5.4	7.7	5.3	8.2	5.3
	37.5	6.2	5.0	6.3	5.1	6.7	5.0	6.9	5.4	7.1	5.4	7.6	5.3	8.0	5.2
	40.0	6.1	4.9	6.2	5.0	6.6	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.8	5.1
	43.0	6.0	4.9	6.0	4.9	6.4	4.9	6.6	5.2	6.8	5.2	7.2	5.2	7.6	5.1
46.0	4.6	4.2	4.7	4.4	5.0	4.4	5.2	4.7	5.5	4.7	5.9	4.7	6.3	4.6	
71 (8.0)	20.0	7.8	5.8	8.0	6.0	8.6	5.9	8.9	6.3	9.2	6.3	9.8	6.2	10.4	6.1
	22.5	7.7	5.8	8.0	5.9	8.5	5.9	8.8	6.2	9.1	6.2	9.6	6.1	10.2	6.0
	25.0	7.6	5.7	7.8	5.9	8.4	5.8	8.6	6.2	8.9	6.1	9.4	6.1	10.0	6.0
	27.5	7.5	5.6	7.7	5.8	8.2	5.7	8.5	6.1	8.7	6.1	9.3	6.0	9.8	5.9
	30.0	7.4	5.6	7.5	5.7	8.0	5.7	8.3	6.0	8.6	6.0	9.1	5.9	9.6	5.8
	32.5	7.3	5.5	7.4	5.6	7.9	5.6	8.1	5.9	8.4	5.9	8.9	5.8	9.4	5.8
	35.0	7.1	5.5	7.2	5.6	7.7	5.5	8.0	5.9	8.2	5.8	8.7	5.8	9.2	5.7
	37.5	7.0	5.4	7.1	5.5	7.5	5.5	7.8	5.8	8.0	5.8	8.5	5.7	9.0	5.6
	40.0	6.9	5.3	6.9	5.4	7.4	5.4	7.6	5.7	7.9	5.7	8.3	5.6	8.8	5.6
	43.0	6.7	5.3	6.8	5.4	7.2	5.3	7.4	5.7	7.7	5.6	8.1	5.6	8.6	5.5
46.0	5.2	4.6	5.2	4.7	5.7	4.7	5.9	5.0	6.1	5.0	6.6	5.0	7.1	5.0	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.8	10.4	6.7	11.0	6.6	11.7	6.5
	22.5	8.7	6.2	9.0	6.4	9.6	6.3	9.9	6.7	10.2	6.6	10.8	6.6	11.5	6.5
	25.0	8.6	6.1	8.8	6.3	9.4	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.3	6.4
	27.5	8.4	6.1	8.6	6.2	9.2	6.2	9.5	6.5	9.8	6.5	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.8	6.2
	32.5	8.2	5.9	8.3	6.0	8.9	6.0	9.1	6.3	9.4	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.9	8.1	6.0	8.7	5.9	9.0	6.3	9.2	6.2	9.8	6.1	10.4	6.1
	37.5	7.9	5.8	8.0	5.9	8.5	5.8	8.8	6.2	9.0	6.1	9.6	6.1	10.2	6.0
	40.0	7.7	5.7	7.8	5.8	8.3	5.8	8.6	6.1	8.8	6.1	9.4	6.0	9.9	5.9
	43.0	7.6	5.6	7.6	5.7	8.1	5.7	8.4	6.0	8.6	6.0	9.1	5.9	9.7	5.8
46.0	5.9	4.8	5.9	4.9	6.4	4.9	6.7	5.3	6.9	5.3	7.4	5.3	8.0	5.2	
100 (11.2)	20.0	10.9	8.5	11.3	8.8	12.1	8.8	12.5	9.4	12.9	9.3	13.7	9.2	14.5	9.1
	22.5	10.8	8.5	11.2	8.8	11.9	8.7	12.3	9.3	12.7	9.2	13.5	9.1	14.3	9.0
	25.0	10.7	8.4	11.0	8.7	11.7	8.6	12.1	9.2	12.5	9.1	13.2	9.0	14.0	8.9
	27.5	10.5	8.3	10.8	8.6	11.5	8.5	11.8	9.1	12.2	9.0	13.0	8.9	13.7	8.8
	30.0	10.3	8.3	10.6	8.5	11.2	8.4	11.6	9.0	12.0	8.9	12.7	8.8	13.5	8.7
	32.5	10.2	8.2	10.3	8.4	11.0	8.3	11.4	8.9	11.7	8.8	12.4	8.7	13.2	8.6
	35.0	10.0	8.1	10.1	8.3	10.8	8.2	11.2	8.8	11.5	8.7	12.2	8.6	12.9	8.5
	37.5	9.8	8.0	9.9	8.2	10.6	8.1	10.9	8.7	11.2	8.7	11.9	8.5	12.6	8.4
	40.0	9.6	7.9	9.7	8.1	10.3	8.0	10.7	8.6	11.0	8.6	11.7	8.5	12.4	8.3
	43.0	9.4	7.8	9.5	8.0	10.1	7.9	10.4	8.5	10.7	8.4	11.4	8.3	12.1	8.2
46.0	7.3	6.9	7.3	7.1	8.0	7.1	8.3	7.7	8.6	7.6	9.3	7.6	9.9	7.5	
125 (14.0)	20.0	13.6	10.4	14.1	10.7	15.1	10.7	15.7	11.4	16.2	11.3	17.2	11.2	18.2	11.0
	22.5	13.6	10.4	14.0	10.7	14.9	10.6	15.4	11.3	15.9	11.2	16.8	11.1	17.8	10.9
	25.0	13.3	10.3	13.7	10.6	14.6	10.5	15.1	11.1	15.6	11.1	16.5	10.9	17.5	10.8
	27.5	13.1	10.2	13.5	10.4	14.3	10.4	14.8	11.0	15.3	11.0	16.2	10.8	17.2	10.7
	30.0	12.9	10.0	13.2	10.3	14.1	10.2	14.5	10.9	15.0	10.8	15.9	10.7	16.8	10.5
	32.5	12.7	9.9	12.9	10.2	13.8	10.1	14.2	10.8	14.7	10.7	15.6	10.6	16.5	10.4
	35.0	12.5	9.8	12.7	10.1	13.5	10.0	14.0	10.7	14.4	10.6	15.2	10.5	16.2	10.3
	37.5	12.3	9.7	12.4	9.9	13.2	9.9	13.6	10.5	14.1	10.5	14.9	10.3	15.8	10.2
	40.0	12.0	9.6	12.2	9.8	12.9	9.7	13.3	10.4	13.8	10.4	14.6	10.2	15.5	10.1
	43.0	11.8	9.5	11.8	9.7	12.6	9.6	13.0	10.3	13.4	10.2	14.2	10.1	15.1	9.9
46.0	9.1	8.3	9.2	8.5	9.9	8.5	10.3	9.2	10.8	9.2	11.6	9.1	12.4	9.1	
140 (16.0)	20.0	15.5	11.7	16.1	12.1	17.3	12.1	17.9	12.8	18.5	12.8	19.6	12.6	20.8	12.4
	22.5	15.5	11.7	16.0	12.1	17.0	12.0	17.6	12.7	18.1	12.7	19.2	12.5	20.4	12.3
	25.0	15.3	11.6	15.7	11.9	16.7	11.8	17.3	12.6	17.8	12.5	18.9	12.3	20.0	12.2
	27.5	15.0	11.5	15.4	11.8	16.4	11.7	16.9	12.4	17.4	12.4	18.5	12.2	19.6	12.0
	30.0	14.8	11.4	15.1	11.6	16.1	11.6	16.6	12.3	17.1	12.2	18.1	12.1	19.2	11.9
	32.5	14.5	11.2	14.8	11.5	15.7	11.4	16.3	12.1	16.8	12.1	17.8	11.9	18.8	11.8
	35.0	14.3	11.1	14.5	11.4	15.4	11.3	16.0	12.0	16.4	11.9	17.4	11.8	18.5	11.6
	37.5	14.0	11.0	14.2	11.2	15.1	11.1	15.6	11.9	16.1	11.8	17.0	11.7	18.1	11.5
	40.0	13.8	10.9	13.9	11.1	14.8	11.0	15.2	11.7	15.7	11.7	16.7	11.5	17.7	11.3
	43.0	13.5	10.7	13.5	10.9	14.4	10.8	14.8	11.6	15.3	11.5	16.3	11.4	17.2	11.2
46.0	10.4	9.3	10.5	9.6	11.4	9.6	11.8	10.4	12.3	10.3	13.2	10.3	14.2	10.2	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

### 2-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.8	2.0
	22.5	2.1	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.0
	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	2.7	2.0
	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	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.7	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	40.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	2.0	2.6	1.9
	43.0	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	1.9	2.5	1.9
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.8	2.1	1.8	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	22.5	2.6	2.1	2.7	2.1	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	25.0	2.6	2.1	2.7	2.1	2.9	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.5	2.2
	27.5	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	30.0	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	32.5	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	35.0	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	40.0	2.4	2.0	2.5	2.0	2.7	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	43.0	2.4	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.1	3.2	2.1
46.0	1.9	1.7	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.6
	27.5	3.3	2.5	3.4	2.6	3.6	2.5	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.3	2.5	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	35.0	3.2	2.4	3.3	2.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.5
46.0	2.4	2.1	2.4	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3	
40 (4.5)	20.0	4.3	3.4	4.4	3.5	4.7	3.5	4.8	3.7	5.0	3.7	5.3	3.7	5.7	3.6
	22.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.7	4.9	3.7	5.3	3.7	5.6	3.6
	25.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.9	3.7	5.2	3.7	5.6	3.6
	27.5	4.1	3.4	4.2	3.5	4.5	3.4	4.7	3.7	4.8	3.7	5.2	3.6	5.5	3.6
	30.0	4.1	3.3	4.2	3.4	4.5	3.4	4.6	3.7	4.8	3.6	5.1	3.6	5.5	3.6
	32.5	4.0	3.3	4.1	3.4	4.4	3.4	4.6	3.6	4.7	3.6	5.1	3.6	5.4	3.6
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.6	4.7	3.6	5.0	3.6	5.4	3.5
	37.5	4.0	3.3	4.0	3.4	4.3	3.4	4.5	3.6	4.6	3.6	5.0	3.6	5.3	3.5
	40.0	3.9	3.3	4.0	3.3	4.3	3.3	4.4	3.6	4.6	3.6	4.9	3.5	5.3	3.5
	43.0	3.9	3.2	3.9	3.3	4.2	3.3	4.4	3.6	4.5	3.5	4.9	3.5	5.2	3.5
46.0	3.0	2.9	3.1	2.9	3.4	3.0	3.5	3.2	3.7	3.2	4.0	3.2	4.4	3.2	
50 (5.6)	20.0	5.3	4.2	5.5	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	22.5	5.2	4.2	5.4	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	25.0	5.2	4.2	5.3	4.3	5.7	4.3	5.9	4.6	6.1	4.5	6.5	4.5	6.9	4.4
	27.5	5.1	4.1	5.3	4.3	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.5	6.9	4.4
	30.0	5.1	4.1	5.2	4.2	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.4	6.8	4.4
	32.5	5.0	4.1	5.1	4.2	5.5	4.2	5.7	4.5	5.9	4.5	6.3	4.4	6.7	4.4
	35.0	5.0	4.1	5.1	4.2	5.4	4.2	5.6	4.4	5.8	4.4	6.2	4.4	6.7	4.4
	37.5	4.9	4.0	5.0	4.1	5.4	4.1	5.6	4.4	5.8	4.4	6.2	4.4	6.6	4.3
	40.0	4.9	4.0	4.9	4.1	5.3	4.1	5.5	4.4	5.7	4.4	6.1	4.4	6.5	4.3
	43.0	4.8	4.0	4.9	4.1	5.2	4.1	5.4	4.4	5.6	4.4	6.0	4.3	6.5	4.3
46.0	3.7	3.5	3.8	3.6	4.2	3.6	4.4	4.0	4.6	4.0	5.0	4.0	5.4	3.9	
63 (7.1)	20.0	6.7	5.2	6.9	5.4	7.4	5.3	7.6	5.7	7.9	5.7	8.4	5.6	8.9	5.5
	22.5	6.6	5.2	6.8	5.3	7.3	5.3	7.6	5.6	7.8	5.6	8.3	5.6	8.8	5.5
	25.0	6.6	5.1	6.8	5.3	7.2	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.8	5.5
	27.5	6.5	5.1	6.7	5.3	7.2	5.2	7.4	5.6	7.6	5.6	8.2	5.5	8.7	5.4
	30.0	6.4	5.1	6.6	5.2	7.1	5.2	7.3	5.5	7.6	5.5	8.1	5.5	8.6	5.4
	32.5	6.4	5.0	6.5	5.2	7.0	5.2	7.2	5.5	7.5	5.5	8.0	5.4	8.5	5.4
	35.0	6.3	5.0	6.4	5.1	6.9	5.1	7.1	5.5	7.4	5.5	7.9	5.4	8.5	5.4
	37.5	6.2	5.0	6.3	5.1	6.8	5.1	7.1	5.4	7.3	5.4	7.8	5.4	8.4	5.3
	40.0	6.2	5.0	6.3	5.1	6.7	5.1	7.0	5.4	7.2	5.4	7.8	5.4	8.3	5.3
	43.0	6.1	4.9	6.2	5.0	6.7	5.0	6.9	5.4	7.1	5.4	7.7	5.3	8.2	5.3
46.0	4.7	4.3	4.8	4.4	5.3	4.5	5.6	4.8	5.8	4.8	6.3	4.8	6.9	4.8	
71 (8.0)	20.0	7.6	5.7	7.8	5.8	8.3	5.8	8.6	6.2	8.9	6.1	9.4	6.1	10.0	6.0
	22.5	7.5	5.6	7.7	5.8	8.2	5.8	8.5	6.1	8.8	6.1	9.4	6.0	10.0	5.9
	25.0	7.4	5.6	7.6	5.7	8.1	5.7	8.4	6.1	8.7	6.1	9.3	6.0	9.9	5.9
	27.5	7.3	5.6	7.5	5.7	8.1	5.7	8.3	6.0	8.6	6.0	9.2	6.0	9.8	5.9
	30.0	7.3	5.5	7.4	5.7	8.0	5.6	8.2	6.0	8.5	6.0	9.1	5.9	9.7	5.9
	32.5	7.2	5.5	7.3	5.6	7.9	5.6	8.2	6.0	8.4	5.9	9.0	5.9	9.6	5.8
	35.0	7.1	5.4	7.2	5.6	7.8	5.6	8.0	5.9	8.3	5.9	8.9	5.9	9.5	5.8
	37.5	7.0	5.4	7.2	5.5	7.7	5.5	8.0	5.9	8.3	5.9	8.8	5.8	9.4	5.8
	40.0	7.0	5.4	7.1	5.5	7.6	5.5	7.9	5.8	8.2	5.8	8.7	5.8	9.4	5.7
	43.0	6.9	5.3	7.0	5.4	7.5	5.4	7.8	5.8	8.1	5.8	8.6	5.7	9.2	5.7
46.0	5.4	4.6	5.4	4.8	6.0	4.8	6.3	5.2	6.5	5.2	7.1	5.2	7.7	5.2	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.8	6.3	9.4	6.2	9.7	6.6	10.0	6.6	10.6	6.5	11.3	6.4
	22.5	8.4	6.1	8.7	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.5	6.4	11.2	6.4
	25.0	8.3	6.0	8.6	6.2	9.2	6.1	9.5	6.5	9.8	6.5	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.3	6.4	11.0	6.3
	30.0	8.2	5.9	8.4	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.4	9.5	6.3	10.1	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	6.0	8.8	6.0	9.0	6.3	9.4	6.3	10.0	6.2	10.7	6.2
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.3	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.8	7.9	5.9	8.6	5.9	8.9	6.2	9.2	6.2	9.8	6.2	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.2	9.1	6.2	9.7	6.1	10.4	6.1
46.0	6.0	4.9	6.1	5.0	6.7	5.1	7.0	5.4	7.4	5.5	8.0	5.5	8.7	5.5	
100 (11.2)	20.0	10.6	8.4	10.9	8.6	11.7	8.6	12.0	9.2	12.4	9.1	13.2	9.0	14.1	8.9
	22.5	10.5	8.3	10.8	8.6	11.5	8.5	11.9	9.1	12.3	9.1	13.1	9.0	13.9	8.9
	25.0	10.4	8.3	10.6	8.5	11.4	8.5	11.8	9.1	12.2	9.0	13.0	8.9	13.8	8.8
	27.5	10.3	8.2	10.5	8.5	11.3	8.4	11.7	9.0	12.1	9.0	12.9	8.9	13.7	8.8
	30.0	10.2	8.2	10.4	8.4	11.2	8.4	11.5	9.0	11.9	8.9	12.7	8.8	13.6	8.7
	32.5	10.1	8.1	10.3	8.4	11.0	8.3	11.4	8.9	11.8	8.9	12.6	8.8	13.5	8.7
	35.0	9.9	8.1	10.1	8.3	10.9	8.3	11.2	8.8	11.7	8.8	12.5	8.7	13.3	8.7
	37.5	9.8	8.0	10.0	8.2	10.8	8.2	11.2	8.8	11.6	8.8	12.4	8.7	13.2	8.6
	40.0	9.7	8.0	9.9	8.2	10.6	8.2	11.0	8.7	11.4	8.7	12.2	8.7	13.1	8.6
	43.0	9.6	7.9	9.7	8.1	10.5	8.1	10.9	8.7	11.3	8.7	12.1	8.6	12.9	8.5
46.0	7.5	7.0	7.6	7.2	8.4	7.2	8.8	7.8	9.2	7.9	10.0	7.8	10.8	7.8	
125 (14.0)	20.0	13.2	10.2	13.6	10.5	14.6	10.5	15.1	11.1	15.5	11.1	16.5	10.9	17.6	10.8
	22.5	13.1	10.1	13.5	10.4	14.4	10.4	14.9	11.1	15.4	11.0	16.4	10.9	17.4	10.7
	25.0	13.0	10.1	13.3	10.4	14.3	10.3	14.7	11.0	15.2	10.9	16.2	10.8	17.3	10.7
	27.5	12.8	10.0	13.2	10.3	14.1	10.2	14.6	10.9	15.1	10.9	16.1	10.8	17.1	10.6
	30.0	12.7	9.9	13.0	10.2	13.9	10.2	14.4	10.9	14.9	10.8	15.9	10.7	17.0	10.6
	32.5	12.6	9.9	12.8	10.1	13.8	10.1	14.3	10.8	14.8	10.7	15.8	10.7	16.8	10.5
	35.0	12.4	9.8	12.7	10.1	13.6	10.0	14.0	10.7	14.6	10.7	15.6	10.6	16.7	10.5
	37.5	12.3	9.8	12.5	10.0	13.5	10.0	14.0	10.7	14.4	10.6	15.5	10.5	16.5	10.4
	40.0	12.2	9.7	12.4	9.9	13.3	9.9	13.8	10.6	14.3	10.6	15.3	10.5	16.4	10.4
	43.0	12.0	9.6	12.2	9.8	13.1	9.8	13.6	10.5	14.1	10.5	15.1	10.4	16.2	10.3
46.0	9.4	8.4	9.5	8.7	10.5	8.7	11.0	9.4	11.5	9.5	12.5	9.5	13.5	9.4	
140 (16.0)	20.0	15.1	11.5	15.6	11.9	16.7	11.8	17.2	12.6	17.8	12.5	18.9	12.4	20.1	12.2
	22.5	15.0	11.5	15.4	11.8	16.5	11.7	17.0	12.5	17.6	12.4	18.7	12.3	19.9	12.1
	25.0	14.8	11.4	15.2	11.7	16.3	11.7	16.8	12.4	17.4	12.3	18.5	12.2	19.7	12.1
	27.5	14.7	11.3	15.0	11.6	16.1	11.6	16.7	12.3	17.2	12.3	18.4	12.2	19.6	12.0
	30.0	14.5	11.2	14.9	11.5	15.9	11.5	16.5	12.2	17.0	12.2	18.2	12.1	19.4	11.9
	32.5	14.4	11.2	14.7	11.5	15.8	11.4	16.3	12.2	16.9	12.1	18.0	12.0	19.2	11.9
	35.0	14.2	11.1	14.5	11.4	15.6	11.3	16.0	12.0	16.7	12.1	17.8	12.0	19.1	11.8
	37.5	14.1	11.0	14.3	11.3	15.4	11.3	15.9	12.0	16.5	12.0	17.7	11.9	18.9	11.8
	40.0	13.9	10.9	14.1	11.2	15.2	11.2	15.8	11.9	16.3	11.9	17.5	11.8	18.7	11.7
	43.0	13.7	10.9	13.9	11.1	15.0	11.1	15.6	11.9	16.1	11.8	17.3	11.7	18.5	11.6
46.0	10.7	9.5	10.9	9.7	12.0	9.8	12.5	10.6	13.1	10.6	14.3	10.6	15.5	10.6	

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



## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

### 2-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	1.9	2.4	1.9	2.4	2.1	2.5	2.1	2.7	2.1	2.9	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.8	2.0
	25.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.8	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	32.5	1.9	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	1.9	1.8	2.0	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	37.5	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	1.9	2.5	1.9
	40.0	1.8	1.7	1.9	1.8	2.0	1.8	2.1	2.0	2.2	1.9	2.3	1.9	2.5	1.9
	43.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	1.9	2.1	1.9	2.3	1.9	2.4	1.9
46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.7	1.7	1.9	1.8	2.0	1.8	
25 (2.8)	20.0	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.3	3.2	2.3	3.4	2.3	3.7	2.3
	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	2.2
	25.0	2.6	2.1	2.7	2.1	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	27.5	2.6	2.1	2.7	2.1	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	30.0	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	32.5	2.5	2.0	2.6	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	37.5	2.4	2.0	2.5	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.1	3.2	2.1
	40.0	2.3	1.9	2.4	2.0	2.6	2.0	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.1
	43.0	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.1	2.7	2.1	2.9	2.1	3.1	2.1
46.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.1	2.8	4.4	2.8	4.7	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.6	3.9	2.8	4.1	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.5	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.5	2.6
	30.0	3.2	2.5	3.4	2.5	3.6	2.5	3.7	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	35.0	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.4	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.1	2.5
	40.0	3.0	2.3	3.1	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.8	2.5	4.0	2.5
	43.0	2.9	2.3	3.0	2.4	3.2	2.4	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.5
46.0	2.3	2.0	2.3	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.3	2.2	
40 (4.5)	20.0	4.3	3.5	4.5	3.6	4.8	3.6	5.0	3.8	5.2	3.8	5.5	3.8	5.9	3.7
	22.5	4.3	3.4	4.4	3.6	4.7	3.5	4.9	3.8	5.1	3.8	5.4	3.7	5.8	3.7
	25.0	4.2	3.4	4.3	3.5	4.7	3.5	4.8	3.7	5.0	3.7	5.3	3.7	5.7	3.6
	27.5	4.1	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.9	3.7	5.2	3.7	5.6	3.6
	30.0	4.1	3.3	4.2	3.4	4.5	3.4	4.7	3.7	4.8	3.7	5.1	3.6	5.5	3.6
	32.5	4.0	3.3	4.1	3.4	4.4	3.4	4.6	3.6	4.7	3.6	5.0	3.6	5.4	3.5
	35.0	3.9	3.3	4.0	3.4	4.3	3.4	4.5	3.6	4.6	3.6	4.9	3.6	5.3	3.5
	37.5	3.8	3.2	4.0	3.3	4.2	3.3	4.4	3.6	4.5	3.6	4.8	3.5	5.2	3.5
	40.0	3.8	3.2	3.9	3.3	4.2	3.3	4.3	3.5	4.5	3.5	4.8	3.5	5.1	3.4
	43.0	3.7	3.2	3.8	3.3	4.1	3.2	4.2	3.5	4.3	3.5	4.6	3.4	4.9	3.4
46.0	2.8	2.8	2.9	2.9	3.2	2.9	3.4	3.2	3.5	3.2	3.8	3.1	4.1	3.1	
50 (5.6)	20.0	5.4	4.3	5.6	4.4	6.0	4.4	6.2	4.7	6.4	4.7	6.9	4.6	7.3	4.6
	22.5	5.3	4.2	5.5	4.4	5.9	4.4	6.1	4.6	6.3	4.6	6.7	4.6	7.2	4.5
	25.0	5.2	4.2	5.4	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	27.5	5.1	4.1	5.3	4.3	5.7	4.3	5.9	4.6	6.1	4.5	6.5	4.5	6.9	4.4
	30.0	5.0	4.1	5.2	4.2	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.5	6.8	4.4
	32.5	5.0	4.0	5.1	4.2	5.5	4.2	5.7	4.5	5.9	4.5	6.3	4.4	6.7	4.4
	35.0	4.9	4.0	5.0	4.1	5.4	4.1	5.6	4.4	5.8	4.4	6.2	4.4	6.5	4.3
	37.5	4.8	4.0	4.9	4.1	5.3	4.1	5.5	4.4	5.7	4.4	6.0	4.3	6.4	4.3
	40.0	4.7	3.9	4.8	4.1	5.2	4.0	5.4	4.3	5.5	4.3	5.9	4.3	6.3	4.2
	43.0	4.6	3.9	4.7	4.0	5.1	4.0	5.2	4.3	5.4	4.3	5.8	4.2	6.1	4.2
46.0	3.5	3.4	3.6	3.5	4.0	3.6	4.2	3.9	4.4	3.9	4.7	3.9	5.1	3.8	
63 (7.1)	20.0	6.9	5.3	7.1	5.5	7.6	5.4	7.9	5.8	8.2	5.8	8.7	5.7	9.3	5.6
	22.5	6.7	5.2	7.0	5.4	7.5	5.4	7.8	5.7	8.0	5.7	8.6	5.7	9.1	5.6
	25.0	6.6	5.2	6.9	5.3	7.4	5.3	7.6	5.7	7.9	5.7	8.4	5.6	8.9	5.5
	27.5	6.5	5.1	6.7	5.3	7.2	5.3	7.5	5.6	7.7	5.6	8.3	5.5	8.8	5.5
	30.0	6.4	5.1	6.6	5.2	7.1	5.2	7.3	5.6	7.6	5.5	8.1	5.5	8.6	5.4
	32.5	6.3	5.0	6.5	5.2	7.0	5.2	7.2	5.5	7.5	5.5	7.9	5.4	8.5	5.4
	35.0	6.2	4.9	6.4	5.1	6.8	5.1	7.1	5.5	7.3	5.4	7.8	5.4	8.3	5.3
	37.5	6.1	4.9	6.2	5.1	6.7	5.0	6.9	5.4	7.2	5.4	7.6	5.3	8.1	5.2
	40.0	5.9	4.8	6.1	5.0	6.6	5.0	6.8	5.3	7.0	5.3	7.5	5.3	8.0	5.2
	43.0	5.8	4.8	6.0	4.9	6.4	4.9	6.6	5.3	6.9	5.2	7.3	5.2	7.8	5.1
46.0	4.5	4.2	4.6	4.3	5.1	4.4	5.3	4.7	5.5	4.7	6.0	4.7	6.4	4.7	
71 (8.0)	20.0	7.7	5.8	8.0	5.9	8.6	5.9	8.9	6.3	9.2	6.3	9.8	6.2	10.4	6.1
	22.5	7.6	5.7	7.9	5.9	8.4	5.9	8.7	6.2	9.0	6.2	9.6	6.1	10.3	6.1
	25.0	7.5	5.6	7.7	5.8	8.3	5.8	8.6	6.1	8.9	6.1	9.5	6.1	10.1	6.0
	27.5	7.3	5.6	7.6	5.7	8.1	5.7	8.4	6.1	8.7	6.1	9.3	6.0	9.9	5.9
	30.0	7.2	5.5	7.4	5.7	8.0	5.7	8.3	6.0	8.6	6.0	9.1	5.9	9.7	5.9
	32.5	7.1	5.4	7.3	5.6	7.8	5.6	8.1	5.9	8.4	5.9	9.0	5.9	9.5	5.8
	35.0	6.9	5.4	7.2	5.5	7.7	5.5	8.0	5.9	8.2	5.9	8.8	5.8	9.3	5.7
	37.5	6.8	5.3	7.0	5.5	7.5	5.5	7.8	5.8	8.1	5.8	8.6	5.7	9.2	5.7
	40.0	6.7	5.2	6.9	5.4	7.4	5.4	7.7	5.8	7.9	5.7	8.4	5.7	9.0	5.6
	43.0	6.5	5.2	6.7	5.3	7.2	5.3	7.5	5.7	7.7	5.7	8.2	5.6	8.8	5.5
46.0	5.0	4.5	5.2	4.7	5.7	4.7	6.0	5.1	6.2	5.1	6.7	5.0	7.3	5.0	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.0	6.7	10.3	6.7	11.0	6.6	11.7	6.6
	22.5	8.5	6.1	8.9	6.3	9.5	6.3	9.8	6.7	10.2	6.6	10.8	6.6	11.5	6.5
	25.0	8.4	6.1	8.7	6.2	9.3	6.2	9.7	6.6	10.0	6.6	10.6	6.5	11.3	6.4
	27.5	8.3	6.0	8.5	6.2	9.2	6.1	9.5	6.5	9.8	6.5	10.5	6.4	11.1	6.3
	30.0	8.1	5.9	8.4	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.3	6.3	10.9	6.3
	32.5	8.0	5.8	8.2	6.0	8.8	6.0	9.1	6.3	9.4	6.3	10.1	6.3	10.7	6.2
	35.0	7.8	5.8	8.1	5.9	8.7	5.9	9.0	6.3	9.3	6.2	9.9	6.2	10.5	6.1
	37.5	7.7	5.7	7.9	5.8	8.5	5.8	8.8	6.2	9.1	6.2	9.7	6.1	10.3	6.0
	40.0	7.5	5.6	7.7	5.8	8.3	5.8	8.6	6.1	8.9	6.1	9.5	6.0	10.1	6.0
	43.0	7.4	5.5	7.6	5.7	8.1	5.7	8.4	6.0	8.7	6.0	9.3	5.9	9.9	5.9
46.0	5.7	4.7	5.9	4.9	6.4	4.9	6.7	5.3	7.0	5.3	7.6	5.3	8.2	5.3	
100 (11.2)	20.0	10.8	8.5	11.2	8.8	12.0	8.8	12.5	9.3	12.9	9.3	13.7	9.2	14.6	9.1
	22.5	10.6	8.4	11.0	8.7	11.8	8.7	12.2	9.2	12.6	9.2	13.5	9.1	14.4	9.0
	25.0	10.5	8.3	10.8	8.6	11.6	8.6	12.0	9.2	12.4	9.1	13.3	9.0	14.1	8.9
	27.5	10.3	8.2	10.6	8.5	11.4	8.5	11.8	9.1	12.2	9.0	13.0	8.9	13.8	8.8
	30.0	10.1	8.1	10.4	8.4	11.2	8.4	11.6	9.0	12.0	8.9	12.8	8.9	13.6	8.7
	32.5	9.9	8.1	10.2	8.3	11.0	8.3	11.4	8.9	11.8	8.9	12.5	8.8	13.3	8.7
	35.0	9.7	8.0	10.0	8.2	10.8	8.2	11.2	8.8	11.5	8.8	12.3	8.7	13.1	8.6
	37.5	9.5	7.9	9.8	8.2	10.6	8.1	10.9	8.7	11.3	8.7	12.1	8.6	12.8	8.5
	40.0	9.4	7.8	9.6	8.1	10.4	8.0	10.7	8.6	11.1	8.6	11.8	8.5	12.6	8.4
	43.0	9.2	7.7	9.4	8.0	10.1	7.9	10.5	8.5	10.8	8.5	11.5	8.4	12.3	8.3
46.0	7.0	6.8	7.3	7.0	8.0	7.1	8.3	7.7	8.7	7.7	9.4	7.7	10.2	7.6	
125 (14.0)	20.0	13.5	10.3	14.0	10.7	15.0	10.7	15.6	11.3	16.1	11.3	17.2	11.2	18.3	11.0
	22.5	13.3	10.2	13.8	10.6	14.8	10.5	15.3	11.2	15.8	11.2	16.9	11.1	17.9	10.9
	25.0	13.1	10.1	13.5	10.5	14.5	10.4	15.0	11.1	15.5	11.1	16.6	11.0	17.6	10.8
	27.5	12.8	10.0	13.3	10.3	14.3	10.3	14.8	11.0	15.3	11.0	16.3	10.8	17.3	10.7
	30.0	12.6	9.9	13.0	10.2	14.0	10.2	14.5	10.9	15.0	10.8	16.0	10.7	17.0	10.6
	32.5	12.4	9.8	12.8	10.1	13.7	10.1	14.2	10.8	14.7	10.7	15.7	10.6	16.7	10.5
	35.0	12.2	9.7	12.5	10.0	13.5	10.0	14.0	10.7	14.4	10.6	15.4	10.5	16.4	10.4
	37.5	11.9	9.6	12.3	9.9	13.2	9.9	13.7	10.5	14.1	10.5	15.1	10.4	16.0	10.3
	40.0	11.7	9.5	12.1	9.8	12.9	9.8	13.4	10.4	13.9	10.4	14.8	10.3	15.7	10.2
	43.0	11.4	9.3	11.8	9.7	12.6	9.6	13.1	10.3	13.5	10.3	14.4	10.2	15.4	10.0
46.0	8.8	8.1	9.1	8.5	10.0	8.5	10.4	9.2	10.9	9.2	11.8	9.2	12.7	9.2	
140 (16.0)	20.0	15.5	11.7	16.0	12.1	17.2	12.1	17.8	12.8	18.4	12.8	19.6	12.6	20.9	12.5
	22.5	15.2	11.6	15.7	12.0	16.9	11.9	17.5	12.7	18.1	12.6	19.3	12.5	20.5	12.3
	25.0	14.9	11.4	15.5	11.8	16.6	11.8	17.2	12.5	17.8	12.5	18.9	12.4	20.1	12.2
	27.5	14.7	11.3	15.2	11.7	16.3	11.7	16.9	12.4	17.4	12.4	18.6	12.2	19.8	12.1
	30.0	14.4	11.2	14.9	11.6	16.0	11.5	16.6	12.3	17.1	12.2	18.3	12.1	19.4	12.0
	32.5	14.2	11.1	14.6	11.4	15.7	11.4	16.2	12.1	16.8	12.1	17.9	12.0	19.1	11.8
	35.0	13.9	10.9	14.3	11.3	15.4	11.3	16.0	12.0	16.5	12.0	17.6	11.9	18.7	11.7
	37.5	13.6	10.8	14.1	11.2	15.1	11.1	15.6	11.9	16.2	11.8	17.2	11.7	18.3	11.6
	40.0	13.4	10.7	13.8	11.0	14.8	11.0	15.3	11.8	15.8	11.7	16.9	11.6	18.0	11.5
	43.0	13.1	10.6	13.4	10.9	14.4	10.9	14.9	11.6	15.5	11.6	16.5	11.5	17.6	11.3
46.0	10.0	9.2	10.4	9.5	11.4	9.6	11.9	10.4	12.4	10.4	13.5	10.4	14.5	10.3	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

### 2-5. Cooling capacity with PUHY-EP850-900YSKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.0	2.6	2.0	2.8	2.0
	22.5	2.1	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.0
	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	2.7	2.0
	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	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.7	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	40.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	2.0	2.6	1.9
	43.0	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	1.9	2.5	1.9
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.8	2.1	1.8	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	22.5	2.6	2.1	2.7	2.1	2.9	2.1	3.0	2.3	3.1	2.3	3.3	2.2	3.5	2.2
	25.0	2.6	2.1	2.7	2.1	2.9	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.5	2.2
	27.5	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	30.0	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	32.5	2.5	2.0	2.6	2.1	2.8	2.1	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.2
	35.0	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	40.0	2.4	2.0	2.5	2.0	2.7	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.1
	43.0	2.4	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.1	3.2	2.1
46.0	1.9	1.7	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.6
	27.5	3.3	2.5	3.4	2.6	3.6	2.5	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.3	2.5	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	35.0	3.2	2.4	3.3	2.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.5
46.0	2.4	2.1	2.4	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3	
40 (4.5)	20.0	4.3	3.4	4.4	3.5	4.7	3.5	4.8	3.7	5.0	3.7	5.3	3.7	5.7	3.6
	22.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.7	4.9	3.7	5.3	3.7	5.6	3.6
	25.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.9	3.7	5.2	3.7	5.6	3.6
	27.5	4.1	3.4	4.2	3.5	4.5	3.4	4.7	3.7	4.8	3.7	5.2	3.6	5.5	3.6
	30.0	4.1	3.3	4.2	3.4	4.5	3.4	4.6	3.7	4.8	3.6	5.1	3.6	5.5	3.6
	32.5	4.0	3.3	4.1	3.4	4.4	3.4	4.6	3.6	4.7	3.6	5.1	3.6	5.4	3.6
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.6	4.7	3.6	5.0	3.6	5.4	3.5
	37.5	4.0	3.3	4.0	3.4	4.3	3.4	4.5	3.6	4.6	3.6	5.0	3.6	5.3	3.5
	40.0	3.9	3.3	4.0	3.3	4.3	3.3	4.4	3.6	4.6	3.6	4.9	3.5	5.3	3.5
	43.0	3.9	3.2	3.9	3.3	4.2	3.3	4.4	3.6	4.5	3.5	4.9	3.5	5.2	3.5
46.0	3.0	2.9	3.1	2.9	3.4	3.0	3.5	3.2	3.7	3.2	4.0	3.2	4.4	3.2	
50 (5.6)	20.0	5.3	4.2	5.5	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	22.5	5.2	4.2	5.4	4.3	5.8	4.3	6.0	4.6	6.2	4.6	6.6	4.5	7.0	4.5
	25.0	5.2	4.2	5.3	4.3	5.7	4.3	5.9	4.6	6.1	4.5	6.5	4.5	6.9	4.4
	27.5	5.1	4.1	5.3	4.3	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.5	6.9	4.4
	30.0	5.1	4.1	5.2	4.2	5.6	4.2	5.8	4.5	6.0	4.5	6.4	4.4	6.8	4.4
	32.5	5.0	4.1	5.1	4.2	5.5	4.2	5.7	4.5	5.9	4.5	6.3	4.4	6.7	4.4
	35.0	5.0	4.1	5.1	4.2	5.4	4.2	5.6	4.4	5.8	4.4	6.2	4.4	6.7	4.4
	37.5	4.9	4.0	5.0	4.1	5.4	4.1	5.6	4.4	5.8	4.4	6.2	4.4	6.6	4.3
	40.0	4.9	4.0	4.9	4.1	5.3	4.1	5.5	4.4	5.7	4.4	6.1	4.4	6.5	4.3
	43.0	4.8	4.0	4.9	4.1	5.2	4.1	5.4	4.4	5.6	4.4	6.0	4.3	6.5	4.3
46.0	3.7	3.5	3.8	3.6	4.2	3.6	4.4	4.0	4.6	4.0	5.0	4.0	5.4	3.9	
63 (7.1)	20.0	6.7	5.2	6.9	5.4	7.4	5.3	7.6	5.7	7.9	5.7	8.4	5.6	8.9	5.5
	22.5	6.6	5.2	6.8	5.3	7.3	5.3	7.6	5.6	7.8	5.6	8.3	5.6	8.8	5.5
	25.0	6.6	5.1	6.8	5.3	7.2	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.8	5.5
	27.5	6.5	5.1	6.7	5.3	7.2	5.2	7.4	5.6	7.6	5.6	8.2	5.5	8.7	5.4
	30.0	6.4	5.1	6.6	5.2	7.1	5.2	7.3	5.5	7.6	5.5	8.1	5.5	8.6	5.4
	32.5	6.4	5.0	6.5	5.2	7.0	5.2	7.2	5.5	7.5	5.5	8.0	5.4	8.5	5.4
	35.0	6.3	5.0	6.4	5.1	6.9	5.1	7.1	5.5	7.4	5.5	7.9	5.4	8.5	5.4
	37.5	6.2	5.0	6.3	5.1	6.8	5.1	7.1	5.4	7.3	5.4	7.8	5.4	8.4	5.3
	40.0	6.2	5.0	6.3	5.1	6.7	5.1	7.0	5.4	7.2	5.4	7.8	5.4	8.3	5.3
	43.0	6.1	4.9	6.2	5.0	6.7	5.0	6.9	5.4	7.1	5.4	7.7	5.3	8.2	5.3
46.0	4.7	4.3	4.8	4.4	5.3	4.5	5.6	4.8	5.8	4.8	6.3	4.8	6.9	4.8	
71 (8.0)	20.0	7.6	5.7	7.8	5.8	8.3	5.8	8.6	6.2	8.9	6.1	9.4	6.1	10.0	6.0
	22.5	7.5	5.6	7.7	5.8	8.2	5.8	8.5	6.1	8.8	6.1	9.4	6.0	10.0	5.9
	25.0	7.4	5.6	7.6	5.7	8.1	5.7	8.4	6.1	8.7	6.1	9.3	6.0	9.9	5.9
	27.5	7.3	5.6	7.5	5.7	8.1	5.7	8.3	6.0	8.6	6.0	9.2	6.0	9.8	5.9
	30.0	7.3	5.5	7.4	5.7	8.0	5.6	8.2	6.0	8.5	6.0	9.1	5.9	9.7	5.9
	32.5	7.2	5.5	7.3	5.6	7.9	5.6	8.2	6.0	8.4	5.9	9.0	5.9	9.6	5.8
	35.0	7.1	5.4	7.2	5.6	7.8	5.6	8.0	5.9	8.3	5.9	8.9	5.9	9.5	5.8
	37.5	7.0	5.4	7.2	5.5	7.7	5.5	8.0	5.9	8.3	5.9	8.8	5.8	9.4	5.8
	40.0	7.0	5.4	7.1	5.5	7.6	5.5	7.9	5.8	8.2	5.8	8.7	5.8	9.4	5.7
	43.0	6.9	5.3	7.0	5.4	7.5	5.4	7.8	5.8	8.1	5.8	8.6	5.7	9.2	5.7
46.0	5.4	4.6	5.4	4.8	6.0	4.8	6.3	5.2	6.5	5.2	7.1	5.2	7.7	5.2	

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

## 2. Cooling [Ceiling concealed (Middle static pressure type)]

EP-YKM

PEFY-P-VMA(L)-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
80 (9.0)	20.0	8.5	6.1	8.8	6.3	9.4	6.2	9.7	6.6	10.0	6.6	10.6	6.5	11.3	6.4
	22.5	8.4	6.1	8.7	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.5	6.4	11.2	6.4
	25.0	8.3	6.0	8.6	6.2	9.2	6.1	9.5	6.5	9.8	6.5	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.3	6.4	11.0	6.3
	30.0	8.2	5.9	8.4	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.4	9.5	6.3	10.1	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	6.0	8.8	6.0	9.0	6.3	9.4	6.3	10.0	6.2	10.7	6.2
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.3	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.8	7.9	5.9	8.6	5.9	8.9	6.2	9.2	6.2	9.8	6.2	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.2	9.1	6.2	9.7	6.1	10.4	6.1
46.0	6.0	4.9	6.1	5.0	6.7	5.1	7.0	5.4	7.4	5.5	8.0	5.5	8.7	5.5	
100 (11.2)	20.0	10.6	8.4	10.9	8.6	11.7	8.6	12.0	9.2	12.4	9.1	13.2	9.0	14.1	8.9
	22.5	10.5	8.3	10.8	8.6	11.5	8.5	11.9	9.1	12.3	9.1	13.1	9.0	13.9	8.9
	25.0	10.4	8.3	10.6	8.5	11.4	8.5	11.8	9.1	12.2	9.0	13.0	8.9	13.8	8.8
	27.5	10.3	8.2	10.5	8.5	11.3	8.4	11.7	9.0	12.1	9.0	12.9	8.9	13.7	8.8
	30.0	10.2	8.2	10.4	8.4	11.2	8.4	11.5	9.0	11.9	8.9	12.7	8.8	13.6	8.7
	32.5	10.1	8.1	10.3	8.4	11.0	8.3	11.4	8.9	11.8	8.9	12.6	8.8	13.5	8.7
	35.0	9.9	8.1	10.1	8.3	10.9	8.3	11.2	8.8	11.7	8.8	12.5	8.7	13.3	8.7
	37.5	9.8	8.0	10.0	8.2	10.8	8.2	11.2	8.8	11.6	8.8	12.4	8.7	13.2	8.6
	40.0	9.7	8.0	9.9	8.2	10.6	8.2	11.0	8.7	11.4	8.7	12.2	8.7	13.1	8.6
	43.0	9.6	7.9	9.7	8.1	10.5	8.1	10.9	8.7	11.3	8.7	12.1	8.6	12.9	8.5
46.0	7.5	7.0	7.6	7.2	8.4	7.2	8.8	7.8	9.2	7.9	10.0	7.8	10.8	7.8	
125 (14.0)	20.0	13.2	10.2	13.6	10.5	14.6	10.5	15.1	11.1	15.5	11.1	16.5	10.9	17.6	10.8
	22.5	13.1	10.1	13.5	10.4	14.4	10.4	14.9	11.1	15.4	11.0	16.4	10.9	17.4	10.7
	25.0	13.0	10.1	13.3	10.4	14.3	10.3	14.7	11.0	15.2	10.9	16.2	10.8	17.3	10.7
	27.5	12.8	10.0	13.2	10.3	14.1	10.2	14.6	10.9	15.1	10.9	16.1	10.8	17.1	10.6
	30.0	12.7	9.9	13.0	10.2	13.9	10.2	14.4	10.9	14.9	10.8	15.9	10.7	17.0	10.6
	32.5	12.6	9.9	12.8	10.1	13.8	10.1	14.3	10.8	14.8	10.7	15.8	10.7	16.8	10.5
	35.0	12.4	9.8	12.7	10.1	13.6	10.0	14.0	10.7	14.6	10.7	15.6	10.6	16.7	10.5
	37.5	12.3	9.8	12.5	10.0	13.5	10.0	14.0	10.7	14.4	10.6	15.5	10.5	16.5	10.4
	40.0	12.2	9.7	12.4	9.9	13.3	9.9	13.8	10.6	14.3	10.6	15.3	10.5	16.4	10.4
	43.0	12.0	9.6	12.2	9.8	13.1	9.8	13.6	10.5	14.1	10.5	15.1	10.4	16.2	10.3
46.0	9.4	8.4	9.5	8.7	10.5	8.7	11.0	9.4	11.5	9.5	12.5	9.5	13.5	9.4	
140 (16.0)	20.0	15.1	11.5	15.6	11.9	16.7	11.8	17.2	12.6	17.8	12.5	18.9	12.4	20.1	12.2
	22.5	15.0	11.5	15.4	11.8	16.5	11.7	17.0	12.5	17.6	12.4	18.7	12.3	19.9	12.1
	25.0	14.8	11.4	15.2	11.7	16.3	11.7	16.8	12.4	17.4	12.3	18.5	12.2	19.7	12.1
	27.5	14.7	11.3	15.0	11.6	16.1	11.6	16.7	12.3	17.2	12.3	18.4	12.2	19.6	12.0
	30.0	14.5	11.2	14.9	11.5	15.9	11.5	16.5	12.2	17.0	12.2	18.2	12.1	19.4	11.9
	32.5	14.4	11.2	14.7	11.5	15.8	11.4	16.3	12.2	16.9	12.1	18.0	12.0	19.2	11.9
	35.0	14.2	11.1	14.5	11.4	15.6	11.3	16.0	12.0	16.7	12.1	17.8	12.0	19.1	11.8
	37.5	14.1	11.0	14.3	11.3	15.4	11.3	15.9	12.0	16.5	12.0	17.7	11.9	18.9	11.8
	40.0	13.9	10.9	14.1	11.2	15.2	11.2	15.8	11.9	16.3	11.9	17.5	11.8	18.7	11.7
	43.0	13.7	10.9	13.9	11.1	15.0	11.1	15.6	11.9	16.1	11.8	17.3	11.7	18.5	11.6
46.0	10.7	9.5	10.9	9.7	12.0	9.8	12.5	10.6	13.1	10.6	14.3	10.6	15.5	10.6	

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

### 3. Cooling [Ceiling cassette (1-way flow type)]

EP-YKM

#### 3-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PMFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	1.9
	25.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	27.5	2.1	1.8	2.1	1.9	2.3	1.9	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.9	2.2	1.8	2.3	2.0	2.3	2.0	2.5	1.9	2.6	1.9
	32.5	2.0	1.8	2.1	1.8	2.2	1.8	2.2	2.0	2.3	1.9	2.4	1.9	2.6	1.9
	35.0	2.0	1.8	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.3	1.9	2.5	1.8
	40.0	1.9	1.7	2.0	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8
	43.0	1.8	1.7	1.9	1.8	2.0	1.7	2.1	1.9	2.1	1.9	2.2	1.8	2.3	1.8
46.0	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.9	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.5	3.1	2.4	3.3	2.4	3.5	2.4
	22.5	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.5	3.1	2.4	3.3	2.4	3.5	2.4
	25.0	2.7	2.2	2.8	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	27.5	2.7	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	30.0	2.6	2.2	2.7	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.3	2.3
	32.5	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	35.0	2.5	2.2	2.6	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.0	2.3	3.2	2.3
	37.5	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.8	2.3	3.0	2.3	3.1	2.2
	40.0	2.4	2.1	2.5	2.2	2.6	2.2	2.7	2.3	2.8	2.3	2.9	2.3	3.1	2.2
	43.0	2.4	2.1	2.4	2.2	2.6	2.1	2.6	2.3	2.7	2.3	2.8	2.2	3.0	2.2
46.0	1.8	1.8	1.9	1.9	2.0	1.9	2.1	2.1	2.2	2.1	2.3	2.1	2.5	2.0	
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.1	2.6
	37.5	3.2	2.4	3.3	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.7	2.5	3.9	2.5
	43.0	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.6	2.5	3.8	2.5
46.0	2.3	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.2	3.2	2.2	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.3	3.1	4.4	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.2	3.1	4.3	3.2	4.6	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.1	4.2	3.1	4.5	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	4.0	3.0	4.1	3.1	4.3	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.0	3.1
	40.0	3.9	2.9	4.0	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	4.9	3.0
	43.0	3.8	2.9	3.9	3.0	4.1	2.9	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
46.0	2.9	2.5	3.0	2.6	3.3	2.6	3.4	2.8	3.5	2.8	3.7	2.7	4.0	2.7	

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

### 3. Cooling [Ceiling cassette (1-way flow type)]

EP-YKM

CT

#### 3-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PMFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.5	2.0	2.5	2.0	2.7	2.0	2.9	2.0
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	2.0
	25.0	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.8	1.9
	27.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.6	1.9
	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
	35.0	2.0	1.8	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9
	40.0	1.9	1.7	1.9	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8
	43.0	1.9	1.7	1.9	1.7	2.0	1.7	2.0	1.9	2.1	1.9	2.2	1.8	2.4	1.8
46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	22.5	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	25.0	2.7	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	27.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.2	2.4	3.4	2.3
	30.0	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	32.5	2.5	2.2	2.6	2.2	2.8	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.0	2.3	3.2	2.3
	37.5	2.5	2.1	2.5	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
	40.0	2.4	2.1	2.4	2.2	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.3	3.1	2.2
	43.0	2.4	2.1	2.4	2.1	2.5	2.1	2.6	2.3	2.7	2.3	2.8	2.2	3.0	2.2
46.0	1.8	1.8	1.8	1.8	2.0	1.9	2.1	2.1	2.2	2.1	2.3	2.1	2.5	2.0	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.2	2.8	4.4	2.8	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.8	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	32.5	3.3	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.7	2.6	3.9	2.6	4.2	2.6
	37.5	3.2	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.5
	40.0	3.1	2.4	3.1	2.5	3.3	2.4	3.4	2.6	3.5	2.6	3.8	2.5	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.7	2.5	3.9	2.5
46.0	2.4	2.1	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.2	
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.5	5.2	3.5	5.5	3.4	5.8	3.4
	22.5	4.4	3.2	4.5	3.3	4.8	3.3	4.9	3.4	5.1	3.4	5.4	3.4	5.7	3.3
	25.0	4.3	3.2	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.4	5.3	3.3	5.6	3.3
	27.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.1	4.2	3.2	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.3	3.2
	35.0	4.0	3.0	4.1	3.1	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.1
	37.5	3.9	3.0	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
	40.0	3.9	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.1	4.7	3.1	5.0	3.0
	43.0	3.8	2.9	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.1	4.6	3.0	4.8	3.0
46.0	2.9	2.5	3.0	2.6	3.2	2.6	3.3	2.8	3.5	2.8	3.7	2.7	4.0	2.7	

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

### 3. Cooling [Ceiling cassette (1-way flow type)]

EP-YKM

#### 3-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PMFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.8	1.9
	22.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.0	1.8	2.2	1.8	2.3	2.0	2.3	2.0	2.5	1.9	2.7	1.9
	32.5	2.0	1.8	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.9
	43.0	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.9
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7	
25 (2.8)	20.0	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	22.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	25.0	2.6	2.2	2.7	2.3	2.9	2.3	2.9	2.4	3.0	2.4	3.2	2.4	3.5	2.4
	27.5	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	30.0	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	32.5	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.4	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	37.5	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.1	2.3	3.3	2.3
	40.0	2.4	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.3
	43.0	2.4	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
46.0	1.9	1.9	1.9	1.9	2.1	1.9	2.2	2.1	2.3	2.1	2.5	2.1	2.7	2.1	
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.1	2.7	2.2	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.3	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.3
	27.5	4.1	3.1	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.2
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.2
	40.0	3.9	3.0	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.9	3.2	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	

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

### 3. Cooling [Ceiling cassette (1-way flow type)]

EP-YKM

#### 3-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PMFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.4	2.0	2.5	2.0	2.7	2.0	2.9	2.0
	22.5	2.1	1.8	2.2	1.9	2.3	1.9	2.4	2.0	2.5	2.0	2.6	2.0	2.8	2.0
	25.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.8	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	30.0	2.0	1.8	2.0	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	37.5	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.9
	40.0	1.8	1.7	1.9	1.8	2.0	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.8
	43.0	1.8	1.7	1.8	1.7	2.0	1.7	2.1	1.9	2.1	1.9	2.3	1.9	2.4	1.8
46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.9	1.7	2.0	1.7
25 (2.8)	20.0	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.7	2.4
	22.5	2.7	2.2	2.8	2.3	3.0	2.3	3.1	2.5	3.2	2.5	3.4	2.4	3.6	2.4
	25.0	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	27.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	30.0	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	32.5	2.5	2.1	2.6	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	35.0	2.4	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.1	2.3	3.3	2.3
	37.5	2.4	2.1	2.5	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
	40.0	2.3	2.1	2.4	2.2	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.1	2.3
	43.0	2.3	2.1	2.4	2.1	2.5	2.1	2.6	2.3	2.7	2.3	2.9	2.3	3.1	2.2
46.0	1.8	1.8	1.8	1.8	2.0	1.9	2.1	2.1	2.2	2.1	2.4	2.1	2.5	2.1	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.1	2.8	4.4	2.8	4.7	2.8
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.1	2.8	4.3	2.8	4.6	2.7
	25.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.5	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.5	2.7
	30.0	3.2	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	35.0	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.6	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.1	2.6
	40.0	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	43.0	2.9	2.3	3.0	2.4	3.2	2.4	3.4	2.6	3.5	2.5	3.7	2.5	3.9	2.5
46.0	2.3	2.0	2.3	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.3	2.3	
40 (4.5)	20.0	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.5	5.2	3.5	5.5	3.4	5.9	3.4
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.1	3.4	5.4	3.4	5.8	3.3
	25.0	4.2	3.1	4.3	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	27.5	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.3
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.2	5.4	3.2
	35.0	3.9	3.0	4.0	3.1	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.2	5.3	3.1
	37.5	3.8	2.9	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.8	3.2	5.2	3.1
	40.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.5	3.1	4.8	3.1	5.1	3.1
	43.0	3.7	2.8	3.8	2.9	4.1	2.9	4.2	3.1	4.3	3.1	4.6	3.1	4.9	3.0
46.0	2.8	2.4	2.9	2.5	3.2	2.6	3.4	2.8	3.5	2.8	3.8	2.8	4.1	2.7	

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



### 3. Cooling [Ceiling cassette (1-way flow type)]

EP-YKM

#### 3-5. Cooling capacity with PUHY-EP850-900YSKM

PMFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.8	2.1	1.9	2.3	1.9	2.4	2.0	2.4	2.0	2.6	2.0	2.8	1.9
	22.5	2.1	1.8	2.1	1.9	2.3	1.8	2.3	2.0	2.4	2.0	2.6	2.0	2.7	1.9
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	27.5	2.0	1.8	2.1	1.8	2.2	1.8	2.3	2.0	2.4	2.0	2.5	1.9	2.7	1.9
	30.0	2.0	1.8	2.0	1.8	2.2	1.8	2.3	2.0	2.3	2.0	2.5	1.9	2.7	1.9
	32.5	2.0	1.8	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.9
	40.0	1.9	1.7	1.9	1.8	2.1	1.8	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.9
	43.0	1.9	1.7	1.9	1.8	2.1	1.8	2.1	1.9	2.2	1.9	2.4	1.9	2.5	1.9
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7	
25 (2.8)	20.0	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	22.5	2.6	2.2	2.7	2.3	2.9	2.3	3.0	2.4	3.1	2.4	3.3	2.4	3.5	2.4
	25.0	2.6	2.2	2.7	2.3	2.9	2.3	2.9	2.4	3.0	2.4	3.2	2.4	3.5	2.4
	27.5	2.6	2.2	2.6	2.3	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	30.0	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.3
	32.5	2.5	2.2	2.6	2.2	2.8	2.2	2.9	2.4	3.0	2.4	3.2	2.3	3.4	2.3
	35.0	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.1	2.3	3.3	2.3
	37.5	2.5	2.1	2.5	2.2	2.7	2.2	2.8	2.4	2.9	2.3	3.1	2.3	3.3	2.3
	40.0	2.4	2.1	2.5	2.2	2.7	2.2	2.8	2.3	2.9	2.3	3.1	2.3	3.3	2.3
	43.0	2.4	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3
46.0	1.9	1.9	1.9	1.9	2.1	1.9	2.2	2.1	2.3	2.1	2.5	2.1	2.7	2.1	
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.1	2.7	2.2	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.3	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.3
	27.5	4.1	3.1	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.3	5.1	3.3	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.1	4.4	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.2
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.2
	40.0	3.9	3.0	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.2	5.3	3.2
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.2	4.5	3.2	4.9	3.2	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

## 4-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.8	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.0	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.6	2.0	2.7	2.0
	27.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.1	2.4	2.0	2.5	2.0	2.7	2.0
	30.0	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	32.5	2.0	1.8	2.1	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	35.0	2.0	1.8	2.0	1.9	2.1	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.5	1.9
	37.5	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	40.0	1.9	1.8	2.0	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.4	1.9
	43.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	2.0	2.1	1.9	2.2	1.9	2.3	1.9
46.0	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.9	1.8	
25 (2.8)	20.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	27.5	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.7	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.3	2.2
	32.5	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.3	2.9	2.2	3.1	2.2	3.3	2.2
	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
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	40.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.1	3.1	2.1
	43.0	2.4	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
46.0	1.8	1.7	1.9	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9	
32 (3.6)	20.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	32.5	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.5	3.3	2.5	3.5	2.5	3.6	2.6	3.7	2.6	3.9	2.6	4.1	2.5
	37.5	3.2	2.4	3.3	2.5	3.4	2.5	3.5	2.6	3.6	2.6	3.8	2.5	4.0	2.5
	40.0	3.1	2.4	3.2	2.5	3.4	2.4	3.5	2.6	3.6	2.6	3.7	2.5	3.9	2.5
	43.0	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.6	2.5	3.8	2.4
46.0	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	2.9	2.2	3.2	2.2	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.1	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.3	3.0	4.4	3.1	4.6	3.0	4.8	3.2	4.9	3.1	5.2	3.1	5.5	3.0
	30.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.1	4.8	3.1	5.1	3.0	5.4	3.0
	32.5	4.1	2.9	4.2	3.0	4.5	2.9	4.6	3.1	4.7	3.1	5.0	3.0	5.3	3.0
	35.0	4.0	2.9	4.1	2.9	4.4	2.9	4.5	3.0	4.6	3.0	4.9	3.0	5.2	2.9
	37.5	4.0	2.8	4.1	2.9	4.3	2.9	4.4	3.0	4.5	3.0	4.8	2.9	5.0	2.9
	40.0	3.9	2.8	4.0	2.9	4.2	2.8	4.3	3.0	4.4	2.9	4.7	2.9	4.9	2.8
	43.0	3.8	2.7	3.9	2.8	4.1	2.8	4.2	2.9	4.3	2.9	4.5	2.8	4.8	2.8
46.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.5	3.5	2.5	3.7	2.5	4.0	2.5	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.1	6.6	4.0	7.1	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.1	6.6	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	3.9
	27.5	5.3	3.8	5.5	3.9	5.8	3.9	5.9	4.1	6.1	4.0	6.4	4.0	6.8	3.9
	30.0	5.2	3.8	5.4	3.9	5.7	3.8	5.8	4.0	6.0	4.0	6.3	3.9	6.7	3.8
	32.5	5.1	3.7	5.3	3.8	5.6	3.8	5.7	4.0	5.9	3.9	6.2	3.9	6.6	3.8
	35.0	5.0	3.7	5.2	3.8	5.5	3.7	5.6	3.9	5.8	3.9	6.1	3.8	6.4	3.7
	37.5	4.9	3.6	5.1	3.7	5.4	3.7	5.5	3.9	5.6	3.8	5.9	3.8	6.3	3.7
	40.0	4.8	3.6	5.0	3.7	5.3	3.6	5.4	3.8	5.5	3.8	5.8	3.7	6.1	3.6
	43.0	4.7	3.5	4.8	3.6	5.1	3.6	5.3	3.8	5.4	3.7	5.6	3.6	6.0	3.6
46.0	3.6	3.0	3.8	3.1	4.1	3.1	4.2	3.3	4.3	3.3	4.6	3.2	4.9	3.2	
63 (7.1)	20.0	6.7	4.7	7.0	4.9	7.5	4.8	7.7	5.1	7.9	5.1	8.4	5.0	9.0	4.9
	22.5	6.7	4.7	7.0	4.9	7.5	4.8	7.7	5.1	7.9	5.1	8.4	5.0	9.0	4.9
	25.0	6.7	4.7	7.0	4.9	7.5	4.8	7.7	5.1	7.9	5.0	8.3	4.9	8.8	4.9
	27.5	6.7	4.7	6.9	4.8	7.3	4.8	7.5	5.0	7.7	5.0	8.1	4.9	8.7	4.8
	30.0	6.6	4.7	6.8	4.8	7.2	4.7	7.4	4.9	7.6	4.9	8.0	4.8	8.5	4.7
	32.5	6.5	4.6	6.7	4.7	7.1	4.6	7.2	4.9	7.4	4.8	7.8	4.7	8.3	4.7
	35.0	6.4	4.5	6.5	4.6	6.9	4.6	7.1	4.8	7.3	4.8	7.7	4.7	8.1	4.6
	37.5	6.2	4.5	6.4	4.6	6.8	4.5	7.0	4.8	7.2	4.7	7.5	4.6	8.0	4.5
	40.0	6.1	4.4	6.3	4.5	6.7	4.5	6.8	4.7	7.0	4.7	7.4	4.6	7.8	4.5
	43.0	6.0	4.3	6.1	4.4	6.5	4.4	6.7	4.6	6.9	4.6	7.2	4.5	7.6	4.4
46.0	4.6	3.7	4.8	3.8	5.2	3.8	5.3	4.0	5.5	4.0	5.8	4.0	6.2	3.9	
80 (9.0)	20.0	8.6	6.2	8.9	6.4	9.5	6.4	9.7	6.8	10.0	6.7	10.6	6.6	11.4	6.6
	22.5	8.6	6.2	8.9	6.4	9.5	6.4	9.7	6.8	10.0	6.7	10.6	6.6	11.4	6.6
	25.0	8.6	6.2	8.9	6.4	9.5	6.4	9.7	6.7	10.0	6.7	10.5	6.6	11.2	6.5
	27.5	8.5	6.2	8.8	6.4	9.3	6.3	9.5	6.7	9.8	6.6	10.3	6.5	11.0	6.4
	30.0	8.4	6.2	8.6	6.3	9.1	6.3	9.4	6.6	9.6	6.5	10.1	6.4	10.8	6.3
	32.5	8.2	6.1	8.5	6.2	8.9	6.2	9.2	6.5	9.4	6.5	9.9	6.3	10.5	6.3
	35.0	8.1	6.0	8.3	6.2	8.8	6.1	9.0	6.4	9.2	6.4	9.7	6.3	10.3	6.2
	37.5	7.9	5.9	8.1	6.1	8.6	6.0	8.8	6.4	9.1	6.3	9.5	6.2	10.1	6.1
	40.0	7.7	5.8	8.0	6.0	8.4	5.9	8.7	6.3	8.9	6.2	9.3	6.1	9.9	6.0
	43.0	7.6	5.8	7.8	5.9	8.2	5.9	8.5	6.2	8.7	6.2	9.1	6.0	9.6	5.9
46.0	5.9	4.9	6.1	5.1	6.5	5.1	6.8	5.5	7.0	5.5	7.4	5.4	7.9	5.3	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.6	7.7	11.0	7.9	11.8	7.9	12.1	8.3	12.5	8.2	13.2	8.1	14.2	8.0
	22.5	10.6	7.7	11.0	7.9	11.8	7.9	12.1	8.3	12.5	8.2	13.2	8.1	14.2	8.0
	25.0	10.6	7.7	11.0	7.9	11.8	7.9	12.1	8.3	12.4	8.2	13.1	8.1	13.9	8.0
	27.5	10.6	7.7	10.9	7.9	11.6	7.8	11.9	8.2	12.2	8.1	12.9	8.0	13.7	7.9
	30.0	10.4	7.6	10.7	7.8	11.3	7.7	11.6	8.1	12.0	8.0	12.6	7.9	13.4	7.8
	32.5	10.2	7.5	10.5	7.7	11.1	7.6	11.4	8.0	11.7	7.9	12.4	7.8	13.1	7.7
	35.0	10.0	7.4	10.3	7.6	10.9	7.5	11.2	7.9	11.5	7.8	12.1	7.7	12.8	7.6
	37.5	9.8	7.3	10.1	7.5	10.7	7.4	11.0	7.8	11.3	7.7	11.9	7.6	12.6	7.5
	40.0	9.6	7.2	9.9	7.4	10.5	7.3	10.8	7.7	11.1	7.6	11.6	7.5	12.3	7.4
	43.0	9.4	7.1	9.7	7.3	10.2	7.2	10.5	7.6	10.8	7.5	11.3	7.4	12.0	7.2
46.0	7.3	6.0	7.6	6.3	8.1	6.3	8.4	6.7	8.7	6.7	9.2	6.6	9.8	6.5	
125 (14.0)	20.0	13.3	9.8	13.8	10.1	14.7	10.0	15.2	10.6	15.6	10.5	16.6	10.4	17.7	10.2
	22.5	13.3	9.8	13.8	10.1	14.7	10.0	15.2	10.6	15.6	10.5	16.6	10.4	17.7	10.2
	25.0	13.3	9.8	13.8	10.1	14.7	10.0	15.1	10.5	15.5	10.4	16.4	10.3	17.4	10.1
	27.5	13.3	9.7	13.6	10.0	14.4	9.9	14.8	10.4	15.2	10.3	16.1	10.2	17.1	10.0
	30.0	13.0	9.6	13.4	9.9	14.2	9.8	14.6	10.3	14.9	10.2	15.8	10.0	16.7	9.9
	32.5	12.8	9.5	13.2	9.8	13.9	9.6	14.3	10.2	14.7	10.1	15.4	9.9	16.4	9.8
	35.0	12.5	9.4	12.9	9.6	13.7	9.5	14.0	10.1	14.4	10.0	15.1	9.8	16.0	9.7
	37.5	12.3	9.3	12.7	9.5	13.4	9.4	13.8	9.9	14.1	9.9	14.8	9.7	15.7	9.5
	40.0	12.1	9.1	12.4	9.4	13.1	9.3	13.5	9.8	13.8	9.7	14.5	9.6	15.4	9.4
	43.0	11.8	9.0	12.1	9.3	12.8	9.1	13.2	9.7	13.5	9.6	14.1	9.4	15.0	9.3
46.0	9.1	7.7	9.5	8.0	10.2	8.0	10.5	8.6	10.9	8.6	11.5	8.4	12.3	8.4	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

## 4-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	2.0	2.4	2.0	2.5	2.1	2.5	2.1	2.7	2.1	2.9	2.0
	22.5	2.1	1.9	2.2	2.0	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.1	2.8	2.0
	25.0	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.6	2.0	2.8	2.0
	27.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.1	2.4	2.0	2.5	2.0	2.7	2.0
	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
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.9	2.2	2.0	2.3	2.0	2.4	2.0	2.5	1.9
	37.5	1.9	1.8	2.0	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	40.0	1.9	1.8	1.9	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.4	1.9
	43.0	1.9	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
46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.8
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	22.5	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.3	3.4	2.3	3.6	2.3
	25.0	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.8	2.3	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.1
	40.0	2.4	2.0	2.4	2.1	2.6	2.0	2.7	2.2	2.8	2.2	2.9	2.1	3.1	2.1
	43.0	2.4	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.1	2.8	2.1	3.0	2.1
46.0	1.8	1.8	1.8	1.8	2.0	1.8	2.1	2.0	2.2	1.9	2.3	1.9	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.2	2.8	4.4	2.8	4.7	2.7
	22.5	3.5	2.6	3.6	2.7	3.8	2.6	4.0	2.8	4.1	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.0	2.7	4.2	2.7	4.5	2.7
	27.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.6
	30.0	3.3	2.5	3.4	2.6	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	32.5	3.3	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.2	2.6
	35.0	3.2	2.4	3.3	2.5	3.5	2.5	3.6	2.6	3.7	2.6	3.9	2.6	4.2	2.5
	37.5	3.2	2.4	3.2	2.5	3.4	2.4	3.5	2.6	3.6	2.6	3.8	2.6	4.1	2.5
	40.0	3.1	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.5	2.6	3.8	2.5	4.0	2.5
	43.0	3.0	2.4	3.0	2.4	3.2	2.4	3.3	2.5	3.4	2.5	3.7	2.5	3.9	2.4
46.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.2	3.2	2.2	
40 (4.5)	20.0	4.4	3.0	4.5	3.1	4.9	3.1	5.0	3.3	5.2	3.3	5.5	3.2	5.8	3.2
	22.5	4.4	3.0	4.5	3.1	4.8	3.1	4.9	3.2	5.1	3.2	5.4	3.2	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.0	4.9	3.2	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.2	4.9	3.1	5.2	3.1	5.5	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.1	3.1	5.4	3.0
	32.5	4.1	2.9	4.2	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.0	3.0	5.3	3.0
	35.0	4.0	2.9	4.1	2.9	4.3	2.9	4.5	3.0	4.6	3.0	4.9	3.0	5.2	2.9
	37.5	3.9	2.8	4.0	2.9	4.2	2.8	4.4	3.0	4.5	3.0	4.8	2.9	5.1	2.9
	40.0	3.9	2.8	3.9	2.8	4.2	2.8	4.3	2.9	4.4	2.9	4.7	2.9	5.0	2.8
	43.0	3.8	2.7	3.8	2.8	4.0	2.7	4.2	2.9	4.3	2.9	4.6	2.8	4.8	2.8
46.0	2.9	2.3	3.0	2.4	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.5	4.0	2.5	
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.1	4.0	6.3	4.2	6.5	4.2	6.9	4.1	7.3	4.1
	22.5	5.4	3.9	5.6	4.0	6.0	3.9	6.2	4.2	6.3	4.1	6.7	4.1	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	27.5	5.3	3.8	5.4	3.9	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.7	3.9
	32.5	5.1	3.7	5.2	3.8	5.5	3.7	5.7	3.9	5.9	3.9	6.2	3.9	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.7	3.9	6.1	3.8	6.5	3.8
	37.5	4.9	3.6	5.0	3.7	5.3	3.6	5.5	3.8	5.6	3.8	6.0	3.8	6.3	3.7
	40.0	4.8	3.6	4.9	3.6	5.2	3.6	5.3	3.8	5.5	3.8	5.8	3.7	6.2	3.7
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.7	5.4	3.7	5.7	3.7	6.0	3.6
46.0	3.7	3.0	3.7	3.1	4.0	3.1	4.1	3.3	4.3	3.3	4.6	3.3	5.0	3.2	
63 (7.1)	20.0	6.9	4.8	7.1	4.9	7.7	4.9	7.9	5.2	8.2	5.2	8.7	5.1	9.2	5.0
	22.5	6.9	4.8	7.1	4.9	7.6	4.9	7.8	5.1	8.0	5.1	8.5	5.0	9.1	5.0
	25.0	6.8	4.7	7.0	4.8	7.4	4.8	7.7	5.1	7.9	5.0	8.4	5.0	8.9	4.9
	27.5	6.7	4.7	6.8	4.8	7.3	4.8	7.5	5.0	7.7	5.0	8.2	4.9	8.7	4.8
	30.0	6.5	4.6	6.7	4.7	7.1	4.7	7.4	4.9	7.6	4.9	8.1	4.8	8.5	4.8
	32.5	6.4	4.6	6.6	4.6	7.0	4.6	7.2	4.9	7.4	4.8	7.9	4.8	8.4	4.7
	35.0	6.3	4.5	6.4	4.6	6.8	4.5	7.1	4.8	7.3	4.8	7.7	4.7	8.2	4.6
	37.5	6.2	4.5	6.3	4.5	6.7	4.5	6.9	4.7	7.1	4.7	7.6	4.6	8.0	4.6
	40.0	6.1	4.4	6.2	4.4	6.6	4.4	6.8	4.7	7.0	4.6	7.4	4.6	7.8	4.5
	43.0	6.0	4.3	6.0	4.4	6.4	4.3	6.6	4.6	6.8	4.6	7.2	4.5	7.6	4.4
46.0	4.6	3.7	4.7	3.7	5.0	3.7	5.2	4.0	5.5	4.0	5.9	4.0	6.3	3.9	
80 (9.0)	20.0	8.7	6.3	9.0	6.5	9.7	6.5	10.1	6.9	10.4	6.9	11.0	6.8	11.7	6.7
	22.5	8.7	6.3	9.0	6.5	9.6	6.5	9.9	6.8	10.2	6.8	10.8	6.7	11.5	6.6
	25.0	8.6	6.3	8.8	6.4	9.4	6.4	9.7	6.7	10.0	6.7	10.6	6.6	11.3	6.5
	27.5	8.4	6.2	8.6	6.3	9.2	6.3	9.5	6.7	9.8	6.6	10.4	6.5	11.0	6.4
	30.0	8.3	6.1	8.5	6.3	9.0	6.2	9.3	6.6	9.6	6.5	10.2	6.5	10.8	6.4
	32.5	8.2	6.1	8.3	6.2	8.9	6.1	9.1	6.5	9.4	6.5	10.0	6.4	10.6	6.3
	35.0	8.0	6.0	8.1	6.1	8.7	6.0	9.0	6.4	9.2	6.4	9.8	6.3	10.4	6.2
	37.5	7.9	5.9	8.0	6.0	8.5	6.0	8.8	6.3	9.0	6.3	9.6	6.2	10.2	6.1
	40.0	7.7	5.8	7.8	5.9	8.3	5.9	8.6	6.3	8.8	6.2	9.4	6.1	9.9	6.0
	43.0	7.6	5.8	7.6	5.8	8.1	5.8	8.4	6.2	8.6	6.1	9.1	6.0	9.7	6.0
46.0	5.9	5.0	5.9	5.1	6.4	5.1	6.7	5.5	6.9	5.4	7.4	5.4	8.0	5.4	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

CT

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.9	7.8	11.3	8.0	12.1	8.0	12.5	8.5	12.9	8.4	13.7	8.3	14.5	8.2
	22.5	10.8	7.8	11.2	8.0	11.9	7.9	12.3	8.4	12.7	8.3	13.5	8.2	14.3	8.1
	25.0	10.7	7.7	11.0	7.9	11.7	7.8	12.1	8.3	12.5	8.2	13.2	8.1	14.0	8.0
	27.5	10.5	7.6	10.8	7.8	11.5	7.7	11.8	8.2	12.2	8.1	13.0	8.0	13.7	7.9
	30.0	10.3	7.5	10.6	7.7	11.2	7.6	11.6	8.1	12.0	8.0	12.7	7.9	13.5	7.8
	32.5	10.2	7.4	10.3	7.6	11.0	7.5	11.4	8.0	11.7	7.9	12.4	7.8	13.2	7.7
	35.0	10.0	7.3	10.1	7.5	10.8	7.4	11.2	7.9	11.5	7.8	12.2	7.7	12.9	7.6
	37.5	9.8	7.3	9.9	7.4	10.6	7.3	10.9	7.7	11.2	7.7	11.9	7.6	12.6	7.5
	40.0	9.6	7.2	9.7	7.3	10.3	7.2	10.7	7.6	11.0	7.6	11.7	7.5	12.4	7.4
	43.0	9.4	7.1	9.5	7.1	10.1	7.1	10.4	7.5	10.7	7.5	11.4	7.4	12.1	7.3
46.0	7.3	6.1	7.3	6.2	8.0	6.2	8.3	6.6	8.6	6.6	9.3	6.6	9.9	6.5	
125 (14.0)	20.0	13.6	9.9	14.1	10.2	15.1	10.2	15.7	10.8	16.2	10.7	17.2	10.6	18.2	10.4
	22.5	13.6	9.9	14.0	10.2	14.9	10.1	15.4	10.7	15.9	10.6	16.8	10.5	17.8	10.3
	25.0	13.3	9.8	13.7	10.0	14.6	10.0	15.1	10.5	15.6	10.5	16.5	10.3	17.5	10.2
	27.5	13.1	9.7	13.5	9.9	14.3	9.8	14.8	10.4	15.3	10.3	16.2	10.2	17.2	10.1
	30.0	12.9	9.6	13.2	9.8	14.1	9.7	14.5	10.3	15.0	10.2	15.9	10.1	16.8	9.9
	32.5	12.7	9.4	12.9	9.6	13.8	9.6	14.2	10.1	14.7	10.1	15.6	10.0	16.5	9.8
	35.0	12.5	9.3	12.7	9.5	13.5	9.4	14.0	10.1	14.4	10.0	15.2	9.8	16.2	9.7
	37.5	12.3	9.2	12.4	9.4	13.2	9.3	13.6	9.9	14.1	9.8	14.9	9.7	15.8	9.6
	40.0	12.0	9.1	12.2	9.3	12.9	9.2	13.3	9.8	13.8	9.7	14.6	9.6	15.5	9.4
	43.0	11.8	9.0	11.8	9.1	12.6	9.0	13.0	9.6	13.4	9.6	14.2	9.5	15.1	9.3
46.0	9.1	7.8	9.2	7.9	9.9	7.9	10.3	8.5	10.8	8.5	11.6	8.5	12.4	8.4	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

## 4-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.6	2.0	2.8	2.0
	22.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.1	2.4	2.0	2.6	2.0	2.7	2.0
	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	2.7	2.0
	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	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.7	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	37.5	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	2.0
	40.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	2.0	2.6	1.9
	43.0	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	2.0	2.5	1.9
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.8	2.1	1.8	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.2
	27.5	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
46.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.5	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.3	2.5	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	35.0	3.2	2.4	3.3	2.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.0	4.8	3.2	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.2	4.9	3.2	5.3	3.1	5.6	3.1
	25.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.1	4.9	3.1	5.2	3.1	5.6	3.1
	27.5	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.2	3.1	5.5	3.0
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.6	3.1	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.9	4.1	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.1	3.0	5.4	3.0
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	3.0
	37.5	4.0	2.8	4.0	2.9	4.3	2.9	4.5	3.0	4.6	3.0	5.0	3.0	5.3	3.0
	40.0	3.9	2.8	4.0	2.8	4.3	2.8	4.4	3.0	4.6	3.0	4.9	3.0	5.3	3.0
	43.0	3.9	2.8	3.9	2.8	4.2	2.8	4.4	3.0	4.5	3.0	4.9	3.0	5.2	2.9
46.0	3.0	2.3	3.1	2.4	3.4	2.4	3.5	2.6	3.7	2.6	4.0	2.6	4.4	2.6	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	22.5	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.0	6.6	4.0	7.0	4.0
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.9	3.9
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.7	5.1	3.7	5.5	3.7	5.7	4.0	5.9	3.9	6.3	3.9	6.7	3.9
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.6	3.8
	40.0	4.9	3.6	4.9	3.6	5.3	3.6	5.5	3.9	5.7	3.9	6.1	3.8	6.5	3.8
	43.0	4.8	3.5	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.8
46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.4	4.6	3.4	5.0	3.4	5.4	3.4	
63 (7.1)	20.0	6.7	4.7	6.9	4.8	7.4	4.8	7.6	5.1	7.9	5.0	8.4	5.0	8.9	4.9
	22.5	6.6	4.7	6.8	4.8	7.3	4.8	7.6	5.0	7.8	5.0	8.3	4.9	8.8	4.9
	25.0	6.6	4.6	6.8	4.7	7.2	4.7	7.5	5.0	7.7	5.0	8.2	4.9	8.8	4.9
	27.5	6.5	4.6	6.7	4.7	7.2	4.7	7.4	4.9	7.6	4.9	8.2	4.9	8.7	4.8
	30.0	6.4	4.6	6.6	4.7	7.1	4.7	7.3	4.9	7.6	4.9	8.1	4.8	8.6	4.8
	32.5	6.4	4.5	6.5	4.6	7.0	4.6	7.2	4.9	7.5	4.9	8.0	4.8	8.5	4.8
	35.0	6.3	4.5	6.4	4.6	6.9	4.6	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.7
	37.5	6.2	4.5	6.3	4.5	6.8	4.5	7.1	4.8	7.3	4.8	7.8	4.8	8.4	4.7
	40.0	6.2	4.4	6.3	4.5	6.7	4.5	7.0	4.8	7.2	4.8	7.8	4.7	8.3	4.7
	43.0	6.1	4.4	6.2	4.5	6.7	4.5	6.9	4.7	7.1	4.7	7.7	4.7	8.2	4.6
46.0	4.7	3.7	4.8	3.8	5.3	3.9	5.6	4.1	5.8	4.1	6.3	4.2	6.9	4.1	
80 (9.0)	20.0	8.5	6.2	8.8	6.4	9.4	6.4	9.7	6.7	10.0	6.7	10.6	6.6	11.3	6.5
	22.5	8.4	6.2	8.7	6.3	9.3	6.3	9.6	6.7	9.9	6.7	10.5	6.6	11.2	6.5
	25.0	8.3	6.1	8.6	6.3	9.2	6.3	9.5	6.6	9.8	6.6	10.4	6.5	11.1	6.5
	27.5	8.3	6.1	8.5	6.2	9.1	6.2	9.4	6.6	9.7	6.6	10.3	6.5	11.0	6.4
	30.0	8.2	6.1	8.4	6.2	9.0	6.2	9.3	6.6	9.6	6.5	10.2	6.5	10.9	6.4
	32.5	8.1	6.0	8.3	6.1	8.9	6.1	9.2	6.5	9.5	6.5	10.1	6.4	10.8	6.4
	35.0	8.0	6.0	8.1	6.1	8.8	6.1	9.0	6.4	9.4	6.4	10.0	6.4	10.7	6.3
	37.5	7.9	5.9	8.0	6.1	8.7	6.0	9.0	6.4	9.3	6.4	9.9	6.4	10.6	6.3
	40.0	7.8	5.9	7.9	6.0	8.6	6.0	8.9	6.4	9.2	6.4	9.8	6.3	10.5	6.3
	43.0	7.7	5.8	7.8	5.9	8.4	5.9	8.7	6.3	9.1	6.3	9.7	6.3	10.4	6.2
46.0	6.0	5.0	6.1	5.2	6.7	5.2	7.0	5.6	7.4	5.6	8.0	5.6	8.7	5.6	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.6	7.6	10.9	7.8	11.7	7.8	12.0	8.3	12.4	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.6	10.8	7.8	11.5	7.8	11.9	8.2	12.3	8.2	13.1	8.1	13.9	8.0
	25.0	10.4	7.5	10.6	7.7	11.4	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	27.5	10.3	7.5	10.5	7.7	11.3	7.6	11.7	8.1	12.1	8.1	12.9	8.0	13.7	7.9
	30.0	10.2	7.4	10.4	7.6	11.2	7.6	11.5	8.0	11.9	8.0	12.7	7.9	13.6	7.8
	32.5	10.1	7.4	10.3	7.5	11.0	7.5	11.4	8.0	11.8	7.9	12.6	7.9	13.5	7.8
	35.0	9.9	7.3	10.1	7.5	10.9	7.5	11.2	7.9	11.7	7.9	12.5	7.8	13.3	7.7
	37.5	9.8	7.3	10.0	7.4	10.8	7.4	11.2	7.9	11.6	7.8	12.4	7.8	13.2	7.7
	40.0	9.7	7.2	9.9	7.4	10.6	7.3	11.0	7.8	11.4	7.8	12.2	7.7	13.1	7.7
	43.0	9.6	7.2	9.7	7.3	10.5	7.3	10.9	7.7	11.3	7.7	12.1	7.7	12.9	7.6
46.0	9.5	7.1	9.6	7.2	10.4	7.2	10.8	7.6	11.2	7.6	12.0	7.6	12.8	7.5	
125 (14.0)	20.0	13.2	9.7	13.6	10.0	14.6	9.9	15.1	10.5	15.5	10.5	16.5	10.3	17.6	10.2
	22.5	13.1	9.7	13.5	9.9	14.4	9.9	14.9	10.4	15.4	10.4	16.4	10.3	17.4	10.2
	25.0	13.0	9.6	13.3	9.8	14.3	9.8	14.7	10.4	15.2	10.3	16.2	10.2	17.3	10.1
	27.5	12.8	9.5	13.2	9.8	14.1	9.7	14.6	10.3	15.1	10.3	16.1	10.2	17.1	10.0
	30.0	12.7	9.5	13.0	9.7	13.9	9.6	14.4	10.2	14.9	10.2	15.9	10.1	17.0	10.0
	32.5	12.6	9.4	12.8	9.6	13.8	9.6	14.3	10.2	14.8	10.1	15.8	10.0	16.8	9.9
	35.0	12.4	9.3	12.7	9.5	13.6	9.5	14.0	10.1	14.6	10.1	15.6	10.0	16.7	9.9
	37.5	12.3	9.3	12.5	9.4	13.5	9.4	14.0	10.0	14.4	10.0	15.5	9.9	16.5	9.8
	40.0	12.2	9.2	12.4	9.4	13.3	9.4	13.8	10.0	14.3	9.9	15.3	9.9	16.4	9.8
	43.0	12.0	9.1	12.2	9.3	13.1	9.3	13.6	9.9	14.1	9.9	15.1	9.8	16.2	9.7
46.0	11.9	9.0	12.1	9.2	13.0	9.2	13.5	9.8	14.0	9.8	15.0	9.7	16.1	9.6	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

## 4-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.2	2.0	2.4	1.9	2.4	2.1	2.5	2.1	2.7	2.1	2.9	2.0
	22.5	2.1	1.9	2.2	1.9	2.3	1.9	2.4	2.1	2.5	2.1	2.6	2.1	2.8	2.0
	25.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.6	2.0	2.8	2.0
	27.5	2.0	1.8	2.1	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.4	2.0	2.5	2.0	2.7	2.0
	32.5	1.9	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	1.9
	37.5	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	2.0	2.5	1.9
	40.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9
	43.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	1.9	2.1	1.9	2.3	1.9	2.4	1.9
46.0	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.7	1.7	1.9	1.8	2.0	1.8	
25 (2.8)	20.0	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.7	2.3
	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
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.0	2.6	2.1	2.7	2.1	2.8	2.3	2.9	2.2	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	43.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.1	2.1
46.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.4	2.0	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.8	4.1	2.8	4.4	2.8	4.7	2.7
	22.5	3.4	2.6	3.5	2.6	3.8	2.6	3.9	2.8	4.1	2.8	4.3	2.7	4.6	2.7
	25.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.5	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.5	2.7
	30.0	3.2	2.5	3.4	2.5	3.6	2.5	3.7	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.0	2.6	4.3	2.6
	35.0	3.1	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.1	2.5
	40.0	3.0	2.4	3.1	2.4	3.3	2.4	3.4	2.6	3.6	2.6	3.8	2.5	4.0	2.5
	43.0	2.9	2.3	3.0	2.4	3.2	2.4	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.5
46.0	2.3	2.0	2.3	2.1	2.6	2.1	2.7	2.3	2.8	2.3	3.0	2.3	3.3	2.2	
40 (4.5)	20.0	4.3	3.0	4.5	3.1	4.8	3.1	5.0	3.3	5.2	3.3	5.5	3.2	5.9	3.2
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.1	3.2	5.4	3.2	5.8	3.1
	25.0	4.2	3.0	4.3	3.0	4.7	3.0	4.8	3.2	5.0	3.2	5.3	3.2	5.7	3.1
	27.5	4.1	2.9	4.3	3.0	4.6	3.0	4.7	3.1	4.9	3.1	5.2	3.1	5.6	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	2.9	4.7	3.1	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.8	4.1	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.0	3.0	5.4	3.0
	35.0	3.9	2.8	4.0	2.9	4.3	2.9	4.5	3.0	4.6	3.0	4.9	3.0	5.3	3.0
	37.5	3.8	2.8	4.0	2.8	4.2	2.8	4.4	3.0	4.5	3.0	4.8	3.0	5.2	2.9
	40.0	3.8	2.7	3.9	2.8	4.2	2.8	4.3	2.9	4.5	2.9	4.8	2.9	5.1	2.9
	43.0	3.7	2.7	3.8	2.7	4.1	2.7	4.2	2.9	4.3	2.9	4.6	2.9	4.9	2.8
46.0	2.8	2.3	2.9	2.3	3.2	2.4	3.4	2.5	3.5	2.5	3.8	2.5	4.1	2.5	
50 (5.6)	20.0	5.4	3.9	5.6	4.0	6.0	4.0	6.2	4.2	6.4	4.2	6.9	4.1	7.3	4.1
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.3	4.1	6.7	4.1	7.2	4.0
	25.0	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	27.5	5.1	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	30.0	5.0	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.8	6.5	3.8
	37.5	4.8	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.7	3.8	6.0	3.8	6.4	3.7
	40.0	4.7	3.5	4.8	3.6	5.2	3.6	5.4	3.8	5.5	3.8	5.9	3.7	6.3	3.7
	43.0	4.6	3.4	4.7	3.5	5.1	3.5	5.2	3.7	5.4	3.7	5.8	3.7	6.1	3.6
46.0	3.5	2.9	3.6	3.0	4.0	3.1	4.2	3.3	4.4	3.3	4.7	3.3	5.1	3.3	
63 (7.1)	20.0	6.9	4.8	7.1	4.9	7.6	4.9	7.9	5.2	8.2	5.2	8.7	5.1	9.3	5.0
	22.5	6.7	4.7	7.0	4.9	7.5	4.9	7.8	5.1	8.0	5.1	8.6	5.0	9.1	5.0
	25.0	6.6	4.7	6.9	4.8	7.4	4.8	7.6	5.1	7.9	5.0	8.4	5.0	8.9	4.9
	27.5	6.5	4.6	6.7	4.7	7.2	4.7	7.5	5.0	7.7	5.0	8.3	4.9	8.8	4.9
	30.0	6.4	4.5	6.6	4.7	7.1	4.7	7.3	4.9	7.6	4.9	8.1	4.9	8.6	4.8
	32.5	6.3	4.5	6.5	4.6	7.0	4.6	7.2	4.9	7.5	4.8	7.9	4.8	8.5	4.7
	35.0	6.2	4.4	6.4	4.5	6.8	4.5	7.1	4.8	7.3	4.8	7.8	4.7	8.3	4.7
	37.5	6.1	4.4	6.2	4.5	6.7	4.5	6.9	4.7	7.2	4.7	7.6	4.7	8.1	4.6
	40.0	5.9	4.3	6.1	4.4	6.6	4.4	6.8	4.7	7.0	4.7	7.5	4.6	8.0	4.6
	43.0	5.8	4.2	6.0	4.3	6.4	4.3	6.6	4.6	6.9	4.6	7.3	4.5	7.8	4.5
46.0	4.5	3.6	4.6	3.7	5.1	3.7	5.3	4.0	5.5	4.0	6.0	4.0	6.4	4.0	
80 (9.0)	20.0	8.7	6.3	9.0	6.5	9.7	6.5	10.0	6.9	10.3	6.9	11.0	6.8	11.7	6.7
	22.5	8.5	6.2	8.9	6.4	9.5	6.4	9.8	6.8	10.2	6.8	10.8	6.7	11.5	6.6
	25.0	8.4	6.2	8.7	6.4	9.3	6.3	9.7	6.7	10.0	6.7	10.6	6.6	11.3	6.5
	27.5	8.3	6.1	8.5	6.3	9.2	6.3	9.5	6.6	9.8	6.6	10.5	6.6	11.1	6.5
	30.0	8.1	6.0	8.4	6.2	9.0	6.2	9.3	6.6	9.6	6.5	10.3	6.5	10.9	6.4
	32.5	8.0	6.0	8.2	6.1	8.8	6.1	9.1	6.5	9.4	6.5	10.1	6.4	10.7	6.3
	35.0	7.8	5.9	8.1	6.1	8.7	6.0	9.0	6.4	9.3	6.4	9.9	6.3	10.5	6.2
	37.5	7.7	5.8	7.9	6.0	8.5	6.0	8.8	6.3	9.1	6.3	9.7	6.3	10.3	6.2
	40.0	7.5	5.7	7.7	5.9	8.3	5.9	8.6	6.3	8.9	6.2	9.5	6.2	10.1	6.1
	43.0	7.4	5.7	7.6	5.8	8.1	5.8	8.4	6.2	8.7	6.2	9.3	6.1	9.9	6.0
46.0	5.7	4.9	5.9	5.0	6.4	5.1	6.7	5.5	7.0	5.5	7.6	5.5	8.2	5.4	

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



# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.8	7.8	11.2	8.0	12.0	8.0	12.5	8.4	12.9	8.4	13.7	8.3	14.6	8.2
	22.5	10.6	7.7	11.0	7.9	11.8	7.9	12.2	8.3	12.6	8.3	13.5	8.2	14.4	8.1
	25.0	10.5	7.6	10.8	7.8	11.6	7.8	12.0	8.2	12.4	8.2	13.3	8.1	14.1	8.0
	27.5	10.3	7.5	10.6	7.7	11.4	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	30.0	10.1	7.4	10.4	7.6	11.2	7.6	11.6	8.0	12.0	8.0	12.8	7.9	13.6	7.8
	32.5	9.9	7.3	10.2	7.5	11.0	7.5	11.4	8.0	11.8	7.9	12.5	7.8	13.3	7.7
	35.0	9.7	7.2	10.0	7.4	10.8	7.4	11.2	7.9	11.5	7.8	12.3	7.8	13.1	7.6
	37.5	9.5	7.1	9.8	7.3	10.6	7.3	10.9	7.8	11.3	7.7	12.1	7.7	12.8	7.6
	40.0	9.4	7.0	9.6	7.2	10.4	7.2	10.7	7.7	11.1	7.6	11.8	7.6	12.6	7.5
	43.0	9.2	6.9	9.4	7.1	10.1	7.1	10.5	7.6	10.8	7.5	11.5	7.5	12.3	7.4
46.0	7.0	5.9	7.3	6.1	8.0	6.2	8.3	6.7	8.7	6.7	9.4	6.7	10.2	6.6	
125 (14.0)	20.0	13.5	9.9	14.0	10.2	15.0	10.2	15.6	10.7	16.1	10.7	17.2	10.6	18.3	10.5
	22.5	13.3	9.8	13.8	10.1	14.8	10.0	15.3	10.6	15.8	10.6	16.9	10.5	17.9	10.3
	25.0	13.1	9.6	13.5	9.9	14.5	9.9	15.0	10.5	15.5	10.5	16.6	10.4	17.6	10.2
	27.5	12.8	9.5	13.3	9.8	14.3	9.8	14.8	10.4	15.3	10.3	16.3	10.2	17.3	10.1
	30.0	12.6	9.4	13.0	9.7	14.0	9.7	14.5	10.3	15.0	10.2	16.0	10.1	17.0	10.0
	32.5	12.4	9.3	12.8	9.6	13.7	9.6	14.2	10.1	14.7	10.1	15.7	10.0	16.7	9.9
	35.0	12.2	9.2	12.5	9.5	13.5	9.4	14.0	10.1	14.4	10.0	15.4	9.9	16.4	9.8
	37.5	11.9	9.1	12.3	9.3	13.2	9.3	13.7	9.9	14.1	9.9	15.1	9.8	16.0	9.7
	40.0	11.7	9.0	12.1	9.2	12.9	9.2	13.4	9.8	13.9	9.8	14.8	9.7	15.7	9.5
	43.0	11.4	8.8	11.8	9.1	12.6	9.1	13.1	9.7	13.5	9.6	14.4	9.5	15.4	9.4
46.0	8.8	7.6	9.1	7.9	10.0	7.9	10.4	8.6	10.9	8.6	11.8	8.5	12.7	8.5	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

CT

## 4-5. Cooling capacity with PUHY-EP850-900YSKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.9	2.1	1.9	2.3	1.9	2.4	2.1	2.4	2.1	2.6	2.0	2.8	2.0
	22.5	2.1	1.9	2.1	1.9	2.3	1.9	2.3	2.1	2.4	2.0	2.6	2.0	2.7	2.0
	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	2.7	2.0
	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	2.7	2.0
	30.0	2.0	1.8	2.0	1.9	2.2	1.9	2.3	2.0	2.3	2.0	2.5	2.0	2.7	2.0
	32.5	2.0	1.8	2.0	1.9	2.2	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	35.0	2.0	1.8	2.0	1.9	2.1	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.6	2.0
	37.5	1.9	1.8	2.0	1.9	2.1	1.8	2.2	2.0	2.3	2.0	2.4	2.0	2.6	2.0
	40.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.2	2.0	2.4	2.0	2.6	1.9
	43.0	1.9	1.8	1.9	1.8	2.1	1.8	2.1	2.0	2.2	2.0	2.4	2.0	2.5	1.9
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	2.0	1.8	2.1	1.8	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.2
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.2
	27.5	2.6	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
46.0	1.9	1.8	1.9	1.8	2.1	1.8	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.8	4.0	2.7	4.3	2.7	4.5	2.7
	22.5	3.4	2.5	3.5	2.6	3.7	2.6	3.8	2.7	4.0	2.7	4.2	2.7	4.5	2.7
	25.0	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.7	3.9	2.7	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.5	3.8	2.7	3.9	2.7	4.1	2.7	4.4	2.6
	30.0	3.3	2.5	3.3	2.5	3.6	2.5	3.7	2.7	3.8	2.7	4.1	2.7	4.4	2.6
	32.5	3.2	2.5	3.3	2.5	3.5	2.5	3.7	2.7	3.8	2.7	4.1	2.6	4.3	2.6
	35.0	3.2	2.4	3.3	2.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.6	4.3	2.6
	37.5	3.2	2.4	3.2	2.5	3.5	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.6	3.7	2.6	3.9	2.6	4.2	2.6
	43.0	3.1	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.6	2.6	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.2	2.3	3.5	2.3	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.0	4.8	3.2	5.0	3.2	5.3	3.1	5.7	3.1
	22.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.2	4.9	3.2	5.3	3.1	5.6	3.1
	25.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.1	4.9	3.1	5.2	3.1	5.6	3.1
	27.5	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.2	3.1	5.5	3.0
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.6	3.1	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.9	4.1	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.1	3.0	5.4	3.0
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	3.0
	37.5	4.0	2.8	4.0	2.9	4.3	2.9	4.5	3.0	4.6	3.0	5.0	3.0	5.3	3.0
	40.0	3.9	2.8	4.0	2.8	4.3	2.8	4.4	3.0	4.6	3.0	4.9	3.0	5.3	3.0
	43.0	3.9	2.8	3.9	2.8	4.2	2.8	4.4	3.0	4.5	3.0	4.9	3.0	5.2	2.9
46.0	3.0	2.3	3.1	2.4	3.4	2.4	3.5	2.6	3.7	2.6	4.0	2.6	4.4	2.6	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.1	6.6	4.0	7.0	4.0
	22.5	5.2	3.8	5.4	3.9	5.8	3.9	6.0	4.1	6.2	4.0	6.6	4.0	7.0	4.0
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	4.0	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	4.0	6.9	3.9
	30.0	5.1	3.7	5.2	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.8	3.9
	32.5	5.0	3.7	5.1	3.7	5.5	3.7	5.7	4.0	5.9	3.9	6.3	3.9	6.7	3.9
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.7	3.8
	37.5	4.9	3.6	5.0	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.9	6.6	3.8
	40.0	4.9	3.6	4.9	3.6	5.3	3.6	5.5	3.9	5.7	3.9	6.1	3.8	6.5	3.8
	43.0	4.8	3.5	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.8
46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.4	4.6	3.4	5.0	3.4	5.4	3.4	
63 (7.1)	20.0	6.7	4.7	6.9	4.8	7.4	4.8	7.6	5.1	7.9	5.0	8.4	5.0	8.9	4.9
	22.5	6.6	4.7	6.8	4.8	7.3	4.8	7.6	5.0	7.8	5.0	8.3	4.9	8.8	4.9
	25.0	6.6	4.6	6.8	4.7	7.2	4.7	7.5	5.0	7.7	5.0	8.2	4.9	8.8	4.9
	27.5	6.5	4.6	6.7	4.7	7.2	4.7	7.4	4.9	7.6	4.9	8.2	4.9	8.7	4.8
	30.0	6.4	4.6	6.6	4.7	7.1	4.7	7.3	4.9	7.6	4.9	8.1	4.8	8.6	4.8
	32.5	6.4	4.5	6.5	4.6	7.0	4.6	7.2	4.9	7.5	4.9	8.0	4.8	8.5	4.8
	35.0	6.3	4.5	6.4	4.6	6.9	4.6	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.7
	37.5	6.2	4.5	6.3	4.5	6.8	4.5	7.1	4.8	7.3	4.8	7.8	4.8	8.4	4.7
	40.0	6.2	4.4	6.3	4.5	6.7	4.5	7.0	4.8	7.2	4.8	7.8	4.7	8.3	4.7
	43.0	6.1	4.4	6.2	4.5	6.7	4.5	6.9	4.7	7.1	4.7	7.7	4.7	8.2	4.6
46.0	4.7	3.7	4.8	3.8	5.3	3.9	5.6	4.1	5.8	4.1	6.3	4.2	6.9	4.1	
80 (9.0)	20.0	8.5	6.2	8.8	6.4	9.4	6.4	9.7	6.7	10.0	6.7	10.6	6.6	11.3	6.5
	22.5	8.4	6.2	8.7	6.3	9.3	6.3	9.6	6.7	9.9	6.7	10.5	6.6	11.2	6.5
	25.0	8.3	6.1	8.6	6.3	9.2	6.3	9.5	6.6	9.8	6.6	10.4	6.5	11.1	6.5
	27.5	8.3	6.1	8.5	6.2	9.1	6.2	9.4	6.6	9.7	6.6	10.3	6.5	11.0	6.4
	30.0	8.2	6.1	8.4	6.2	9.0	6.2	9.3	6.6	9.6	6.5	10.2	6.5	10.9	6.4
	32.5	8.1	6.0	8.3	6.1	8.9	6.1	9.2	6.5	9.5	6.5	10.1	6.4	10.8	6.4
	35.0	8.0	6.0	8.1	6.1	8.8	6.1	9.0	6.4	9.4	6.4	10.0	6.4	10.7	6.3
	37.5	7.9	5.9	8.0	6.1	8.7	6.0	9.0	6.4	9.3	6.4	9.9	6.4	10.6	6.3
	40.0	7.8	5.9	7.9	6.0	8.6	6.0	8.9	6.4	9.2	6.4	9.8	6.3	10.5	6.3
	43.0	7.7	5.8	7.8	5.9	8.4	5.9	8.7	6.3	9.1	6.3	9.7	6.3	10.4	6.2
46.0	6.0	5.0	6.1	5.2	6.7	5.2	7.0	5.6	7.4	5.6	8.0	5.6	8.7	5.6	

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

# 4. Cooling [Ceiling cassette (2-way flow type)]

EP-YKM

PLFY-P-VLMD-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
100 (11.2)	20.0	10.6	7.6	10.9	7.8	11.7	7.8	12.0	8.3	12.4	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.6	10.8	7.8	11.5	7.8	11.9	8.2	12.3	8.2	13.1	8.1	13.9	8.0
	25.0	10.4	7.5	10.6	7.7	11.4	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	27.5	10.3	7.5	10.5	7.7	11.3	7.6	11.7	8.1	12.1	8.1	12.9	8.0	13.7	7.9
	30.0	10.2	7.4	10.4	7.6	11.2	7.6	11.5	8.0	11.9	8.0	12.7	7.9	13.6	7.8
	32.5	10.1	7.4	10.3	7.5	11.0	7.5	11.4	8.0	11.8	7.9	12.6	7.9	13.5	7.8
	35.0	9.9	7.3	10.1	7.5	10.9	7.5	11.2	7.9	11.7	7.9	12.5	7.8	13.3	7.7
	37.5	9.8	7.3	10.0	7.4	10.8	7.4	11.2	7.9	11.6	7.8	12.4	7.8	13.2	7.7
	40.0	9.7	7.2	9.9	7.4	10.6	7.3	11.0	7.8	11.4	7.8	12.2	7.7	13.1	7.7
	43.0	9.6	7.2	9.7	7.3	10.5	7.3	10.9	7.7	11.3	7.7	12.1	7.7	12.9	7.6
46.0	9.5	7.1	9.6	7.2	10.4	7.2	10.8	7.6	11.2	7.6	12.0	7.6	12.8	7.5	
125 (14.0)	20.0	13.2	9.7	13.6	10.0	14.6	9.9	15.1	10.5	15.5	10.5	16.5	10.3	17.6	10.2
	22.5	13.1	9.7	13.5	9.9	14.4	9.9	14.9	10.4	15.4	10.4	16.4	10.3	17.4	10.2
	25.0	13.0	9.6	13.3	9.8	14.3	9.8	14.7	10.4	15.2	10.3	16.2	10.2	17.3	10.1
	27.5	12.8	9.5	13.2	9.8	14.1	9.7	14.6	10.3	15.1	10.3	16.1	10.2	17.1	10.0
	30.0	12.7	9.5	13.0	9.7	13.9	9.6	14.4	10.2	14.9	10.2	15.9	10.1	17.0	10.0
	32.5	12.6	9.4	12.8	9.6	13.8	9.6	14.3	10.2	14.8	10.1	15.8	10.0	16.8	9.9
	35.0	12.4	9.3	12.7	9.5	13.6	9.5	14.0	10.1	14.6	10.1	15.6	10.0	16.7	9.9
	37.5	12.3	9.3	12.5	9.4	13.5	9.4	14.0	10.0	14.4	10.0	15.5	9.9	16.5	9.8
	40.0	12.2	9.2	12.4	9.4	13.3	9.4	13.8	10.0	14.3	9.9	15.3	9.9	16.4	9.8
	43.0	12.0	9.1	12.2	9.3	13.1	9.3	13.6	9.9	14.1	9.9	15.1	9.8	16.2	9.7
46.0	11.9	9.0	12.1	9.2	13.0	9.2	13.5	9.8	14.0	9.8	15.0	9.7	16.1	9.6	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

## 5-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PLFY-P-VCM-E2

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	32.5	1.6	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.5	1.4	1.6	1.4	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.5
46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	
20 (2.2)	20.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.7	1.9
	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
	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
	32.5	2.0	1.7	2.1	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.8	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.7	2.2	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	2.0	1.8	2.1	1.7	2.1	1.9	2.2	1.8	2.3	1.8	2.4	1.8
	43.0	1.8	1.7	1.9	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.2	1.8	2.3	1.8
46.0	1.4	1.4	1.5	1.5	1.6	1.5	1.7	1.7	1.7	1.7	1.8	1.7	1.9	1.6	
25 (2.8)	20.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.7	2.1	2.8	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.3	3.0	2.3	3.2	2.2	3.3	2.2
	32.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.3	2.9	2.2	3.0	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	40.0	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.1	2.6	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
46.0	1.8	1.8	1.9	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	1.9	2.5	1.9	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.8
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.6	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.7	3.9	2.6	4.1	2.6
	37.5	3.2	2.5	3.3	2.6	3.4	2.5	3.5	2.7	3.6	2.7	3.8	2.6	4.0	2.6
	40.0	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.7	2.6	3.9	2.5
	43.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.6	2.5	3.8	2.5
46.0	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	2.9	2.3	3.2	2.3	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.3	5.0	3.3	5.3	3.2	5.7	3.2
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.3	5.0	3.3	5.3	3.2	5.7	3.2
	25.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.3	5.0	3.2	5.3	3.2	5.6	3.2
	27.5	4.3	3.0	4.4	3.1	4.6	3.1	4.8	3.2	4.9	3.2	5.2	3.2	5.5	3.1
	30.0	4.2	3.0	4.3	3.1	4.6	3.0	4.7	3.2	4.8	3.2	5.1	3.1	5.4	3.1
	32.5	4.1	3.0	4.2	3.0	4.5	3.0	4.6	3.2	4.7	3.1	5.0	3.1	5.3	3.0
	35.0	4.0	2.9	4.1	3.0	4.4	3.0	4.5	3.1	4.6	3.1	4.9	3.0	5.2	3.0
	37.5	4.0	2.9	4.1	3.0	4.3	2.9	4.4	3.1	4.5	3.1	4.8	3.0	5.0	2.9
	40.0	3.9	2.8	4.0	2.9	4.2	2.9	4.3	3.0	4.4	3.0	4.7	3.0	4.9	2.9
	43.0	3.8	2.8	3.9	2.9	4.1	2.8	4.2	3.0	4.3	3.0	4.5	2.9	4.8	2.9
46.0	2.9	2.4	3.0	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.7	2.6	4.0	2.6	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

PLFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	2.8	3.5	2.9	3.8	2.9	3.9	3.1	4.0	3.1	4.3	3.1	4.6	3.0
	22.5	3.4	2.8	3.5	2.9	3.8	2.9	3.9	3.1	4.0	3.1	4.3	3.1	4.6	3.0
	25.0	3.4	2.8	3.5	2.9	3.8	2.9	3.9	3.1	4.0	3.1	4.2	3.0	4.5	3.0
	27.5	3.4	2.8	3.5	2.9	3.7	2.9	3.8	3.1	3.9	3.1	4.1	3.0	4.4	3.0
	30.0	3.3	2.8	3.4	2.9	3.6	2.9	3.7	3.1	3.8	3.0	4.1	3.0	4.3	3.0
	32.5	3.3	2.8	3.4	2.9	3.6	2.8	3.7	3.0	3.8	3.0	4.0	3.0	4.2	2.9
	35.0	3.2	2.7	3.3	2.8	3.5	2.8	3.6	3.0	3.7	3.0	3.9	2.9	4.1	2.9
	37.5	3.2	2.7	3.3	2.8	3.4	2.8	3.5	3.0	3.6	3.0	3.8	2.9	4.0	2.9
	40.0	3.1	2.7	3.2	2.8	3.4	2.8	3.5	3.0	3.6	2.9	3.7	2.9	3.9	2.8
	43.0	3.0	2.7	3.1	2.8	3.3	2.7	3.4	2.9	3.5	2.9	3.6	2.8	3.8	2.8
46.0	2.3	2.3	2.4	2.4	2.6	2.4	2.7	2.7	2.8	2.6	2.9	2.6	3.2	2.6	
40 (4.5)	20.0	4.3	3.5	4.4	3.6	4.7	3.6	4.9	3.8	5.0	3.8	5.3	3.7	5.7	3.7
	22.5	4.3	3.5	4.4	3.6	4.7	3.6	4.9	3.8	5.0	3.8	5.3	3.7	5.7	3.7
	25.0	4.3	3.5	4.4	3.6	4.7	3.6	4.9	3.8	5.0	3.8	5.3	3.7	5.6	3.6
	27.5	4.3	3.4	4.4	3.6	4.6	3.5	4.8	3.7	4.9	3.7	5.2	3.7	5.5	3.6
	30.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.8	3.7	5.1	3.6	5.4	3.6
	32.5	4.1	3.4	4.2	3.5	4.5	3.4	4.6	3.7	4.7	3.6	5.0	3.6	5.3	3.5
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.6	4.6	3.6	4.9	3.6	5.2	3.5
	37.5	4.0	3.3	4.1	3.4	4.3	3.4	4.4	3.6	4.5	3.6	4.8	3.5	5.0	3.5
	40.0	3.9	3.3	4.0	3.4	4.2	3.3	4.3	3.6	4.4	3.5	4.7	3.5	4.9	3.4
	43.0	3.8	3.2	3.9	3.3	4.1	3.3	4.2	3.5	4.3	3.5	4.5	3.4	4.8	3.4
46.0	2.9	2.8	3.0	3.0	3.3	3.0	3.4	3.2	3.5	3.2	3.7	3.1	4.0	3.1	
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.3	6.2	4.3	6.6	4.3	7.1	4.2
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.3	6.2	4.3	6.6	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.9	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	27.5	5.3	4.0	5.5	4.1	5.8	4.0	5.9	4.3	6.1	4.2	6.4	4.2	6.8	4.1
	30.0	5.2	3.9	5.4	4.0	5.7	4.0	5.8	4.2	6.0	4.2	6.3	4.1	6.7	4.1
	32.5	5.1	3.9	5.3	4.0	5.6	4.0	5.7	4.2	5.9	4.2	6.2	4.1	6.6	4.0
	35.0	5.0	3.8	5.2	4.0	5.5	3.9	5.6	4.1	5.8	4.1	6.1	4.0	6.4	4.0
	37.5	4.9	3.8	5.1	3.9	5.4	3.9	5.5	4.1	5.6	4.1	5.9	4.0	6.3	3.9
	40.0	4.8	3.7	5.0	3.9	5.3	3.8	5.4	4.1	5.5	4.0	5.8	3.9	6.1	3.9
	43.0	4.7	3.7	4.8	3.8	5.1	3.8	5.3	4.0	5.4	4.0	5.6	3.9	6.0	3.8
46.0	3.6	3.2	3.8	3.3	4.1	3.3	4.2	3.6	4.3	3.6	4.6	3.5	4.9	3.5	
63 (7.1)	20.0	6.7	4.9	7.0	5.1	7.5	5.0	7.7	5.3	7.9	5.3	8.4	5.2	9.0	5.2
	22.5	6.7	4.9	7.0	5.1	7.5	5.0	7.7	5.3	7.9	5.3	8.4	5.2	9.0	5.2
	25.0	6.7	4.9	7.0	5.1	7.5	5.0	7.7	5.3	7.9	5.3	8.3	5.2	8.8	5.1
	27.5	6.7	4.9	6.9	5.0	7.3	5.0	7.5	5.2	7.7	5.2	8.1	5.1	8.7	5.0
	30.0	6.6	4.8	6.8	5.0	7.2	4.9	7.4	5.2	7.6	5.1	8.0	5.0	8.5	5.0
	32.5	6.5	4.8	6.7	4.9	7.1	4.8	7.2	5.1	7.4	5.1	7.8	5.0	8.3	4.9
	35.0	6.4	4.7	6.5	4.8	6.9	4.8	7.1	5.0	7.3	5.0	7.7	4.9	8.1	4.8
	37.5	6.2	4.7	6.4	4.8	6.8	4.7	7.0	5.0	7.2	5.0	7.5	4.9	8.0	4.8
	40.0	6.1	4.6	6.3	4.7	6.7	4.7	6.8	4.9	7.0	4.9	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.1	4.7	6.5	4.6	6.7	4.9	6.9	4.8	7.2	4.7	7.6	4.7
46.0	4.6	3.9	4.8	4.0	5.2	4.0	5.3	4.3	5.5	4.3	5.8	4.2	6.2	4.2	
80 (9.0)	20.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	22.5	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.6	10.6	6.5	11.4	6.4
	25.0	8.6	6.1	8.9	6.3	9.5	6.3	9.7	6.6	10.0	6.5	10.5	6.4	11.2	6.3
	27.5	8.5	6.1	8.8	6.3	9.3	6.2	9.5	6.5	9.8	6.4	10.3	6.3	11.0	6.2
	30.0	8.4	6.0	8.6	6.2	9.1	6.1	9.4	6.4	9.6	6.4	10.1	6.3	10.8	6.2
	32.5	8.2	5.9	8.5	6.1	8.9	6.0	9.2	6.3	9.4	6.3	9.9	6.2	10.5	6.1
	35.0	8.1	5.9	8.3	6.0	8.8	5.9	9.0	6.3	9.2	6.2	9.7	6.1	10.3	6.0
	37.5	7.9	5.8	8.1	5.9	8.6	5.9	8.8	6.2	9.1	6.1	9.5	6.0	10.1	5.9
	40.0	7.7	5.7	8.0	5.9	8.4	5.8	8.7	6.1	8.9	6.1	9.3	5.9	9.9	5.8
	43.0	7.6	5.6	7.8	5.8	8.2	5.7	8.5	6.0	8.7	6.0	9.1	5.8	9.6	5.7
46.0	5.9	4.8	6.1	5.0	6.5	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.9	5.2	
100 (11.2)	20.0	10.6	7.6	11.0	7.9	11.8	7.8	12.1	8.2	12.5	8.2	13.2	8.1	14.2	8.0
	22.5	10.6	7.6	11.0	7.9	11.8	7.8	12.1	8.2	12.5	8.2	13.2	8.1	14.2	8.0
	25.0	10.6	7.6	11.0	7.9	11.8	7.8	12.1	8.2	12.4	8.2	13.1	8.0	13.9	7.9
	27.5	10.6	7.6	10.9	7.8	11.6	7.7	11.9	8.1	12.2	8.1	12.9	7.9	13.7	7.8
	30.0	10.4	7.5	10.7	7.7	11.3	7.6	11.6	8.0	12.0	8.0	12.6	7.8	13.4	7.7
	32.5	10.2	7.4	10.5	7.6	11.1	7.5	11.4	7.9	11.7	7.9	12.4	7.7	13.1	7.6
	35.0	10.0	7.3	10.3	7.5	10.9	7.4	11.2	7.8	11.5	7.8	12.1	7.6	12.8	7.5
	37.5	9.8	7.2	10.1	7.4	10.7	7.3	11.0	7.7	11.3	7.7	11.9	7.5	12.6	7.4
	40.0	9.6	7.1	9.9	7.3	10.5	7.3	10.8	7.7	11.1	7.6	11.6	7.4	12.3	7.3
	43.0	9.4	7.0	9.7	7.2	10.2	7.1	10.5	7.5	10.8	7.5	11.3	7.3	12.0	7.2
46.0	7.3	6.0	7.6	6.2	8.1	6.2	8.4	6.6	8.7	6.6	9.2	6.5	9.8	6.5	
125 (14.0)	20.0	13.3	9.3	13.8	9.6	14.7	9.5	15.2	10.0	15.6	9.9	16.6	9.8	17.7	9.7
	22.5	13.3	9.3	13.8	9.6	14.7	9.5	15.2	10.0	15.6	9.9	16.6	9.8	17.7	9.7
	25.0	13.3	9.3	13.8	9.6	14.7	9.5	15.1	10.0	15.5	9.9	16.4	9.7	17.4	9.6
	27.5	13.3	9.3	13.6	9.5	14.4	9.4	14.8	9.9	15.2	9.8	16.1	9.6	17.1	9.5
	30.0	13.0	9.2	13.4	9.4	14.2	9.3	14.6	9.7	14.9	9.6	15.8	9.5	16.7	9.3
	32.5	12.8	9.0	13.2	9.3	13.9	9.2	14.3	9.6	14.7	9.5	15.4	9.3	16.4	9.2
	35.0	12.5	8.9	12.9	9.1	13.7	9.0	14.0	9.5	14.4	9.4	15.1	9.2	16.0	9.1
	37.5	12.3	8.8	12.7	9.0	13.4	8.9	13.8	9.4	14.1	9.3	14.8	9.1	15.7	8.9
	40.0	12.1	8.7	12.4	8.9	13.1	8.8	13.5	9.2	13.8	9.2	14.5	9.0	15.4	8.8
	43.0	11.8	8.5	12.1	8.7	12.8	8.6	13.2	9.1	13.5	9.0	14.1	8.8	15.0	8.7
46.0	9.1	7.2	9.5	7.5	10.2	7.4	10.5	7.9	10.9	7.9	11.5	7.8	12.3	7.7	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

## 5-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PLFY-P-VCM-E2

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.7	1.5	1.7	1.5	1.8	1.5	1.9	1.7	2.0	1.7	2.1	1.6	2.2	1.6
	22.5	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
	25.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	30.0	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.5	1.4	1.5	1.4	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.5
46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.5	2.0	2.5	2.0	2.7	2.0	2.9	1.9
	22.5	2.1	1.8	2.2	1.9	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.8	1.9
	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
	30.0	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
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
	37.5	1.9	1.7	2.0	1.8	2.1	1.7	2.1	1.9	2.2	1.9	2.3	1.8	2.5	1.8
	40.0	1.9	1.7	1.9	1.7	2.0	1.7	2.1	1.9	2.2	1.8	2.3	1.8	2.4	1.8
	43.0	1.9	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
46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.6	
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	22.5	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.6	2.3
	25.0	2.7	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.2	2.3	3.4	2.2
	30.0	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.3	2.9	2.2	3.0	2.2	3.2	2.2
	37.5	2.5	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.1
	43.0	2.4	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.8	2.1	3.0	2.1
46.0	1.8	1.8	1.8	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.3	2.0	2.5	1.9	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.2	2.9	4.4	2.8	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.9	4.1	2.8	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	30.0	3.3	2.6	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.2	2.5	3.3	2.6	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	37.5	3.2	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.8	2.6	4.1	2.6
	40.0	3.1	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.8	2.6	4.0	2.6
	43.0	3.0	2.4	3.0	2.5	3.2	2.4	3.3	2.6	3.4	2.6	3.7	2.6	3.9	2.5
46.0	2.4	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3	
40 (4.5)	20.0	4.4	3.1	4.5	3.2	4.9	3.2	5.0	3.4	5.2	3.3	5.5	3.3	5.8	3.2
	22.5	4.4	3.1	4.5	3.2	4.8	3.1	4.9	3.3	5.1	3.3	5.4	3.3	5.7	3.2
	25.0	4.3	3.1	4.4	3.1	4.7	3.1	4.9	3.3	5.0	3.3	5.3	3.2	5.6	3.2
	27.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.2	4.9	3.2	5.2	3.2	5.5	3.1
	30.0	4.1	3.0	4.2	3.0	4.5	3.0	4.7	3.2	4.8	3.2	5.1	3.1	5.4	3.1
	32.5	4.1	2.9	4.2	3.0	4.4	3.0	4.6	3.1	4.7	3.1	5.0	3.1	5.3	3.0
	35.0	4.0	2.9	4.1	3.0	4.3	2.9	4.5	3.1	4.6	3.1	4.9	3.0	5.2	3.0
	37.5	3.9	2.9	4.0	2.9	4.2	2.9	4.4	3.1	4.5	3.0	4.8	3.0	5.1	3.0
	40.0	3.9	2.8	3.9	2.9	4.2	2.9	4.3	3.0	4.4	3.0	4.7	3.0	5.0	2.9
	43.0	3.8	2.8	3.8	2.8	4.0	2.8	4.2	3.0	4.3	3.0	4.6	2.9	4.8	2.9
46.0	2.9	2.4	3.0	2.4	3.2	2.4	3.3	2.6	3.5	2.6	3.7	2.6	4.0	2.6	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

PLFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.5	2.9	3.6	3.0	3.9	3.0	4.0	3.2	4.2	3.2	4.4	3.1	4.7	3.1
	22.5	3.5	2.9	3.6	3.0	3.8	2.9	4.0	3.1	4.1	3.1	4.3	3.1	4.6	3.0
	25.0	3.4	2.8	3.5	2.9	3.8	2.9	3.9	3.1	4.0	3.1	4.2	3.1	4.5	3.0
	27.5	3.4	2.8	3.5	2.9	3.7	2.9	3.8	3.1	3.9	3.1	4.2	3.0	4.4	3.0
	30.0	3.3	2.8	3.4	2.9	3.6	2.9	3.7	3.1	3.8	3.0	4.1	3.0	4.3	3.0
	32.5	3.3	2.8	3.3	2.8	3.5	2.8	3.7	3.0	3.8	3.0	4.0	3.0	4.2	2.9
	35.0	3.2	2.7	3.3	2.8	3.5	2.8	3.6	3.0	3.7	3.0	3.9	2.9	4.2	2.9
	37.5	3.2	2.7	3.2	2.8	3.4	2.8	3.5	3.0	3.6	3.0	3.8	2.9	4.1	2.9
	40.0	3.1	2.7	3.1	2.8	3.3	2.7	3.4	2.9	3.5	2.9	3.8	2.9	4.0	2.8
	43.0	3.0	2.7	3.0	2.7	3.2	2.7	3.3	2.9	3.4	2.9	3.7	2.9	3.9	2.8
46.0	2.4	2.4	2.4	2.4	2.6	2.4	2.7	2.6	2.8	2.6	3.0	2.6	3.2	2.6	
40 (4.5)	20.0	4.4	3.5	4.5	3.6	4.9	3.6	5.0	3.9	5.2	3.8	5.5	3.8	5.8	3.7
	22.5	4.4	3.5	4.5	3.6	4.8	3.6	4.9	3.8	5.1	3.8	5.4	3.8	5.7	3.7
	25.0	4.3	3.5	4.4	3.6	4.7	3.5	4.9	3.8	5.0	3.8	5.3	3.7	5.6	3.7
	27.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.7	4.9	3.7	5.2	3.7	5.5	3.6
	30.0	4.1	3.4	4.2	3.5	4.5	3.5	4.7	3.7	4.8	3.7	5.1	3.6	5.4	3.6
	32.5	4.1	3.4	4.2	3.5	4.4	3.4	4.6	3.7	4.7	3.6	5.0	3.6	5.3	3.5
	35.0	4.0	3.3	4.1	3.4	4.3	3.4	4.5	3.6	4.6	3.6	4.9	3.6	5.2	3.5
	37.5	3.9	3.3	4.0	3.4	4.2	3.3	4.4	3.6	4.5	3.6	4.8	3.5	5.1	3.5
	40.0	3.9	3.3	3.9	3.3	4.2	3.3	4.3	3.6	4.4	3.5	4.7	3.5	5.0	3.4
	43.0	3.8	3.2	3.8	3.3	4.0	3.3	4.2	3.5	4.3	3.5	4.6	3.4	4.8	3.4
46.0	2.9	2.8	3.0	2.9	3.2	2.9	3.3	3.2	3.5	3.2	3.7	3.2	4.0	3.1	
50 (5.6)	20.0	5.4	4.0	5.6	4.2	6.1	4.2	6.3	4.4	6.5	4.4	6.9	4.3	7.3	4.3
	22.5	5.4	4.0	5.6	4.2	6.0	4.1	6.2	4.4	6.3	4.4	6.7	4.3	7.1	4.2
	25.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	27.5	5.3	4.0	5.4	4.1	5.7	4.0	5.9	4.3	6.1	4.3	6.5	4.2	6.9	4.1
	30.0	5.2	3.9	5.3	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.1	6.7	4.1
	32.5	5.1	3.9	5.2	4.0	5.5	3.9	5.7	4.2	5.9	4.2	6.2	4.1	6.6	4.0
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.1	5.7	4.1	6.1	4.1	6.5	4.0
	37.5	4.9	3.8	5.0	3.9	5.3	3.8	5.5	4.1	5.6	4.1	6.0	4.0	6.3	3.9
	40.0	4.8	3.7	4.9	3.8	5.2	3.8	5.3	4.0	5.5	4.0	5.8	4.0	6.2	3.9
	43.0	4.7	3.7	4.7	3.8	5.0	3.7	5.2	4.0	5.4	3.9	5.7	3.9	6.0	3.8
46.0	3.7	3.2	3.7	3.3	4.0	3.3	4.1	3.5	4.3	3.5	4.6	3.5	5.0	3.5	
63 (7.1)	20.0	6.9	5.0	7.1	5.1	7.7	5.1	7.9	5.4	8.2	5.4	8.7	5.3	9.2	5.2
	22.5	6.9	5.0	7.1	5.1	7.6	5.1	7.8	5.4	8.0	5.3	8.5	5.3	9.1	5.2
	25.0	6.8	4.9	7.0	5.0	7.4	5.0	7.7	5.3	7.9	5.3	8.4	5.2	8.9	5.1
	27.5	6.7	4.9	6.8	5.0	7.3	4.9	7.5	5.2	7.7	5.2	8.2	5.1	8.7	5.1
	30.0	6.5	4.8	6.7	4.9	7.1	4.9	7.4	5.2	7.6	5.1	8.1	5.1	8.5	5.0
	32.5	6.4	4.8	6.6	4.9	7.0	4.8	7.2	5.1	7.4	5.1	7.9	5.0	8.4	4.9
	35.0	6.3	4.7	6.4	4.8	6.8	4.8	7.1	5.0	7.3	5.0	7.7	4.9	8.2	4.9
	37.5	6.2	4.6	6.3	4.7	6.7	4.7	6.9	5.0	7.1	4.9	7.6	4.9	8.0	4.8
	40.0	6.1	4.6	6.2	4.7	6.6	4.6	6.8	4.9	7.0	4.9	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.0	4.6	6.4	4.5	6.6	4.8	6.8	4.8	7.2	4.7	7.6	4.7
46.0	4.6	3.9	4.7	4.0	5.0	4.0	5.2	4.3	5.5	4.3	5.9	4.2	6.3	4.2	
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.1	6.7	10.4	6.7	11.0	6.6	11.7	6.5
	22.5	8.7	6.2	9.0	6.4	9.6	6.3	9.9	6.7	10.2	6.6	10.8	6.5	11.5	6.4
	25.0	8.6	6.1	8.8	6.3	9.4	6.2	9.7	6.6	10.0	6.5	10.6	6.5	11.3	6.4
	27.5	8.4	6.1	8.6	6.2	9.2	6.1	9.5	6.5	9.8	6.5	10.4	6.4	11.0	6.3
	30.0	8.3	6.0	8.5	6.1	9.0	6.1	9.3	6.4	9.6	6.4	10.2	6.3	10.8	6.2
	32.5	8.2	5.9	8.3	6.0	8.9	6.0	9.1	6.3	9.4	6.3	10.0	6.2	10.6	6.1
	35.0	8.0	5.8	8.1	5.9	8.7	5.9	9.0	6.3	9.2	6.2	9.8	6.1	10.4	6.0
	37.5	7.9	5.8	8.0	5.9	8.5	5.8	8.8	6.2	9.0	6.1	9.6	6.0	10.2	5.9
	40.0	7.7	5.7	7.8	5.8	8.3	5.7	8.6	6.1	8.8	6.0	9.4	6.0	9.9	5.9
	43.0	7.6	5.6	7.6	5.7	8.1	5.6	8.4	6.0	8.6	5.9	9.1	5.9	9.7	5.8
46.0	5.9	4.8	5.9	4.9	6.4	4.9	6.7	5.3	6.9	5.2	7.4	5.2	8.0	5.2	
100 (11.2)	20.0	10.9	7.8	11.3	8.0	12.1	8.0	12.5	8.4	12.9	8.4	13.7	8.3	14.5	8.2
	22.5	10.8	7.8	11.2	8.0	11.9	7.9	12.3	8.3	12.7	8.3	13.5	8.2	14.3	8.1
	25.0	10.7	7.7	11.0	7.9	11.7	7.8	12.1	8.2	12.5	8.2	13.2	8.1	14.0	8.0
	27.5	10.5	7.6	10.8	7.7	11.5	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.7	7.9
	30.0	10.3	7.5	10.6	7.6	11.2	7.6	11.6	8.0	12.0	8.0	12.7	7.9	13.5	7.8
	32.5	10.2	7.4	10.3	7.5	11.0	7.5	11.4	7.9	11.7	7.9	12.4	7.8	13.2	7.6
	35.0	10.0	7.3	10.1	7.4	10.8	7.4	11.2	7.8	11.5	7.8	12.2	7.7	12.9	7.5
	37.5	9.8	7.2	9.9	7.3	10.6	7.3	10.9	7.7	11.2	7.7	11.9	7.6	12.6	7.5
	40.0	9.6	7.1	9.7	7.2	10.3	7.2	10.7	7.6	11.0	7.6	11.7	7.5	12.4	7.4
	43.0	9.4	7.0	9.5	7.1	10.1	7.1	10.4	7.5	10.7	7.4	11.4	7.4	12.1	7.2
46.0	7.3	6.0	7.3	6.1	8.0	6.1	8.3	6.6	8.6	6.6	9.3	6.6	9.9	6.5	
125 (14.0)	20.0	13.6	9.5	14.1	9.7	15.1	9.7	15.7	10.2	16.2	10.2	17.2	10.1	18.2	9.9
	22.5	13.6	9.5	14.0	9.7	14.9	9.6	15.4	10.1	15.9	10.1	16.8	9.9	17.8	9.8
	25.0	13.3	9.3	13.7	9.5	14.6	9.5	15.1	10.0	15.6	9.9	16.5	9.8	17.5	9.6
	27.5	13.1	9.2	13.5	9.4	14.3	9.4	14.8	9.8	15.3	9.8	16.2	9.7	17.2	9.5
	30.0	12.9	9.1	13.2	9.3	14.1	9.2	14.5	9.7	15.0	9.7	15.9	9.5	16.8	9.4
	32.5	12.7	9.0	12.9	9.1	13.8	9.1	14.2	9.6	14.7	9.5	15.6	9.4	16.5	9.2
	35.0	12.5	8.9	12.7	9.0	13.5	8.9	14.0	9.5	14.4	9.4	15.2	9.3	16.2	9.1
	37.5	12.3	8.8	12.4	8.9	13.2	8.8	13.6	9.3	14.1	9.3	14.9	9.1	15.8	9.0
	40.0	12.0	8.7	12.2	8.8	12.9	8.7	13.3	9.2	13.8	9.1	14.6	9.0	15.5	8.9
	43.0	11.8	8.5	11.8	8.6	12.6	8.5	13.0	9.0	13.4	9.0	14.2	8.8	15.1	8.7
46.0	9.1	7.2	9.2	7.3	9.9	7.3	10.3	7.9	10.8	7.9	11.6	7.8	12.4	7.8	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

## 5-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PLFY-P-VCM-E2

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	35.0	1.5	1.4	1.5	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	43.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	2.0	1.5
46.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.6	1.4	
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.8	1.9
	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
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.7	1.9
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	40.0	1.9	1.7	1.9	1.7	2.1	1.7	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.8	2.5	1.8
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.3
	27.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
46.0	1.9	1.8	1.9	1.8	2.1	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	25.0	3.3	2.6	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	37.5	3.2	2.5	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.1	4.8	3.3	5.0	3.3	5.3	3.2	5.7	3.2
	22.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.2	4.9	3.2	5.3	3.2	5.6	3.2
	25.0	4.2	3.0	4.3	3.1	4.6	3.1	4.7	3.2	4.9	3.2	5.2	3.2	5.6	3.1
	27.5	4.1	3.0	4.2	3.0	4.5	3.0	4.7	3.2	4.8	3.2	5.2	3.2	5.5	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	3.0	4.6	3.2	4.8	3.2	5.1	3.1	5.5	3.1
	32.5	4.0	2.9	4.1	3.0	4.4	3.0	4.6	3.2	4.7	3.1	5.1	3.1	5.4	3.1
	35.0	4.0	2.9	4.1	3.0	4.4	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.4	3.1
	37.5	4.0	2.9	4.0	2.9	4.3	2.9	4.5	3.1	4.6	3.1	5.0	3.1	5.3	3.0
	40.0	3.9	2.9	4.0	2.9	4.3	2.9	4.4	3.1	4.6	3.1	4.9	3.1	5.3	3.0
	43.0	3.9	2.8	3.9	2.9	4.2	2.9	4.4	3.1	4.5	3.0	4.9	3.0	5.2	3.0
46.0	3.0	2.4	3.1	2.5	3.4	2.5	3.5	2.7	3.7	2.7	4.0	2.7	4.4	2.7	

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



# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

PLFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	2.8	3.5	2.9	3.7	2.9	3.9	3.1	4.0	3.1	4.3	3.1	4.5	3.0
	22.5	3.4	2.8	3.5	2.9	3.7	2.9	3.8	3.1	4.0	3.1	4.2	3.0	4.5	3.0
	25.0	3.3	2.8	3.4	2.9	3.7	2.9	3.8	3.1	3.9	3.1	4.2	3.0	4.4	3.0
	27.5	3.3	2.8	3.4	2.9	3.6	2.9	3.8	3.1	3.9	3.1	4.1	3.0	4.4	3.0
	30.0	3.3	2.8	3.3	2.9	3.6	2.8	3.7	3.0	3.8	3.0	4.1	3.0	4.4	3.0
	32.5	3.2	2.7	3.3	2.8	3.5	2.8	3.7	3.0	3.8	3.0	4.1	3.0	4.3	3.0
	35.0	3.2	2.7	3.3	2.8	3.5	2.8	3.6	3.0	3.8	3.0	4.0	3.0	4.3	2.9
	37.5	3.2	2.7	3.2	2.8	3.5	2.8	3.6	3.0	3.7	3.0	4.0	3.0	4.2	2.9
	40.0	3.1	2.7	3.2	2.8	3.4	2.8	3.5	3.0	3.7	3.0	3.9	3.0	4.2	2.9
	43.0	3.1	2.7	3.1	2.8	3.4	2.8	3.5	3.0	3.6	3.0	3.9	2.9	4.2	2.9
46.0	2.4	2.4	2.4	2.4	2.7	2.5	2.8	2.7	2.9	2.7	3.2	2.7	3.5	2.7	
40 (4.5)	20.0	4.3	3.4	4.4	3.6	4.7	3.5	4.8	3.8	5.0	3.8	5.3	3.7	5.7	3.7
	22.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.8	4.9	3.7	5.3	3.7	5.6	3.6
	25.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.9	3.7	5.2	3.7	5.6	3.6
	27.5	4.1	3.4	4.2	3.5	4.5	3.5	4.7	3.7	4.8	3.7	5.2	3.7	5.5	3.6
	30.0	4.1	3.4	4.2	3.5	4.5	3.4	4.6	3.7	4.8	3.7	5.1	3.6	5.5	3.6
	32.5	4.0	3.3	4.1	3.4	4.4	3.4	4.6	3.7	4.7	3.7	5.1	3.6	5.4	3.6
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.6	4.7	3.6	5.0	3.6	5.4	3.6
	37.5	4.0	3.3	4.0	3.4	4.3	3.4	4.5	3.6	4.6	3.6	5.0	3.6	5.3	3.6
	40.0	3.9	3.3	4.0	3.4	4.3	3.4	4.4	3.6	4.6	3.6	4.9	3.6	5.3	3.5
	43.0	3.9	3.3	3.9	3.3	4.2	3.3	4.4	3.6	4.5	3.6	4.9	3.5	5.2	3.5
46.0	3.0	2.9	3.1	3.0	3.4	3.0	3.5	3.3	3.7	3.3	4.0	3.3	4.4	3.2	
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.3	7.0	4.2
	22.5	5.2	4.0	5.4	4.1	5.8	4.0	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	25.0	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.1	4.2	6.5	4.2	6.9	4.2
	27.5	5.1	3.9	5.3	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.9	4.1
	30.0	5.1	3.9	5.2	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.2	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.7	4.1
	37.5	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.6	4.0
	40.0	4.9	3.8	4.9	3.9	5.3	3.8	5.5	4.1	5.7	4.1	6.1	4.1	6.5	4.0
	43.0	4.8	3.7	4.9	3.8	5.2	3.8	5.4	4.1	5.6	4.1	6.0	4.0	6.5	4.0
46.0	3.7	3.2	3.8	3.3	4.2	3.4	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6	
63 (7.1)	20.0	6.7	4.9	6.9	5.0	7.4	5.0	7.6	5.3	7.9	5.3	8.4	5.2	8.9	5.1
	22.5	6.6	4.9	6.8	5.0	7.3	5.0	7.6	5.3	7.8	5.2	8.3	5.2	8.8	5.1
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.2	8.2	5.1	8.8	5.1
	27.5	6.5	4.8	6.7	4.9	7.2	4.9	7.4	5.2	7.6	5.2	8.2	5.1	8.7	5.0
	30.0	6.4	4.8	6.6	4.9	7.1	4.9	7.3	5.1	7.6	5.1	8.1	5.1	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.1	8.0	5.0	8.5	5.0
	35.0	6.3	4.7	6.4	4.8	6.9	4.8	7.1	5.0	7.4	5.1	7.9	5.0	8.5	5.0
	37.5	6.2	4.7	6.3	4.8	6.8	4.7	7.1	5.0	7.3	5.0	7.8	5.0	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	5.0	7.2	5.0	7.8	5.0	8.3	4.9
	43.0	6.1	4.6	6.2	4.7	6.7	4.7	6.9	5.0	7.1	5.0	7.7	4.9	8.2	4.9
46.0	4.7	3.9	4.8	4.0	5.3	4.1	5.6	4.4	5.8	4.4	6.3	4.4	6.9	4.4	
80 (9.0)	20.0	8.5	6.1	8.8	6.2	9.4	6.2	9.7	6.6	10.0	6.5	10.6	6.5	11.3	6.4
	22.5	8.4	6.0	8.7	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.5	6.4	11.2	6.3
	25.0	8.3	6.0	8.6	6.1	9.2	6.1	9.5	6.5	9.8	6.4	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.3	6.3	11.0	6.3
	30.0	8.2	5.9	8.4	6.0	9.0	6.0	9.3	6.4	9.6	6.4	10.2	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.3	9.5	6.3	10.1	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	5.9	8.8	5.9	9.0	6.3	9.4	6.3	10.0	6.2	10.7	6.2
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.2	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.7	7.9	5.8	8.6	5.8	8.9	6.2	9.2	6.2	9.8	6.1	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.1	9.1	6.1	9.7	6.1	10.4	6.0
46.0	6.0	4.9	6.1	5.0	6.7	5.0	7.0	5.4	7.4	5.4	8.0	5.4	8.7	5.4	
100 (11.2)	20.0	10.6	7.6	10.9	7.8	11.7	7.8	12.0	8.2	12.4	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.6	10.8	7.8	11.5	7.7	11.9	8.2	12.3	8.1	13.1	8.0	13.9	7.9
	25.0	10.4	7.5	10.6	7.7	11.4	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	27.5	10.3	7.5	10.5	7.6	11.3	7.6	11.7	8.0	12.1	8.0	12.9	7.9	13.7	7.8
	30.0	10.2	7.4	10.4	7.6	11.2	7.5	11.5	8.0	11.9	8.0	12.7	7.9	13.6	7.8
	32.5	10.1	7.3	10.3	7.5	11.0	7.5	11.4	7.9	11.8	7.9	12.6	7.8	13.5	7.7
	35.0	9.9	7.3	10.1	7.4	10.9	7.4	11.2	7.8	11.7	7.8	12.5	7.8	13.3	7.7
	37.5	9.8	7.2	10.0	7.4	10.8	7.4	11.2	7.8	11.6	7.8	12.4	7.7	13.2	7.7
	40.0	9.7	7.2	9.9	7.3	10.6	7.3	11.0	7.8	11.4	7.7	12.2	7.7	13.1	7.6
	43.0	9.6	7.1	9.7	7.2	10.5	7.2	10.9	7.7	11.3	7.7	12.1	7.6	12.9	7.6
46.0	7.5	6.1	7.6	6.3	8.4	6.3	8.8	6.8	9.2	6.8	10.0	6.8	10.8	6.8	
125 (14.0)	20.0	13.2	9.3	13.6	9.5	14.6	9.5	15.1	10.0	15.5	9.9	16.5	9.8	17.6	9.7
	22.5	13.1	9.2	13.5	9.4	14.4	9.4	14.9	9.9	15.4	9.8	16.4	9.7	17.4	9.6
	25.0	13.0	9.1	13.3	9.3	14.3	9.3	14.7	9.8	15.2	9.8	16.2	9.7	17.3	9.5
	27.5	12.8	9.1	13.2	9.3	14.1	9.2	14.6	9.7	15.1	9.7	16.1	9.6	17.1	9.5
	30.0	12.7	9.0	13.0	9.2	13.9	9.2	14.4	9.7	14.9	9.6	15.9	9.5	17.0	9.4
	32.5	12.6	8.9	12.8	9.1	13.8	9.1	14.3	9.6	14.8	9.6	15.8	9.5	16.8	9.4
	35.0	12.4	8.9	12.7	9.0	13.6	9.0	14.0	9.5	14.6	9.5	15.6	9.4	16.7	9.3
	37.5	12.3	8.8	12.5	8.9	13.5	8.9	14.0	9.4	14.4	9.4	15.5	9.3	16.5	9.3
	40.0	12.2	8.7	12.4	8.9	13.3	8.9	13.8	9.4	14.3	9.3	15.3	9.3	16.4	9.2
	43.0	12.0	8.6	12.2	8.8	13.1	8.8	13.6	9.3	14.1	9.3	15.1	9.2	16.2	9.1
46.0	9.4	7.3	9.5	7.5	10.5	7.6	11.0	8.1	11.5	8.1	12.5	8.2	13.5	8.2	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

## 5-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PLFY-P-VCM-E2

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.7	2.0	1.6	2.1	1.6	2.2	1.6
	22.5	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
	25.0	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	35.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	37.5	1.4	1.4	1.5	1.5	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	1.9	1.5
	40.0	1.4	1.4	1.5	1.4	1.6	1.4	1.6	1.6	1.7	1.5	1.8	1.5	1.9	1.5
	43.0	1.4	1.4	1.4	1.4	1.5	1.4	1.6	1.5	1.6	1.5	1.8	1.5	1.9	1.5
46.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	
20 (2.2)	20.0	2.1	1.8	2.2	1.9	2.4	1.9	2.4	2.0	2.5	2.0	2.7	2.0	2.9	1.9
	22.5	2.1	1.8	2.2	1.8	2.3	1.8	2.4	2.0	2.5	2.0	2.6	1.9	2.8	1.9
	25.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.8	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.6	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	32.5	1.9	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	37.5	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.8	2.5	1.8
	40.0	1.8	1.7	1.9	1.7	2.0	1.7	2.1	1.9	2.2	1.8	2.3	1.8	2.5	1.8
	43.0	1.8	1.6	1.8	1.7	2.0	1.7	2.1	1.8	2.1	1.8	2.3	1.8	2.4	1.8
46.0	1.4	1.4	1.4	1.4	1.6	1.5	1.6	1.6	1.7	1.7	1.9	1.7	2.0	1.7	
25 (2.8)	20.0	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.3	3.7	2.3
	22.5	2.7	2.1	2.8	2.2	3.0	2.2	3.1	2.4	3.2	2.3	3.4	2.3	3.6	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	27.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	35.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.3	2.9	2.2	3.1	2.2	3.3	2.2
	37.5	2.4	2.0	2.5	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
	40.0	2.3	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.1	2.1
	43.0	2.3	2.0	2.4	2.0	2.5	2.0	2.6	2.2	2.7	2.2	2.9	2.1	3.1	2.1
46.0	1.8	1.7	1.8	1.8	2.0	1.8	2.1	2.0	2.2	2.0	2.4	2.0	2.5	2.0	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.1	2.9	4.4	2.8	4.7	2.8
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.1	2.8	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	27.5	3.3	2.5	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.5	2.7
	30.0	3.2	2.5	3.4	2.6	3.6	2.6	3.7	2.8	3.9	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	35.0	3.1	2.5	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.6	4.1	2.6
	40.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.6	4.0	2.6
	43.0	2.9	2.4	3.0	2.4	3.2	2.4	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.5
46.0	2.3	2.1	2.3	2.1	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.3	2.3	
40 (4.5)	20.0	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.3	5.2	3.3	5.5	3.3	5.9	3.3
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.3	5.1	3.3	5.4	3.3	5.8	3.2
	25.0	4.2	3.0	4.3	3.1	4.7	3.1	4.8	3.3	5.0	3.3	5.3	3.2	5.7	3.2
	27.5	4.1	3.0	4.3	3.1	4.6	3.0	4.7	3.2	4.9	3.2	5.2	3.2	5.6	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.2	4.8	3.2	5.1	3.1	5.5	3.1
	32.5	4.0	2.9	4.1	3.0	4.4	3.0	4.6	3.1	4.7	3.1	5.0	3.1	5.4	3.1
	35.0	3.9	2.9	4.0	2.9	4.3	2.9	4.5	3.1	4.6	3.1	4.9	3.1	5.3	3.0
	37.5	3.8	2.8	4.0	2.9	4.2	2.9	4.4	3.1	4.5	3.1	4.8	3.0	5.2	3.0
	40.0	3.8	2.8	3.9	2.9	4.2	2.9	4.3	3.0	4.5	3.0	4.8	3.0	5.1	2.9
	43.0	3.7	2.7	3.8	2.8	4.1	2.8	4.2	3.0	4.3	3.0	4.6	2.9	4.9	2.9
46.0	2.8	2.3	2.9	2.4	3.2	2.4	3.4	2.6	3.5	2.6	3.8	2.6	4.1	2.6	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

PLFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.5	2.9	3.6	3.0	3.9	3.0	4.0	3.2	4.1	3.2	4.4	3.1	4.7	3.1
	22.5	3.4	2.8	3.5	2.9	3.8	2.9	3.9	3.1	4.1	3.1	4.3	3.1	4.6	3.1
	25.0	3.4	2.8	3.5	2.9	3.7	2.9	3.9	3.1	4.0	3.1	4.3	3.1	4.5	3.0
	27.5	3.3	2.8	3.4	2.9	3.7	2.9	3.8	3.1	3.9	3.1	4.2	3.0	4.5	3.0
	30.0	3.2	2.8	3.4	2.9	3.6	2.8	3.7	3.1	3.9	3.0	4.1	3.0	4.4	3.0
	32.5	3.2	2.7	3.3	2.8	3.5	2.8	3.7	3.0	3.8	3.0	4.0	3.0	4.3	2.9
	35.0	3.1	2.7	3.2	2.8	3.5	2.8	3.6	3.0	3.7	3.0	4.0	3.0	4.2	2.9
	37.5	3.1	2.7	3.2	2.8	3.4	2.8	3.5	3.0	3.6	3.0	3.9	2.9	4.1	2.9
	40.0	3.0	2.6	3.1	2.7	3.3	2.7	3.4	2.9	3.6	2.9	3.8	2.9	4.0	2.9
	43.0	2.9	2.6	3.0	2.7	3.2	2.7	3.4	2.9	3.5	2.9	3.7	2.9	3.9	2.8
46.0	2.3	2.3	2.3	2.3	2.6	2.4	2.7	2.6	2.8	2.6	3.0	2.6	3.3	2.6	
40 (4.5)	20.0	4.3	3.5	4.5	3.6	4.8	3.6	5.0	3.8	5.2	3.8	5.5	3.8	5.9	3.7
	22.5	4.3	3.5	4.4	3.6	4.7	3.6	4.9	3.8	5.1	3.8	5.4	3.8	5.8	3.7
	25.0	4.2	3.4	4.3	3.5	4.7	3.5	4.8	3.8	5.0	3.8	5.3	3.7	5.7	3.7
	27.5	4.1	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.9	3.7	5.2	3.7	5.6	3.6
	30.0	4.1	3.3	4.2	3.5	4.5	3.5	4.7	3.7	4.8	3.7	5.1	3.6	5.5	3.6
	32.5	4.0	3.3	4.1	3.4	4.4	3.4	4.6	3.7	4.7	3.6	5.0	3.6	5.4	3.6
	35.0	3.9	3.3	4.0	3.4	4.3	3.4	4.5	3.6	4.6	3.6	4.9	3.6	5.3	3.5
	37.5	3.8	3.2	4.0	3.4	4.2	3.3	4.4	3.6	4.5	3.6	4.8	3.5	5.2	3.5
	40.0	3.8	3.2	3.9	3.3	4.2	3.3	4.3	3.6	4.5	3.5	4.8	3.5	5.1	3.5
	43.0	3.7	3.2	3.8	3.3	4.1	3.3	4.2	3.5	4.3	3.5	4.6	3.5	4.9	3.4
46.0	2.8	2.8	2.9	2.9	3.2	2.9	3.4	3.2	3.5	3.2	3.8	3.2	4.1	3.2	
50 (5.6)	20.0	5.4	4.0	5.6	4.2	6.0	4.2	6.2	4.4	6.4	4.4	6.9	4.3	7.3	4.3
	22.5	5.3	4.0	5.5	4.1	5.9	4.1	6.1	4.4	6.3	4.3	6.7	4.3	7.2	4.2
	25.0	5.2	3.9	5.4	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.3	7.0	4.2
	27.5	5.1	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.1	4.3	6.5	4.2	6.9	4.2
	30.0	5.0	3.9	5.2	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.2	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.5	4.0
	37.5	4.8	3.7	4.9	3.8	5.3	3.8	5.5	4.1	5.7	4.1	6.0	4.0	6.4	4.0
	40.0	4.7	3.7	4.8	3.8	5.2	3.8	5.4	4.0	5.5	4.0	5.9	4.0	6.3	3.9
	43.0	4.6	3.6	4.7	3.7	5.1	3.7	5.2	4.0	5.4	4.0	5.8	3.9	6.1	3.9
46.0	3.5	3.1	3.6	3.3	4.0	3.3	4.2	3.6	4.4	3.6	4.7	3.5	5.1	3.5	
63 (7.1)	20.0	6.9	5.0	7.1	5.1	7.6	5.1	7.9	5.4	8.2	5.4	8.7	5.3	9.3	5.3
	22.5	6.7	4.9	7.0	5.1	7.5	5.0	7.8	5.3	8.0	5.3	8.6	5.3	9.1	5.2
	25.0	6.6	4.9	6.9	5.0	7.4	5.0	7.6	5.3	7.9	5.3	8.4	5.2	8.9	5.1
	27.5	6.5	4.8	6.7	4.9	7.2	4.9	7.5	5.2	7.7	5.2	8.3	5.1	8.8	5.1
	30.0	6.4	4.7	6.6	4.9	7.1	4.9	7.3	5.2	7.6	5.1	8.1	5.1	8.6	5.0
	32.5	6.3	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.1	7.9	5.0	8.5	5.0
	35.0	6.2	4.6	6.4	4.8	6.8	4.7	7.1	5.0	7.3	5.0	7.8	5.0	8.3	4.9
	37.5	6.1	4.6	6.2	4.7	6.7	4.7	6.9	5.0	7.2	5.0	7.6	4.9	8.1	4.8
	40.0	5.9	4.5	6.1	4.6	6.6	4.6	6.8	4.9	7.0	4.9	7.5	4.9	8.0	4.8
	43.0	5.8	4.4	6.0	4.6	6.4	4.6	6.6	4.8	6.9	4.8	7.3	4.8	7.8	4.7
46.0	4.5	3.8	4.6	4.0	5.1	4.0	5.3	4.3	5.5	4.3	6.0	4.3	6.4	4.3	
80 (9.0)	20.0	8.7	6.2	9.0	6.4	9.7	6.4	10.0	6.7	10.3	6.7	11.0	6.6	11.7	6.5
	22.5	8.5	6.1	8.9	6.3	9.5	6.3	9.8	6.6	10.2	6.6	10.8	6.5	11.5	6.5
	25.0	8.4	6.0	8.7	6.2	9.3	6.2	9.7	6.6	10.0	6.5	10.6	6.5	11.3	6.4
	27.5	8.3	6.0	8.5	6.1	9.2	6.1	9.5	6.5	9.8	6.5	10.5	6.4	11.1	6.3
	30.0	8.1	5.9	8.4	6.1	9.0	6.0	9.3	6.4	9.6	6.4	10.3	6.3	10.9	6.2
	32.5	8.0	5.8	8.2	6.0	8.8	6.0	9.1	6.3	9.4	6.3	10.1	6.2	10.7	6.2
	35.0	7.8	5.7	8.1	5.9	8.7	5.9	9.0	6.3	9.3	6.2	9.9	6.2	10.5	6.1
	37.5	7.7	5.7	7.9	5.8	8.5	5.8	8.8	6.2	9.1	6.1	9.7	6.1	10.3	6.0
	40.0	7.5	5.6	7.7	5.7	8.3	5.7	8.6	6.1	8.9	6.1	9.5	6.0	10.1	5.9
	43.0	7.4	5.5	7.6	5.7	8.1	5.6	8.4	6.0	8.7	6.0	9.3	5.9	9.9	5.8
46.0	5.7	4.7	5.9	4.9	6.4	4.9	6.7	5.3	7.0	5.3	7.6	5.3	8.2	5.2	
100 (11.2)	20.0	10.8	7.7	11.2	8.0	12.0	8.0	12.5	8.4	12.9	8.4	13.7	8.3	14.6	8.2
	22.5	10.6	7.6	11.0	7.9	11.8	7.9	12.2	8.3	12.6	8.3	13.5	8.2	14.4	8.1
	25.0	10.5	7.6	10.8	7.8	11.6	7.8	12.0	8.2	12.4	8.2	13.3	8.1	14.1	8.0
	27.5	10.3	7.5	10.6	7.7	11.4	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	30.0	10.1	7.4	10.4	7.6	11.2	7.6	11.6	8.0	12.0	8.0	12.8	7.9	13.6	7.8
	32.5	9.9	7.3	10.2	7.5	11.0	7.5	11.4	7.9	11.8	7.9	12.5	7.8	13.3	7.7
	35.0	9.7	7.2	10.0	7.4	10.8	7.4	11.2	7.8	11.5	7.8	12.3	7.7	13.1	7.6
	37.5	9.5	7.1	9.8	7.3	10.6	7.3	10.9	7.7	11.3	7.7	12.1	7.6	12.8	7.5
	40.0	9.4	7.0	9.6	7.2	10.4	7.2	10.7	7.6	11.1	7.6	11.8	7.5	12.6	7.4
	43.0	9.2	6.9	9.4	7.1	10.1	7.1	10.5	7.5	10.8	7.5	11.5	7.4	12.3	7.3
46.0	7.0	5.9	7.3	6.1	8.0	6.2	8.3	6.6	8.7	6.6	9.4	6.6	10.2	6.6	
125 (14.0)	20.0	13.5	9.4	14.0	9.7	15.0	9.7	15.6	10.2	16.1	10.2	17.2	10.1	18.3	9.9
	22.5	13.3	9.3	13.8	9.6	14.8	9.6	15.3	10.1	15.8	10.0	16.9	9.9	17.9	9.8
	25.0	13.1	9.2	13.5	9.5	14.5	9.4	15.0	9.9	15.5	9.9	16.6	9.8	17.6	9.7
	27.5	12.8	9.1	13.3	9.3	14.3	9.3	14.8	9.8	15.3	9.8	16.3	9.7	17.3	9.6
	30.0	12.6	9.0	13.0	9.2	14.0	9.2	14.5	9.7	15.0	9.7	16.0	9.6	17.0	9.4
	32.5	12.4	8.8	12.8	9.1	13.7	9.1	14.2	9.6	14.7	9.5	15.7	9.4	16.7	9.3
	35.0	12.2	8.7	12.5	8.9	13.5	8.9	14.0	9.5	14.4	9.4	15.4	9.3	16.4	9.2
	37.5	11.9	8.6	12.3	8.8	13.2	8.8	13.7	9.3	14.1	9.3	15.1	9.2	16.0	9.1
	40.0	11.7	8.5	12.1	8.7	12.9	8.7	13.4	9.2	13.9	9.2	14.8	9.1	15.7	9.0
	43.0	11.4	8.3	11.8	8.6	12.6	8.5	13.1	9.0	13.5	9.0	14.4	8.9	15.4	8.8
46.0	8.8	7.1	9.1	7.3	10.0	7.4	10.4	7.9	10.9	7.9	11.8	7.9	12.7	7.9	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

## 5-5. Cooling capacity with PUHY-EP850-900YSKM

PLFY-P-VCM-E2

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.5	1.7	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	22.5	1.6	1.5	1.6	1.5	1.8	1.5	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.6
	25.0	1.6	1.5	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	27.5	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.6
	30.0	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.6	1.8	1.6	1.9	1.6	2.1	1.6
	32.5	1.5	1.4	1.6	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.6
	35.0	1.5	1.4	1.5	1.5	1.7	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	37.5	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.8	1.6	1.9	1.6	2.0	1.5
	40.0	1.5	1.4	1.5	1.5	1.6	1.5	1.7	1.6	1.7	1.6	1.9	1.6	2.0	1.5
	43.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.7	1.6	1.8	1.5	2.0	1.5
46.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.6	1.4	
20 (2.2)	20.0	2.1	1.8	2.1	1.8	2.3	1.8	2.4	2.0	2.4	1.9	2.6	1.9	2.8	1.9
	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
	25.0	2.0	1.8	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	27.5	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.9	2.4	1.9	2.5	1.9	2.7	1.9
	30.0	2.0	1.7	2.0	1.8	2.2	1.8	2.3	1.9	2.3	1.9	2.5	1.9	2.7	1.9
	32.5	2.0	1.7	2.0	1.8	2.2	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	35.0	2.0	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.9
	37.5	1.9	1.7	2.0	1.8	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.9	2.6	1.8
	40.0	1.9	1.7	1.9	1.7	2.1	1.7	2.2	1.9	2.2	1.9	2.4	1.9	2.6	1.8
	43.0	1.9	1.7	1.9	1.7	2.1	1.7	2.1	1.9	2.2	1.9	2.4	1.8	2.5	1.8
46.0	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.7	2.0	1.7	2.1	1.7	
25 (2.8)	20.0	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	22.5	2.6	2.1	2.7	2.2	2.9	2.2	3.0	2.3	3.1	2.3	3.3	2.3	3.5	2.3
	25.0	2.6	2.1	2.7	2.2	2.9	2.2	2.9	2.3	3.0	2.3	3.2	2.3	3.5	2.3
	27.5	2.6	2.1	2.6	2.2	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	30.0	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.3	3.4	2.2
	32.5	2.5	2.1	2.6	2.1	2.8	2.1	2.9	2.3	3.0	2.3	3.2	2.2	3.4	2.2
	35.0	2.5	2.1	2.5	2.1	2.7	2.1	2.8	2.3	2.9	2.3	3.1	2.2	3.3	2.2
	37.5	2.5	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	40.0	2.4	2.0	2.5	2.1	2.7	2.1	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.2
	43.0	2.4	2.0	2.4	2.1	2.6	2.1	2.7	2.2	2.8	2.2	3.0	2.2	3.2	2.2
46.0	1.9	1.8	1.9	1.8	2.1	1.9	2.2	2.0	2.3	2.0	2.5	2.0	2.7	2.0	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.7
	22.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	25.0	3.3	2.6	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.7	4.4	2.7
	27.5	3.3	2.5	3.4	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	37.5	3.2	2.5	3.2	2.5	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	43.0	3.1	2.4	3.1	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.6	4.2	2.6
46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.1	4.8	3.3	5.0	3.3	5.3	3.2	5.7	3.2
	22.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.2	4.9	3.2	5.3	3.2	5.6	3.2
	25.0	4.2	3.0	4.3	3.1	4.6	3.1	4.7	3.2	4.9	3.2	5.2	3.2	5.6	3.1
	27.5	4.1	3.0	4.2	3.0	4.5	3.0	4.7	3.2	4.8	3.2	5.2	3.2	5.5	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	3.0	4.6	3.2	4.8	3.2	5.1	3.1	5.5	3.1
	32.5	4.0	2.9	4.1	3.0	4.4	3.0	4.6	3.2	4.7	3.1	5.1	3.1	5.4	3.1
	35.0	4.0	2.9	4.1	3.0	4.4	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.4	3.1
	37.5	4.0	2.9	4.0	2.9	4.3	2.9	4.5	3.1	4.6	3.1	5.0	3.1	5.3	3.0
	40.0	3.9	2.9	4.0	2.9	4.3	2.9	4.4	3.1	4.6	3.1	4.9	3.1	5.3	3.0
	43.0	3.9	2.8	3.9	2.9	4.2	2.9	4.4	3.1	4.5	3.0	4.9	3.0	5.2	3.0
46.0	3.0	2.4	3.1	2.5	3.4	2.5	3.5	2.7	3.7	2.7	4.0	2.7	4.4	2.7	

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

# 5. Cooling [Ceiling cassette (4-way flow type)]

EP-YKM

CT

PLFY-P-VBM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
32 (3.6)	20.0	3.4	2.8	3.5	2.9	3.7	2.9	3.9	3.1	4.0	3.1	4.3	3.1	4.5	3.0
	22.5	3.4	2.8	3.5	2.9	3.7	2.9	3.8	3.1	4.0	3.1	4.2	3.0	4.5	3.0
	25.0	3.3	2.8	3.4	2.9	3.7	2.9	3.8	3.1	3.9	3.1	4.2	3.0	4.4	3.0
	27.5	3.3	2.8	3.4	2.9	3.6	2.9	3.8	3.1	3.9	3.1	4.1	3.0	4.4	3.0
	30.0	3.3	2.8	3.3	2.9	3.6	2.8	3.7	3.0	3.8	3.0	4.1	3.0	4.4	3.0
	32.5	3.2	2.7	3.3	2.8	3.5	2.8	3.7	3.0	3.8	3.0	4.1	3.0	4.3	3.0
	35.0	3.2	2.7	3.3	2.8	3.5	2.8	3.6	3.0	3.8	3.0	4.0	3.0	4.3	2.9
	37.5	3.2	2.7	3.2	2.8	3.5	2.8	3.6	3.0	3.7	3.0	4.0	3.0	4.2	2.9
	40.0	3.1	2.7	3.2	2.8	3.4	2.8	3.5	3.0	3.7	3.0	3.9	3.0	4.2	2.9
	43.0	3.1	2.7	3.1	2.8	3.4	2.8	3.5	3.0	3.6	3.0	3.9	2.9	4.2	2.9
46.0	2.4	2.4	2.4	2.4	2.7	2.5	2.8	2.7	2.9	2.7	3.2	2.7	3.5	2.7	
40 (4.5)	20.0	4.3	3.4	4.4	3.6	4.7	3.5	4.8	3.8	5.0	3.8	5.3	3.7	5.7	3.7
	22.5	4.2	3.4	4.3	3.5	4.6	3.5	4.8	3.8	4.9	3.7	5.3	3.7	5.6	3.6
	25.0	4.2	3.4	4.3	3.5	4.6	3.5	4.7	3.7	4.9	3.7	5.2	3.7	5.6	3.6
	27.5	4.1	3.4	4.2	3.5	4.5	3.5	4.7	3.7	4.8	3.7	5.2	3.7	5.5	3.6
	30.0	4.1	3.4	4.2	3.5	4.5	3.4	4.6	3.7	4.8	3.7	5.1	3.6	5.5	3.6
	32.5	4.0	3.3	4.1	3.4	4.4	3.4	4.6	3.7	4.7	3.7	5.1	3.6	5.4	3.6
	35.0	4.0	3.3	4.1	3.4	4.4	3.4	4.5	3.6	4.7	3.6	5.0	3.6	5.4	3.6
	37.5	4.0	3.3	4.0	3.4	4.3	3.4	4.5	3.6	4.6	3.6	5.0	3.6	5.3	3.6
	40.0	3.9	3.3	4.0	3.4	4.3	3.4	4.4	3.6	4.6	3.6	4.9	3.6	5.3	3.5
	43.0	3.9	3.3	3.9	3.3	4.2	3.3	4.4	3.6	4.5	3.6	4.9	3.5	5.2	3.5
46.0	3.0	2.9	3.1	3.0	3.4	3.0	3.5	3.3	3.7	3.3	4.0	3.3	4.4	3.2	
50 (5.6)	20.0	5.3	4.0	5.5	4.1	5.8	4.1	6.0	4.3	6.2	4.3	6.6	4.3	7.0	4.2
	22.5	5.2	4.0	5.4	4.1	5.8	4.0	6.0	4.3	6.2	4.3	6.6	4.2	7.0	4.2
	25.0	5.2	3.9	5.3	4.0	5.7	4.0	5.9	4.3	6.1	4.2	6.5	4.2	6.9	4.2
	27.5	5.1	3.9	5.3	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.9	4.1
	30.0	5.1	3.9	5.2	4.0	5.6	4.0	5.8	4.2	6.0	4.2	6.4	4.2	6.8	4.1
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.2	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	5.0	3.8	5.1	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.7	4.1
	37.5	4.9	3.8	5.0	3.9	5.4	3.9	5.6	4.1	5.8	4.1	6.2	4.1	6.6	4.0
	40.0	4.9	3.8	4.9	3.9	5.3	3.8	5.5	4.1	5.7	4.1	6.1	4.1	6.5	4.0
	43.0	4.8	3.7	4.9	3.8	5.2	3.8	5.4	4.1	5.6	4.1	6.0	4.0	6.5	4.0
46.0	3.7	3.2	3.8	3.3	4.2	3.4	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6	
63 (7.1)	20.0	6.7	4.9	6.9	5.0	7.4	5.0	7.6	5.3	7.9	5.3	8.4	5.2	8.9	5.1
	22.5	6.6	4.9	6.8	5.0	7.3	5.0	7.6	5.3	7.8	5.2	8.3	5.2	8.8	5.1
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.2	8.2	5.1	8.8	5.1
	27.5	6.5	4.8	6.7	4.9	7.2	4.9	7.4	5.2	7.6	5.2	8.2	5.1	8.7	5.0
	30.0	6.4	4.8	6.6	4.9	7.1	4.9	7.3	5.1	7.6	5.1	8.1	5.1	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.1	8.0	5.0	8.5	5.0
	35.0	6.3	4.7	6.4	4.8	6.9	4.8	7.1	5.0	7.4	5.1	7.9	5.0	8.5	5.0
	37.5	6.2	4.7	6.3	4.8	6.8	4.7	7.1	5.0	7.3	5.0	7.8	5.0	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	5.0	7.2	5.0	7.8	5.0	8.3	4.9
	43.0	6.1	4.6	6.2	4.7	6.7	4.7	6.9	5.0	7.1	5.0	7.7	4.9	8.2	4.9
46.0	4.7	3.9	4.8	4.0	5.3	4.1	5.6	4.4	5.8	4.4	6.3	4.4	6.9	4.4	
80 (9.0)	20.0	8.5	6.1	8.8	6.2	9.4	6.2	9.7	6.6	10.0	6.5	10.6	6.5	11.3	6.4
	22.5	8.4	6.0	8.7	6.2	9.3	6.2	9.6	6.5	9.9	6.5	10.5	6.4	11.2	6.3
	25.0	8.3	6.0	8.6	6.1	9.2	6.1	9.5	6.5	9.8	6.4	10.4	6.4	11.1	6.3
	27.5	8.3	6.0	8.5	6.1	9.1	6.1	9.4	6.4	9.7	6.4	10.3	6.3	11.0	6.3
	30.0	8.2	5.9	8.4	6.0	9.0	6.0	9.3	6.4	9.6	6.4	10.2	6.3	10.9	6.2
	32.5	8.1	5.9	8.3	6.0	8.9	6.0	9.2	6.3	9.5	6.3	10.1	6.3	10.8	6.2
	35.0	8.0	5.8	8.1	5.9	8.8	5.9	9.0	6.3	9.4	6.3	10.0	6.2	10.7	6.2
	37.5	7.9	5.8	8.0	5.9	8.7	5.9	9.0	6.2	9.3	6.2	9.9	6.2	10.6	6.1
	40.0	7.8	5.7	7.9	5.8	8.6	5.8	8.9	6.2	9.2	6.2	9.8	6.1	10.5	6.1
	43.0	7.7	5.7	7.8	5.8	8.4	5.8	8.7	6.1	9.1	6.1	9.7	6.1	10.4	6.0
46.0	6.0	4.9	6.1	5.0	6.7	5.0	7.0	5.4	7.4	5.4	8.0	5.4	8.7	5.4	
100 (11.2)	20.0	10.6	7.6	10.9	7.8	11.7	7.8	12.0	8.2	12.4	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.6	10.8	7.8	11.5	7.7	11.9	8.2	12.3	8.1	13.1	8.0	13.9	7.9
	25.0	10.4	7.5	10.6	7.7	11.4	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	27.5	10.3	7.5	10.5	7.6	11.3	7.6	11.7	8.0	12.1	8.0	12.9	7.9	13.7	7.8
	30.0	10.2	7.4	10.4	7.6	11.2	7.5	11.5	8.0	11.9	8.0	12.7	7.9	13.6	7.8
	32.5	10.1	7.3	10.3	7.5	11.0	7.5	11.4	7.9	11.8	7.9	12.6	7.8	13.5	7.7
	35.0	9.9	7.3	10.1	7.4	10.9	7.4	11.2	7.8	11.7	7.8	12.5	7.8	13.3	7.7
	37.5	9.8	7.2	10.0	7.4	10.8	7.4	11.2	7.8	11.6	7.8	12.4	7.7	13.2	7.7
	40.0	9.7	7.2	9.9	7.3	10.6	7.3	11.0	7.8	11.4	7.7	12.2	7.7	13.1	7.6
	43.0	9.6	7.1	9.7	7.2	10.5	7.2	10.9	7.7	11.3	7.7	12.1	7.6	12.9	7.6
46.0	7.5	6.1	7.6	6.3	8.4	6.3	8.8	6.8	9.2	6.8	10.0	6.8	10.8	6.8	
125 (14.0)	20.0	13.2	9.3	13.6	9.5	14.6	9.5	15.1	10.0	15.5	9.9	16.5	9.8	17.6	9.7
	22.5	13.1	9.2	13.5	9.4	14.4	9.4	14.9	9.9	15.4	9.8	16.4	9.7	17.4	9.6
	25.0	13.0	9.1	13.3	9.3	14.3	9.3	14.7	9.8	15.2	9.8	16.2	9.7	17.3	9.5
	27.5	12.8	9.1	13.2	9.3	14.1	9.2	14.6	9.7	15.1	9.7	16.1	9.6	17.1	9.5
	30.0	12.7	9.0	13.0	9.2	13.9	9.2	14.4	9.7	14.9	9.6	15.9	9.5	17.0	9.4
	32.5	12.6	8.9	12.8	9.1	13.8	9.1	14.3	9.6	14.8	9.6	15.8	9.5	16.8	9.4
	35.0	12.4	8.9	12.7	9.0	13.6	9.0	14.0	9.5	14.6	9.5	15.6	9.4	16.7	9.3
	37.5	12.3	8.8	12.5	8.9	13.5	8.9	14.0	9.4	14.4	9.4	15.5	9.3	16.5	9.3
	40.0	12.2	8.7	12.4	8.9	13.3	8.9	13.8	9.4	14.3	9.3	15.3	9.3	16.4	9.2
	43.0	12.0	8.6	12.2	8.8	13.1	8.8	13.6	9.3	14.1	9.3	15.1	9.2	16.2	9.1
46.0	9.4	7.3	9.5	7.5	10.5	7.6	11.0	8.1	11.5	8.1	12.5	8.2	13.5	8.2	

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

# 6. Cooling [Ceiling suspended]

EP-YKM

CT

## 6-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PCFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.3	5.0	3.3	5.3	3.3	5.7	3.2
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.3	5.0	3.3	5.3	3.3	5.7	3.2
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.3	5.0	3.3	5.3	3.2	5.6	3.2
	27.5	4.3	3.1	4.4	3.1	4.6	3.1	4.8	3.3	4.9	3.2	5.2	3.2	5.5	3.1
	30.0	4.2	3.0	4.3	3.1	4.6	3.1	4.7	3.2	4.8	3.2	5.1	3.2	5.4	3.1
	32.5	4.1	3.0	4.2	3.1	4.5	3.0	4.6	3.2	4.7	3.2	5.0	3.1	5.3	3.1
	35.0	4.0	3.0	4.1	3.0	4.4	3.0	4.5	3.2	4.6	3.1	4.9	3.1	5.2	3.0
	37.5	4.0	2.9	4.1	3.0	4.3	3.0	4.4	3.1	4.5	3.1	4.8	3.0	5.0	3.0
	40.0	3.9	2.9	4.0	3.0	4.2	2.9	4.3	3.1	4.4	3.1	4.7	3.0	4.9	2.9
	43.0	3.8	2.8	3.9	2.9	4.1	2.9	4.2	3.0	4.3	3.0	4.5	2.9	4.8	2.9
46.0	2.9	2.4	3.0	2.5	3.3	2.5	3.4	2.7	3.5	2.7	3.7	2.6	4.0	2.6	
63 (7.1)	20.0	6.7	4.8	7.0	4.9	7.5	4.9	7.7	5.2	7.9	5.1	8.4	5.1	9.0	5.0
	22.5	6.7	4.8	7.0	4.9	7.5	4.9	7.7	5.2	7.9	5.1	8.4	5.1	9.0	5.0
	25.0	6.7	4.8	7.0	4.9	7.5	4.9	7.7	5.1	7.9	5.1	8.3	5.0	8.8	5.0
	27.5	6.7	4.8	6.9	4.9	7.3	4.8	7.5	5.1	7.7	5.0	8.1	5.0	8.7	4.9
	30.0	6.6	4.7	6.8	4.8	7.2	4.8	7.4	5.0	7.6	5.0	8.0	4.9	8.5	4.8
	32.5	6.5	4.7	6.7	4.8	7.1	4.7	7.2	5.0	7.4	4.9	7.8	4.8	8.3	4.8
	35.0	6.4	4.6	6.5	4.7	6.9	4.7	7.1	4.9	7.3	4.9	7.7	4.8	8.1	4.7
	37.5	6.2	4.5	6.4	4.6	6.8	4.6	7.0	4.8	7.2	4.8	7.5	4.7	8.0	4.6
	40.0	6.1	4.5	6.3	4.6	6.7	4.5	6.8	4.8	7.0	4.7	7.4	4.6	7.8	4.6
	43.0	6.0	4.4	6.1	4.5	6.5	4.5	6.7	4.7	6.9	4.7	7.2	4.6	7.6	4.5
46.0	4.6	3.7	4.8	3.9	5.2	3.9	5.3	4.1	5.5	4.1	5.8	4.0	6.2	4.0	
100 (11.2)	20.0	10.6	7.4	11.0	7.6	11.8	7.6	12.1	8.0	12.5	7.9	13.2	7.8	14.2	7.8
	22.5	10.6	7.4	11.0	7.6	11.8	7.6	12.1	8.0	12.5	7.9	13.2	7.8	14.2	7.8
	25.0	10.6	7.4	11.0	7.6	11.8	7.6	12.1	8.0	12.4	7.9	13.1	7.8	13.9	7.7
	27.5	10.6	7.4	10.9	7.6	11.6	7.5	11.9	7.9	12.2	7.8	12.9	7.7	13.7	7.6
	30.0	10.4	7.3	10.7	7.5	11.3	7.4	11.6	7.8	12.0	7.7	12.6	7.6	13.4	7.4
	32.5	10.2	7.2	10.5	7.4	11.1	7.3	11.4	7.7	11.7	7.6	12.4	7.5	13.1	7.3
	35.0	10.0	7.1	10.3	7.3	10.9	7.2	11.2	7.5	11.5	7.5	12.1	7.3	12.8	7.2
	37.5	9.8	7.0	10.1	7.2	10.7	7.1	11.0	7.5	11.3	7.4	11.9	7.2	12.6	7.1
	40.0	9.6	6.9	9.9	7.1	10.5	7.0	10.8	7.4	11.1	7.3	11.6	7.1	12.3	7.0
	43.0	9.4	6.8	9.7	7.0	10.2	6.9	10.5	7.2	10.8	7.2	11.3	7.0	12.0	6.9
46.0	7.3	5.7	7.6	5.9	8.1	5.9	8.4	6.3	8.7	6.3	9.2	6.2	9.8	6.1	
125 (14.0)	20.0	13.3	9.2	13.8	9.5	14.7	9.5	15.2	9.9	15.6	9.9	16.6	9.7	17.7	9.6
	22.5	13.3	9.2	13.8	9.5	14.7	9.5	15.2	9.9	15.6	9.9	16.6	9.7	17.7	9.6
	25.0	13.3	9.2	13.8	9.5	14.7	9.5	15.1	9.9	15.5	9.8	16.4	9.7	17.4	9.5
	27.5	13.3	9.2	13.6	9.4	14.4	9.3	14.8	9.8	15.2	9.7	16.1	9.5	17.1	9.4
	30.0	13.0	9.1	13.4	9.3	14.2	9.2	14.6	9.6	14.9	9.6	15.8	9.4	16.7	9.3
	32.5	12.8	9.0	13.2	9.2	13.9	9.1	14.3	9.5	14.7	9.4	15.4	9.3	16.4	9.1
	35.0	12.5	8.8	12.9	9.1	13.7	8.9	14.0	9.4	14.4	9.3	15.1	9.1	16.0	9.0
	37.5	12.3	8.7	12.7	8.9	13.4	8.8	13.8	9.3	14.1	9.2	14.8	9.0	15.7	8.9
	40.0	12.1	8.6	12.4	8.8	13.1	8.7	13.5	9.1	13.8	9.1	14.5	8.9	15.4	8.7
	43.0	11.8	8.4	12.1	8.7	12.8	8.5	13.2	9.0	13.5	8.9	14.1	8.7	15.0	8.6
46.0	9.1	7.1	9.5	7.4	10.2	7.4	10.5	7.8	10.9	7.8	11.5	7.7	12.3	7.6	

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

# 6. Cooling [Ceiling suspended]

EP-YKM

## 6-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PCFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.4	3.1	4.5	3.2	4.9	3.2	5.0	3.4	5.2	3.4	5.5	3.3	5.8	3.3
	22.5	4.4	3.1	4.5	3.2	4.8	3.2	4.9	3.4	5.1	3.3	5.4	3.3	5.7	3.2
	25.0	4.3	3.1	4.4	3.2	4.7	3.1	4.9	3.3	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.3	4.9	3.3	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.2	4.8	3.2	5.1	3.2	5.4	3.1
	32.5	4.1	3.0	4.2	3.0	4.4	3.0	4.6	3.2	4.7	3.2	5.0	3.1	5.3	3.1
	35.0	4.0	2.9	4.1	3.0	4.3	3.0	4.5	3.2	4.6	3.1	4.9	3.1	5.2	3.0
	37.5	3.9	2.9	4.0	3.0	4.2	2.9	4.4	3.1	4.5	3.1	4.8	3.0	5.1	3.0
	40.0	3.9	2.9	3.9	2.9	4.2	2.9	4.3	3.1	4.4	3.0	4.7	3.0	5.0	3.0
	43.0	3.8	2.8	3.8	2.9	4.0	2.8	4.2	3.0	4.3	3.0	4.6	3.0	4.8	2.9
46.0	2.9	2.4	3.0	2.5	3.2	2.5	3.3	2.7	3.5	2.7	3.7	2.6	4.0	2.6	
63 (7.1)	20.0	6.9	4.9	7.1	5.0	7.7	5.0	7.9	5.3	8.2	5.3	8.7	5.2	9.2	5.1
	22.5	6.9	4.9	7.1	5.0	7.6	5.0	7.8	5.2	8.0	5.2	8.5	5.1	9.1	5.0
	25.0	6.8	4.8	7.0	4.9	7.4	4.9	7.7	5.1	7.9	5.1	8.4	5.1	8.9	5.0
	27.5	6.7	4.7	6.8	4.8	7.3	4.8	7.5	5.1	7.7	5.0	8.2	5.0	8.7	4.9
	30.0	6.5	4.7	6.7	4.8	7.1	4.7	7.4	5.0	7.6	5.0	8.1	4.9	8.5	4.8
	32.5	6.4	4.6	6.6	4.7	7.0	4.7	7.2	4.9	7.4	4.9	7.9	4.9	8.4	4.8
	35.0	6.3	4.6	6.4	4.6	6.8	4.6	7.1	4.9	7.3	4.8	7.7	4.8	8.2	4.7
	37.5	6.2	4.5	6.3	4.6	6.7	4.5	6.9	4.8	7.1	4.8	7.6	4.7	8.0	4.6
	40.0	6.1	4.5	6.2	4.5	6.6	4.5	6.8	4.7	7.0	4.7	7.4	4.7	7.8	4.6
	43.0	6.0	4.4	6.0	4.4	6.4	4.4	6.6	4.7	6.8	4.6	7.2	4.6	7.6	4.5
46.0	4.6	3.7	4.7	3.8	5.0	3.8	5.2	4.1	5.5	4.1	5.9	4.1	6.3	4.0	
100 (11.2)	20.0	10.9	7.6	11.3	7.8	12.1	7.8	12.5	8.2	12.9	8.1	13.7	8.0	14.5	7.9
	22.5	10.8	7.5	11.2	7.7	11.9	7.7	12.3	8.1	12.7	8.0	13.5	7.9	14.3	7.8
	25.0	10.7	7.5	11.0	7.6	11.7	7.6	12.1	8.0	12.5	7.9	13.2	7.8	14.0	7.7
	27.5	10.5	7.4	10.8	7.5	11.5	7.5	11.8	7.8	12.2	7.8	13.0	7.7	13.7	7.6
	30.0	10.3	7.3	10.6	7.4	11.2	7.4	11.6	7.7	12.0	7.7	12.7	7.6	13.5	7.5
	32.5	10.2	7.2	10.3	7.3	11.0	7.2	11.4	7.6	11.7	7.6	12.4	7.5	13.2	7.4
	35.0	10.0	7.1	10.1	7.2	10.8	7.1	11.2	7.5	11.5	7.5	12.2	7.4	12.9	7.3
	37.5	9.8	7.0	9.9	7.1	10.6	7.0	10.9	7.4	11.2	7.4	11.9	7.3	12.6	7.2
	40.0	9.6	6.9	9.7	7.0	10.3	6.9	10.7	7.3	11.0	7.3	11.7	7.2	12.4	7.1
	43.0	9.4	6.8	9.5	6.9	10.1	6.8	10.4	7.2	10.7	7.1	11.4	7.1	12.1	6.9
46.0	7.3	5.7	7.3	5.8	8.0	5.9	8.3	6.3	8.6	6.3	9.3	6.2	9.9	6.2	
125 (14.0)	20.0	13.6	9.4	14.1	9.7	15.1	9.7	15.7	10.2	16.2	10.1	17.2	10.0	18.2	9.8
	22.5	13.6	9.4	14.0	9.6	14.9	9.6	15.4	10.0	15.9	10.0	16.8	9.9	17.8	9.7
	25.0	13.3	9.3	13.7	9.5	14.6	9.4	15.1	9.9	15.6	9.8	16.5	9.7	17.5	9.6
	27.5	13.1	9.2	13.5	9.3	14.3	9.3	14.8	9.8	15.3	9.7	16.2	9.6	17.2	9.4
	30.0	12.9	9.0	13.2	9.2	14.1	9.1	14.5	9.6	15.0	9.6	15.9	9.4	16.8	9.3
	32.5	12.7	8.9	12.9	9.1	13.8	9.0	14.2	9.5	14.7	9.4	15.6	9.3	16.5	9.2
	35.0	12.5	8.8	12.7	8.9	13.5	8.9	14.0	9.4	14.4	9.3	15.2	9.2	16.2	9.0
	37.5	12.3	8.7	12.4	8.8	13.2	8.7	13.6	9.2	14.1	9.2	14.9	9.0	15.8	8.9
	40.0	12.0	8.6	12.2	8.7	12.9	8.6	13.3	9.1	13.8	9.0	14.6	8.9	15.5	8.8
	43.0	11.8	8.4	11.8	8.5	12.6	8.4	13.0	8.9	13.4	8.9	14.2	8.8	15.1	8.6
46.0	9.1	7.1	9.2	7.2	9.9	7.3	10.3	7.8	10.8	7.8	11.6	7.7	12.4	7.7	

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

# 6. Cooling [Ceiling suspended]

EP-YKM

CT

## 6-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PCFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
40 (4.5)	20.0	4.3	3.1	4.4	3.1	4.7	3.1	4.8	3.3	5.0	3.3	5.3	3.3	5.7	3.2
	22.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.3	4.9	3.3	5.3	3.2	5.6	3.2
	25.0	4.2	3.0	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.2	5.2	3.2	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.2	4.8	3.2	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.0	4.5	3.0	4.6	3.2	4.8	3.2	5.1	3.2	5.5	3.1
	32.5	4.0	3.0	4.1	3.0	4.4	3.0	4.6	3.2	4.7	3.2	5.1	3.2	5.4	3.1
	35.0	4.0	2.9	4.1	3.0	4.4	3.0	4.5	3.2	4.7	3.2	5.0	3.1	5.4	3.1
	37.5	4.0	2.9	4.0	3.0	4.3	3.0	4.5	3.1	4.6	3.1	5.0	3.1	5.3	3.1
	40.0	3.9	2.9	4.0	2.9	4.3	2.9	4.4	3.1	4.6	3.1	4.9	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	2.9	4.2	2.9	4.4	3.1	4.5	3.1	4.9	3.1	5.2	3.0
46.0	3.0	2.5	3.1	2.5	3.4	2.5	3.5	2.7	3.7	2.7	4.0	2.7	4.4	2.7	
63 (7.1)	20.0	6.7	4.8	6.9	4.9	7.4	4.9	7.6	5.1	7.9	5.1	8.4	5.1	8.9	5.0
	22.5	6.6	4.7	6.8	4.9	7.3	4.8	7.6	5.1	7.8	5.1	8.3	5.0	8.8	5.0
	25.0	6.6	4.7	6.8	4.8	7.2	4.8	7.5	5.1	7.7	5.0	8.2	5.0	8.8	4.9
	27.5	6.5	4.7	6.7	4.8	7.2	4.8	7.4	5.0	7.6	5.0	8.2	5.0	8.7	4.9
	30.0	6.4	4.6	6.6	4.7	7.1	4.7	7.3	5.0	7.6	5.0	8.1	4.9	8.6	4.9
	32.5	6.4	4.6	6.5	4.7	7.0	4.7	7.2	4.9	7.5	4.9	8.0	4.9	8.5	4.8
	35.0	6.3	4.6	6.4	4.6	6.9	4.6	7.1	4.9	7.4	4.9	7.9	4.9	8.5	4.8
	37.5	6.2	4.5	6.3	4.6	6.8	4.6	7.1	4.9	7.3	4.9	7.8	4.8	8.4	4.8
	40.0	6.2	4.5	6.3	4.6	6.7	4.6	7.0	4.8	7.2	4.8	7.8	4.8	8.3	4.8
	43.0	6.1	4.5	6.2	4.5	6.7	4.5	6.9	4.8	7.1	4.8	7.7	4.8	8.2	4.7
46.0	4.7	3.8	4.8	3.9	5.3	3.9	5.6	4.2	5.8	4.2	6.3	4.2	6.9	4.2	
100 (11.2)	20.0	10.6	7.4	10.9	7.6	11.7	7.6	12.0	7.9	12.4	7.9	13.2	7.8	14.1	7.7
	22.5	10.5	7.3	10.8	7.5	11.5	7.5	11.9	7.9	12.3	7.8	13.1	7.8	13.9	7.7
	25.0	10.4	7.3	10.6	7.5	11.4	7.4	11.8	7.8	12.2	7.8	13.0	7.7	13.8	7.6
	27.5	10.3	7.2	10.5	7.4	11.3	7.4	11.7	7.8	12.1	7.7	12.9	7.7	13.7	7.6
	30.0	10.2	7.2	10.4	7.3	11.2	7.3	11.5	7.7	11.9	7.7	12.7	7.6	13.6	7.5
	32.5	10.1	7.1	10.3	7.3	11.0	7.2	11.4	7.6	11.8	7.6	12.6	7.6	13.5	7.5
	35.0	9.9	7.1	10.1	7.2	10.9	7.2	11.2	7.5	11.7	7.6	12.5	7.5	13.3	7.4
	37.5	9.8	7.0	10.0	7.1	10.8	7.1	11.2	7.5	11.6	7.5	12.4	7.5	13.2	7.4
	40.0	9.7	7.0	9.9	7.1	10.6	7.1	11.0	7.5	11.4	7.5	12.2	7.4	13.1	7.3
	43.0	9.6	6.9	9.7	7.0	10.5	7.0	10.9	7.4	11.3	7.4	12.1	7.3	12.9	7.3
46.0	7.5	5.8	7.6	6.0	8.4	6.0	8.8	6.5	9.2	6.5	10.0	6.5	10.8	6.5	
125 (14.0)	20.0	13.2	9.2	13.6	9.4	14.6	9.4	15.1	9.9	15.5	9.8	16.5	9.7	17.6	9.6
	22.5	13.1	9.1	13.5	9.3	14.4	9.3	14.9	9.8	15.4	9.8	16.4	9.7	17.4	9.5
	25.0	13.0	9.1	13.3	9.3	14.3	9.2	14.7	9.7	15.2	9.7	16.2	9.6	17.3	9.5
	27.5	12.8	9.0	13.2	9.2	14.1	9.2	14.6	9.6	15.1	9.6	16.1	9.5	17.1	9.4
	30.0	12.7	8.9	13.0	9.1	13.9	9.1	14.4	9.6	14.9	9.5	15.9	9.5	17.0	9.3
	32.5	12.6	8.9	12.8	9.0	13.8	9.0	14.3	9.5	14.8	9.5	15.8	9.4	16.8	9.3
	35.0	12.4	8.8	12.7	8.9	13.6	8.9	14.0	9.4	14.6	9.4	15.6	9.3	16.7	9.2
	37.5	12.3	8.7	12.5	8.9	13.5	8.9	14.0	9.4	14.4	9.3	15.5	9.3	16.5	9.2
	40.0	12.2	8.6	12.4	8.8	13.3	8.8	13.8	9.3	14.3	9.3	15.3	9.2	16.4	9.1
	43.0	12.0	8.6	12.2	8.7	13.1	8.7	13.6	9.2	14.1	9.2	15.1	9.1	16.2	9.0
46.0	9.4	7.2	9.5	7.4	10.5	7.5	11.0	8.0	11.5	8.0	12.5	8.1	13.5	8.1	

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



# 6. Cooling [Ceiling suspended]

EP-YKM

## 6-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PCFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
40 (4.5)	20.0	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.4	5.2	3.4	5.5	3.3	5.9	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.3	5.1	3.3	5.4	3.3	5.8	3.3
	25.0	4.2	3.0	4.3	3.1	4.7	3.1	4.8	3.3	5.0	3.3	5.3	3.3	5.7	3.2
	27.5	4.1	3.0	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.2	5.6	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.0	4.7	3.2	4.8	3.2	5.1	3.2	5.5	3.1
	32.5	4.0	2.9	4.1	3.0	4.4	3.0	4.6	3.2	4.7	3.2	5.0	3.1	5.4	3.1
	35.0	3.9	2.9	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.1	4.9	3.1	5.3	3.1
	37.5	3.8	2.9	4.0	2.9	4.2	2.9	4.4	3.1	4.5	3.1	4.8	3.1	5.2	3.0
	40.0	3.8	2.8	3.9	2.9	4.2	2.9	4.3	3.1	4.5	3.1	4.8	3.0	5.1	3.0
	43.0	3.7	2.8	3.8	2.9	4.1	2.8	4.2	3.0	4.3	3.0	4.6	3.0	4.9	2.9
46.0	2.8	2.4	2.9	2.5	3.2	2.5	3.4	2.7	3.5	2.7	3.8	2.7	4.1	2.6	
63 (7.1)	20.0	6.9	4.8	7.1	5.0	7.6	5.0	7.9	5.3	8.2	5.2	8.7	5.2	9.3	5.1
	22.5	6.7	4.8	7.0	4.9	7.5	4.9	7.8	5.2	8.0	5.2	8.6	5.1	9.1	5.1
	25.0	6.6	4.7	6.9	4.9	7.4	4.9	7.6	5.1	7.9	5.1	8.4	5.1	8.9	5.0
	27.5	6.5	4.7	6.7	4.8	7.2	4.8	7.5	5.1	7.7	5.0	8.3	5.0	8.8	4.9
	30.0	6.4	4.6	6.6	4.7	7.1	4.7	7.3	5.0	7.6	5.0	8.1	4.9	8.6	4.9
	32.5	6.3	4.5	6.5	4.7	7.0	4.7	7.2	4.9	7.5	4.9	7.9	4.9	8.5	4.8
	35.0	6.2	4.5	6.4	4.6	6.8	4.6	7.1	4.9	7.3	4.9	7.8	4.8	8.3	4.7
	37.5	6.1	4.4	6.2	4.6	6.7	4.5	6.9	4.8	7.2	4.8	7.6	4.8	8.1	4.7
	40.0	5.9	4.4	6.1	4.5	6.6	4.5	6.8	4.8	7.0	4.7	7.5	4.7	8.0	4.6
	43.0	5.8	4.3	6.0	4.4	6.4	4.4	6.6	4.7	6.9	4.7	7.3	4.6	7.8	4.6
46.0	4.5	3.7	4.6	3.8	5.1	3.8	5.3	4.1	5.5	4.1	6.0	4.1	6.4	4.1	
100 (11.2)	20.0	10.8	7.5	11.2	7.7	12.0	7.7	12.5	8.1	12.9	8.1	13.7	8.0	14.6	7.9
	22.5	10.6	7.4	11.0	7.6	11.8	7.6	12.2	8.0	12.6	8.0	13.5	7.9	14.4	7.8
	25.0	10.5	7.3	10.8	7.5	11.6	7.5	12.0	7.9	12.4	7.9	13.3	7.8	14.1	7.7
	27.5	10.3	7.2	10.6	7.4	11.4	7.4	11.8	7.8	12.2	7.8	13.0	7.7	13.8	7.6
	30.0	10.1	7.1	10.4	7.3	11.2	7.3	11.6	7.7	12.0	7.7	12.8	7.6	13.6	7.5
	32.5	9.9	7.0	10.2	7.2	11.0	7.2	11.4	7.6	11.8	7.6	12.5	7.5	13.3	7.4
	35.0	9.7	7.0	10.0	7.1	10.8	7.1	11.2	7.5	11.5	7.5	12.3	7.4	13.1	7.3
	37.5	9.5	6.9	9.8	7.0	10.6	7.0	10.9	7.4	11.3	7.4	12.1	7.3	12.8	7.2
	40.0	9.4	6.8	9.6	6.9	10.4	6.9	10.7	7.3	11.1	7.3	11.8	7.2	12.6	7.1
	43.0	9.2	6.7	9.4	6.8	10.1	6.8	10.5	7.2	10.8	7.2	11.5	7.1	12.3	7.0
46.0	7.0	5.6	7.3	5.8	8.0	5.9	8.3	6.3	8.7	6.3	9.4	6.3	10.2	6.3	
125 (14.0)	20.0	13.5	9.4	14.0	9.6	15.0	9.6	15.6	10.1	16.1	10.1	17.2	10.0	18.3	9.9
	22.5	13.3	9.2	13.8	9.5	14.8	9.5	15.3	10.0	15.8	10.0	16.9	9.9	17.9	9.7
	25.0	13.1	9.1	13.5	9.4	14.5	9.4	15.0	9.9	15.5	9.8	16.6	9.7	17.6	9.6
	27.5	12.8	9.0	13.3	9.2	14.3	9.2	14.8	9.7	15.3	9.7	16.3	9.6	17.3	9.5
	30.0	12.6	8.9	13.0	9.1	14.0	9.1	14.5	9.6	15.0	9.6	16.0	9.5	17.0	9.4
	32.5	12.4	8.8	12.8	9.0	13.7	9.0	14.2	9.5	14.7	9.4	15.7	9.4	16.7	9.2
	35.0	12.2	8.6	12.5	8.9	13.5	8.9	14.0	9.4	14.4	9.3	15.4	9.2	16.4	9.1
	37.5	11.9	8.5	12.3	8.7	13.2	8.7	13.7	9.2	14.1	9.2	15.1	9.1	16.0	9.0
	40.0	11.7	8.4	12.1	8.6	12.9	8.6	13.4	9.1	13.9	9.1	14.8	9.0	15.7	8.9
	43.0	11.4	8.3	11.8	8.5	12.6	8.5	13.1	9.0	13.5	8.9	14.4	8.8	15.4	8.7
46.0	8.8	7.0	9.1	7.2	10.0	7.3	10.4	7.8	10.9	7.8	11.8	7.8	12.7	7.8	

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

# 6. Cooling [Ceiling suspended]

EP-YKM

CT

## 6-5. Cooling capacity with PUHY-EP850-900YSKM

PCFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
40 (4.5)	20.0	4.3	3.1	4.4	3.1	4.7	3.1	4.8	3.3	5.0	3.3	5.3	3.3	5.7	3.2
	22.5	4.2	3.0	4.3	3.1	4.6	3.1	4.8	3.3	4.9	3.3	5.3	3.2	5.6	3.2
	25.0	4.2	3.0	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.2	5.2	3.2	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.2	4.8	3.2	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.0	4.5	3.0	4.6	3.2	4.8	3.2	5.1	3.2	5.5	3.1
	32.5	4.0	3.0	4.1	3.0	4.4	3.0	4.6	3.2	4.7	3.2	5.1	3.2	5.4	3.1
	35.0	4.0	2.9	4.1	3.0	4.4	3.0	4.5	3.2	4.7	3.2	5.0	3.1	5.4	3.1
	37.5	4.0	2.9	4.0	3.0	4.3	3.0	4.5	3.1	4.6	3.1	5.0	3.1	5.3	3.1
	40.0	3.9	2.9	4.0	2.9	4.3	2.9	4.4	3.1	4.6	3.1	4.9	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	2.9	4.2	2.9	4.4	3.1	4.5	3.1	4.9	3.1	5.2	3.0
46.0	3.0	2.5	3.1	2.5	3.4	2.5	3.5	2.7	3.7	2.7	4.0	2.7	4.4	2.7	
63 (7.1)	20.0	6.7	4.8	6.9	4.9	7.4	4.9	7.6	5.1	7.9	5.1	8.4	5.1	8.9	5.0
	22.5	6.6	4.7	6.8	4.9	7.3	4.8	7.6	5.1	7.8	5.1	8.3	5.0	8.8	5.0
	25.0	6.6	4.7	6.8	4.8	7.2	4.8	7.5	5.1	7.7	5.0	8.2	5.0	8.8	4.9
	27.5	6.5	4.7	6.7	4.8	7.2	4.8	7.4	5.0	7.6	5.0	8.2	5.0	8.7	4.9
	30.0	6.4	4.6	6.6	4.7	7.1	4.7	7.3	5.0	7.6	5.0	8.1	4.9	8.6	4.9
	32.5	6.4	4.6	6.5	4.7	7.0	4.7	7.2	4.9	7.5	4.9	8.0	4.9	8.5	4.8
	35.0	6.3	4.6	6.4	4.6	6.9	4.6	7.1	4.9	7.4	4.9	7.9	4.9	8.5	4.8
	37.5	6.2	4.5	6.3	4.6	6.8	4.6	7.1	4.9	7.3	4.9	7.8	4.8	8.4	4.8
	40.0	6.2	4.5	6.3	4.6	6.7	4.6	7.0	4.8	7.2	4.8	7.8	4.8	8.3	4.8
	43.0	6.1	4.5	6.2	4.5	6.7	4.5	6.9	4.8	7.1	4.8	7.7	4.8	8.2	4.7
46.0	4.7	3.8	4.8	3.9	5.3	3.9	5.6	4.2	5.8	4.2	6.3	4.2	6.9	4.2	
100 (11.2)	20.0	10.6	7.4	10.9	7.6	11.7	7.6	12.0	7.9	12.4	7.9	13.2	7.8	14.1	7.7
	22.5	10.5	7.3	10.8	7.5	11.5	7.5	11.9	7.9	12.3	7.8	13.1	7.8	13.9	7.7
	25.0	10.4	7.3	10.6	7.5	11.4	7.4	11.8	7.8	12.2	7.8	13.0	7.7	13.8	7.6
	27.5	10.3	7.2	10.5	7.4	11.3	7.4	11.7	7.8	12.1	7.7	12.9	7.7	13.7	7.6
	30.0	10.2	7.2	10.4	7.3	11.2	7.3	11.5	7.7	11.9	7.7	12.7	7.6	13.6	7.5
	32.5	10.1	7.1	10.3	7.3	11.0	7.2	11.4	7.6	11.8	7.6	12.6	7.6	13.5	7.5
	35.0	9.9	7.1	10.1	7.2	10.9	7.2	11.2	7.5	11.7	7.6	12.5	7.5	13.3	7.4
	37.5	9.8	7.0	10.0	7.1	10.8	7.1	11.2	7.5	11.6	7.5	12.4	7.5	13.2	7.4
	40.0	9.7	7.0	9.9	7.1	10.6	7.1	11.0	7.5	11.4	7.5	12.2	7.4	13.1	7.3
	43.0	9.6	6.9	9.7	7.0	10.5	7.0	10.9	7.4	11.3	7.4	12.1	7.3	12.9	7.3
46.0	7.5	5.8	7.6	6.0	8.4	6.0	8.8	6.5	9.2	6.5	10.0	6.5	10.8	6.5	
125 (14.0)	20.0	13.2	9.2	13.6	9.4	14.6	9.4	15.1	9.9	15.5	9.8	16.5	9.7	17.6	9.6
	22.5	13.1	9.1	13.5	9.3	14.4	9.3	14.9	9.8	15.4	9.8	16.4	9.7	17.4	9.5
	25.0	13.0	9.1	13.3	9.3	14.3	9.2	14.7	9.7	15.2	9.7	16.2	9.6	17.3	9.5
	27.5	12.8	9.0	13.2	9.2	14.1	9.2	14.6	9.6	15.1	9.6	16.1	9.5	17.1	9.4
	30.0	12.7	8.9	13.0	9.1	13.9	9.1	14.4	9.6	14.9	9.5	15.9	9.5	17.0	9.3
	32.5	12.6	8.9	12.8	9.0	13.8	9.0	14.3	9.5	14.8	9.5	15.8	9.4	16.8	9.3
	35.0	12.4	8.8	12.7	8.9	13.6	8.9	14.0	9.4	14.6	9.4	15.6	9.3	16.7	9.2
	37.5	12.3	8.7	12.5	8.9	13.5	8.9	14.0	9.4	14.4	9.3	15.5	9.3	16.5	9.2
	40.0	12.2	8.6	12.4	8.8	13.3	8.8	13.8	9.3	14.3	9.3	15.3	9.2	16.4	9.1
	43.0	12.0	8.6	12.2	8.7	13.1	8.7	13.6	9.2	14.1	9.2	15.1	9.1	16.2	9.0
46.0	9.4	7.2	9.5	7.4	10.5	7.5	11.0	8.0	11.5	8.0	12.5	8.1	13.5	8.1	

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

# 7. Cooling [Wall mounted]

EP-YKM

## 7-1. Cooling capacity with PUHY, PURY-EP200-250YKM

CT

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	22.5	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	25.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	30.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	32.5	1.6	1.1	1.6	1.2	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	43.0	1.4	1.1	1.5	1.1	1.6	1.1	1.6	1.1	1.6	1.1	1.7	1.1	1.8	1.1
46.0	1.1	0.9	1.1	1.0	1.2	0.9	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0	
20 (2.2)	20.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.3	1.5	2.5	1.5	2.6	1.5
	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
	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
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.3	1.5	2.5	1.4
	40.0	1.9	1.4	2.0	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.3	1.4	2.4	1.4
	43.0	1.8	1.4	1.9	1.4	2.0	1.4	2.1	1.5	2.1	1.4	2.2	1.4	2.3	1.4
46.0	1.4	1.2	1.5	1.2	1.6	1.2	1.7	1.3	1.7	1.3	1.8	1.3	1.9	1.2	
25 (2.8)	20.0	2.7	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	2.0
	22.5	2.7	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	2.0
	25.0	2.7	1.9	2.8	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.7	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.0	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.7	1.9	2.8	1.9	2.9	2.0	3.0	1.9	3.2	1.9	3.3	1.9
	32.5	2.6	1.8	2.6	1.9	2.8	1.8	2.9	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.0	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.8	1.9	3.0	1.8	3.1	1.8
	40.0	2.4	1.7	2.5	1.8	2.6	1.8	2.7	1.9	2.8	1.8	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.8	2.6	1.7	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.7
46.0	1.8	1.5	1.9	1.5	2.0	1.5	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.6	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.8
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.6	3.4	2.7	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.7	4.0	2.7	4.2	2.6
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	37.5	3.2	2.5	3.3	2.6	3.4	2.5	3.5	2.7	3.6	2.7	3.8	2.6	4.0	2.6
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.6	3.7	2.6	3.9	2.6
	43.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.6	3.5	2.6	3.6	2.6	3.8	2.5
46.0	2.3	2.1	2.4	2.2	2.6	2.2	2.7	2.4	2.8	2.4	2.9	2.3	3.2	2.3	
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.3	3.2	4.4	3.3	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.3	5.5	3.3
	30.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.3	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.2	4.4	3.1	4.5	3.3	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	4.0	3.0	4.1	3.1	4.3	3.1	4.4	3.3	4.5	3.2	4.8	3.2	5.0	3.1
	40.0	3.9	3.0	4.0	3.1	4.2	3.1	4.3	3.2	4.4	3.2	4.7	3.1	4.9	3.1
	43.0	3.8	3.0	3.9	3.0	4.1	3.0	4.2	3.2	4.3	3.2	4.5	3.1	4.8	3.1
46.0	2.9	2.6	3.0	2.7	3.3	2.6	3.4	2.8	3.5	2.8	3.7	2.8	4.0	2.8	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.0	6.6	4.0	7.1	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.2	4.0	6.6	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.9	3.9	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.3	3.8	5.5	3.9	5.8	3.8	5.9	4.0	6.1	4.0	6.4	3.9	6.8	3.9
	30.0	5.2	3.7	5.4	3.8	5.7	3.8	5.8	4.0	6.0	3.9	6.3	3.9	6.7	3.8
	32.5	5.1	3.7	5.3	3.8	5.6	3.7	5.7	3.9	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.2	3.7	5.5	3.7	5.6	3.9	5.8	3.8	6.1	3.8	6.4	3.7
	37.5	4.9	3.6	5.1	3.7	5.4	3.6	5.5	3.8	5.6	3.8	5.9	3.7	6.3	3.7
	40.0	4.8	3.5	5.0	3.6	5.3	3.6	5.4	3.8	5.5	3.7	5.8	3.7	6.1	3.6
	43.0	4.7	3.5	4.8	3.6	5.1	3.5	5.3	3.7	5.4	3.7	5.6	3.6	6.0	3.5
46.0	3.6	3.0	3.8	3.1	4.1	3.1	4.2	3.3	4.3	3.3	4.6	3.2	4.9	3.2	
63 (7.1)	20.0	6.7	5.2	7.0	5.4	7.5	5.3	7.7	5.7	7.9	5.6	8.4	5.6	9.0	5.5
	22.5	6.7	5.2	7.0	5.4	7.5	5.3	7.7	5.7	7.9	5.6	8.4	5.6	9.0	5.5
	25.0	6.7	5.2	7.0	5.4	7.5	5.3	7.7	5.7	7.9	5.6	8.3	5.5	8.8	5.5
	27.5	6.7	5.2	6.9	5.3	7.3	5.3	7.5	5.6	7.7	5.5	8.1	5.5	8.7	5.4
	30.0	6.6	5.1	6.8	5.3	7.2	5.2	7.4	5.5	7.6	5.5	8.0	5.4	8.5	5.3
	32.5	6.5	5.1	6.7	5.2	7.1	5.2	7.2	5.5	7.4	5.4	7.8	5.3	8.3	5.3
	35.0	6.4	5.0	6.5	5.2	6.9	5.1	7.1	5.4	7.3	5.4	7.7	5.3	8.1	5.2
	37.5	6.2	4.9	6.4	5.1	6.8	5.0	7.0	5.4	7.2	5.3	7.5	5.2	8.0	5.1
	40.0	6.1	4.9	6.3	5.0	6.7	5.0	6.8	5.3	7.0	5.3	7.4	5.2	7.8	5.1
	43.0	6.0	4.8	6.1	5.0	6.5	4.9	6.7	5.2	6.9	5.2	7.2	5.1	7.6	5.0
46.0	4.6	4.2	4.8	4.4	5.2	4.4	5.3	4.7	5.5	4.7	5.8	4.6	6.2	4.6	

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

# 7. Cooling [Wall mounted]

EP-YKM

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
100 (11.2)	20.0	10.6	7.6	11.0	7.9	11.8	7.8	12.1	8.2	12.5	8.2	13.2	8.1	14.2	8.0
	22.5	10.6	7.6	11.0	7.9	11.8	7.8	12.1	8.2	12.5	8.2	13.2	8.1	14.2	8.0
	25.0	10.6	7.6	11.0	7.9	11.8	7.8	12.1	8.2	12.4	8.1	13.1	8.0	13.9	7.9
	27.5	10.6	7.6	10.9	7.8	11.6	7.7	11.9	8.1	12.2	8.0	12.9	7.9	13.7	7.8
	30.0	10.4	7.5	10.7	7.7	11.3	7.6	11.6	8.0	12.0	7.9	12.6	7.8	13.4	7.7
	32.5	10.2	7.4	10.5	7.6	11.1	7.5	11.4	7.9	11.7	7.9	12.4	7.7	13.1	7.6
	35.0	10.0	7.3	10.3	7.5	10.9	7.4	11.2	7.8	11.5	7.8	12.1	7.6	12.8	7.5
	37.5	9.8	7.2	10.1	7.4	10.7	7.3	11.0	7.7	11.3	7.7	11.9	7.5	12.6	7.4
	40.0	9.6	7.1	9.9	7.3	10.5	7.2	10.8	7.6	11.1	7.6	11.6	7.4	12.3	7.3
	43.0	9.4	7.0	9.7	7.2	10.2	7.1	10.5	7.5	10.8	7.5	11.3	7.3	12.0	7.2
	46.0	7.3	6.0	7.6	6.2	8.1	6.2	8.4	6.6	8.7	6.6	9.2	6.5	9.8	6.4

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

CT

# 7. Cooling [Wall mounted]

EP-YKM

## 7-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

CT

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.3	2.0	1.3	2.1	1.3	2.2	1.2
	22.5	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.3	2.0	1.2	2.2	1.2
	25.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.2	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	30.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	32.5	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	43.0	1.4	1.1	1.4	1.1	1.5	1.1	1.6	1.1	1.6	1.1	1.7	1.1	1.8	1.1
46.0	1.1	0.9	1.1	0.9	1.2	0.9	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0	
20 (2.2)	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
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.8	1.5
	27.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.5	2.5	1.5	2.6	1.5
	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
	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
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.4
	40.0	1.9	1.4	1.9	1.4	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.4	2.4	1.4
	43.0	1.9	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
46.0	1.4	1.2	1.4	1.2	1.6	1.2	1.6	1.3	1.7	1.3	1.8	1.3	2.0	1.3	
25 (2.8)	20.0	2.7	1.9	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.0	3.6	2.0
	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
	25.0	2.7	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.2	1.9	3.4	1.9
	30.0	2.6	1.8	2.6	1.9	2.8	1.9	2.9	2.0	3.0	1.9	3.2	1.9	3.4	1.9
	32.5	2.5	1.8	2.6	1.8	2.8	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.0	1.9	3.2	1.8
	37.5	2.5	1.8	2.5	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.8	3.2	1.8
	40.0	2.4	1.7	2.4	1.8	2.6	1.7	2.7	1.8	2.8	1.8	2.9	1.8	3.1	1.8
	43.0	2.4	1.7	2.4	1.7	2.5	1.7	2.6	1.8	2.7	1.8	2.8	1.8	3.0	1.8
46.0	1.8	1.5	1.8	1.5	2.0	1.5	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.6	
32 (3.6)	20.0	3.5	2.7	3.6	2.7	3.9	2.7	4.0	2.9	4.2	2.9	4.4	2.9	4.7	2.8
	22.5	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.9	4.1	2.9	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	27.5	3.4	2.6	3.5	2.7	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.4	2.7
	30.0	3.3	2.6	3.4	2.6	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.3	2.7
	32.5	3.3	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.2	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.5	3.6	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	37.5	3.2	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.8	2.6	4.1	2.6
	40.0	3.1	2.5	3.1	2.5	3.3	2.5	3.4	2.7	3.5	2.6	3.8	2.6	4.0	2.6
	43.0	3.0	2.4	3.0	2.5	3.2	2.4	3.3	2.6	3.4	2.6	3.7	2.6	3.9	2.5
46.0	2.4	2.1	2.4	2.2	2.6	2.2	2.7	2.3	2.8	2.3	3.0	2.3	3.2	2.3	
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.5	5.2	3.5	5.5	3.5	5.8	3.4
	22.5	4.4	3.2	4.5	3.3	4.8	3.3	4.9	3.5	5.1	3.5	5.4	3.4	5.7	3.4
	25.0	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.0	3.4	5.3	3.4	5.6	3.3
	27.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.2	3.4	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.1	3.3	5.4	3.3
	32.5	4.1	3.1	4.2	3.2	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.3	5.3	3.2
	35.0	4.0	3.1	4.1	3.1	4.3	3.1	4.5	3.3	4.6	3.3	4.9	3.2	5.2	3.2
	37.5	3.9	3.0	4.0	3.1	4.2	3.1	4.4	3.3	4.5	3.2	4.8	3.2	5.1	3.2
	40.0	3.9	3.0	3.9	3.0	4.2	3.0	4.3	3.2	4.4	3.2	4.7	3.2	5.0	3.1
	43.0	3.8	3.0	3.8	3.0	4.0	3.0	4.2	3.2	4.3	3.2	4.6	3.1	4.8	3.1
46.0	2.9	2.6	3.0	2.6	3.2	2.6	3.3	2.8	3.5	2.8	3.7	2.8	4.0	2.8	
50 (5.6)	20.0	5.4	3.8	5.6	4.0	6.1	4.0	6.3	4.2	6.5	4.2	6.9	4.1	7.3	4.0
	22.5	5.4	3.8	5.6	3.9	6.0	3.9	6.2	4.1	6.3	4.1	6.7	4.0	7.1	4.0
	25.0	5.3	3.8	5.5	3.9	5.8	3.9	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.3	3.7	5.4	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	3.9	6.9	3.9
	30.0	5.2	3.7	5.3	3.8	5.6	3.7	5.8	4.0	6.0	3.9	6.4	3.9	6.7	3.8
	32.5	5.1	3.7	5.2	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.2	3.8	6.6	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.6	5.6	3.9	5.7	3.8	6.1	3.8	6.5	3.7
	37.5	4.9	3.6	5.0	3.6	5.3	3.6	5.5	3.8	5.6	3.8	6.0	3.7	6.3	3.7
	40.0	4.8	3.5	4.9	3.6	5.2	3.5	5.3	3.7	5.5	3.7	5.8	3.7	6.2	3.6
	43.0	4.7	3.5	4.7	3.5	5.0	3.5	5.2	3.7	5.4	3.7	5.7	3.6	6.0	3.6
46.0	3.7	3.0	3.7	3.0	4.0	3.0	4.1	3.2	4.3	3.2	4.6	3.2	5.0	3.2	
63 (7.1)	20.0	6.9	5.3	7.1	5.4	7.7	5.4	7.9	5.8	8.2	5.7	8.7	5.7	9.2	5.6
	22.5	6.9	5.3	7.1	5.4	7.6	5.4	7.8	5.7	8.0	5.7	8.5	5.6	9.1	5.5
	25.0	6.8	5.2	7.0	5.4	7.4	5.3	7.7	5.7	7.9	5.6	8.4	5.6	8.9	5.5
	27.5	6.7	5.2	6.8	5.3	7.3	5.3	7.5	5.6	7.7	5.6	8.2	5.5	8.7	5.4
	30.0	6.5	5.1	6.7	5.2	7.1	5.2	7.4	5.5	7.6	5.5	8.1	5.4	8.5	5.3
	32.5	6.4	5.0	6.6	5.2	7.0	5.1	7.2	5.5	7.4	5.4	7.9	5.4	8.4	5.3
	35.0	6.3	5.0	6.4	5.1	6.8	5.1	7.1	5.4	7.3	5.4	7.7	5.3	8.2	5.2
	37.5	6.2	4.9	6.3	5.0	6.7	5.0	6.9	5.3	7.1	5.3	7.6	5.2	8.0	5.2
	40.0	6.1	4.9	6.2	5.0	6.6	4.9	6.8	5.3	7.0	5.3	7.4	5.2	7.8	5.1
	43.0	6.0	4.8	6.0	4.9	6.4	4.9	6.6	5.2	6.8	5.2	7.2	5.1	7.6	5.0
46.0	4.6	4.2	4.7	4.3	5.0	4.3	5.2	4.7	5.5	4.7	5.9	4.6	6.3	4.6	

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

# 7. Cooling [Wall mounted]

EP-YKM

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
100 (11.2)	20.0	10.9	7.8	11.3	8.0	12.1	8.0	12.5	8.4	12.9	8.4	13.7	8.3	14.5	8.1
	22.5	10.8	7.7	11.2	7.9	11.9	7.9	12.3	8.3	12.7	8.3	13.5	8.2	14.3	8.0
	25.0	10.7	7.6	11.0	7.8	11.7	7.8	12.1	8.2	12.5	8.2	13.2	8.1	14.0	7.9
	27.5	10.5	7.6	10.8	7.7	11.5	7.7	11.8	8.1	12.2	8.1	13.0	8.0	13.7	7.8
	30.0	10.3	7.5	10.6	7.6	11.2	7.6	11.6	8.0	12.0	8.0	12.7	7.9	13.5	7.7
	32.5	10.2	7.4	10.3	7.5	11.0	7.5	11.4	7.9	11.7	7.9	12.4	7.8	13.2	7.6
	35.0	10.0	7.3	10.1	7.4	10.8	7.4	11.2	7.8	11.5	7.8	12.2	7.6	12.9	7.5
	37.5	9.8	7.2	9.9	7.3	10.6	7.3	10.9	7.7	11.2	7.6	11.9	7.5	12.6	7.4
	40.0	9.6	7.1	9.7	7.2	10.3	7.2	10.7	7.6	11.0	7.5	11.7	7.4	12.4	7.3
	43.0	9.4	7.0	9.5	7.1	10.1	7.0	10.4	7.5	10.7	7.4	11.4	7.3	12.1	7.2
	46.0	7.3	6.0	7.3	6.1	8.0	6.1	8.3	6.6	8.6	6.6	9.3	6.5	9.9	6.5

kcal/h=KW x 860 , BTU/h = KW x 3,412

CT

## 7-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	22.5	1.6	1.2	1.6	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	25.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	30.0	1.5	1.1	1.6	1.2	1.7	1.1	1.8	1.2	1.8	1.2	1.9	1.2	2.1	1.2
	32.5	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.5	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
	43.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
46.0	1.1	0.9	1.2	1.0	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0	1.6	1.0	
20 (2.2)	20.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.8	1.5
	22.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.6	2.7	1.5
	27.5	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.6	2.3	1.5	2.5	1.5	2.7	1.5
	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
	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
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	40.0	1.9	1.4	1.9	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.4	1.5	2.6	1.5
	43.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.4	1.5	2.5	1.5
46.0	1.5	1.2	1.5	1.2	1.6	1.2	1.7	1.3	1.8	1.3	2.0	1.3	2.1	1.3	
25 (2.8)	20.0	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	22.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.5	1.9
	27.5	2.6	1.8	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.4	1.9
	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
	32.5	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
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	40.0	2.4	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	43.0	2.4	1.7	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.9	3.2	1.8
46.0	1.9	1.5	1.9	1.5	2.1	1.5	2.2	1.6	2.3	1.6	2.5	1.6	2.7	1.6	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.8
	22.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	25.0	3.3	2.6	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.4	2.7
	27.5	3.3	2.6	3.4	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	37.5	3.2	2.5	3.2	2.6	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.7
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	43.0	3.1	2.5	3.1	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.7	4.2	2.6
46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4	
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.4	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.4	5.2	3.4	5.6	3.3
	27.5	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.2	3.3	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.4	4.8	3.4	5.1	3.3	5.5	3.3
	32.5	4.0	3.1	4.1	3.2	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.3	5.4	3.3
	35.0	4.0	3.1	4.1	3.1	4.4	3.1	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.5	3.3	4.6	3.3	5.0	3.3	5.3	3.2
	40.0	3.9	3.0	4.0	3.1	4.3	3.1	4.4	3.3	4.6	3.3	4.9	3.2	5.3	3.2
	43.0	3.9	3.0	3.9	3.1	4.2	3.1	4.4	3.3	4.5	3.2	4.9	3.2	5.2	3.2
46.0	3.0	2.6	3.1	2.7	3.4	2.7	3.5	2.9	3.7	2.9	4.0	2.9	4.4	2.9	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.8	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	22.5	5.2	3.7	5.4	3.8	5.8	3.8	6.0	4.0	6.2	4.0	6.6	4.0	7.0	3.9
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	3.9	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.9	3.9
	30.0	5.1	3.7	5.2	3.7	5.6	3.7	5.8	3.9	6.0	3.9	6.4	3.9	6.8	3.8
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.8	6.7	3.8
	37.5	4.9	3.6	5.0	3.6	5.4	3.6	5.6	3.9	5.8	3.8	6.2	3.8	6.6	3.8
	40.0	4.9	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.7	3.8	6.1	3.8	6.5	3.8
	43.0	4.8	3.5	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.7
46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.3	4.6	3.3	5.0	3.4	5.4	3.3	
63 (7.1)	20.0	6.7	5.2	6.9	5.3	7.4	5.3	7.6	5.6	7.9	5.6	8.4	5.6	8.9	5.5
	22.5	6.6	5.1	6.8	5.3	7.3	5.3	7.6	5.6	7.8	5.6	8.3	5.5	8.8	5.5
	25.0	6.6	5.1	6.8	5.3	7.2	5.2	7.5	5.6	7.7	5.6	8.2	5.5	8.8	5.4
	27.5	6.5	5.1	6.7	5.2	7.2	5.2	7.4	5.5	7.6	5.5	8.2	5.5	8.7	5.4
	30.0	6.4	5.0	6.6	5.2	7.1	5.2	7.3	5.5	7.6	5.5	8.1	5.4	8.6	5.4
	32.5	6.4	5.0	6.5	5.1	7.0	5.1	7.2	5.5	7.5	5.5	8.0	5.4	8.5	5.3
	35.0	6.3	5.0	6.4	5.1	6.9	5.1	7.1	5.4	7.4	5.4	7.9	5.4	8.5	5.3
	37.5	6.2	5.0	6.3	5.1	6.8	5.1	7.1	5.4	7.3	5.4	7.8	5.3	8.4	5.3
	40.0	6.2	4.9	6.3	5.0	6.7	5.0	7.0	5.4	7.2	5.4	7.8	5.3	8.3	5.3
	43.0	6.1	4.9	6.2	5.0	6.7	5.0	6.9	5.3	7.1	5.3	7.7	5.3	8.2	5.2
46.0	4.7	4.3	4.8	4.4	5.3	4.4	5.6	4.8	5.8	4.8	6.3	4.8	6.9	4.8	

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

# 7. Cooling [Wall mounted]

EP-YKM

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
100 (11.2)	20.0	10.6	7.6	10.9	7.8	11.7	7.8	12.0	8.2	12.4	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.5	10.8	7.7	11.5	7.7	11.9	8.1	12.3	8.1	13.1	8.0	13.9	7.9
	25.0	10.4	7.5	10.6	7.7	11.4	7.6	11.8	8.1	12.2	8.0	13.0	8.0	13.8	7.9
	27.5	10.3	7.4	10.5	7.6	11.3	7.6	11.7	8.0	12.1	8.0	12.9	7.9	13.7	7.8
	30.0	10.2	7.4	10.4	7.5	11.2	7.5	11.5	8.0	11.9	7.9	12.7	7.9	13.6	7.8
	32.5	10.1	7.3	10.3	7.5	11.0	7.5	11.4	7.9	11.8	7.9	12.6	7.8	13.5	7.7
	35.0	9.9	7.3	10.1	7.4	10.9	7.4	11.2	7.8	11.7	7.8	12.5	7.8	13.3	7.7
	37.5	9.8	7.2	10.0	7.4	10.8	7.4	11.2	7.8	11.6	7.8	12.4	7.7	13.2	7.6
	40.0	9.7	7.2	9.9	7.3	10.6	7.3	11.0	7.7	11.4	7.7	12.2	7.7	13.1	7.6
	43.0	9.6	7.1	9.7	7.2	10.5	7.2	10.9	7.7	11.3	7.7	12.1	7.6	12.9	7.5
	46.0	9.5	7.1	9.6	7.2	10.4	7.2	10.8	7.6	11.2	7.6	12.0	7.6	12.8	7.5

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



7-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

CT

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.3	2.0	1.3	2.1	1.3	2.2	1.2
	22.5	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.3	2.0	1.2	2.2	1.2
	25.0	1.6	1.1	1.6	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	30.0	1.5	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.1	1.2
	32.5	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	37.5	1.4	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.8	1.2	1.9	1.1
	40.0	1.4	1.1	1.5	1.1	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.1	1.9	1.1
	43.0	1.4	1.1	1.4	1.1	1.5	1.1	1.6	1.1	1.6	1.1	1.8	1.1	1.9	1.1
46.0	1.1	0.9	1.1	0.9	1.2	0.9	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0	
20 (2.2)	20.0	2.1	1.5	2.2	1.6	2.4	1.5	2.4	1.6	2.5	1.6	2.7	1.6	2.9	1.6
	22.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.6	2.5	1.6	2.6	1.6	2.8	1.6
	25.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.8	1.6
	27.5	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.6	2.4	1.5	2.5	1.5	2.7	1.5
	32.5	1.9	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
	35.0	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	37.5	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.4	1.5	2.5	1.5
	40.0	1.8	1.4	1.9	1.4	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.4
	43.0	1.8	1.3	1.8	1.4	2.0	1.4	2.1	1.5	2.1	1.5	2.3	1.4	2.4	1.4
46.0	1.4	1.1	1.4	1.2	1.6	1.2	1.6	1.3	1.7	1.3	1.9	1.3	2.0	1.3	
25 (2.8)	20.0	2.7	1.9	2.8	2.0	3.0	1.9	3.1	2.1	3.2	2.0	3.4	2.0	3.7	2.0
	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
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	27.5	2.6	1.8	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	1.9	3.5	1.9
	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
	32.5	2.5	1.8	2.6	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	35.0	2.4	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	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	1.8
	40.0	2.3	1.7	2.4	1.8	2.6	1.7	2.7	1.9	2.8	1.8	3.0	1.8	3.1	1.8
	43.0	2.3	1.7	2.4	1.7	2.5	1.7	2.6	1.8	2.7	1.8	2.9	1.8	3.1	1.8
46.0	1.8	1.4	1.8	1.5	2.0	1.5	2.1	1.6	2.2	1.6	2.4	1.6	2.5	1.6	
32 (3.6)	20.0	3.5	2.6	3.6	2.7	3.9	2.7	4.0	2.9	4.1	2.9	4.4	2.9	4.7	2.8
	22.5	3.4	2.6	3.5	2.7	3.8	2.7	3.9	2.9	4.1	2.9	4.3	2.8	4.6	2.8
	25.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.8
	27.5	3.3	2.6	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.5	2.7
	30.0	3.2	2.5	3.4	2.6	3.6	2.6	3.7	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	35.0	3.1	2.5	3.2	2.6	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.6
	37.5	3.1	2.4	3.2	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.7	4.1	2.6
	40.0	3.0	2.4	3.1	2.5	3.3	2.5	3.4	2.7	3.6	2.6	3.8	2.6	4.0	2.6
	43.0	2.9	2.4	3.0	2.5	3.2	2.5	3.4	2.6	3.5	2.6	3.7	2.6	3.9	2.6
46.0	2.3	2.1	2.3	2.2	2.6	2.2	2.7	2.4	2.8	2.4	3.0	2.3	3.3	2.3	
40 (4.5)	20.0	4.3	3.2	4.5	3.3	4.8	3.3	5.0	3.5	5.2	3.5	5.5	3.5	5.9	3.4
	22.5	4.3	3.2	4.4	3.3	4.7	3.3	4.9	3.5	5.1	3.5	5.4	3.4	5.8	3.4
	25.0	4.2	3.2	4.3	3.3	4.7	3.2	4.8	3.4	5.0	3.4	5.3	3.4	5.7	3.4
	27.5	4.1	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.4	5.2	3.4	5.6	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.1	3.3	5.5	3.3
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.3	4.7	3.3	5.0	3.3	5.4	3.2
	35.0	3.9	3.0	4.0	3.1	4.3	3.1	4.5	3.3	4.6	3.3	4.9	3.3	5.3	3.2
	37.5	3.8	3.0	4.0	3.1	4.2	3.1	4.4	3.3	4.5	3.3	4.8	3.2	5.2	3.2
	40.0	3.8	2.9	3.9	3.0	4.2	3.0	4.3	3.2	4.5	3.2	4.8	3.2	5.1	3.1
	43.0	3.7	2.9	3.8	3.0	4.1	3.0	4.2	3.2	4.3	3.2	4.6	3.1	4.9	3.1
46.0	2.8	2.5	2.9	2.6	3.2	2.6	3.4	2.8	3.5	2.8	3.8	2.8	4.1	2.8	
50 (5.6)	20.0	5.4	3.8	5.6	3.9	6.0	3.9	6.2	4.1	6.4	4.1	6.9	4.1	7.3	4.0
	22.5	5.3	3.8	5.5	3.9	5.9	3.9	6.1	4.1	6.3	4.1	6.7	4.0	7.2	4.0
	25.0	5.2	3.7	5.4	3.8	5.8	3.8	6.0	4.0	6.2	4.0	6.6	4.0	7.0	3.9
	27.5	5.1	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	3.9	6.9	3.9
	30.0	5.0	3.6	5.2	3.7	5.6	3.7	5.8	4.0	6.0	3.9	6.4	3.9	6.8	3.8
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	4.9	3.5	5.0	3.6	5.4	3.6	5.6	3.9	5.8	3.8	6.2	3.8	6.5	3.8
	37.5	4.8	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.7	3.8	6.0	3.8	6.4	3.7
	40.0	4.7	3.5	4.8	3.6	5.2	3.5	5.4	3.8	5.5	3.7	5.9	3.7	6.3	3.7
	43.0	4.6	3.4	4.7	3.5	5.1	3.5	5.2	3.7	5.4	3.7	5.8	3.7	6.1	3.6
46.0	3.5	2.9	3.6	3.0	4.0	3.0	4.2	3.2	4.4	3.3	4.7	3.2	5.1	3.2	
63 (7.1)	20.0	6.9	5.2	7.1	5.4	7.6	5.4	7.9	5.8	8.2	5.7	8.7	5.7	9.3	5.6
	22.5	6.7	5.2	7.0	5.4	7.5	5.4	7.8	5.7	8.0	5.7	8.6	5.6	9.1	5.5
	25.0	6.6	5.1	6.9	5.3	7.4	5.3	7.6	5.6	7.9	5.6	8.4	5.6	8.9	5.5
	27.5	6.5	5.1	6.7	5.3	7.2	5.2	7.5	5.6	7.7	5.6	8.3	5.5	8.8	5.4
	30.0	6.4	5.0	6.6	5.2	7.1	5.2	7.3	5.5	7.6	5.5	8.1	5.4	8.6	5.4
	32.5	6.3	5.0	6.5	5.1	7.0	5.1	7.2	5.5	7.5	5.4	7.9	5.4	8.5	5.3
	35.0	6.2	4.9	6.4	5.1	6.8	5.1	7.1	5.4	7.3	5.4	7.8	5.3	8.3	5.3
	37.5	6.1	4.9	6.2	5.0	6.7	5.0	6.9	5.3	7.2	5.3	7.6	5.3	8.1	5.2
	40.0	5.9	4.8	6.1	5.0	6.6	4.9	6.8	5.3	7.0	5.3	7.5	5.2	8.0	5.2
	43.0	5.8	4.7	6.0	4.9	6.4	4.9	6.6	5.2	6.9	5.2	7.3	5.2	7.8	5.1
46.0	4.5	4.1	4.6	4.3	5.1	4.3	5.3	4.7	5.5	4.7	6.0	4.7	6.4	4.6	

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

# 7. Cooling [Wall mounted]

EP-YKM

CT

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
100 (11.2)	20.0	10.8	7.7	11.2	8.0	12.0	7.9	12.5	8.4	12.9	8.4	13.7	8.3	14.6	8.2
	22.5	10.6	7.6	11.0	7.9	11.8	7.8	12.2	8.3	12.6	8.3	13.5	8.2	14.4	8.1
	25.0	10.5	7.5	10.8	7.8	11.6	7.7	12.0	8.2	12.4	8.2	13.3	8.1	14.1	8.0
	27.5	10.3	7.4	10.6	7.7	11.4	7.6	11.8	8.1	12.2	8.1	13.0	8.0	13.8	7.9
	30.0	10.1	7.4	10.4	7.6	11.2	7.5	11.6	8.0	12.0	8.0	12.8	7.9	13.6	7.8
	32.5	9.9	7.3	10.2	7.5	11.0	7.5	11.4	7.9	11.8	7.9	12.5	7.8	13.3	7.7
	35.0	9.7	7.2	10.0	7.4	10.8	7.4	11.2	7.8	11.5	7.8	12.3	7.7	13.1	7.6
	37.5	9.5	7.1	9.8	7.3	10.6	7.3	10.9	7.7	11.3	7.7	12.1	7.6	12.8	7.5
	40.0	9.4	7.0	9.6	7.2	10.4	7.2	10.7	7.6	11.1	7.6	11.8	7.5	12.6	7.4
	43.0	9.2	6.9	9.4	7.1	10.1	7.1	10.5	7.5	10.8	7.5	11.5	7.4	12.3	7.3
	46.0	7.0	5.9	7.3	6.1	8.0	6.1	8.3	6.6	8.7	6.6	9.4	6.6	10.2	6.6

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

7-5. Cooling capacity with PUHY-EP850-900YSKM

CT

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
15 (1.7)	20.0	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.3	1.9	1.2	2.0	1.2	2.1	1.2
	22.5	1.6	1.2	1.6	1.2	1.8	1.2	1.8	1.2	1.9	1.2	2.0	1.2	2.1	1.2
	25.0	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	27.5	1.6	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.2	2.1	1.2
	30.0	1.5	1.1	1.6	1.2	1.7	1.1	1.8	1.2	1.8	1.2	1.9	1.2	2.1	1.2
	32.5	1.5	1.1	1.6	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	35.0	1.5	1.1	1.5	1.1	1.7	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	37.5	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.2
	40.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
	43.0	1.5	1.1	1.5	1.1	1.6	1.1	1.7	1.2	1.7	1.2	1.9	1.2	2.0	1.2
46.0	1.1	0.9	1.2	1.0	1.3	1.0	1.3	1.0	1.4	1.0	1.5	1.0	1.6	1.0	
20 (2.2)	20.0	2.1	1.5	2.1	1.5	2.3	1.5	2.4	1.6	2.4	1.6	2.6	1.6	2.8	1.5
	22.5	2.1	1.5	2.1	1.5	2.3	1.5	2.3	1.6	2.4	1.6	2.6	1.6	2.7	1.5
	25.0	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.6	2.7	1.5
	27.5	2.0	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.6	2.5	1.5	2.7	1.5
	30.0	2.0	1.4	2.0	1.5	2.2	1.5	2.3	1.6	2.3	1.5	2.5	1.5	2.7	1.5
	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
	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
	37.5	1.9	1.4	2.0	1.4	2.1	1.4	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.5
	40.0	1.9	1.4	1.9	1.4	2.1	1.4	2.2	1.5	2.2	1.5	2.4	1.5	2.6	1.5
	43.0	1.9	1.4	1.9	1.4	2.1	1.4	2.1	1.5	2.2	1.5	2.4	1.5	2.5	1.5
46.0	1.5	1.2	1.5	1.2	1.6	1.2	1.7	1.3	1.8	1.3	2.0	1.3	2.1	1.3	
25 (2.8)	20.0	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	22.5	2.6	1.9	2.7	1.9	2.9	1.9	3.0	2.0	3.1	2.0	3.3	2.0	3.5	1.9
	25.0	2.6	1.8	2.7	1.9	2.9	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.5	1.9
	27.5	2.6	1.8	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	1.9	3.4	1.9
	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
	32.5	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
	35.0	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	37.5	2.5	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	40.0	2.4	1.8	2.5	1.8	2.7	1.8	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.9
	43.0	2.4	1.7	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.9	3.2	1.8
46.0	1.9	1.5	1.9	1.5	2.1	1.5	2.2	1.6	2.3	1.6	2.5	1.6	2.7	1.6	
32 (3.6)	20.0	3.4	2.6	3.5	2.7	3.7	2.7	3.9	2.8	4.0	2.8	4.3	2.8	4.5	2.8
	22.5	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.8	4.0	2.8	4.2	2.8	4.5	2.7
	25.0	3.3	2.6	3.4	2.6	3.7	2.6	3.8	2.8	3.9	2.8	4.2	2.8	4.4	2.7
	27.5	3.3	2.6	3.4	2.6	3.6	2.6	3.8	2.8	3.9	2.8	4.1	2.7	4.4	2.7
	30.0	3.3	2.5	3.3	2.6	3.6	2.6	3.7	2.8	3.8	2.8	4.1	2.7	4.4	2.7
	32.5	3.2	2.5	3.3	2.6	3.5	2.6	3.7	2.8	3.8	2.7	4.1	2.7	4.3	2.7
	35.0	3.2	2.5	3.3	2.6	3.5	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.3	2.7
	37.5	3.2	2.5	3.2	2.6	3.5	2.5	3.6	2.7	3.7	2.7	4.0	2.7	4.2	2.7
	40.0	3.1	2.5	3.2	2.5	3.4	2.5	3.5	2.7	3.7	2.7	3.9	2.7	4.2	2.6
	43.0	3.1	2.5	3.1	2.5	3.4	2.5	3.5	2.7	3.6	2.7	3.9	2.7	4.2	2.6
46.0	2.4	2.1	2.4	2.2	2.7	2.2	2.8	2.4	2.9	2.4	3.2	2.4	3.5	2.4	
40 (4.5)	20.0	4.3	3.2	4.4	3.3	4.7	3.3	4.8	3.5	5.0	3.4	5.3	3.4	5.7	3.4
	22.5	4.2	3.2	4.3	3.2	4.6	3.2	4.8	3.4	4.9	3.4	5.3	3.4	5.6	3.3
	25.0	4.2	3.1	4.3	3.2	4.6	3.2	4.7	3.4	4.9	3.4	5.2	3.4	5.6	3.3
	27.5	4.1	3.1	4.2	3.2	4.5	3.2	4.7	3.4	4.8	3.4	5.2	3.3	5.5	3.3
	30.0	4.1	3.1	4.2	3.2	4.5	3.2	4.6	3.4	4.8	3.4	5.1	3.3	5.5	3.3
	32.5	4.0	3.1	4.1	3.2	4.4	3.1	4.6	3.3	4.7	3.3	5.1	3.3	5.4	3.3
	35.0	4.0	3.1	4.1	3.1	4.4	3.1	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.2
	37.5	4.0	3.0	4.0	3.1	4.3	3.1	4.5	3.3	4.6	3.3	5.0	3.3	5.3	3.2
	40.0	3.9	3.0	4.0	3.1	4.3	3.1	4.4	3.3	4.6	3.3	4.9	3.2	5.3	3.2
	43.0	3.9	3.0	3.9	3.1	4.2	3.1	4.4	3.3	4.5	3.2	4.9	3.2	5.2	3.2
46.0	3.0	2.6	3.1	2.7	3.4	2.7	3.5	2.9	3.7	2.9	4.0	2.9	4.4	2.9	
50 (5.6)	20.0	5.3	3.8	5.5	3.9	5.8	3.8	6.0	4.1	6.2	4.0	6.6	4.0	7.0	3.9
	22.5	5.2	3.7	5.4	3.8	5.8	3.8	6.0	4.0	6.2	4.0	6.6	4.0	7.0	3.9
	25.0	5.2	3.7	5.3	3.8	5.7	3.8	5.9	4.0	6.1	4.0	6.5	3.9	6.9	3.9
	27.5	5.1	3.7	5.3	3.8	5.6	3.8	5.8	4.0	6.0	4.0	6.4	3.9	6.9	3.9
	30.0	5.1	3.7	5.2	3.7	5.6	3.7	5.8	3.9	6.0	3.9	6.4	3.9	6.8	3.8
	32.5	5.0	3.6	5.1	3.7	5.5	3.7	5.7	3.9	5.9	3.9	6.3	3.9	6.7	3.8
	35.0	5.0	3.6	5.1	3.7	5.4	3.7	5.6	3.9	5.8	3.9	6.2	3.8	6.7	3.8
	37.5	4.9	3.6	5.0	3.6	5.4	3.6	5.6	3.9	5.8	3.8	6.2	3.8	6.6	3.8
	40.0	4.9	3.5	4.9	3.6	5.3	3.6	5.5	3.8	5.7	3.8	6.1	3.8	6.5	3.8
	43.0	4.8	3.5	4.9	3.6	5.2	3.6	5.4	3.8	5.6	3.8	6.0	3.8	6.5	3.7
46.0	3.7	3.0	3.8	3.1	4.2	3.1	4.4	3.3	4.6	3.3	5.0	3.4	5.4	3.3	
63 (7.1)	20.0	6.7	5.2	6.9	5.3	7.4	5.3	7.6	5.6	7.9	5.6	8.4	5.6	8.9	5.5
	22.5	6.6	5.1	6.8	5.3	7.3	5.3	7.6	5.6	7.8	5.6	8.3	5.5	8.8	5.5
	25.0	6.6	5.1	6.8	5.3	7.2	5.2	7.5	5.6	7.7	5.6	8.2	5.5	8.8	5.4
	27.5	6.5	5.1	6.7	5.2	7.2	5.2	7.4	5.5	7.6	5.5	8.2	5.5	8.7	5.4
	30.0	6.4	5.0	6.6	5.2	7.1	5.2	7.3	5.5	7.6	5.5	8.1	5.4	8.6	5.4
	32.5	6.4	5.0	6.5	5.1	7.0	5.1	7.2	5.5	7.5	5.5	8.0	5.4	8.5	5.3
	35.0	6.3	5.0	6.4	5.1	6.9	5.1	7.1	5.4	7.4	5.4	7.9	5.4	8.5	5.3
	37.5	6.2	5.0	6.3	5.1	6.8	5.1	7.1	5.4	7.3	5.4	7.8	5.3	8.4	5.3
	40.0	6.2	4.9	6.3	5.0	6.7	5.0	7.0	5.4	7.2	5.4	7.8	5.3	8.3	5.3
	43.0	6.1	4.9	6.2	5.0	6.7	5.0	6.9	5.3	7.1	5.3	7.7	5.3	8.2	5.2
46.0	4.7	4.3	4.8	4.4	5.3	4.4	5.6	4.8	5.8	4.8	6.3	4.8	6.9	4.8	

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

# 7. Cooling [Wall mounted]

EP-YKM

PKFY-P-VBM-E,VHM-E,VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
100 (11.2)	20.0	10.6	7.6	10.9	7.8	11.7	7.8	12.0	8.2	12.4	8.2	13.2	8.1	14.1	8.0
	22.5	10.5	7.5	10.8	7.7	11.5	7.7	11.9	8.1	12.3	8.1	13.1	8.0	13.9	7.9
	25.0	10.4	7.5	10.6	7.7	11.4	7.6	11.8	8.1	12.2	8.0	13.0	8.0	13.8	7.9
	27.5	10.3	7.4	10.5	7.6	11.3	7.6	11.7	8.0	12.1	8.0	12.9	7.9	13.7	7.8
	30.0	10.2	7.4	10.4	7.5	11.2	7.5	11.5	8.0	11.9	7.9	12.7	7.9	13.6	7.8
	32.5	10.1	7.3	10.3	7.5	11.0	7.5	11.4	7.9	11.8	7.9	12.6	7.8	13.5	7.7
	35.0	9.9	7.3	10.1	7.4	10.9	7.4	11.2	7.8	11.7	7.8	12.5	7.8	13.3	7.7
	37.5	9.8	7.2	10.0	7.4	10.8	7.4	11.2	7.8	11.6	7.8	12.4	7.7	13.2	7.6
	40.0	9.7	7.2	9.9	7.3	10.6	7.3	11.0	7.7	11.4	7.7	12.2	7.7	13.1	7.6
	43.0	9.6	7.1	9.7	7.2	10.5	7.2	10.9	7.7	11.3	7.7	12.1	7.6	12.9	7.5
	46.0	7.5	6.1	7.6	6.2	8.4	6.3	8.8	6.8	9.2	6.8	10.0	6.8	10.8	6.8

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

CT

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

## 8-1. Cooling capacity with PUHY, PURY-EP200-250YKM

PFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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
	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
	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
	27.5	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	1.7
	30.0	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.6	1.7
	32.5	2.0	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.8	2.3	1.7	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7
	43.0	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.1	1.7	2.2	1.7	2.3	1.6
46.0	1.4	1.4	1.5	1.4	1.6	1.4	1.7	1.5	1.7	1.5	1.8	1.5	1.9	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.1	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	22.5	2.7	2.0	2.8	2.1	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	25.0	2.7	2.0	2.8	2.1	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	27.5	2.7	2.0	2.7	2.0	2.9	2.0	3.0	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.6	2.0	2.7	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.3	2.0
	32.5	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	35.0	2.5	1.9	2.6	2.0	2.7	1.9	2.8	2.1	2.9	2.0	3.0	2.0	3.2	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.8	2.0	3.0	2.0	3.1	2.0
	40.0	2.4	1.9	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	1.9
	43.0	2.4	1.8	2.4	1.9	2.6	1.9	2.6	2.0	2.7	2.0	2.8	1.9	3.0	1.9
46.0	1.8	1.6	1.9	1.7	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.7	2.5	1.7	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.6	2.5
	22.5	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.6	2.5
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.2	2.5	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.4	3.8	2.6	3.9	2.5	4.1	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.3	2.4
	32.5	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.0	2.4	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.4	4.1	2.4
	37.5	3.2	2.3	3.3	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.8	2.4	4.0	2.3
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.7	2.3	3.9	2.3
	43.0	3.0	2.2	3.1	2.3	3.3	2.3	3.4	2.4	3.5	2.4	3.6	2.3	3.8	2.3
46.0	2.3	1.9	2.4	2.0	2.6	2.0	2.7	2.1	2.8	2.1	2.9	2.0	3.2	2.0	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.2	5.7	3.1
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.2	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.3	3.0	4.4	3.1	4.6	3.0	4.8	3.2	4.9	3.1	5.2	3.1	5.5	3.0
	30.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.1	4.8	3.1	5.1	3.0	5.4	3.0
	32.5	4.1	2.9	4.2	3.0	4.5	2.9	4.6	3.1	4.7	3.1	5.0	3.0	5.3	3.0
	35.0	4.0	2.9	4.1	2.9	4.4	2.9	4.5	3.0	4.6	3.0	4.9	3.0	5.2	2.9
	37.5	4.0	2.8	4.1	2.9	4.3	2.9	4.4	3.0	4.5	3.0	4.8	2.9	5.0	2.9
	40.0	3.9	2.8	4.0	2.9	4.2	2.8	4.3	3.0	4.4	2.9	4.7	2.9	4.9	2.8
	43.0	3.8	2.7	3.9	2.8	4.1	2.8	4.2	2.9	4.3	2.9	4.5	2.8	4.8	2.8
46.0	2.9	2.3	3.0	2.4	3.3	2.4	3.4	2.6	3.5	2.5	3.7	2.5	4.0	2.5	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

CT

PFY-P-VLEM-E,VLRM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	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
	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
	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
	27.5	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	1.7
	30.0	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	32.5	2.0	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.6
	43.0	1.8	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.1	1.7	2.2	1.6	2.3	1.6
46.0	1.4	1.4	1.5	1.4	1.6	1.4	1.7	1.5	1.7	1.5	1.8	1.5	1.9	1.5	
25 (2.8)	20.0	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	22.5	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	25.0	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	27.5	2.7	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.0	2.1	3.2	2.0	3.4	2.0
	30.0	2.6	1.9	2.7	2.0	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.3	2.0
	32.5	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	35.0	2.5	1.9	2.6	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.0	1.9	3.2	1.9
	37.5	2.5	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.8	2.0	3.0	1.9	3.1	1.9
	40.0	2.4	1.8	2.5	1.9	2.6	1.8	2.7	2.0	2.8	1.9	2.9	1.9	3.1	1.9
	43.0	2.4	1.8	2.4	1.8	2.6	1.8	2.6	1.9	2.7	1.9	2.8	1.9	3.0	1.8
46.0	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	1.7	
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.6	2.6
	22.5	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.6	2.6
	25.0	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.0	2.6	4.2	2.6	4.5	2.6
	27.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.6	3.8	2.6	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.4	2.5	3.6	2.4	3.7	2.6	3.8	2.6	4.0	2.5	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	37.5	3.2	2.3	3.3	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.8	2.5	4.0	2.4
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.7	2.4	3.9	2.4
	43.0	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.5	3.5	2.4	3.6	2.4	3.8	2.3
46.0	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.2	2.9	2.1	3.2	2.1	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.3	3.1	4.4	3.2	4.6	3.2	4.8	3.3	4.9	3.3	5.2	3.2	5.5	3.2
	30.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.2	4.7	3.2	5.0	3.2	5.3	3.1
	35.0	4.0	3.0	4.1	3.1	4.4	3.0	4.5	3.2	4.6	3.2	4.9	3.1	5.2	3.1
	37.5	4.0	3.0	4.1	3.0	4.3	3.0	4.4	3.2	4.5	3.1	4.8	3.1	5.0	3.0
	40.0	3.9	2.9	4.0	3.0	4.2	3.0	4.3	3.1	4.4	3.1	4.7	3.0	4.9	3.0
	43.0	3.8	2.9	3.9	2.9	4.1	2.9	4.2	3.1	4.3	3.1	4.5	3.0	4.8	2.9
46.0	2.9	2.5	3.0	2.6	3.3	2.5	3.4	2.7	3.5	2.7	3.7	2.7	4.0	2.7	
50 (5.6)	20.0	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.3	6.2	4.2	6.6	4.2	7.1	4.1
	22.5	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.3	6.2	4.2	6.6	4.2	7.1	4.1
	25.0	5.3	3.9	5.5	4.1	5.9	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.3	3.9	5.5	4.0	5.8	4.0	5.9	4.2	6.1	4.2	6.4	4.1	6.8	4.0
	30.0	5.2	3.9	5.4	4.0	5.7	3.9	5.8	4.2	6.0	4.1	6.3	4.1	6.7	4.0
	32.5	5.1	3.8	5.3	3.9	5.6	3.9	5.7	4.1	5.9	4.1	6.2	4.0	6.6	3.9
	35.0	5.0	3.8	5.2	3.9	5.5	3.8	5.6	4.1	5.8	4.0	6.1	4.0	6.4	3.9
	37.5	4.9	3.7	5.1	3.8	5.4	3.8	5.5	4.0	5.6	4.0	5.9	3.9	6.3	3.8
	40.0	4.8	3.7	5.0	3.8	5.3	3.7	5.4	4.0	5.5	3.9	5.8	3.9	6.1	3.8
	43.0	4.7	3.6	4.8	3.7	5.1	3.7	5.3	3.9	5.4	3.9	5.6	3.8	6.0	3.7
46.0	3.6	3.1	3.8	3.3	4.1	3.2	4.2	3.5	4.3	3.5	4.6	3.4	4.9	3.4	
63 (7.1)	20.0	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.3	7.9	5.2	8.4	5.2	9.0	5.1
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.3	7.9	5.2	8.4	5.2	9.0	5.1
	25.0	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.2	7.9	5.2	8.3	5.1	8.8	5.0
	27.5	6.7	4.9	6.9	5.0	7.3	4.9	7.5	5.2	7.7	5.1	8.1	5.1	8.7	5.0
	30.0	6.6	4.8	6.8	4.9	7.2	4.9	7.4	5.1	7.6	5.1	8.0	5.0	8.5	4.9
	32.5	6.5	4.7	6.7	4.9	7.1	4.8	7.2	5.1	7.4	5.0	7.8	4.9	8.3	4.9
	35.0	6.4	4.7	6.5	4.8	6.9	4.7	7.1	5.0	7.3	5.0	7.7	4.9	8.1	4.8
	37.5	6.2	4.6	6.4	4.7	6.8	4.7	7.0	4.9	7.2	4.9	7.5	4.8	8.0	4.7
	40.0	6.1	4.5	6.3	4.7	6.7	4.6	6.8	4.9	7.0	4.8	7.4	4.7	7.8	4.7
	43.0	6.0	4.5	6.1	4.6	6.5	4.5	6.7	4.8	6.9	4.8	7.2	4.7	7.6	4.6
46.0	4.6	3.8	4.8	4.0	5.2	4.0	5.3	4.2	5.5	4.2	5.8	4.2	6.2	4.1	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

PFFY-P-VLRMM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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
	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
	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
	27.5	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	1.7
	30.0	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	32.5	2.0	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.6
	43.0	1.8	1.5	1.9	1.6	2.0	1.6	2.1	1.7	2.1	1.7	2.2	1.6	2.3	1.6
46.0	1.4	1.4	1.5	1.4	1.6	1.4	1.7	1.5	1.7	1.5	1.8	1.5	1.9	1.5	
25 (2.8)	20.0	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	22.5	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	25.0	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	27.5	2.7	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.0	2.1	3.2	2.0	3.4	2.0
	30.0	2.6	1.9	2.7	2.0	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.3	2.0
	32.5	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	35.0	2.5	1.9	2.6	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.0	1.9	3.2	1.9
	37.5	2.5	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.8	2.0	3.0	1.9	3.1	1.9
	40.0	2.4	1.8	2.5	1.9	2.6	1.8	2.7	2.0	2.8	1.9	2.9	1.9	3.1	1.9
	43.0	2.4	1.8	2.4	1.8	2.6	1.8	2.6	1.9	2.7	1.9	2.8	1.9	3.0	1.8
46.0	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	1.7	
32 (3.6)	20.0	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.6	2.6
	22.5	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.6	2.6
	25.0	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.0	2.6	4.2	2.6	4.5	2.6
	27.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.6	3.8	2.6	4.1	2.5	4.3	2.5
	32.5	3.3	2.4	3.4	2.5	3.6	2.4	3.7	2.6	3.8	2.6	4.0	2.5	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	37.5	3.2	2.3	3.3	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.8	2.5	4.0	2.4
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.7	2.4	3.9	2.4
	43.0	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.5	3.5	2.4	3.6	2.4	3.8	2.3
46.0	2.3	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.2	2.9	2.1	3.2	2.1	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.3	3.1	4.4	3.2	4.6	3.2	4.8	3.3	4.9	3.3	5.2	3.2	5.5	3.2
	30.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.2	4.7	3.2	5.0	3.2	5.3	3.1
	35.0	4.0	3.0	4.1	3.1	4.4	3.0	4.5	3.2	4.6	3.2	4.9	3.1	5.2	3.1
	37.5	4.0	3.0	4.1	3.0	4.3	3.0	4.4	3.2	4.5	3.1	4.8	3.1	5.0	3.0
	40.0	3.9	2.9	4.0	3.0	4.2	3.0	4.3	3.1	4.4	3.1	4.7	3.0	4.9	3.0
	43.0	3.8	2.9	3.9	2.9	4.1	2.9	4.2	3.1	4.3	3.1	4.5	3.0	4.8	2.9
46.0	2.9	2.5	3.0	2.6	3.3	2.5	3.4	2.7	3.5	2.7	3.7	2.7	4.0	2.7	
50 (5.6)	20.0	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.3	6.2	4.2	6.6	4.2	7.1	4.1
	22.5	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.3	6.2	4.2	6.6	4.2	7.1	4.1
	25.0	5.3	3.9	5.5	4.1	5.9	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.3	3.9	5.5	4.0	5.8	4.0	5.9	4.2	6.1	4.2	6.4	4.1	6.8	4.0
	30.0	5.2	3.9	5.4	4.0	5.7	3.9	5.8	4.2	6.0	4.1	6.3	4.1	6.7	4.0
	32.5	5.1	3.8	5.3	3.9	5.6	3.9	5.7	4.1	5.9	4.1	6.2	4.0	6.6	3.9
	35.0	5.0	3.8	5.2	3.9	5.5	3.8	5.6	4.1	5.8	4.0	6.1	4.0	6.4	3.9
	37.5	4.9	3.7	5.1	3.8	5.4	3.8	5.5	4.0	5.6	4.0	5.9	3.9	6.3	3.8
	40.0	4.8	3.7	5.0	3.8	5.3	3.7	5.4	4.0	5.5	3.9	5.8	3.9	6.1	3.8
	43.0	4.7	3.6	4.8	3.7	5.1	3.7	5.3	3.9	5.4	3.9	5.6	3.8	6.0	3.7
46.0	3.6	3.1	3.8	3.3	4.1	3.2	4.2	3.5	4.3	3.5	4.6	3.4	4.9	3.4	
63 (7.1)	20.0	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.3	7.9	5.2	8.4	5.2	9.0	5.1
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.3	7.9	5.2	8.4	5.2	9.0	5.1
	25.0	6.7	4.9	7.0	5.0	7.5	5.0	7.7	5.2	7.9	5.2	8.3	5.1	8.8	5.0
	27.5	6.7	4.9	6.9	5.0	7.3	4.9	7.5	5.2	7.7	5.1	8.1	5.1	8.7	5.0
	30.0	6.6	4.8	6.8	4.9	7.2	4.9	7.4	5.1	7.6	5.1	8.0	5.0	8.5	4.9
	32.5	6.5	4.7	6.7	4.9	7.1	4.8	7.2	5.1	7.4	5.0	7.8	4.9	8.3	4.9
	35.0	6.4	4.7	6.5	4.8	6.9	4.7	7.1	5.0	7.3	5.0	7.7	4.9	8.1	4.8
	37.5	6.2	4.6	6.4	4.7	6.8	4.7	7.0	4.9	7.2	4.9	7.5	4.8	8.0	4.7
	40.0	6.1	4.5	6.3	4.7	6.7	4.6	6.8	4.9	7.0	4.8	7.4	4.7	7.8	4.7
	43.0	6.0	4.5	6.1	4.6	6.5	4.5	6.7	4.8	6.9	4.8	7.2	4.7	7.6	4.6
46.0	4.6	3.8	4.8	4.0	5.2	4.0	5.3	4.2	5.5	4.2	5.8	4.2	6.2	4.1	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

## 8-2. Cooling capacity with PUHY, PURY-EP300-400Y(S)KM

PFFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	20.0	2.1	1.7	2.2	1.8	2.4	1.7	2.5	1.9	2.5	1.9	2.7	1.8	2.9	1.8
	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
	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
	27.5	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
	30.0	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	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.8	2.3	1.7	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7
	43.0	1.9	1.6	1.9	1.6	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.4	1.6
46.0	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.5	1.7	1.5	1.8	1.5	2.0	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.6	2.1
	22.5	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.1	3.6	2.1
	25.0	2.7	2.0	2.7	2.0	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	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
	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	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.0	3.0	2.0	3.2	2.0
	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
	40.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	1.9
	43.0	2.4	1.8	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.8	1.9	3.0	1.9
46.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.8	2.2	1.8	2.3	1.7	2.5	1.7	
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.7	4.2	2.7	4.4	2.6	4.7	2.6
	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	2.5
	25.0	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.0	2.6	4.2	2.6	4.5	2.5
	27.5	3.4	2.4	3.5	2.5	3.7	2.4	3.8	2.6	3.9	2.6	4.2	2.5	4.4	2.5
	30.0	3.3	2.4	3.4	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.3	2.4
	32.5	3.3	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.2	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.3	3.6	2.5	3.7	2.5	3.9	2.4	4.2	2.4
	37.5	3.2	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.8	2.4	4.1	2.3
	40.0	3.1	2.3	3.1	2.3	3.3	2.3	3.4	2.4	3.5	2.4	3.8	2.4	4.0	2.3
	43.0	3.0	2.2	3.0	2.2	3.2	2.2	3.3	2.4	3.4	2.3	3.7	2.3	3.9	2.3
46.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.1	2.8	2.1	3.0	2.1	3.2	2.0	
40 (4.5)	20.0	4.4	3.0	4.5	3.1	4.9	3.1	5.0	3.3	5.2	3.3	5.5	3.2	5.8	3.2
	22.5	4.4	3.0	4.5	3.1	4.8	3.1	4.9	3.3	5.1	3.2	5.4	3.2	5.7	3.1
	25.0	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.0	3.2	5.3	3.1	5.6	3.1
	27.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.2	4.9	3.1	5.2	3.1	5.5	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.1	3.1	5.4	3.0
	32.5	4.1	2.9	4.2	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.0	3.0	5.3	3.0
	35.0	4.0	2.9	4.1	2.9	4.3	2.9	4.5	3.0	4.6	3.0	4.9	3.0	5.2	2.9
	37.5	3.9	2.8	4.0	2.9	4.2	2.8	4.4	3.0	4.5	3.0	4.8	2.9	5.1	2.9
	40.0	3.9	2.8	3.9	2.8	4.2	2.8	4.3	2.9	4.4	2.9	4.7	2.9	5.0	2.8
	43.0	3.8	2.7	3.8	2.8	4.0	2.7	4.2	2.9	4.3	2.9	4.6	2.8	4.8	2.8
46.0	2.9	2.3	3.0	2.4	3.2	2.4	3.3	2.5	3.5	2.5	3.7	2.5	4.0	2.5	

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



# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

PFFY-P-VLEM-E,VLRM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.7	2.4	1.7	2.5	1.9	2.5	1.8	2.7	1.8	2.9	1.8
	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
	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
	27.5	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	1.7
	30.0	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.7	2.6	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.6	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.6
	43.0	1.9	1.6	1.9	1.6	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.4	1.6
46.0	1.4	1.4	1.4	1.4	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.5	2.0	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.6	2.1
	22.5	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.6	2.0
	25.0	2.7	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	27.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.2	2.0	3.4	2.0
	30.0	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	32.5	2.5	1.9	2.6	1.9	2.8	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.0	3.2	1.9
	37.5	2.5	1.8	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
	40.0	2.4	1.8	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	2.9	1.9	3.1	1.9
	43.0	2.4	1.8	2.4	1.8	2.5	1.8	2.6	1.9	2.7	1.9	2.8	1.9	3.0	1.8
46.0	1.8	1.5	1.8	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7	
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.7	4.2	2.7	4.4	2.7	4.7	2.6
	22.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.7	4.1	2.7	4.3	2.7	4.6	2.6
	25.0	3.4	2.5	3.5	2.5	3.8	2.5	3.9	2.7	4.0	2.7	4.2	2.6	4.5	2.6
	27.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.4	2.6
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.6	3.8	2.6	4.1	2.6	4.3	2.5
	32.5	3.3	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.0	2.5	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.5	4.2	2.5
	37.5	3.2	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.8	2.5	4.1	2.4
	40.0	3.1	2.3	3.1	2.4	3.3	2.3	3.4	2.5	3.5	2.5	3.8	2.4	4.0	2.4
	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
46.0	2.4	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.1	3.0	2.1	3.2	2.1	
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.4	5.2	3.4	5.5	3.4	5.8	3.3
	22.5	4.4	3.2	4.5	3.2	4.8	3.2	4.9	3.4	5.1	3.4	5.4	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.3	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.2	4.7	3.2	5.0	3.2	5.3	3.1
	35.0	4.0	3.0	4.1	3.0	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.1	5.2	3.1
	37.5	3.9	2.9	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.1	4.8	3.1	5.1	3.0
	40.0	3.9	2.9	3.9	3.0	4.2	2.9	4.3	3.1	4.4	3.1	4.7	3.1	5.0	3.0
	43.0	3.8	2.9	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.0	4.6	3.0	4.8	3.0
46.0	2.9	2.5	3.0	2.5	3.2	2.5	3.3	2.7	3.5	2.7	3.7	2.7	4.0	2.7	
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.1	4.1	6.3	4.3	6.5	4.3	6.9	4.3	7.3	4.2
	22.5	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.3	6.3	4.3	6.7	4.2	7.1	4.2
	25.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.3	3.9	5.4	4.0	5.7	4.0	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.2	3.9	5.3	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.7	4.0
	32.5	5.1	3.8	5.2	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.2	4.0	6.6	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	4.1	5.7	4.0	6.1	4.0	6.5	3.9
	37.5	4.9	3.7	5.0	3.8	5.3	3.8	5.5	4.0	5.6	4.0	6.0	3.9	6.3	3.9
	40.0	4.8	3.7	4.9	3.7	5.2	3.7	5.3	3.9	5.5	3.9	5.8	3.9	6.2	3.8
	43.0	4.7	3.6	4.7	3.7	5.0	3.7	5.2	3.9	5.4	3.9	5.7	3.8	6.0	3.8
46.0	3.7	3.1	3.7	3.2	4.0	3.2	4.1	3.5	4.3	3.4	4.6	3.4	5.0	3.4	
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.7	5.1	7.9	5.4	8.2	5.3	8.7	5.3	9.2	5.2
	22.5	6.9	4.9	7.1	5.1	7.6	5.0	7.8	5.3	8.0	5.3	8.5	5.2	9.1	5.1
	25.0	6.8	4.9	7.0	5.0	7.4	5.0	7.7	5.2	7.9	5.2	8.4	5.1	8.9	5.1
	27.5	6.7	4.8	6.8	4.9	7.3	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.7	5.0
	30.0	6.5	4.8	6.7	4.9	7.1	4.8	7.4	5.1	7.6	5.1	8.1	5.0	8.5	4.9
	32.5	6.4	4.7	6.6	4.8	7.0	4.8	7.2	5.0	7.4	5.0	7.9	5.0	8.4	4.9
	35.0	6.3	4.7	6.4	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.7	4.9	8.2	4.8
	37.5	6.2	4.6	6.3	4.7	6.7	4.6	6.9	4.9	7.1	4.9	7.6	4.8	8.0	4.7
	40.0	6.1	4.5	6.2	4.6	6.6	4.6	6.8	4.8	7.0	4.8	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.0	4.5	6.4	4.5	6.6	4.8	6.8	4.7	7.2	4.7	7.6	4.6
46.0	4.6	3.8	4.7	3.9	5.0	3.9	5.2	4.2	5.5	4.2	5.9	4.2	6.3	4.1	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

CT

PFFY-P-VLRMM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	20.0	2.1	1.7	2.2	1.7	2.4	1.7	2.5	1.9	2.5	1.8	2.7	1.8	2.9	1.8
	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
	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
	27.5	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	1.7
	30.0	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.7	2.6	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.6	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	40.0	1.9	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.6
	43.0	1.9	1.6	1.9	1.6	2.0	1.6	2.0	1.7	2.1	1.7	2.2	1.7	2.4	1.6
46.0	1.4	1.4	1.4	1.4	1.6	1.4	1.6	1.5	1.7	1.5	1.8	1.5	2.0	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.6	2.1
	22.5	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.6	2.0
	25.0	2.7	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	27.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.2	2.0	3.4	2.0
	30.0	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	32.5	2.5	1.9	2.6	1.9	2.8	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.0	2.0	3.2	1.9
	37.5	2.5	1.8	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
	40.0	2.4	1.8	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	2.9	1.9	3.1	1.9
	43.0	2.4	1.8	2.4	1.8	2.5	1.8	2.6	1.9	2.7	1.9	2.8	1.9	3.0	1.8
46.0	1.8	1.5	1.8	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7	
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.7	4.2	2.7	4.4	2.7	4.7	2.6
	22.5	3.5	2.5	3.6	2.6	3.8	2.6	4.0	2.7	4.1	2.7	4.3	2.7	4.6	2.6
	25.0	3.4	2.5	3.5	2.5	3.8	2.5	3.9	2.7	4.0	2.7	4.2	2.6	4.5	2.6
	27.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.4	2.6
	30.0	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.6	3.8	2.6	4.1	2.6	4.3	2.5
	32.5	3.3	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.0	2.5	4.2	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.7	2.5	3.9	2.5	4.2	2.5
	37.5	3.2	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.8	2.5	4.1	2.4
	40.0	3.1	2.3	3.1	2.4	3.3	2.3	3.4	2.5	3.5	2.5	3.8	2.4	4.0	2.4
	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
46.0	2.4	2.0	2.4	2.0	2.6	2.0	2.7	2.2	2.8	2.1	3.0	2.1	3.2	2.1	
40 (4.5)	20.0	4.4	3.2	4.5	3.3	4.9	3.3	5.0	3.4	5.2	3.4	5.5	3.4	5.8	3.3
	22.5	4.4	3.2	4.5	3.2	4.8	3.2	4.9	3.4	5.1	3.4	5.4	3.3	5.7	3.3
	25.0	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.0	3.3	5.3	3.3	5.6	3.2
	27.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.3	4.9	3.3	5.2	3.3	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.4	3.2
	32.5	4.1	3.0	4.2	3.1	4.4	3.1	4.6	3.2	4.7	3.2	5.0	3.2	5.3	3.1
	35.0	4.0	3.0	4.1	3.0	4.3	3.0	4.5	3.2	4.6	3.2	4.9	3.1	5.2	3.1
	37.5	3.9	2.9	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.1	4.8	3.1	5.1	3.0
	40.0	3.9	2.9	3.9	3.0	4.2	2.9	4.3	3.1	4.4	3.1	4.7	3.1	5.0	3.0
	43.0	3.8	2.9	3.8	2.9	4.0	2.9	4.2	3.1	4.3	3.0	4.6	3.0	4.8	3.0
46.0	2.9	2.5	3.0	2.5	3.2	2.5	3.3	2.7	3.5	2.7	3.7	2.7	4.0	2.7	
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.1	4.1	6.3	4.3	6.5	4.3	6.9	4.3	7.3	4.2
	22.5	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.3	6.3	4.3	6.7	4.2	7.1	4.2
	25.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.3	3.9	5.4	4.0	5.7	4.0	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.2	3.9	5.3	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.7	4.0
	32.5	5.1	3.8	5.2	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.2	4.0	6.6	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	4.1	5.7	4.0	6.1	4.0	6.5	3.9
	37.5	4.9	3.7	5.0	3.8	5.3	3.8	5.5	4.0	5.6	4.0	6.0	3.9	6.3	3.9
	40.0	4.8	3.7	4.9	3.7	5.2	3.7	5.3	3.9	5.5	3.9	5.8	3.9	6.2	3.8
	43.0	4.7	3.6	4.7	3.7	5.0	3.7	5.2	3.9	5.4	3.9	5.7	3.8	6.0	3.8
46.0	3.7	3.1	3.7	3.2	4.0	3.2	4.1	3.5	4.3	3.4	4.6	3.4	5.0	3.4	
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.7	5.1	7.9	5.4	8.2	5.3	8.7	5.3	9.2	5.2
	22.5	6.9	4.9	7.1	5.1	7.6	5.0	7.8	5.3	8.0	5.3	8.5	5.2	9.1	5.1
	25.0	6.8	4.9	7.0	5.0	7.4	5.0	7.7	5.2	7.9	5.2	8.4	5.1	8.9	5.1
	27.5	6.7	4.8	6.8	4.9	7.3	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.7	5.0
	30.0	6.5	4.8	6.7	4.9	7.1	4.8	7.4	5.1	7.6	5.1	8.1	5.0	8.5	4.9
	32.5	6.4	4.7	6.6	4.8	7.0	4.8	7.2	5.0	7.4	5.0	7.9	5.0	8.4	4.9
	35.0	6.3	4.7	6.4	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.7	4.9	8.2	4.8
	37.5	6.2	4.6	6.3	4.7	6.7	4.6	6.9	4.9	7.1	4.9	7.6	4.8	8.0	4.7
	40.0	6.1	4.5	6.2	4.6	6.6	4.6	6.8	4.8	7.0	4.8	7.4	4.8	7.8	4.7
	43.0	6.0	4.5	6.0	4.5	6.4	4.5	6.6	4.8	6.8	4.7	7.2	4.7	7.6	4.6
46.0	4.6	3.8	4.7	3.9	5.0	3.9	5.2	4.2	5.5	4.2	5.9	4.2	6.3	4.1	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

## 8-3. Cooling capacity with PUHY, PURY-EP450-650Y(S)KM

PFFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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	2.8	1.8
	22.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	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	2.7	1.8
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.7	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.4	1.7	2.6	1.7
	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	2.5	1.7
46.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	20.0	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	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
	25.0	2.6	2.0	2.7	2.0	2.9	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.5	2.1
	27.5	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	40.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	43.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.2	2.0
46.0	1.9	1.6	1.9	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.7	1.8	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.5	2.5
	22.5	3.4	2.4	3.5	2.5	3.7	2.4	3.8	2.6	4.0	2.6	4.2	2.5	4.5	2.5
	25.0	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.6	3.9	2.5	4.2	2.5	4.4	2.5
	27.5	3.3	2.4	3.4	2.4	3.6	2.4	3.8	2.5	3.9	2.5	4.1	2.5	4.4	2.5
	30.0	3.3	2.3	3.3	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.3	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.3	3.6	2.5	3.8	2.5	4.0	2.5	4.3	2.4
	37.5	3.2	2.3	3.2	2.3	3.5	2.3	3.6	2.5	3.7	2.5	4.0	2.4	4.2	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.7	2.4	3.9	2.4	4.2	2.4
	43.0	3.1	2.3	3.1	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.2	2.4
46.0	2.4	1.9	2.4	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.2	2.1	3.5	2.1	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.0	4.8	3.2	5.0	3.2	5.3	3.2	5.7	3.1
	22.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.2	4.9	3.2	5.3	3.1	5.6	3.1
	25.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.2	4.9	3.1	5.2	3.1	5.6	3.1
	27.5	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.2	3.1	5.5	3.1
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.6	3.1	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.9	4.1	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.1	3.0	5.4	3.0
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	3.0
	37.5	4.0	2.8	4.0	2.9	4.3	2.9	4.5	3.0	4.6	3.0	5.0	3.0	5.3	3.0
	40.0	3.9	2.8	4.0	2.8	4.3	2.8	4.4	3.0	4.6	3.0	4.9	3.0	5.3	3.0
	43.0	3.9	2.8	3.9	2.8	4.2	2.8	4.4	3.0	4.5	3.0	4.9	3.0	5.2	2.9
46.0	3.0	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.7	2.6	4.0	2.6	4.4	2.6	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

CT

PFY-P-VLEM-E,VLRM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	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	2.8	1.8
	22.5	2.1	1.6	2.1	1.7	2.3	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	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	2.7	1.7
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.7	2.7	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.4	1.7	2.6	1.7
	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	2.5	1.7
46.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	20.0	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	22.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	25.0	2.6	1.9	2.7	2.0	2.9	1.9	2.9	2.1	3.0	2.1	3.2	2.0	3.5	2.0
	27.5	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	30.0	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	32.5	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	37.5	2.5	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	40.0	2.4	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	43.0	2.4	1.8	2.4	1.8	2.6	1.8	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
46.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.7	1.7	
32 (3.6)	20.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.5	2.6
	22.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.6	4.5	2.6
	25.0	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.4	2.6
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.3	2.4	3.3	2.5	3.6	2.4	3.7	2.6	3.8	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.1	2.5	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.2	2.5
	43.0	3.1	2.3	3.1	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.9	2.5	4.2	2.5
46.0	2.4	2.0	2.4	2.0	2.7	2.1	2.8	2.2	2.9	2.2	3.2	2.2	3.5	2.2	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.3	4.9	3.3	5.3	3.3	5.6	3.2
	25.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.2	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.2	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.0	4.4	3.0	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.1
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.1
	40.0	3.9	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.1	4.5	3.1	4.9	3.1	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	22.5	5.2	3.9	5.4	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	25.0	5.2	3.9	5.3	4.0	5.7	3.9	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	27.5	5.1	3.8	5.3	3.9	5.6	3.9	5.8	4.2	6.0	4.1	6.4	4.1	6.9	4.1
	30.0	5.1	3.8	5.2	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	4.1	5.8	4.1	6.2	4.0	6.7	4.0
	37.5	4.9	3.7	5.0	3.8	5.4	3.8	5.6	4.1	5.8	4.0	6.2	4.0	6.6	4.0
	40.0	4.9	3.7	4.9	3.8	5.3	3.8	5.5	4.0	5.7	4.0	6.1	4.0	6.5	3.9
	43.0	4.8	3.7	4.9	3.7	5.2	3.7	5.4	4.0	5.6	4.0	6.0	4.0	6.5	3.9
46.0	3.7	3.2	3.8	3.3	4.2	3.3	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6	
63 (7.1)	20.0	6.7	4.8	6.9	5.0	7.4	5.0	7.6	5.2	7.9	5.2	8.4	5.1	8.9	5.1
	22.5	6.6	4.8	6.8	4.9	7.3	4.9	7.6	5.2	7.8	5.2	8.3	5.1	8.8	5.0
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.7	6.7	4.9	7.2	4.8	7.4	5.1	7.6	5.1	8.2	5.1	8.7	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.6	6.4	4.7	6.9	4.7	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.9
	37.5	6.2	4.6	6.3	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	4.9	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.1	4.9	7.7	4.9	8.2	4.8
46.0	4.7	3.9	4.8	4.0	5.3	4.0	5.6	4.3	5.8	4.3	6.3	4.4	6.9	4.3	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

PFFY-P-VLRMM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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	2.8	1.8
	22.5	2.1	1.6	2.1	1.7	2.3	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	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	2.7	1.7
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.7	2.7	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.4	1.7	2.6	1.7
	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	2.5	1.7
46.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	20.0	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	22.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	25.0	2.6	1.9	2.7	2.0	2.9	1.9	2.9	2.1	3.0	2.1	3.2	2.0	3.5	2.0
	27.5	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	30.0	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	32.5	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	37.5	2.5	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	40.0	2.4	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	43.0	2.4	1.8	2.4	1.8	2.6	1.8	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
46.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.7	1.7	
32 (3.6)	20.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.5	2.6
	22.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.6	4.5	2.6
	25.0	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.4	2.6
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.3	2.4	3.3	2.5	3.6	2.4	3.7	2.6	3.8	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.1	2.5	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.2	2.5
	43.0	3.1	2.3	3.1	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.9	2.5	4.2	2.5
46.0	2.4	2.0	2.4	2.0	2.7	2.1	2.8	2.2	2.9	2.2	3.2	2.2	3.5	2.2	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.3	4.9	3.3	5.3	3.3	5.6	3.2
	25.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.2	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.2	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.0	4.4	3.0	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.1
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.1
	40.0	3.9	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.1	4.5	3.1	4.9	3.1	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	22.5	5.2	3.9	5.4	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	25.0	5.2	3.9	5.3	4.0	5.7	3.9	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	27.5	5.1	3.8	5.3	3.9	5.6	3.9	5.8	4.2	6.0	4.1	6.4	4.1	6.9	4.1
	30.0	5.1	3.8	5.2	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	4.1	5.8	4.1	6.2	4.0	6.7	4.0
	37.5	4.9	3.7	5.0	3.8	5.4	3.8	5.6	4.1	5.8	4.0	6.2	4.0	6.6	4.0
	40.0	4.9	3.7	4.9	3.8	5.3	3.8	5.5	4.0	5.7	4.0	6.1	4.0	6.5	3.9
	43.0	4.8	3.7	4.9	3.7	5.2	3.7	5.4	4.0	5.6	4.0	6.0	4.0	6.5	3.9
46.0	3.7	3.2	3.8	3.3	4.2	3.3	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6	
63 (7.1)	20.0	6.7	4.8	6.9	5.0	7.4	5.0	7.6	5.2	7.9	5.2	8.4	5.1	8.9	5.1
	22.5	6.6	4.8	6.8	4.9	7.3	4.9	7.6	5.2	7.8	5.2	8.3	5.1	8.8	5.0
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.7	6.7	4.9	7.2	4.8	7.4	5.1	7.6	5.1	8.2	5.1	8.7	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.6	6.4	4.7	6.9	4.7	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.9
	37.5	6.2	4.6	6.3	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	4.9	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.1	4.9	7.7	4.9	8.2	4.8
46.0	4.7	3.9	4.8	4.0	5.3	4.0	5.6	4.3	5.8	4.3	6.3	4.4	6.9	4.3	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

## 8-4. Cooling capacity with PUHY, PURY-EP700-800YSKM

PFFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	20.0	2.1	1.7	2.2	1.7	2.4	1.7	2.4	1.9	2.5	1.9	2.7	1.8	2.9	1.8
	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
	25.0	2.1	1.7	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	32.5	1.9	1.6	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.8	2.3	1.7	2.4	1.7	2.6	1.7
	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
	40.0	1.8	1.6	1.9	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.7
	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	1.7
46.0	1.4	1.4	1.4	1.4	1.6	1.4	1.6	1.5	1.7	1.5	1.9	1.5	2.0	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.2	3.2	2.2	3.4	2.2	3.7	2.1
	22.5	2.7	2.0	2.8	2.1	3.0	2.0	3.1	2.2	3.2	2.2	3.4	2.1	3.6	2.1
	25.0	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
	27.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	35.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.0	3.1	2.0	3.3	2.0
	37.5	2.4	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
	40.0	2.3	1.8	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.0
	43.0	2.3	1.8	2.4	1.9	2.5	1.9	2.6	2.0	2.7	2.0	2.9	2.0	3.1	1.9
46.0	1.8	1.6	1.8	1.6	2.0	1.6	2.1	1.8	2.2	1.8	2.4	1.8	2.5	1.8	
32 (3.6)	20.0	3.5	2.5	3.6	2.5	3.9	2.5	4.0	2.7	4.1	2.6	4.4	2.6	4.7	2.6
	22.5	3.4	2.4	3.5	2.5	3.8	2.5	3.9	2.6	4.1	2.6	4.3	2.6	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.5	2.5
	27.5	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.6	3.9	2.6	4.2	2.5	4.5	2.5
	30.0	3.2	2.3	3.4	2.4	3.6	2.4	3.7	2.5	3.9	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.0	2.5	4.3	2.4
	35.0	3.1	2.3	3.2	2.3	3.5	2.3	3.6	2.5	3.7	2.5	4.0	2.4	4.2	2.4
	37.5	3.1	2.2	3.2	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.1	2.4
	40.0	3.0	2.2	3.1	2.3	3.3	2.3	3.4	2.4	3.6	2.4	3.8	2.4	4.0	2.3
	43.0	2.9	2.2	3.0	2.2	3.2	2.2	3.4	2.4	3.5	2.4	3.7	2.3	3.9	2.3
46.0	2.3	1.8	2.3	1.9	2.6	1.9	2.7	2.1	2.8	2.1	3.0	2.1	3.3	2.1	
40 (4.5)	20.0	4.3	3.0	4.5	3.1	4.8	3.1	5.0	3.3	5.2	3.3	5.5	3.2	5.9	3.2
	22.5	4.3	3.0	4.4	3.1	4.7	3.1	4.9	3.2	5.1	3.2	5.4	3.2	5.8	3.2
	25.0	4.2	3.0	4.3	3.0	4.7	3.0	4.8	3.2	5.0	3.2	5.3	3.2	5.7	3.1
	27.5	4.1	2.9	4.3	3.0	4.6	3.0	4.7	3.2	4.9	3.1	5.2	3.1	5.6	3.1
	30.0	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.8	4.1	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.0	3.0	5.4	3.0
	35.0	3.9	2.8	4.0	2.9	4.3	2.9	4.5	3.0	4.6	3.0	4.9	3.0	5.3	3.0
	37.5	3.8	2.8	4.0	2.8	4.2	2.8	4.4	3.0	4.5	3.0	4.8	3.0	5.2	2.9
	40.0	3.8	2.7	3.9	2.8	4.2	2.8	4.3	3.0	4.5	2.9	4.8	2.9	5.1	2.9
	43.0	3.7	2.7	3.8	2.8	4.1	2.7	4.2	2.9	4.3	2.9	4.6	2.9	4.9	2.8
46.0	2.8	2.3	2.9	2.3	3.2	2.4	3.4	2.5	3.5	2.5	3.8	2.5	4.1	2.5	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

PFFY-P-VLEM-E,VLRM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	20.0	2.1	1.7	2.2	1.7	2.4	1.7	2.4	1.8	2.5	1.8	2.7	1.8	2.9	1.8
	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
	25.0	2.1	1.6	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	32.5	1.9	1.6	2.0	1.6	2.2	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.7
	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
	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	1.7
	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	1.6
46.0	1.4	1.3	1.4	1.4	1.6	1.4	1.6	1.5	1.7	1.5	1.9	1.5	2.0	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.7	2.1
	22.5	2.7	1.9	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.6	2.1
	25.0	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	27.5	2.6	1.9	2.7	2.0	2.9	1.9	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	30.0	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	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	3.3	2.0
	35.0	2.4	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	37.5	2.4	1.8	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
	40.0	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.9	3.1	1.9
	43.0	2.3	1.8	2.4	1.8	2.5	1.8	2.6	1.9	2.7	1.9	2.9	1.9	3.1	1.9
46.0	1.8	1.5	1.8	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.4	1.7	2.5	1.7	
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.7	4.1	2.7	4.4	2.7	4.7	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.1	2.7	4.3	2.7	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.5	2.6
	27.5	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.5	2.6
	30.0	3.2	2.4	3.4	2.5	3.6	2.5	3.7	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.0	2.5	4.3	2.5
	35.0	3.1	2.3	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	37.5	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.9	2.5	4.1	2.4
	40.0	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.5	3.6	2.5	3.8	2.4	4.0	2.4
	43.0	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.4	3.5	2.4	3.7	2.4	3.9	2.4
46.0	2.3	1.9	2.3	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.2	3.3	2.1	
40 (4.5)	20.0	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.4	5.2	3.4	5.5	3.4	5.9	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.1	3.4	5.4	3.3	5.8	3.3
	25.0	4.2	3.1	4.3	3.2	4.7	3.2	4.8	3.3	5.0	3.3	5.3	3.3	5.7	3.3
	27.5	4.1	3.0	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.0	4.6	3.2	4.7	3.2	5.0	3.2	5.4	3.1
	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	5.3	3.1
	37.5	3.8	2.9	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.1	4.8	3.1	5.2	3.1
	40.0	3.8	2.9	3.9	2.9	4.2	2.9	4.3	3.1	4.5	3.1	4.8	3.1	5.1	3.0
	43.0	3.7	2.8	3.8	2.9	4.1	2.9	4.2	3.1	4.3	3.1	4.6	3.0	4.9	3.0
46.0	2.8	2.4	2.9	2.5	3.2	2.5	3.4	2.7	3.5	2.7	3.8	2.7	4.1	2.7	
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.3	6.4	4.3	6.9	4.3	7.3	4.2
	22.5	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.3	6.3	4.3	6.7	4.2	7.2	4.2
	25.0	5.2	3.9	5.4	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.1	3.8	5.3	4.0	5.7	3.9	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.0	3.8	5.2	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.7	5.1	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.3	4.0	6.7	4.0
	35.0	4.9	3.7	5.0	3.8	5.4	3.8	5.6	4.1	5.8	4.0	6.2	4.0	6.5	3.9
	37.5	4.8	3.7	4.9	3.8	5.3	3.8	5.5	4.0	5.7	4.0	6.0	3.9	6.4	3.9
	40.0	4.7	3.6	4.8	3.7	5.2	3.7	5.4	4.0	5.5	3.9	5.9	3.9	6.3	3.9
	43.0	4.6	3.6	4.7	3.7	5.1	3.7	5.2	3.9	5.4	3.9	5.8	3.9	6.1	3.8
46.0	3.5	3.1	3.6	3.2	4.0	3.2	4.2	3.5	4.4	3.5	4.7	3.5	5.1	3.4	
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.6	5.1	7.9	5.3	8.2	5.3	8.7	5.3	9.3	5.2
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.8	5.3	8.0	5.3	8.6	5.2	9.1	5.1
	25.0	6.6	4.8	6.9	5.0	7.4	4.9	7.6	5.2	7.9	5.2	8.4	5.2	8.9	5.1
	27.5	6.5	4.7	6.7	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.3	5.1	8.8	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.3	4.6	6.5	4.8	7.0	4.8	7.2	5.0	7.5	5.0	7.9	5.0	8.5	4.9
	35.0	6.2	4.6	6.4	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.3	4.8
	37.5	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.2	4.9	7.6	4.9	8.1	4.8
	40.0	5.9	4.5	6.1	4.6	6.6	4.6	6.8	4.9	7.0	4.8	7.5	4.8	8.0	4.7
	43.0	5.8	4.4	6.0	4.5	6.4	4.5	6.6	4.8	6.9	4.8	7.3	4.7	7.8	4.7
46.0	4.5	3.8	4.6	3.9	5.1	3.9	5.3	4.2	5.5	4.2	6.0	4.2	6.4	4.2	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

CT

PFFY-P-VLRMM-E

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

Model size (Rated kW)	Outdoor air temp.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA
20 (2.2)	20.0	2.1	1.7	2.2	1.7	2.4	1.7	2.4	1.8	2.5	1.8	2.7	1.8	2.9	1.8
	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
	25.0	2.1	1.6	2.1	1.7	2.3	1.7	2.4	1.8	2.4	1.8	2.6	1.8	2.8	1.8
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	32.5	1.9	1.6	2.0	1.6	2.2	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.7
	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
	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	1.7
	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	1.6
46.0	1.4	1.3	1.4	1.4	1.6	1.4	1.6	1.5	1.7	1.5	1.9	1.5	2.0	1.5	
25 (2.8)	20.0	2.7	2.0	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.7	2.1
	22.5	2.7	1.9	2.8	2.0	3.0	2.0	3.1	2.1	3.2	2.1	3.4	2.1	3.6	2.1
	25.0	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	27.5	2.6	1.9	2.7	2.0	2.9	1.9	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	30.0	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	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	3.3	2.0
	35.0	2.4	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	37.5	2.4	1.8	2.5	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
	40.0	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.9	2.8	1.9	3.0	1.9	3.1	1.9
	43.0	2.3	1.8	2.4	1.8	2.5	1.8	2.6	1.9	2.7	1.9	2.9	1.9	3.1	1.9
46.0	1.8	1.5	1.8	1.6	2.0	1.6	2.1	1.7	2.2	1.7	2.4	1.7	2.5	1.7	
32 (3.6)	20.0	3.5	2.5	3.6	2.6	3.9	2.6	4.0	2.7	4.1	2.7	4.4	2.7	4.7	2.7
	22.5	3.4	2.5	3.5	2.6	3.8	2.5	3.9	2.7	4.1	2.7	4.3	2.7	4.6	2.6
	25.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.5	2.6
	27.5	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.5	2.6
	30.0	3.2	2.4	3.4	2.5	3.6	2.5	3.7	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.0	2.5	4.3	2.5
	35.0	3.1	2.3	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	37.5	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.9	2.5	4.1	2.4
	40.0	3.0	2.3	3.1	2.3	3.3	2.3	3.4	2.5	3.6	2.5	3.8	2.4	4.0	2.4
	43.0	2.9	2.2	3.0	2.3	3.2	2.3	3.4	2.4	3.5	2.4	3.7	2.4	3.9	2.4
46.0	2.3	1.9	2.3	2.0	2.6	2.0	2.7	2.2	2.8	2.2	3.0	2.2	3.3	2.1	
40 (4.5)	20.0	4.3	3.1	4.5	3.2	4.8	3.2	5.0	3.4	5.2	3.4	5.5	3.4	5.9	3.3
	22.5	4.3	3.1	4.4	3.2	4.7	3.2	4.9	3.4	5.1	3.4	5.4	3.3	5.8	3.3
	25.0	4.2	3.1	4.3	3.2	4.7	3.2	4.8	3.3	5.0	3.3	5.3	3.3	5.7	3.3
	27.5	4.1	3.0	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.0	4.6	3.2	4.7	3.2	5.0	3.2	5.4	3.1
	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	5.3	3.1
	37.5	3.8	2.9	4.0	3.0	4.2	3.0	4.4	3.2	4.5	3.1	4.8	3.1	5.2	3.1
	40.0	3.8	2.9	3.9	2.9	4.2	2.9	4.3	3.1	4.5	3.1	4.8	3.1	5.1	3.0
	43.0	3.7	2.8	3.8	2.9	4.1	2.9	4.2	3.1	4.3	3.1	4.6	3.0	4.9	3.0
46.0	2.8	2.4	2.9	2.5	3.2	2.5	3.4	2.7	3.5	2.7	3.8	2.7	4.1	2.7	
50 (5.6)	20.0	5.4	4.0	5.6	4.1	6.0	4.1	6.2	4.3	6.4	4.3	6.9	4.3	7.3	4.2
	22.5	5.3	3.9	5.5	4.1	5.9	4.0	6.1	4.3	6.3	4.3	6.7	4.2	7.2	4.2
	25.0	5.2	3.9	5.4	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	27.5	5.1	3.8	5.3	4.0	5.7	3.9	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	30.0	5.0	3.8	5.2	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.7	5.1	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.3	4.0	6.7	4.0
	35.0	4.9	3.7	5.0	3.8	5.4	3.8	5.6	4.1	5.8	4.0	6.2	4.0	6.5	3.9
	37.5	4.8	3.7	4.9	3.8	5.3	3.8	5.5	4.0	5.7	4.0	6.0	3.9	6.4	3.9
	40.0	4.7	3.6	4.8	3.7	5.2	3.7	5.4	4.0	5.5	3.9	5.9	3.9	6.3	3.9
	43.0	4.6	3.6	4.7	3.7	5.1	3.7	5.2	3.9	5.4	3.9	5.8	3.9	6.1	3.8
46.0	3.5	3.1	3.6	3.2	4.0	3.2	4.2	3.5	4.4	3.5	4.7	3.5	5.1	3.4	
63 (7.1)	20.0	6.9	4.9	7.1	5.1	7.6	5.1	7.9	5.3	8.2	5.3	8.7	5.3	9.3	5.2
	22.5	6.7	4.9	7.0	5.0	7.5	5.0	7.8	5.3	8.0	5.3	8.6	5.2	9.1	5.1
	25.0	6.6	4.8	6.9	5.0	7.4	4.9	7.6	5.2	7.9	5.2	8.4	5.2	8.9	5.1
	27.5	6.5	4.7	6.7	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.3	5.1	8.8	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.3	4.6	6.5	4.8	7.0	4.8	7.2	5.0	7.5	5.0	7.9	5.0	8.5	4.9
	35.0	6.2	4.6	6.4	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.3	4.8
	37.5	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.2	4.9	7.6	4.9	8.1	4.8
	40.0	5.9	4.5	6.1	4.6	6.6	4.6	6.8	4.9	7.0	4.8	7.5	4.8	8.0	4.7
	43.0	5.8	4.4	6.0	4.5	6.4	4.5	6.6	4.8	6.9	4.8	7.3	4.7	7.8	4.7
46.0	4.5	3.8	4.6	3.9	5.1	3.9	5.3	4.2	5.5	4.2	6.0	4.2	6.4	4.2	

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



# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

## 8-5. Cooling capacity with PUHY-EP850-900YSKM

PFFY-P-VKM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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	2.8	1.8
	22.5	2.1	1.7	2.1	1.7	2.3	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	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	2.7	1.8
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.8
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.8	2.7	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.7
	35.0	2.0	1.6	2.0	1.7	2.1	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.8	2.3	1.8	2.4	1.7	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.4	1.7	2.6	1.7
	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	2.5	1.7
46.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	20.0	2.6	2.0	2.7	2.0	2.9	2.0	3.0	2.2	3.1	2.1	3.3	2.1	3.5	2.1
	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
	25.0	2.6	2.0	2.7	2.0	2.9	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.5	2.1
	27.5	2.6	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.1
	30.0	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	32.5	2.5	1.9	2.6	2.0	2.8	2.0	2.9	2.1	3.0	2.1	3.2	2.1	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	37.5	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.1	2.9	2.1	3.1	2.0	3.3	2.0
	40.0	2.4	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	43.0	2.4	1.9	2.4	1.9	2.6	1.9	2.7	2.0	2.8	2.0	3.0	2.0	3.2	2.0
46.0	1.9	1.6	1.9	1.7	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.7	1.8	
32 (3.6)	20.0	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.6	4.0	2.6	4.3	2.6	4.5	2.5
	22.5	3.4	2.4	3.5	2.5	3.7	2.4	3.8	2.6	4.0	2.6	4.2	2.5	4.5	2.5
	25.0	3.3	2.4	3.4	2.4	3.7	2.4	3.8	2.6	3.9	2.5	4.2	2.5	4.4	2.5
	27.5	3.3	2.4	3.4	2.4	3.6	2.4	3.8	2.5	3.9	2.5	4.1	2.5	4.4	2.5
	30.0	3.3	2.3	3.3	2.4	3.6	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.4	2.5
	32.5	3.2	2.3	3.3	2.4	3.5	2.4	3.7	2.5	3.8	2.5	4.1	2.5	4.3	2.4
	35.0	3.2	2.3	3.3	2.4	3.5	2.3	3.6	2.5	3.8	2.5	4.0	2.5	4.3	2.4
	37.5	3.2	2.3	3.2	2.3	3.5	2.3	3.6	2.5	3.7	2.5	4.0	2.4	4.2	2.4
	40.0	3.1	2.3	3.2	2.3	3.4	2.3	3.5	2.4	3.7	2.4	3.9	2.4	4.2	2.4
	43.0	3.1	2.3	3.1	2.3	3.4	2.3	3.5	2.4	3.6	2.4	3.9	2.4	4.2	2.4
46.0	2.4	1.9	2.4	2.0	2.7	2.0	2.8	2.1	2.9	2.1	3.2	2.1	3.5	2.1	
40 (4.5)	20.0	4.3	3.0	4.4	3.1	4.7	3.0	4.8	3.2	5.0	3.2	5.3	3.2	5.7	3.1
	22.5	4.2	3.0	4.3	3.0	4.6	3.0	4.8	3.2	4.9	3.2	5.3	3.1	5.6	3.1
	25.0	4.2	2.9	4.3	3.0	4.6	3.0	4.7	3.2	4.9	3.1	5.2	3.1	5.6	3.1
	27.5	4.1	2.9	4.2	3.0	4.5	3.0	4.7	3.1	4.8	3.1	5.2	3.1	5.5	3.1
	30.0	4.1	2.9	4.2	2.9	4.5	2.9	4.6	3.1	4.8	3.1	5.1	3.1	5.5	3.0
	32.5	4.0	2.9	4.1	2.9	4.4	2.9	4.6	3.1	4.7	3.1	5.1	3.0	5.4	3.0
	35.0	4.0	2.8	4.1	2.9	4.4	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	3.0
	37.5	4.0	2.8	4.0	2.9	4.3	2.9	4.5	3.0	4.6	3.0	5.0	3.0	5.3	3.0
	40.0	3.9	2.8	4.0	2.8	4.3	2.8	4.4	3.0	4.6	3.0	4.9	3.0	5.3	3.0
	43.0	3.9	2.8	3.9	2.8	4.2	2.8	4.4	3.0	4.5	3.0	4.9	3.0	5.2	2.9
46.0	3.0	2.4	3.1	2.4	3.4	2.4	3.5	2.6	3.7	2.6	4.0	2.6	4.4	2.6	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

CT

PFFY-P-VLEM-E,VLRM-E

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

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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	2.8	1.8
	22.5	2.1	1.6	2.1	1.7	2.3	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	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	2.7	1.7
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.7	2.7	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.4	1.7	2.6	1.7
	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	2.5	1.7
46.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	20.0	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	22.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	25.0	2.6	1.9	2.7	2.0	2.9	1.9	2.9	2.1	3.0	2.1	3.2	2.0	3.5	2.0
	27.5	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	30.0	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	32.5	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	37.5	2.5	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	40.0	2.4	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	43.0	2.4	1.8	2.4	1.8	2.6	1.8	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
46.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.7	1.7	
32 (3.6)	20.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.5	2.6
	22.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.6	4.5	2.6
	25.0	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.4	2.6
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.3	2.4	3.3	2.5	3.6	2.4	3.7	2.6	3.8	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.1	2.5	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.2	2.5
	43.0	3.1	2.3	3.1	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.9	2.5	4.2	2.5
46.0	2.4	2.0	2.4	2.0	2.7	2.1	2.8	2.2	2.9	2.2	3.2	2.2	3.5	2.2	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.3	4.9	3.3	5.3	3.3	5.6	3.2
	25.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.2	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.2	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.0	4.4	3.0	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.1
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.1
	40.0	3.9	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.1	4.5	3.1	4.9	3.1	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	22.5	5.2	3.9	5.4	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	25.0	5.2	3.9	5.3	4.0	5.7	3.9	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	27.5	5.1	3.8	5.3	3.9	5.6	3.9	5.8	4.2	6.0	4.1	6.4	4.1	6.9	4.1
	30.0	5.1	3.8	5.2	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	4.1	5.8	4.1	6.2	4.0	6.7	4.0
	37.5	4.9	3.7	5.0	3.8	5.4	3.8	5.6	4.1	5.8	4.0	6.2	4.0	6.6	4.0
	40.0	4.9	3.7	4.9	3.8	5.3	3.8	5.5	4.0	5.7	4.0	6.1	4.0	6.5	3.9
	43.0	4.8	3.7	4.9	3.7	5.2	3.7	5.4	4.0	5.6	4.0	6.0	4.0	6.5	3.9
46.0	3.7	3.2	3.8	3.3	4.2	3.3	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6	
63 (7.1)	20.0	6.7	4.8	6.9	5.0	7.4	5.0	7.6	5.2	7.9	5.2	8.4	5.1	8.9	5.1
	22.5	6.6	4.8	6.8	4.9	7.3	4.9	7.6	5.2	7.8	5.2	8.3	5.1	8.8	5.0
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.7	6.7	4.9	7.2	4.8	7.4	5.1	7.6	5.1	8.2	5.1	8.7	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.6	6.4	4.7	6.9	4.7	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.9
	37.5	6.2	4.6	6.3	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	4.9	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.1	4.9	7.7	4.9	8.2	4.8
46.0	4.7	3.9	4.8	4.0	5.3	4.0	5.6	4.3	5.8	4.3	6.3	4.4	6.9	4.3	

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

# 8. Cooling [Floor standing (Exposed 2-way/Exposed/Concealed type)]

EP-YKM

PFFY-P-VLRMM-E

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

CT

Model size (Rated kW)	Outdoor air temp. °C D.B.	Indoor air temp.													
		21.5°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC	CA	SHC
20 (2.2)	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	2.8	1.8
	22.5	2.1	1.6	2.1	1.7	2.3	1.7	2.3	1.8	2.4	1.8	2.6	1.8	2.7	1.8
	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	2.7	1.7
	27.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8	2.7	1.7
	30.0	2.0	1.6	2.0	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.5	1.7	2.7	1.7
	32.5	2.0	1.6	2.0	1.7	2.2	1.6	2.2	1.8	2.3	1.8	2.5	1.7	2.6	1.7
	35.0	2.0	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.6	1.7
	37.5	1.9	1.6	2.0	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.7
	40.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.2	1.7	2.4	1.7	2.6	1.7
	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	2.5	1.7
46.0	1.5	1.4	1.5	1.4	1.6	1.4	1.7	1.6	1.8	1.6	2.0	1.6	2.1	1.6	
25 (2.8)	20.0	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.1	3.5	2.0
	22.5	2.6	1.9	2.7	2.0	2.9	2.0	3.0	2.1	3.1	2.1	3.3	2.0	3.5	2.0
	25.0	2.6	1.9	2.7	2.0	2.9	1.9	2.9	2.1	3.0	2.1	3.2	2.0	3.5	2.0
	27.5	2.6	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	30.0	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	32.5	2.5	1.9	2.6	1.9	2.8	1.9	2.9	2.0	3.0	2.0	3.2	2.0	3.4	2.0
	35.0	2.5	1.9	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	37.5	2.5	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	2.0
	40.0	2.4	1.8	2.5	1.9	2.7	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	43.0	2.4	1.8	2.4	1.8	2.6	1.8	2.7	2.0	2.8	2.0	3.0	1.9	3.2	1.9
46.0	1.9	1.6	1.9	1.6	2.1	1.6	2.2	1.7	2.3	1.7	2.5	1.7	2.7	1.7	
32 (3.6)	20.0	3.4	2.5	3.5	2.5	3.7	2.5	3.9	2.7	4.0	2.7	4.3	2.6	4.5	2.6
	22.5	3.4	2.5	3.5	2.5	3.7	2.5	3.8	2.6	4.0	2.6	4.2	2.6	4.5	2.6
	25.0	3.3	2.4	3.4	2.5	3.7	2.5	3.8	2.6	3.9	2.6	4.2	2.6	4.4	2.6
	27.5	3.3	2.4	3.4	2.5	3.6	2.5	3.8	2.6	3.9	2.6	4.1	2.6	4.4	2.5
	30.0	3.3	2.4	3.3	2.5	3.6	2.4	3.7	2.6	3.8	2.6	4.1	2.6	4.4	2.5
	32.5	3.2	2.4	3.3	2.4	3.5	2.4	3.7	2.6	3.8	2.6	4.1	2.5	4.3	2.5
	35.0	3.2	2.4	3.3	2.4	3.5	2.4	3.6	2.5	3.8	2.6	4.0	2.5	4.3	2.5
	37.5	3.2	2.3	3.2	2.4	3.5	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.5
	40.0	3.1	2.3	3.2	2.4	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.5	4.2	2.5
	43.0	3.1	2.3	3.1	2.4	3.4	2.4	3.5	2.5	3.6	2.5	3.9	2.5	4.2	2.5
46.0	2.4	2.0	2.4	2.0	2.7	2.1	2.8	2.2	2.9	2.2	3.2	2.2	3.5	2.2	
40 (4.5)	20.0	4.3	3.1	4.4	3.2	4.7	3.2	4.8	3.4	5.0	3.3	5.3	3.3	5.7	3.3
	22.5	4.2	3.1	4.3	3.2	4.6	3.1	4.8	3.3	4.9	3.3	5.3	3.3	5.6	3.2
	25.0	4.2	3.1	4.3	3.1	4.6	3.1	4.7	3.3	4.9	3.3	5.2	3.3	5.6	3.2
	27.5	4.1	3.0	4.2	3.1	4.5	3.1	4.7	3.3	4.8	3.3	5.2	3.2	5.5	3.2
	30.0	4.1	3.0	4.2	3.1	4.5	3.1	4.6	3.3	4.8	3.2	5.1	3.2	5.5	3.2
	32.5	4.0	3.0	4.1	3.1	4.4	3.1	4.6	3.2	4.7	3.2	5.1	3.2	5.4	3.2
	35.0	4.0	3.0	4.1	3.0	4.4	3.0	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.1
	37.5	4.0	3.0	4.0	3.0	4.3	3.0	4.5	3.2	4.6	3.2	5.0	3.2	5.3	3.1
	40.0	3.9	2.9	4.0	3.0	4.3	3.0	4.4	3.2	4.6	3.2	4.9	3.1	5.3	3.1
	43.0	3.9	2.9	3.9	3.0	4.2	3.0	4.4	3.1	4.5	3.1	4.9	3.1	5.2	3.1
46.0	3.0	2.5	3.1	2.6	3.4	2.6	3.5	2.8	3.7	2.8	4.0	2.8	4.4	2.8	
50 (5.6)	20.0	5.3	3.9	5.5	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	22.5	5.2	3.9	5.4	4.0	5.8	4.0	6.0	4.2	6.2	4.2	6.6	4.2	7.0	4.1
	25.0	5.2	3.9	5.3	4.0	5.7	3.9	5.9	4.2	6.1	4.2	6.5	4.1	6.9	4.1
	27.5	5.1	3.8	5.3	3.9	5.6	3.9	5.8	4.2	6.0	4.1	6.4	4.1	6.9	4.1
	30.0	5.1	3.8	5.2	3.9	5.6	3.9	5.8	4.1	6.0	4.1	6.4	4.1	6.8	4.0
	32.5	5.0	3.8	5.1	3.9	5.5	3.9	5.7	4.1	5.9	4.1	6.3	4.1	6.7	4.0
	35.0	5.0	3.8	5.1	3.8	5.4	3.8	5.6	4.1	5.8	4.1	6.2	4.0	6.7	4.0
	37.5	4.9	3.7	5.0	3.8	5.4	3.8	5.6	4.1	5.8	4.0	6.2	4.0	6.6	4.0
	40.0	4.9	3.7	4.9	3.8	5.3	3.8	5.5	4.0	5.7	4.0	6.1	4.0	6.5	3.9
	43.0	4.8	3.7	4.9	3.7	5.2	3.7	5.4	4.0	5.6	4.0	6.0	4.0	6.5	3.9
46.0	3.7	3.2	3.8	3.3	4.2	3.3	4.4	3.6	4.6	3.6	5.0	3.6	5.4	3.6	
63 (7.1)	20.0	6.7	4.8	6.9	5.0	7.4	5.0	7.6	5.2	7.9	5.2	8.4	5.1	8.9	5.1
	22.5	6.6	4.8	6.8	4.9	7.3	4.9	7.6	5.2	7.8	5.2	8.3	5.1	8.8	5.0
	25.0	6.6	4.8	6.8	4.9	7.2	4.9	7.5	5.2	7.7	5.1	8.2	5.1	8.8	5.0
	27.5	6.5	4.7	6.7	4.9	7.2	4.8	7.4	5.1	7.6	5.1	8.2	5.1	8.7	5.0
	30.0	6.4	4.7	6.6	4.8	7.1	4.8	7.3	5.1	7.6	5.1	8.1	5.0	8.6	5.0
	32.5	6.4	4.7	6.5	4.8	7.0	4.8	7.2	5.1	7.5	5.0	8.0	5.0	8.5	4.9
	35.0	6.3	4.6	6.4	4.7	6.9	4.7	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.9
	37.5	6.2	4.6	6.3	4.7	6.8	4.7	7.1	5.0	7.3	5.0	7.8	4.9	8.4	4.9
	40.0	6.2	4.6	6.3	4.7	6.7	4.7	7.0	4.9	7.2	4.9	7.8	4.9	8.3	4.9
	43.0	6.1	4.5	6.2	4.6	6.7	4.6	6.9	4.9	7.1	4.9	7.7	4.9	8.2	4.8
46.0	4.7	3.9	4.8	4.0	5.3	4.0	5.6	4.3	5.8	4.3	6.3	4.4	6.9	4.3	

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

# 9. Heating [All indoor units]

EP-YKM

CT

## 9-1. Heating capacity with PUHY, PURY-EP200-250YKM

All Indoor units		SHC:Sensible Heat Capacity(kW)				All Indoor units		SHC:Sensible Heat Capacity(kW)			
Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.				Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
		SHC	SHC	SHC	SHC			SHC	SHC	SHC	SHC
15 (1.9)	-20.0	1.3	1.3	1.3	1.3	71 (9.0)	-20.0	6.2	6.1	6.1	6.0
	-15.0	1.4	1.4	1.4	1.3		-15.0	6.7	6.7	6.5	6.3
	-10.0	1.6	1.6	1.5	1.3		-10.0	7.4	7.4	7.1	6.3
	-5.0	1.8	1.8	1.5	1.3		-5.0	8.4	8.3	7.2	6.3
	0.0	1.9	1.9	1.5	1.3		0.0	9.1	9.0	7.2	6.3
	2.5	1.9	1.9	1.5	1.3		2.5	9.1	9.0	7.2	6.3
	6.0	1.9	1.9	1.5	1.3		6.0	9.1	9.0	7.2	6.3
	7.5	2.0	1.9	1.5	1.3		7.5	9.3	9.0	7.2	6.3
	10.0	2.1	1.9	1.5	1.3		10.0	9.8	9.0	7.2	6.3
	12.5	2.2	1.9	1.5	1.3		12.5	10.4	9.0	7.2	6.3
15.5	2.4	1.9	1.5	1.3	15.5	11.3	9.0	7.2	6.3		
20 (2.5)	-20.0	1.7	1.7	1.7	1.7	80 (10.0)	-20.0	6.9	6.8	6.8	6.7
	-15.0	1.9	1.9	1.8	1.7		-15.0	7.5	7.5	7.2	6.9
	-10.0	2.1	2.0	2.0	1.8		-10.0	8.3	8.2	7.9	7.0
	-5.0	2.3	2.3	2.0	1.8		-5.0	9.4	9.3	8.0	7.0
	0.0	2.5	2.5	2.0	1.8		0.0	10.1	10.0	8.0	7.0
	2.5	2.5	2.5	2.0	1.8		2.5	10.1	10.0	8.0	7.0
	6.0	2.5	2.5	2.0	1.8		6.0	10.1	10.0	8.0	7.0
	7.5	2.6	2.5	2.0	1.8		7.5	10.4	10.0	8.0	7.0
	10.0	2.7	2.5	2.0	1.8		10.0	10.9	10.0	8.0	7.0
	12.5	2.9	2.5	2.0	1.8		12.5	11.6	10.0	8.0	7.0
15.5	3.1	2.5	2.0	1.8	15.5	12.6	10.0	8.0	7.0		
25 (3.2)	-20.0	2.2	2.2	2.2	2.1	100 (12.5)	-20.0	8.7	8.5	8.5	8.4
	-15.0	2.4	2.4	2.3	2.2		-15.0	9.3	9.3	9.0	8.7
	-10.0	2.6	2.6	2.5	2.2		-10.0	10.3	10.2	9.9	8.8
	-5.0	3.0	3.0	2.6	2.2		-5.0	11.7	11.6	10.0	8.8
	0.0	3.2	3.2	2.6	2.2		0.0	12.6	12.5	10.0	8.8
	2.5	3.2	3.2	2.6	2.2		2.5	12.6	12.5	10.0	8.8
	6.0	3.2	3.2	2.6	2.2		6.0	12.6	12.5	10.0	8.8
	7.5	3.3	3.2	2.6	2.2		7.5	12.9	12.5	10.0	8.8
	10.0	3.5	3.2	2.6	2.2		10.0	13.6	12.5	10.0	8.8
	12.5	3.7	3.2	2.6	2.2		12.5	14.5	12.5	10.0	8.8
15.5	4.0	3.2	2.6	2.2	15.5	15.7	12.5	10.0	8.8		
32 (4.0)	-20.0	2.8	2.7	2.7	2.7	125 (16.0)	-20.0	11.1	10.9	10.8	10.7
	-15.0	3.0	3.0	2.9	2.8		-15.0	11.9	11.9	11.5	11.1
	-10.0	3.3	3.3	3.2	2.8		-10.0	13.2	13.1	12.6	11.2
	-5.0	3.7	3.7	3.2	2.8		-5.0	15.0	14.8	12.8	11.2
	0.0	4.0	4.0	3.2	2.8		0.0	16.2	16.0	12.8	11.2
	2.5	4.0	4.0	3.2	2.8		2.5	16.2	16.0	12.8	11.2
	6.0	4.0	4.0	3.2	2.8		6.0	16.2	16.0	12.8	11.2
	7.5	4.1	4.0	3.2	2.8		7.5	16.6	16.0	12.8	11.2
	10.0	4.4	4.0	3.2	2.8		10.0	17.4	16.0	12.8	11.2
	12.5	4.6	4.0	3.2	2.8		12.5	18.5	16.0	12.8	11.2
15.5	5.0	4.0	3.2	2.8	15.5	20.1	16.0	12.8	11.2		
40 (5.0)	-20.0	3.5	3.4	3.4	3.3	140 (18.0)	-20.0	12.5	12.2	12.2	12.1
	-15.0	3.7	3.7	3.6	3.5		-15.0	13.4	13.4	12.9	12.5
	-10.0	4.1	4.1	3.9	3.5		-10.0	14.9	14.7	14.2	12.6
	-5.0	4.7	4.6	4.0	3.5		-5.0	16.9	16.7	14.4	12.6
	0.0	5.1	5.0	4.0	3.5		0.0	18.2	18.0	14.4	12.6
	2.5	5.1	5.0	4.0	3.5		2.5	18.2	18.0	14.4	12.6
	6.0	5.1	5.0	4.0	3.5		6.0	18.2	18.0	14.4	12.6
	7.5	5.2	5.0	4.0	3.5		7.5	18.6	18.0	14.4	12.6
	10.0	5.5	5.0	4.0	3.5		10.0	19.6	18.0	14.4	12.6
	12.5	5.8	5.0	4.0	3.5		12.5	20.9	18.0	14.4	12.6
15.5	6.3	5.0	4.0	3.5	15.5	22.6	18.0	14.4	12.6		
50 (6.3)	-20.0	4.4	4.3	4.3	4.2	200 (25.0)	-20.0	17.3	17.0	16.9	16.7
	-15.0	4.7	4.7	4.5	4.4		-15.0	18.6	18.6	18.0	17.4
	-10.0	5.2	5.2	5.0	4.4		-10.0	20.7	20.5	19.7	17.5
	-5.0	5.9	5.8	5.0	4.4		-5.0	23.4	23.1	20.0	17.5
	0.0	6.4	6.3	5.0	4.4		0.0	25.3	25.0	20.0	17.5
	2.5	6.4	6.3	5.0	4.4		2.5	25.3	25.0	20.0	17.5
	6.0	6.4	6.3	5.0	4.4		6.0	25.3	25.0	20.0	17.5
	7.5	6.5	6.3	5.0	4.4		7.5	25.9	25.0	20.0	17.5
	10.0	6.9	6.3	5.0	4.4		10.0	27.3	25.0	20.0	17.5
	12.5	7.3	6.3	5.0	4.4		12.5	29.0	25.0	20.0	17.5
15.5	7.9	6.3	5.0	4.4	15.5	31.4	25.0	20.0	17.5		
63 (8.0)	-20.0	5.5	5.4	5.4	5.4	250 (31.5)	-20.0	21.8	21.4	21.3	21.1
	-15.0	6.0	6.0	5.7	5.6		-15.0	23.5	23.5	22.6	21.9
	-10.0	6.6	6.6	6.3	5.6		-10.0	26.1	25.8	24.9	22.1
	-5.0	7.5	7.4	6.4	5.6		-5.0	29.5	29.1	25.2	22.1
	0.0	8.1	8.0	6.4	5.6		0.0	31.8	31.5	25.2	22.1
	2.5	8.1	8.0	6.4	5.6		2.5	31.8	31.5	25.2	22.1
	6.0	8.1	8.0	6.4	5.6		6.0	31.8	31.5	25.2	22.1
	7.5	8.3	8.0	6.4	5.6		7.5	32.6	31.5	25.2	22.1
	10.0	8.7	8.0	6.4	5.6		10.0	34.3	31.5	25.2	22.1
	12.5	9.3	8.0	6.4	5.6		12.5	36.5	31.5	25.2	22.1
15.5	10.1	8.0	6.4	5.6	15.5	39.6	31.5	25.2	22.1		

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

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

9-2. Heating capacity with PUHY, PURY-EP300-400Y(S)KM

CT

All Indoor units						All Indoor units					
Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)				Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)			
		Indoor air temp.						Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
15 (1.9)	-20.0	1.2	1.2	1.2	1.2	71 (9.0)	-20.0	5.8	5.8	5.8	5.6
	-15.0	1.3	1.3	1.3	1.2		-15.0	6.3	6.3	6.2	5.8
	-10.0	1.5	1.5	1.4	1.2		-10.0	6.9	6.9	6.7	5.8
	-5.0	1.6	1.7	1.4	1.2		-5.0	7.8	7.8	6.7	5.8
	0.0	1.8	1.8	1.4	1.2		0.0	8.8	8.8	6.7	5.8
	2.5	1.9	1.9	1.4	1.2		2.5	9.0	9.0	6.7	5.8
	6.0	1.9	1.9	1.4	1.2		6.0	9.2	9.0	6.7	5.8
	7.5	2.0	1.9	1.4	1.2		7.5	9.5	9.0	6.7	5.8
	10.0	2.1	1.9	1.4	1.2		10.0	9.9	9.0	6.7	5.8
	12.5	2.2	1.9	1.4	1.2		12.5	10.3	9.0	6.7	5.8
15.5	2.2	1.9	1.4	1.2	15.5	10.3	9.0	6.7	5.8		
20 (2.5)	-20.0	1.6	1.6	1.6	1.6	80 (10.0)	-20.0	6.4	6.5	6.4	6.2
	-15.0	1.7	1.7	1.7	1.6		-15.0	7.0	7.0	6.9	6.4
	-10.0	1.9	1.9	1.9	1.6		-10.0	7.7	7.7	7.5	6.4
	-5.0	2.2	2.2	1.9	1.6		-5.0	8.7	8.7	7.5	6.4
	0.0	2.4	2.4	1.9	1.6		0.0	9.7	9.7	7.5	6.4
	2.5	2.5	2.5	1.9	1.6		2.5	10.0	10.0	7.5	6.4
	6.0	2.6	2.5	1.9	1.6		6.0	10.2	10.0	7.5	6.4
	7.5	2.6	2.5	1.9	1.6		7.5	10.5	10.0	7.5	6.4
	10.0	2.8	2.5	1.9	1.6		10.0	11.1	10.0	7.5	6.4
	12.5	2.9	2.5	1.9	1.6		12.5	11.5	10.0	7.5	6.4
15.5	2.9	2.5	1.9	1.6	15.5	11.5	10.0	7.5	6.4		
25 (3.2)	-20.0	2.1	2.1	2.1	2.0	100 (12.5)	-20.0	8.0	8.1	8.0	7.8
	-15.0	2.2	2.2	2.2	2.0		-15.0	8.7	8.7	8.6	8.0
	-10.0	2.5	2.5	2.4	2.0		-10.0	9.6	9.6	9.3	8.0
	-5.0	2.8	2.8	2.4	2.0		-5.0	10.8	10.9	9.3	8.0
	0.0	3.1	3.1	2.4	2.0		0.0	12.2	12.2	9.3	8.0
	2.5	3.2	3.2	2.4	2.0		2.5	12.5	12.5	9.3	8.0
	6.0	3.3	3.2	2.4	2.0		6.0	12.8	12.5	9.3	8.0
	7.5	3.4	3.2	2.4	2.0		7.5	13.2	12.5	9.3	8.0
	10.0	3.5	3.2	2.4	2.0		10.0	13.8	12.5	9.3	8.0
	12.5	3.7	3.2	2.4	2.0		12.5	14.3	12.5	9.3	8.0
15.5	3.7	3.2	2.4	2.0	15.5	14.3	12.5	9.3	8.0		
32 (4.0)	-20.0	2.6	2.6	2.6	2.5	125 (16.0)	-20.0	10.3	10.3	10.3	9.9
	-15.0	2.8	2.8	2.8	2.6		-15.0	11.1	11.2	11.1	10.2
	-10.0	3.1	3.1	3.0	2.6		-10.0	12.3	12.3	11.9	10.2
	-5.0	3.5	3.5	3.0	2.6		-5.0	13.9	13.9	11.9	10.2
	0.0	3.9	3.9	3.0	2.6		0.0	15.6	15.6	11.9	10.2
	2.5	4.0	4.0	3.0	2.6		2.5	16.0	16.0	11.9	10.2
	6.0	4.1	4.0	3.0	2.6		6.0	16.4	16.0	11.9	10.2
	7.5	4.2	4.0	3.0	2.6		7.5	16.9	16.0	11.9	10.2
	10.0	4.4	4.0	3.0	2.6		10.0	17.7	16.0	11.9	10.2
	12.5	4.6	4.0	3.0	2.6		12.5	18.3	16.0	11.9	10.2
15.5	4.6	4.0	3.0	2.6	15.5	18.3	16.0	11.9	10.2		
40 (5.0)	-20.0	3.2	3.2	3.2	3.1	140 (18.0)	-20.0	11.5	11.6	11.5	11.2
	-15.0	3.5	3.5	3.5	3.2		-15.0	12.5	12.6	12.5	11.5
	-10.0	3.8	3.8	3.7	3.2		-10.0	13.8	13.8	13.4	11.5
	-5.0	4.3	4.3	3.7	3.2		-5.0	15.6	15.6	13.4	11.5
	0.0	4.9	4.9	3.7	3.2		0.0	17.5	17.5	13.4	11.5
	2.5	5.0	5.0	3.7	3.2		2.5	18.0	18.0	13.4	11.5
	6.0	5.1	5.0	3.7	3.2		6.0	18.4	18.0	13.4	11.5
	7.5	5.3	5.0	3.7	3.2		7.5	19.0	18.0	13.4	11.5
	10.0	5.5	5.0	3.7	3.2		10.0	19.9	18.0	13.4	11.5
	12.5	5.7	5.0	3.7	3.2		12.5	20.6	18.0	13.4	11.5
15.5	5.7	5.0	3.7	3.2	15.5	20.6	18.0	13.4	11.5		
50 (6.3)	-20.0	4.0	4.1	4.0	3.9	200 (25.0)	-20.0	16.0	16.1	16.0	15.5
	-15.0	4.4	4.4	4.4	4.0		-15.0	17.4	17.5	17.3	16.0
	-10.0	4.8	4.8	4.7	4.0		-10.0	19.2	19.2	18.6	16.0
	-5.0	5.5	5.5	4.7	4.0		-5.0	21.7	21.7	18.6	16.0
	0.0	6.1	6.1	4.7	4.0		0.0	24.3	24.3	18.6	16.0
	2.5	6.3	6.3	4.7	4.0		2.5	25.0	25.0	18.6	16.0
	6.0	6.5	6.3	4.7	4.0		6.0	25.6	25.0	18.6	16.0
	7.5	6.6	6.3	4.7	4.0		7.5	26.4	25.0	18.6	16.0
	10.0	7.0	6.3	4.7	4.0		10.0	27.6	25.0	18.6	16.0
	12.5	7.2	6.3	4.7	4.0		12.5	28.6	25.0	18.6	16.0
15.5	7.2	6.3	4.7	4.0	15.5	28.6	25.0	18.6	16.0		
63 (8.0)	-20.0	5.1	5.2	5.1	5.0	250 (31.5)	-20.0	20.2	20.3	20.2	19.6
	-15.0	5.6	5.6	5.5	5.1		-15.0	21.9	22.0	21.8	20.2
	-10.0	6.1	6.2	6.0	5.1		-10.0	24.2	24.2	23.5	20.2
	-5.0	6.9	7.0	6.0	5.1		-5.0	27.3	27.4	23.5	20.2
	0.0	7.8	7.8	6.0	5.1		0.0	30.6	30.6	23.5	20.2
	2.5	8.0	8.0	6.0	5.1		2.5	31.5	31.5	23.5	20.2
	6.0	8.2	8.0	6.0	5.1		6.0	32.3	31.5	23.5	20.2
	7.5	8.4	8.0	6.0	5.1		7.5	33.2	31.5	23.5	20.2
	10.0	8.8	8.0	6.0	5.1		10.0	34.8	31.5	23.5	20.2
	12.5	9.2	8.0	6.0	5.1		12.5	36.1	31.5	23.5	20.2
15.5	9.2	8.0	6.0	5.1	15.5	36.1	31.5	23.5	20.2		

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

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

9-3. Heating capacity with PUHY, PURY-EP450-650Y(S)KM

All Indoor units						All Indoor units					
Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)				Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)			
		Indoor air temp.						Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
15 (1.9)	-20.0	1.2	1.1	1.2	1.1	71 (9.0)	-20.0	5.5	5.4	5.4	5.3
	-15.0	1.3	1.3	1.2	1.2		-15.0	6.1	6.0	5.8	5.7
	-10.0	1.4	1.4	1.3	1.3		-10.0	6.8	6.6	6.4	6.2
	-5.0	1.6	1.6	1.5	1.3		-5.0	7.5	7.4	7.1	6.4
	0.0	1.8	1.8	1.5	1.3		0.0	8.3	8.3	7.1	6.4
	2.5	1.8	1.8	1.5	1.3		2.5	8.7	8.7	7.1	6.4
	6.0	1.9	1.9	1.5	1.3		6.0	9.2	9.0	7.1	6.4
	7.5	2.0	1.9	1.5	1.3		7.5	9.5	9.0	7.1	6.4
	10.0	2.1	1.9	1.5	1.3		10.0	9.9	9.0	7.1	6.4
	12.5	2.2	1.9	1.5	1.3		12.5	10.3	9.0	7.1	6.4
15.5	2.2	1.9	1.5	1.3	15.5	10.4	9.0	7.1	6.4		
20 (2.5)	-20.0	1.5	1.5	1.5	1.5	80 (10.0)	-20.0	6.2	6.0	6.1	5.9
	-15.0	1.7	1.7	1.6	1.6		-15.0	6.8	6.6	6.5	6.3
	-10.0	1.9	1.8	1.8	1.7		-10.0	7.5	7.3	7.1	6.9
	-5.0	2.1	2.1	2.0	1.8		-5.0	8.3	8.3	7.9	7.1
	0.0	2.3	2.3	2.0	1.8		0.0	9.2	9.2	7.9	7.1
	2.5	2.4	2.4	2.0	1.8		2.5	9.7	9.7	7.9	7.1
	6.0	2.6	2.5	2.0	1.8		6.0	10.2	10.0	7.9	7.1
	7.5	2.6	2.5	2.0	1.8		7.5	10.5	10.0	7.9	7.1
	10.0	2.7	2.5	2.0	1.8		10.0	11.0	10.0	7.9	7.1
	12.5	2.9	2.5	2.0	1.8		12.5	11.5	10.0	7.9	7.1
15.5	2.9	2.5	2.0	1.8	15.5	11.5	10.0	7.9	7.1		
25 (3.2)	-20.0	2.0	1.9	1.9	1.9	100 (12.5)	-20.0	7.7	7.5	7.6	7.4
	-15.0	2.2	2.1	2.1	2.0		-15.0	8.5	8.3	8.1	7.9
	-10.0	2.4	2.3	2.3	2.2		-10.0	9.4	9.1	8.9	8.7
	-5.0	2.7	2.6	2.5	2.3		-5.0	10.4	10.3	9.9	8.9
	0.0	3.0	3.0	2.5	2.3		0.0	11.5	11.5	9.9	8.9
	2.5	3.1	3.1	2.5	2.3		2.5	12.1	12.1	9.9	8.9
	6.0	3.3	3.2	2.5	2.3		6.0	12.8	12.5	9.9	8.9
	7.5	3.4	3.2	2.5	2.3		7.5	13.1	12.5	9.9	8.9
	10.0	3.5	3.2	2.5	2.3		10.0	13.7	12.5	9.9	8.9
	12.5	3.7	3.2	2.5	2.3		12.5	14.3	12.5	9.9	8.9
15.5	3.7	3.2	2.5	2.3	15.5	14.4	12.5	9.9	8.9		
32 (4.0)	-20.0	2.5	2.4	2.4	2.4	125 (16.0)	-20.0	9.9	9.6	9.7	9.4
	-15.0	2.7	2.7	2.6	2.5		-15.0	10.9	10.6	10.4	10.1
	-10.0	3.0	2.9	2.8	2.8		-10.0	12.0	11.7	11.4	11.1
	-5.0	3.3	3.3	3.2	2.8		-5.0	13.3	13.2	12.7	11.3
	0.0	3.7	3.7	3.2	2.8		0.0	14.8	14.8	12.7	11.3
	2.5	3.9	3.9	3.2	2.8		2.5	15.5	15.5	12.7	11.3
	6.0	4.1	4.0	3.2	2.8		6.0	16.3	16.0	12.7	11.3
	7.5	4.2	4.0	3.2	2.8		7.5	16.8	16.0	12.7	11.3
	10.0	4.4	4.0	3.2	2.8		10.0	17.6	16.0	12.7	11.3
	12.5	4.6	4.0	3.2	2.8		12.5	18.4	16.0	12.7	11.3
15.5	4.6	4.0	3.2	2.8	15.5	18.5	16.0	12.7	11.3		
40 (5.0)	-20.0	3.1	3.0	3.0	2.9	140 (18.0)	-20.0	11.1	10.8	10.9	10.6
	-15.0	3.4	3.3	3.2	3.1		-15.0	12.3	11.9	11.7	11.3
	-10.0	3.8	3.6	3.6	3.5		-10.0	13.5	13.1	12.8	12.5
	-5.0	4.2	4.1	4.0	3.5		-5.0	15.0	14.9	14.3	12.8
	0.0	4.6	4.6	4.0	3.5		0.0	16.6	16.6	14.3	12.8
	2.5	4.9	4.9	4.0	3.5		2.5	17.5	17.5	14.3	12.8
	6.0	5.1	5.0	4.0	3.5		6.0	18.4	18.0	14.3	12.8
	7.5	5.3	5.0	4.0	3.5		7.5	18.9	18.0	14.3	12.8
	10.0	5.5	5.0	4.0	3.5		10.0	19.8	18.0	14.3	12.8
	12.5	5.7	5.0	4.0	3.5		12.5	20.7	18.0	14.3	12.8
15.5	5.8	5.0	4.0	3.5	15.5	20.8	18.0	14.3	12.8		
50 (6.3)	-20.0	3.9	3.8	3.8	3.7	200 (25.0)	-20.0	15.4	15.0	15.1	14.7
	-15.0	4.3	4.2	4.1	4.0		-15.0	17.1	16.6	16.2	15.7
	-10.0	4.7	4.6	4.5	4.4		-10.0	18.8	18.2	17.8	17.3
	-5.0	5.2	5.2	5.0	4.5		-5.0	20.8	20.6	19.8	17.7
	0.0	5.8	5.8	5.0	4.5		0.0	23.1	23.0	19.8	17.7
	2.5	6.1	6.1	5.0	4.5		2.5	24.3	24.3	19.8	17.7
	6.0	6.4	6.3	5.0	4.5		6.0	25.5	25.0	19.8	17.7
	7.5	6.6	6.3	5.0	4.5		7.5	26.3	25.0	19.8	17.7
	10.0	6.9	6.3	5.0	4.5		10.0	27.4	25.0	19.8	17.7
	12.5	7.2	6.3	5.0	4.5		12.5	28.7	25.0	19.8	17.7
15.5	7.3	6.3	5.0	4.5	15.5	28.9	25.0	19.8	17.7		
63 (8.0)	-20.0	4.9	4.8	4.8	4.7	250 (31.5)	-20.0	19.4	18.9	19.1	18.6
	-15.0	5.5	5.3	5.2	5.0		-15.0	21.5	20.9	20.4	19.8
	-10.0	6.0	5.8	5.7	5.5		-10.0	23.6	23.0	22.4	21.8
	-5.0	6.7	6.6	6.3	5.7		-5.0	26.2	26.0	24.9	22.3
	0.0	7.4	7.4	6.3	5.7		0.0	29.1	29.0	25.0	22.3
	2.5	7.8	7.8	6.3	5.7		2.5	30.6	30.6	25.0	22.3
	6.0	8.2	8.0	6.3	5.7		6.0	32.2	31.5	25.0	22.3
	7.5	8.4	8.0	6.3	5.7		7.5	33.1	31.5	25.0	22.3
	10.0	8.8	8.0	6.3	5.7		10.0	34.6	31.5	25.0	22.3
	12.5	9.2	8.0	6.3	5.7		12.5	36.1	31.5	25.0	22.3
15.5	9.2	8.0	6.3	5.7	15.5	36.4	31.5	25.0	22.3		

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

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

9-4. Heating capacity with PUHY, PURY-EP700-800YSKM

CT

All Indoor units						All Indoor units					
SHC:Sensible Heat Capacity(kW)						SHC:Sensible Heat Capacity(kW)					
Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.				Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
		SHC	SHC	SHC	SHC			SHC	SHC	SHC	SHC
15 (1.9)	-20.0	1.3	1.3	1.3	1.3	71 (9.0)	-20.0	6.2	6.2	6.1	6.0
	-15.0	1.4	1.4	1.4	1.3		-15.0	6.8	6.8	6.5	6.3
	-10.0	1.6	1.6	1.5	1.3		-10.0	7.5	7.4	7.2	6.3
	-5.0	1.8	1.8	1.5	1.3		-5.0	8.5	8.4	7.2	6.3
	0.0	1.9	1.9	1.5	1.3		0.0	9.1	9.0	7.2	6.3
	2.5	1.9	1.9	1.5	1.3		2.5	9.1	9.0	7.2	6.3
	6.0	1.9	1.9	1.5	1.3		6.0	9.1	9.0	7.2	6.3
	7.5	2.0	1.9	1.5	1.3		7.5	9.3	9.0	7.2	6.3
	10.0	2.1	1.9	1.5	1.3		10.0	9.8	9.0	7.2	6.3
	12.5	2.2	1.9	1.5	1.3		12.5	10.4	9.0	7.2	6.3
15.5	2.4	1.9	1.5	1.3	15.5	11.3	9.0	7.2	6.3		
20 (2.5)	-20.0	1.7	1.7	1.7	1.7	80 (10.0)	-20.0	6.9	6.9	6.8	6.7
	-15.0	1.9	1.9	1.8	1.7		-15.0	7.6	7.5	7.3	6.9
	-10.0	2.1	2.1	2.0	1.8		-10.0	8.3	8.3	8.0	7.0
	-5.0	2.4	2.3	2.0	1.8		-5.0	9.4	9.3	8.0	7.0
	0.0	2.5	2.5	2.0	1.8		0.0	10.1	10.0	8.0	7.0
	2.5	2.5	2.5	2.0	1.8		2.5	10.1	10.0	8.0	7.0
	6.0	2.5	2.5	2.0	1.8		6.0	10.1	10.0	8.0	7.0
	7.5	2.6	2.5	2.0	1.8		7.5	10.4	10.0	8.0	7.0
	10.0	2.7	2.5	2.0	1.8		10.0	10.9	10.0	8.0	7.0
	12.5	2.9	2.5	2.0	1.8		12.5	11.6	10.0	8.0	7.0
15.5	3.1	2.5	2.0	1.8	15.5	12.6	10.0	8.0	7.0		
25 (3.2)	-20.0	2.2	2.2	2.2	2.1	100 (12.5)	-20.0	8.7	8.6	8.5	8.4
	-15.0	2.4	2.4	2.3	2.2		-15.0	9.4	9.4	9.1	8.7
	-10.0	2.7	2.6	2.6	2.2		-10.0	10.4	10.3	10.0	8.8
	-5.0	3.0	3.0	2.6	2.2		-5.0	11.8	11.7	10.0	8.8
	0.0	3.2	3.2	2.6	2.2		0.0	12.6	12.5	10.0	8.8
	2.5	3.2	3.2	2.6	2.2		2.5	12.6	12.5	10.0	8.8
	6.0	3.2	3.2	2.6	2.2		6.0	12.6	12.5	10.0	8.8
	7.5	3.3	3.2	2.6	2.2		7.5	12.9	12.5	10.0	8.8
	10.0	3.5	3.2	2.6	2.2		10.0	13.6	12.5	10.0	8.8
	12.5	3.7	3.2	2.6	2.2		12.5	14.5	12.5	10.0	8.8
15.5	4.0	3.2	2.6	2.2	15.5	15.7	12.5	10.0	8.8		
32 (4.0)	-20.0	2.8	2.7	2.7	2.7	125 (16.0)	-20.0	11.1	11.0	10.9	10.7
	-15.0	3.0	3.0	2.9	2.8		-15.0	12.1	12.0	11.6	11.1
	-10.0	3.3	3.3	3.2	2.8		-10.0	13.3	13.2	12.8	11.2
	-5.0	3.8	3.7	3.2	2.8		-5.0	15.1	14.9	12.8	11.2
	0.0	4.0	4.0	3.2	2.8		0.0	16.2	16.0	12.8	11.2
	2.5	4.0	4.0	3.2	2.8		2.5	16.2	16.0	12.8	11.2
	6.0	4.0	4.0	3.2	2.8		6.0	16.2	16.0	12.8	11.2
	7.5	4.1	4.0	3.2	2.8		7.5	16.6	16.0	12.8	11.2
	10.0	4.4	4.0	3.2	2.8		10.0	17.4	16.0	12.8	11.2
	12.5	4.6	4.0	3.2	2.8		12.5	18.5	16.0	12.8	11.2
15.5	5.0	4.0	3.2	2.8	15.5	20.1	16.0	12.8	11.2		
40 (5.0)	-20.0	3.5	3.4	3.4	3.3	140 (18.0)	-20.0	12.5	12.3	12.3	12.1
	-15.0	3.8	3.8	3.6	3.5		-15.0	13.6	13.5	13.1	12.5
	-10.0	4.2	4.1	4.0	3.5		-10.0	15.0	14.9	14.4	12.6
	-5.0	4.7	4.7	4.0	3.5		-5.0	17.0	16.8	14.4	12.6
	0.0	5.1	5.0	4.0	3.5		0.0	18.2	18.0	14.4	12.6
	2.5	5.1	5.0	4.0	3.5		2.5	18.2	18.0	14.4	12.6
	6.0	5.1	5.0	4.0	3.5		6.0	18.2	18.0	14.4	12.6
	7.5	5.2	5.0	4.0	3.5		7.5	18.6	18.0	14.4	12.6
	10.0	5.5	5.0	4.0	3.5		10.0	19.6	18.0	14.4	12.6
	12.5	5.8	5.0	4.0	3.5		12.5	20.9	18.0	14.4	12.6
15.5	6.3	5.0	4.0	3.5	15.5	22.6	18.0	14.4	12.6		
50 (6.3)	-20.0	4.4	4.3	4.3	4.2	200 (25.0)	-20.0	17.4	17.2	17.1	16.7
	-15.0	4.8	4.7	4.6	4.4		-15.0	18.9	18.8	18.2	17.4
	-10.0	5.2	5.2	5.0	4.4		-10.0	20.8	20.7	20.0	17.5
	-5.0	5.9	5.9	5.0	4.4		-5.0	23.6	23.4	20.0	17.5
	0.0	6.4	6.3	5.0	4.4		0.0	25.3	25.0	20.0	17.5
	2.5	6.4	6.3	5.0	4.4		2.5	25.3	25.0	20.0	17.5
	6.0	6.4	6.3	5.0	4.4		6.0	25.3	25.0	20.0	17.5
	7.5	6.5	6.3	5.0	4.4		7.5	25.9	25.0	20.0	17.5
	10.0	6.9	6.3	5.0	4.4		10.0	27.3	25.0	20.0	17.5
	12.5	7.3	6.3	5.0	4.4		12.5	29.0	25.0	20.0	17.5
15.5	7.9	6.3	5.0	4.4	15.5	31.4	25.0	20.0	17.5		
63 (8.0)	-20.0	5.6	5.5	5.5	5.4	250 (31.5)	-20.0	21.9	21.6	21.5	21.1
	-15.0	6.0	6.0	5.8	5.6		-15.0	23.8	23.7	22.9	21.9
	-10.0	6.7	6.6	6.4	5.6		-10.0	26.2	26.0	25.1	22.1
	-5.0	7.5	7.5	6.4	5.6		-5.0	29.7	29.4	25.2	22.1
	0.0	8.1	8.0	6.4	5.6		0.0	31.8	31.5	25.2	22.1
	2.5	8.1	8.0	6.4	5.6		2.5	31.8	31.5	25.2	22.1
	6.0	8.1	8.0	6.4	5.6		6.0	31.8	31.5	25.2	22.1
	7.5	8.3	8.0	6.4	5.6		7.5	32.6	31.5	25.2	22.1
	10.0	8.7	8.0	6.4	5.6		10.0	34.3	31.5	25.2	22.1
	12.5	9.3	8.0	6.4	5.6		12.5	36.5	31.5	25.2	22.1
15.5	10.1	8.0	6.4	5.6	15.5	39.6	31.5	25.2	22.1		

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

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

9-5. Heating capacity with PUHY-EP850-900YSKM

All Indoor units		SHC:Sensible Heat Capacity(kW)				All Indoor units		SHC:Sensible Heat Capacity(kW)			
Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.				Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
		SHC	SHC	SHC	SHC			SHC	SHC	SHC	SHC
15 (1.9)	-20.0	1.2	1.2	1.2	1.2	71 (9.0)	-20.0	5.8	5.8	5.8	5.6
	-15.0	1.3	1.3	1.3	1.2		-15.0	6.3	6.3	6.2	5.8
	-10.0	1.5	1.5	1.4	1.2		-10.0	6.9	6.9	6.7	5.8
	-5.0	1.6	1.7	1.4	1.2		-5.0	7.8	7.8	6.7	5.8
	0.0	1.8	1.8	1.4	1.2		0.0	8.8	8.8	6.7	5.8
	2.5	1.9	1.9	1.4	1.2		2.5	9.0	9.0	6.7	5.8
	6.0	1.9	1.9	1.4	1.2		6.0	9.2	9.0	6.7	5.8
	7.5	2.0	1.9	1.4	1.2		7.5	9.5	9.0	6.7	5.8
	10.0	2.1	1.9	1.4	1.2		10.0	9.9	9.0	6.7	5.8
	12.5	2.2	1.9	1.4	1.2		12.5	10.3	9.0	6.7	5.8
15.5	2.2	1.9	1.4	1.2	15.5	10.3	9.0	6.7	5.8		
20 (2.5)	-20.0	1.6	1.6	1.6	1.6	80 (10.0)	-20.0	6.4	6.5	6.4	6.2
	-15.0	1.7	1.7	1.7	1.6		-15.0	7.0	7.0	6.9	6.4
	-10.0	1.9	1.9	1.9	1.6		-10.0	7.7	7.7	7.5	6.4
	-5.0	2.2	2.2	1.9	1.6		-5.0	8.7	8.7	7.5	6.4
	0.0	2.4	2.4	1.9	1.6		0.0	9.7	9.7	7.5	6.4
	2.5	2.5	2.5	1.9	1.6		2.5	10.0	10.0	7.5	6.4
	6.0	2.6	2.5	1.9	1.6		6.0	10.2	10.0	7.5	6.4
	7.5	2.6	2.5	1.9	1.6		7.5	10.5	10.0	7.5	6.4
	10.0	2.8	2.5	1.9	1.6		10.0	11.1	10.0	7.5	6.4
	12.5	2.9	2.5	1.9	1.6		12.5	11.5	10.0	7.5	6.4
15.5	2.9	2.5	1.9	1.6	15.5	11.5	10.0	7.5	6.4		
25 (3.2)	-20.0	2.1	2.1	2.1	2.0	100 (12.5)	-20.0	8.0	8.1	8.0	7.8
	-15.0	2.2	2.2	2.2	2.0		-15.0	8.7	8.7	8.6	8.0
	-10.0	2.5	2.5	2.4	2.0		-10.0	9.6	9.6	9.3	8.0
	-5.0	2.8	2.8	2.4	2.0		-5.0	10.8	10.9	9.3	8.0
	0.0	3.1	3.1	2.4	2.0		0.0	12.2	12.2	9.3	8.0
	2.5	3.2	3.2	2.4	2.0		2.5	12.5	12.5	9.3	8.0
	6.0	3.3	3.2	2.4	2.0		6.0	12.8	12.5	9.3	8.0
	7.5	3.4	3.2	2.4	2.0		7.5	13.2	12.5	9.3	8.0
	10.0	3.5	3.2	2.4	2.0		10.0	13.8	12.5	9.3	8.0
	12.5	3.7	3.2	2.4	2.0		12.5	14.3	12.5	9.3	8.0
15.5	3.7	3.2	2.4	2.0	15.5	14.3	12.5	9.3	8.0		
32 (4.0)	-20.0	2.6	2.6	2.6	2.5	125 (16.0)	-20.0	10.3	10.3	10.3	9.9
	-15.0	2.8	2.8	2.8	2.6		-15.0	11.1	11.2	11.1	10.2
	-10.0	3.1	3.1	3.0	2.6		-10.0	12.3	12.3	11.9	10.2
	-5.0	3.5	3.5	3.0	2.6		-5.0	13.9	13.9	11.9	10.2
	0.0	3.9	3.9	3.0	2.6		0.0	15.6	15.6	11.9	10.2
	2.5	4.0	4.0	3.0	2.6		2.5	16.0	16.0	11.9	10.2
	6.0	4.1	4.0	3.0	2.6		6.0	16.4	16.0	11.9	10.2
	7.5	4.2	4.0	3.0	2.6		7.5	16.9	16.0	11.9	10.2
	10.0	4.4	4.0	3.0	2.6		10.0	17.7	16.0	11.9	10.2
	12.5	4.6	4.0	3.0	2.6		12.5	18.3	16.0	11.9	10.2
15.5	4.6	4.0	3.0	2.6	15.5	18.3	16.0	11.9	10.2		
40 (5.0)	-20.0	3.2	3.2	3.2	3.1	140 (18.0)	-20.0	11.5	11.6	11.5	11.2
	-15.0	3.5	3.5	3.5	3.2		-15.0	12.5	12.6	12.5	11.5
	-10.0	3.8	3.8	3.7	3.2		-10.0	13.8	13.8	13.4	11.5
	-5.0	4.3	4.3	3.7	3.2		-5.0	15.6	15.6	13.4	11.5
	0.0	4.9	4.9	3.7	3.2		0.0	17.5	17.5	13.4	11.5
	2.5	5.0	5.0	3.7	3.2		2.5	18.0	18.0	13.4	11.5
	6.0	5.1	5.0	3.7	3.2		6.0	18.4	18.0	13.4	11.5
	7.5	5.3	5.0	3.7	3.2		7.5	19.0	18.0	13.4	11.5
	10.0	5.5	5.0	3.7	3.2		10.0	19.9	18.0	13.4	11.5
	12.5	5.7	5.0	3.7	3.2		12.5	20.6	18.0	13.4	11.5
15.5	5.7	5.0	3.7	3.2	15.5	20.6	18.0	13.4	11.5		
50 (6.3)	-20.0	4.0	4.1	4.0	3.9	200 (25.0)	-20.0	16.0	16.1	16.0	15.5
	-15.0	4.4	4.4	4.4	4.0		-15.0	17.4	17.5	17.3	16.0
	-10.0	4.8	4.8	4.7	4.0		-10.0	19.2	19.2	18.6	16.0
	-5.0	5.5	5.5	4.7	4.0		-5.0	21.7	21.7	18.6	16.0
	0.0	6.1	6.1	4.7	4.0		0.0	24.3	24.3	18.6	16.0
	2.5	6.3	6.3	4.7	4.0		2.5	25.0	25.0	18.6	16.0
	6.0	6.5	6.3	4.7	4.0		6.0	25.6	25.0	18.6	16.0
	7.5	6.6	6.3	4.7	4.0		7.5	26.4	25.0	18.6	16.0
	10.0	7.0	6.3	4.7	4.0		10.0	27.6	25.0	18.6	16.0
	12.5	7.2	6.3	4.7	4.0		12.5	28.6	25.0	18.6	16.0
15.5	7.2	6.3	4.7	4.0	15.5	28.6	25.0	18.6	16.0		
63 (8.0)	-20.0	5.1	5.2	5.1	5.0	250 (31.5)	-20.0	20.2	20.3	20.2	19.6
	-15.0	5.6	5.6	5.5	5.1		-15.0	21.9	22.0	21.8	20.2
	-10.0	6.1	6.2	6.0	5.1		-10.0	24.2	24.2	23.5	20.2
	-5.0	6.9	7.0	6.0	5.1		-5.0	27.3	27.4	23.5	20.2
	0.0	7.8	7.8	6.0	5.1		0.0	30.6	30.6	23.5	20.2
	2.5	8.0	8.0	6.0	5.1		2.5	31.5	31.5	23.5	20.2
	6.0	8.2	8.0	6.0	5.1		6.0	32.3	31.5	23.5	20.2
	7.5	8.4	8.0	6.0	5.1		7.5	33.2	31.5	23.5	20.2
	10.0	8.8	8.0	6.0	5.1		10.0	34.8	31.5	23.5	20.2
	12.5	9.2	8.0	6.0	5.1		12.5	36.1	31.5	23.5	20.2
15.5	9.2	8.0	6.0	5.1	15.5	36.1	31.5	23.5	20.2		

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

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



9-6. Heating capacity with PUHY, PURY-EP200-250YKM "COP priority mode"

CT

All Indoor units		SHC:Sensible Heat Capacity(kW)				All Indoor units		SHC:Sensible Heat Capacity(kW)			
Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.				Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
		SHC	SHC	SHC	SHC			SHC	SHC	SHC	SHC
15 (1.9)	-20.0	1.0	1.0	1.0	0.9	71 (9.0)	-20.0	4.6	4.5	4.5	4.5
	-15.0	1.2	1.2	1.1	1.1		-15.0	5.6	5.5	5.4	5.3
	-10.0	1.4	1.4	1.3	1.3		-10.0	6.6	6.5	6.3	6.2
	-5.0	1.6	1.6	1.5	1.3		-5.0	7.5	7.4	7.2	6.3
	0.0	1.8	1.8	1.5	1.3		0.0	8.5	8.4	7.2	6.3
	2.5	1.9	1.9	1.5	1.3		2.5	9.0	8.9	7.2	6.3
	6.0	2.0	1.9	1.5	1.3		6.0	9.3	9.0	7.2	6.3
	7.5	2.0	1.9	1.5	1.3		7.5	9.7	9.0	7.2	6.3
	10.0	2.2	1.9	1.5	1.3		10.0	10.3	9.0	7.2	6.3
	12.5	2.3	1.9	1.5	1.3		12.5	10.8	9.0	7.2	6.3
15.5	2.4	1.9	1.5	1.3	15.5	11.5	9.0	7.2	6.3		
20 (2.5)	-20.0	1.3	1.3	1.3	1.2	80 (10.0)	-20.0	5.1	5.0	5.0	5.0
	-15.0	1.6	1.5	1.5	1.5		-15.0	6.2	6.1	6.0	5.9
	-10.0	1.8	1.8	1.7	1.7		-10.0	7.3	7.2	7.0	6.8
	-5.0	2.1	2.1	2.0	1.8		-5.0	8.4	8.3	8.0	7.0
	0.0	2.4	2.3	2.0	1.8		0.0	9.5	9.4	8.0	7.0
	2.5	2.5	2.5	2.0	1.8		2.5	10.0	9.9	8.0	7.0
	6.0	2.6	2.5	2.0	1.8		6.0	10.4	10.0	8.0	7.0
	7.5	2.7	2.5	2.0	1.8		7.5	10.7	10.0	8.0	7.0
	10.0	2.8	2.5	2.0	1.8		10.0	11.4	10.0	8.0	7.0
	12.5	3.0	2.5	2.0	1.8		12.5	12.0	10.0	8.0	7.0
15.5	3.2	2.5	2.0	1.8	15.5	12.8	10.0	8.0	7.0		
25 (3.2)	-20.0	1.6	1.6	1.6	1.6	100 (12.5)	-20.0	6.4	6.3	6.3	6.2
	-15.0	2.0	2.0	1.9	1.9		-15.0	7.8	7.6	7.5	7.4
	-10.0	2.3	2.3	2.2	2.2		-10.0	9.1	9.0	8.7	8.6
	-5.0	2.7	2.6	2.6	2.2		-5.0	10.5	10.3	10.0	8.8
	0.0	3.0	3.0	2.6	2.2		0.0	11.8	11.7	10.0	8.8
	2.5	3.2	3.2	2.6	2.2		2.5	12.5	12.4	10.0	8.8
	6.0	3.3	3.2	2.6	2.2		6.0	12.9	12.5	10.0	8.8
	7.5	3.4	3.2	2.6	2.2		7.5	13.4	12.5	10.0	8.8
	10.0	3.6	3.2	2.6	2.2		10.0	14.2	12.5	10.0	8.8
	12.5	3.9	3.2	2.6	2.2		12.5	15.1	12.5	10.0	8.8
15.5	4.1	3.2	2.6	2.2	15.5	16.0	12.5	10.0	8.8		
32 (4.0)	-20.0	2.0	2.0	2.0	2.0	125 (16.0)	-20.0	8.2	8.0	8.0	7.9
	-15.0	2.5	2.4	2.4	2.4		-15.0	9.9	9.8	9.6	9.4
	-10.0	2.9	2.9	2.8	2.7		-10.0	11.7	11.5	11.2	11.0
	-5.0	3.3	3.3	3.2	2.8		-5.0	13.4	13.2	12.8	11.2
	0.0	3.8	3.7	3.2	2.8		0.0	15.1	15.0	12.8	11.2
	2.5	4.0	4.0	3.2	2.8		2.5	16.0	15.8	12.8	11.2
	6.0	4.1	4.0	3.2	2.8		6.0	16.6	16.0	12.8	11.2
	7.5	4.3	4.0	3.2	2.8		7.5	17.2	16.0	12.8	11.2
	10.0	4.6	4.0	3.2	2.8		10.0	18.2	16.0	12.8	11.2
	12.5	4.8	4.0	3.2	2.8		12.5	19.3	16.0	12.8	11.2
15.5	5.1	4.0	3.2	2.8	15.5	20.5	16.0	12.8	11.2		
40 (5.0)	-20.0	2.6	2.5	2.5	2.5	140 (18.0)	-20.0	9.2	9.0	9.0	8.9
	-15.0	3.1	3.1	3.0	3.0		-15.0	11.2	11.0	10.8	10.6
	-10.0	3.6	3.6	3.5	3.4		-10.0	13.1	12.9	12.6	12.3
	-5.0	4.2	4.1	4.0	3.5		-5.0	15.1	14.9	14.4	12.6
	0.0	4.7	4.7	4.0	3.5		0.0	17.0	16.8	14.4	12.6
	2.5	5.0	4.9	4.0	3.5		2.5	18.0	17.8	14.4	12.6
	6.0	5.2	5.0	4.0	3.5		6.0	18.6	18.0	14.4	12.6
	7.5	5.4	5.0	4.0	3.5		7.5	19.3	18.0	14.4	12.6
	10.0	5.7	5.0	4.0	3.5		10.0	20.5	18.0	14.4	12.6
	12.5	6.0	5.0	4.0	3.5		12.5	21.7	18.0	14.4	12.6
15.5	6.4	5.0	4.0	3.5	15.5	23.1	18.0	14.4	12.6		
50 (6.3)	-20.0	3.2	3.2	3.2	3.1	200 (25.0)	-20.0	12.8	12.6	12.5	12.4
	-15.0	3.9	3.8	3.8	3.7		-15.0	15.5	15.3	15.0	14.8
	-10.0	4.6	4.5	4.4	4.3		-10.0	18.2	18.0	17.5	17.1
	-5.0	5.3	5.2	5.0	4.4		-5.0	20.9	20.7	20.0	17.5
	0.0	6.0	5.9	5.0	4.4		0.0	23.6	23.4	20.0	17.5
	2.5	6.3	6.2	5.0	4.4		2.5	25.0	24.7	20.0	17.5
	6.0	6.5	6.3	5.0	4.4		6.0	25.9	25.0	20.0	17.5
	7.5	6.8	6.3	5.0	4.4		7.5	26.9	25.0	20.0	17.5
	10.0	7.2	6.3	5.0	4.4		10.0	28.5	25.0	20.0	17.5
	12.5	7.6	6.3	5.0	4.4		12.5	30.1	25.0	20.0	17.5
15.5	8.1	6.3	5.0	4.4	15.5	32.1	25.0	20.0	17.5		
63 (8.0)	-20.0	4.1	4.0	4.0	4.0	250 (31.5)	-20.0	16.1	15.8	15.8	15.6
	-15.0	5.0	4.9	4.8	4.7		-15.0	19.5	19.2	18.9	18.6
	-10.0	5.8	5.7	5.6	5.5		-10.0	22.9	22.6	22.0	21.6
	-5.0	6.7	6.6	6.4	5.6		-5.0	26.4	26.0	25.2	22.1
	0.0	7.6	7.5	6.4	5.6		0.0	29.8	29.5	25.2	22.1
	2.5	8.0	7.9	6.4	5.6		2.5	31.5	31.2	25.2	22.1
	6.0	8.3	8.0	6.4	5.6		6.0	32.6	31.5	25.2	22.1
	7.5	8.6	8.0	6.4	5.6		7.5	33.9	31.5	25.2	22.1
	10.0	9.1	8.0	6.4	5.6		10.0	35.9	31.5	25.2	22.1
	12.5	9.6	8.0	6.4	5.6		12.5	37.9	31.5	25.2	22.1
15.5	10.3	8.0	6.4	5.6	15.5	40.4	31.5	25.2	22.1		

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

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

9-7. Heating capacity with PUHY, PURY-EP300-400Y(S)KM "COP priority mode"

All Indoor units						All Indoor units					
Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)				Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)			
		Indoor air temp.						Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
15 (1.9)	-20.0	0.9	1.0	1.0	0.9	71 (9.0)	-20.0	4.5	4.5	4.6	4.4
	-15.0	1.1	1.1	1.1	1.1		-15.0	5.4	5.4	5.4	5.2
	-10.0	1.3	1.3	1.3	1.2		-10.0	6.3	6.2	6.2	5.8
	-5.0	1.5	1.5	1.4	1.2		-5.0	7.2	7.1	6.7	5.8
	0.0	1.7	1.7	1.4	1.2		0.0	8.1	8.0	6.7	5.8
	2.5	1.8	1.8	1.4	1.2		2.5	8.6	8.4	6.7	5.8
	6.0	1.9	1.9	1.4	1.2		6.0	9.2	9.0	6.7	5.8
	7.5	2.0	1.9	1.4	1.2		7.5	9.5	9.0	6.7	5.8
	10.0	2.1	1.9	1.4	1.2		10.0	9.9	9.0	6.7	5.8
	12.5	2.2	1.9	1.4	1.2		12.5	10.3	9.0	6.7	5.8
15.5	2.2	1.9	1.4	1.2	15.5	10.3	9.0	6.7	5.8		
20 (2.5)	-20.0	1.2	1.3	1.3	1.2	80 (10.0)	-20.0	5.0	5.0	5.1	4.9
	-15.0	1.5	1.5	1.5	1.5		-15.0	6.0	6.0	6.0	5.8
	-10.0	1.8	1.7	1.7	1.6		-10.0	7.0	6.9	6.8	6.4
	-5.0	2.0	2.0	1.9	1.6		-5.0	8.0	7.9	7.4	6.4
	0.0	2.3	2.2	1.9	1.6		0.0	9.0	8.9	7.5	6.4
	2.5	2.4	2.3	1.9	1.6		2.5	9.5	9.3	7.5	6.4
	6.0	2.6	2.5	1.9	1.6		6.0	10.2	10.0	7.5	6.4
	7.5	2.6	2.5	1.9	1.6		7.5	10.5	10.0	7.5	6.4
	10.0	2.8	2.5	1.9	1.6		10.0	11.0	10.0	7.5	6.4
	12.5	2.9	2.5	1.9	1.6		12.5	11.5	10.0	7.5	6.4
15.5	2.9	2.5	1.9	1.6	15.5	11.5	10.0	7.5	6.4		
25 (3.2)	-20.0	1.6	1.6	1.6	1.6	100 (12.5)	-20.0	6.2	6.3	6.4	6.1
	-15.0	1.9	1.9	1.9	1.9		-15.0	7.5	7.5	7.5	7.3
	-10.0	2.2	2.2	2.2	2.0		-10.0	8.8	8.7	8.6	8.0
	-5.0	2.6	2.5	2.4	2.0		-5.0	10.0	9.9	9.3	8.0
	0.0	2.9	2.8	2.4	2.0		0.0	11.3	11.1	9.3	8.0
	2.5	3.1	3.0	2.4	2.0		2.5	11.9	11.7	9.3	8.0
	6.0	3.3	3.2	2.4	2.0		6.0	12.8	12.5	9.3	8.0
	7.5	3.4	3.2	2.4	2.0		7.5	13.2	12.5	9.3	8.0
	10.0	3.5	3.2	2.4	2.0		10.0	13.8	12.5	9.3	8.0
	12.5	3.7	3.2	2.4	2.0		12.5	14.3	12.5	9.3	8.0
15.5	3.7	3.2	2.4	2.0	15.5	14.3	12.5	9.3	8.0		
32 (4.0)	-20.0	2.0	2.0	2.0	2.0	125 (16.0)	-20.0	8.0	8.0	8.2	7.8
	-15.0	2.4	2.4	2.4	2.3		-15.0	9.6	9.6	9.6	9.3
	-10.0	2.8	2.8	2.7	2.6		-10.0	11.2	11.1	10.9	10.2
	-5.0	3.2	3.2	3.0	2.6		-5.0	12.8	12.6	11.9	10.2
	0.0	3.6	3.5	3.0	2.6		0.0	14.4	14.2	11.9	10.2
	2.5	3.8	3.7	3.0	2.6		2.5	15.3	14.9	11.9	10.2
	6.0	4.1	4.0	3.0	2.6		6.0	16.4	16.0	11.9	10.2
	7.5	4.2	4.0	3.0	2.6		7.5	16.9	16.0	11.9	10.2
	10.0	4.4	4.0	3.0	2.6		10.0	17.7	16.0	11.9	10.2
	12.5	4.6	4.0	3.0	2.6		12.5	18.3	16.0	11.9	10.2
15.5	4.6	4.0	3.0	2.6	15.5	18.3	16.0	12.0	10.2		
40 (5.0)	-20.0	2.5	2.5	2.6	2.4	140 (18.0)	-20.0	9.0	9.1	9.2	8.8
	-15.0	3.0	3.0	3.0	2.9		-15.0	10.8	10.8	10.8	10.5
	-10.0	3.5	3.5	3.4	3.2		-10.0	12.6	12.5	12.3	11.5
	-5.0	4.0	3.9	3.7	3.2		-5.0	14.4	14.2	13.4	11.5
	0.0	4.5	4.4	3.7	3.2		0.0	16.3	15.9	13.4	11.5
	2.5	4.8	4.7	3.7	3.2		2.5	17.2	16.8	13.4	11.5
	6.0	5.1	5.0	3.7	3.2		6.0	18.4	18.0	13.4	11.5
	7.5	5.3	5.0	3.7	3.2		7.5	19.0	18.0	13.4	11.5
	10.0	5.5	5.0	3.7	3.2		10.0	19.9	18.0	13.4	11.5
	12.5	5.7	5.0	3.7	3.2		12.5	20.6	18.0	13.4	11.5
15.5	5.7	5.0	3.7	3.2	15.5	20.6	18.0	13.4	11.5		
50 (6.3)	-20.0	3.1	3.2	3.2	3.1	200 (25.0)	-20.0	12.5	12.6	12.8	12.2
	-15.0	3.8	3.8	3.8	3.7		-15.0	15.0	15.0	15.0	14.6
	-10.0	4.4	4.4	4.3	4.0		-10.0	17.5	17.4	17.1	16.0
	-5.0	5.1	5.0	4.7	4.0		-5.0	20.0	19.7	18.6	16.0
	0.0	5.7	5.6	4.7	4.0		0.0	22.6	22.1	18.6	16.0
	2.5	6.0	5.9	4.7	4.0		2.5	23.8	23.3	18.6	16.0
	6.0	6.5	6.3	4.7	4.0		6.0	25.6	25.0	18.6	16.0
	7.5	6.6	6.3	4.7	4.0		7.5	26.4	25.0	18.7	16.0
	10.0	7.0	6.3	4.7	4.0		10.0	27.6	25.0	18.7	16.0
	12.5	7.2	6.3	4.7	4.0		12.5	28.6	25.0	18.7	16.0
15.5	7.2	6.3	4.7	4.0	15.5	28.6	25.0	18.7	16.0		
63 (8.0)	-20.0	4.0	4.0	4.1	3.9	250 (31.5)	-20.0	15.7	15.8	16.1	15.4
	-15.0	4.8	4.8	4.8	4.7		-15.0	18.9	18.9	18.8	18.4
	-10.0	5.6	5.6	5.5	5.1		-10.0	22.1	21.9	21.5	20.2
	-5.0	6.4	6.3	6.0	5.1		-5.0	25.3	24.9	23.5	20.2
	0.0	7.2	7.1	6.0	5.1		0.0	28.4	27.9	23.5	20.2
	2.5	7.6	7.5	6.0	5.1		2.5	30.0	29.4	23.5	20.2
	6.0	8.2	8.0	6.0	5.1		6.0	32.3	31.5	23.5	20.2
	7.5	8.4	8.0	6.0	5.1		7.5	33.2	31.5	23.5	20.2
	10.0	8.8	8.0	6.0	5.1		10.0	34.8	31.5	23.5	20.2
	12.5	9.2	8.0	6.0	5.1		12.5	36.1	31.5	23.5	20.2
15.5	9.2	8.0	6.0	5.1	15.5	36.1	31.5	23.5	20.2		

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

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

9-8. Heating capacity with PUHY, PURY-EP450-650Y(S)KM "COP priority mode"

CT

All Indoor units						All Indoor units					
Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.				Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
		SHC	SHC	SHC	SHC			SHC	SHC	SHC	SHC
15 (1.9)	-20.0	1.0	1.0	1.0	0.9	71 (9.0)	-20.0	4.8	4.6	4.6	4.5
	-15.0	1.2	1.2	1.1	1.1		-15.0	5.6	5.5	5.3	5.2
	-10.0	1.4	1.3	1.3	1.3		-10.0	6.5	6.4	6.1	6.0
	-5.0	1.6	1.5	1.5	1.3		-5.0	7.4	7.2	6.9	6.4
	0.0	1.7	1.7	1.5	1.3		0.0	8.2	8.1	7.1	6.4
	2.5	1.8	1.8	1.5	1.3		2.5	8.7	8.5	7.1	6.4
	6.0	2.0	1.9	1.5	1.3		6.0	9.3	9.0	7.1	6.4
	7.5	2.0	1.9	1.5	1.3		7.5	9.5	9.0	7.1	6.4
	10.0	2.1	1.9	1.5	1.3		10.0	10.0	9.0	7.1	6.4
	12.5	2.2	1.9	1.5	1.3		12.5	10.4	9.0	7.1	6.4
15.5	2.2	1.9	1.5	1.3	15.5	10.4	9.0	7.1	6.4		
20 (2.5)	-20.0	1.3	1.3	1.3	1.2	80 (10.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	1.6	1.5	1.5	1.5		-15.0	6.3	6.1	5.9	5.8
	-10.0	1.8	1.8	1.7	1.7		-10.0	7.2	7.1	6.8	6.6
	-5.0	2.0	2.0	1.9	1.8		-5.0	8.2	8.0	7.7	7.1
	0.0	2.3	2.2	2.0	1.8		0.0	9.1	9.0	7.9	7.1
	2.5	2.4	2.4	2.0	1.8		2.5	9.6	9.5	7.9	7.1
	6.0	2.6	2.5	2.0	1.8		6.0	10.3	10.0	7.9	7.1
	7.5	2.6	2.5	2.0	1.8		7.5	10.6	10.0	7.9	7.1
	10.0	2.8	2.5	2.0	1.8		10.0	11.1	10.0	7.9	7.1
	12.5	2.9	2.5	2.0	1.8		12.5	11.5	10.0	7.9	7.1
15.5	2.9	2.5	2.0	1.8	15.5	11.6	10.0	7.9	7.1		
25 (3.2)	-20.0	1.7	1.6	1.6	1.6	100 (12.5)	-20.0	6.6	6.4	6.4	6.2
	-15.0	2.0	2.0	1.9	1.9		-15.0	7.8	7.6	7.4	7.3
	-10.0	2.3	2.3	2.2	2.1		-10.0	9.0	8.8	8.5	8.3
	-5.0	2.6	2.6	2.4	2.3		-5.0	10.2	10.0	9.6	8.9
	0.0	2.9	2.9	2.5	2.3		0.0	11.4	11.2	9.9	8.9
	2.5	3.1	3.0	2.5	2.3		2.5	12.0	11.8	9.9	8.9
	6.0	3.3	3.2	2.5	2.3		6.0	12.9	12.5	9.9	8.9
	7.5	3.4	3.2	2.5	2.3		7.5	13.2	12.5	9.9	8.9
	10.0	3.5	3.2	2.5	2.3		10.0	13.8	12.5	9.9	8.9
	12.5	3.7	3.2	2.5	2.3		12.5	14.4	12.5	9.9	8.9
15.5	3.7	3.2	2.5	2.3	15.5	14.5	12.5	9.9	8.9		
32 (4.0)	-20.0	2.1	2.1	2.0	2.0	125 (16.0)	-20.0	8.5	8.2	8.1	8.0
	-15.0	2.5	2.4	2.4	2.3		-15.0	10.0	9.8	9.5	9.3
	-10.0	2.9	2.8	2.7	2.6		-10.0	11.5	11.3	10.9	10.6
	-5.0	3.3	3.2	3.1	2.8		-5.0	13.1	12.8	12.2	11.3
	0.0	3.7	3.6	3.2	2.8		0.0	14.6	14.4	12.7	11.3
	2.5	3.8	3.8	3.2	2.8		2.5	15.4	15.1	12.7	11.3
	6.0	4.1	4.0	3.2	2.8		6.0	16.5	16.0	12.7	11.3
	7.5	4.2	4.0	3.2	2.8		7.5	16.9	16.0	12.7	11.3
	10.0	4.4	4.0	3.2	2.8		10.0	17.7	16.0	12.7	11.3
	12.5	4.6	4.0	3.2	2.8		12.5	18.5	16.0	12.7	11.3
15.5	4.6	4.0	3.2	2.8	15.5	18.5	16.0	12.7	11.3		
40 (5.0)	-20.0	2.6	2.6	2.5	2.5	140 (18.0)	-20.0	9.5	9.3	9.1	9.0
	-15.0	3.1	3.1	3.0	2.9		-15.0	11.3	11.0	10.7	10.4
	-10.0	3.6	3.5	3.4	3.3		-10.0	13.0	12.7	12.2	11.9
	-5.0	4.1	4.0	3.8	3.5		-5.0	14.7	14.4	13.8	12.8
	0.0	4.6	4.5	4.0	3.5		0.0	16.4	16.1	14.3	12.8
	2.5	4.8	4.7	4.0	3.5		2.5	17.3	17.0	14.3	12.8
	6.0	5.1	5.0	4.0	3.5		6.0	18.5	18.0	14.3	12.8
	7.5	5.3	5.0	4.0	3.5		7.5	19.0	18.0	14.3	12.8
	10.0	5.5	5.0	4.0	3.5		10.0	19.9	18.0	14.3	12.8
	12.5	5.8	5.0	4.0	3.5		12.5	20.8	18.0	14.3	12.8
15.5	5.8	5.0	4.0	3.5	15.5	20.8	18.0	14.3	12.8		
50 (6.3)	-20.0	3.3	3.2	3.2	3.1	200 (25.0)	-20.0	13.2	12.9	12.7	12.5
	-15.0	3.9	3.8	3.7	3.7		-15.0	15.6	15.3	14.9	14.5
	-10.0	4.5	4.4	4.3	4.2		-10.0	18.0	17.6	17.0	16.5
	-5.0	5.1	5.0	4.8	4.5		-5.0	20.4	20.0	19.1	17.7
	0.0	5.8	5.7	5.0	4.5		0.0	22.8	22.4	19.8	17.7
	2.5	6.1	6.0	5.0	4.5		2.5	24.0	23.6	19.8	17.7
	6.0	6.5	6.3	5.0	4.5		6.0	25.7	25.0	19.8	17.7
	7.5	6.7	6.3	5.0	4.5		7.5	26.4	25.0	19.8	17.7
	10.0	7.0	6.3	5.0	4.5		10.0	27.6	25.0	19.8	17.7
	12.5	7.3	6.3	5.0	4.5		12.5	28.9	25.0	19.8	17.7
15.5	7.3	6.3	5.0	4.5	15.5	28.9	25.0	19.8	17.7		
63 (8.0)	-20.0	4.2	4.1	4.1	4.0	250 (31.5)	-20.0	16.7	16.2	16.0	15.7
	-15.0	5.0	4.9	4.8	4.6		-15.0	19.7	19.2	18.7	18.3
	-10.0	5.8	5.6	5.4	5.3		-10.0	22.7	22.2	21.4	20.8
	-5.0	6.5	6.4	6.1	5.7		-5.0	25.7	25.2	24.1	22.3
	0.0	7.3	7.2	6.3	5.7		0.0	28.8	28.3	25.0	22.3
	2.5	7.7	7.6	6.3	5.7		2.5	30.3	29.8	25.0	22.3
	6.0	8.2	8.0	6.3	5.7		6.0	32.4	31.5	25.0	22.3
	7.5	8.5	8.0	6.3	5.7		7.5	33.3	31.5	25.0	22.3
	10.0	8.8	8.0	6.3	5.7		10.0	34.8	31.5	25.0	22.3
	12.5	9.2	8.0	6.3	5.7		12.5	36.4	31.5	25.0	22.3
15.5	9.3	8.0	6.3	5.7	15.5	36.5	31.5	24.9	22.3		

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

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

9-9. Heating capacity with PUHY, PURY-EP700-800YSKM "COP priority mode"

All Indoor units						All Indoor units					
Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)				Model size (Rated kW)	Outdoor air temp. °C W.B.	SHC:Sensible Heat Capacity(kW)			
		Indoor air temp.						Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
15 (1.9)	-20.0	1.0	1.0	1.0	0.9	71 (9.0)	-20.0	4.6	4.5	4.5	4.4
	-15.0	1.2	1.1	1.1	1.1		-15.0	5.5	5.4	5.3	5.2
	-10.0	1.3	1.3	1.3	1.3		-10.0	6.4	6.3	6.1	6.0
	-5.0	1.5	1.5	1.5	1.4		-5.0	7.3	7.1	6.9	6.6
	0.0	1.7	1.7	1.5	1.4		0.0	8.2	8.0	7.1	6.6
	2.5	1.8	1.8	1.5	1.4		2.5	8.6	8.4	7.1	6.6
	6.0	1.9	1.9	1.5	1.4		6.0	9.2	9.0	7.1	6.6
	7.5	2.0	1.9	1.5	1.4		7.5	9.5	9.0	7.1	6.6
	10.0	2.1	1.9	1.5	1.4		10.0	9.9	9.0	7.1	6.6
	12.5	2.2	1.9	1.5	1.4		12.5	10.4	9.0	7.1	6.6
15.5	2.2	1.9	1.5	1.4	15.5	10.4	9.0	7.1	6.6		
20 (2.5)	-20.0	1.3	1.3	1.3	1.2	80 (10.0)	-20.0	5.1	5.0	5.0	4.9
	-15.0	1.5	1.5	1.5	1.5		-15.0	6.1	6.0	5.9	5.8
	-10.0	1.8	1.7	1.7	1.7		-10.0	7.1	7.0	6.8	6.7
	-5.0	2.0	2.0	1.9	1.8		-5.0	8.1	7.9	7.7	7.3
	0.0	2.3	2.2	2.0	1.8		0.0	9.1	8.9	7.9	7.3
	2.5	2.4	2.3	2.0	1.8		2.5	9.6	9.4	7.9	7.3
	6.0	2.6	2.5	2.0	1.8		6.0	10.3	10.0	7.9	7.3
	7.5	2.6	2.5	2.0	1.8		7.5	10.6	10.0	7.9	7.3
	10.0	2.8	2.5	2.0	1.8		10.0	11.1	10.0	7.9	7.3
	12.5	2.9	2.5	2.0	1.8		12.5	11.5	10.0	7.9	7.3
15.5	2.9	2.5	2.0	1.8	15.5	11.6	10.0	7.9	7.3		
25 (3.2)	-20.0	1.6	1.6	1.6	1.6	100 (12.5)	-20.0	6.4	6.3	6.3	6.2
	-15.0	1.9	1.9	1.9	1.9		-15.0	7.6	7.5	7.4	7.3
	-10.0	2.3	2.2	2.2	2.1		-10.0	8.9	8.7	8.5	8.3
	-5.0	2.6	2.5	2.5	2.4		-5.0	10.1	9.9	9.6	9.2
	0.0	2.9	2.8	2.5	2.4		0.0	11.3	11.1	9.9	9.2
	2.5	3.1	3.0	2.5	2.4		2.5	12.0	11.7	9.9	9.2
	6.0	3.3	3.2	2.5	2.3		6.0	12.8	12.5	9.9	9.2
	7.5	3.4	3.2	2.5	2.3		7.5	13.2	12.5	9.9	9.2
	10.0	3.5	3.2	2.5	2.3		10.0	13.8	12.5	9.9	9.2
	12.5	3.7	3.2	2.5	2.3		12.5	14.4	12.5	9.9	9.2
15.5	3.7	3.2	2.5	2.3	15.5	14.4	12.5	9.9	9.2		
32 (4.0)	-20.0	2.0	2.0	2.0	2.0	125 (16.0)	-20.0	8.2	8.0	8.1	7.9
	-15.0	2.4	2.4	2.4	2.3		-15.0	9.7	9.6	9.5	9.3
	-10.0	2.8	2.8	2.7	2.7		-10.0	11.3	11.1	10.9	10.7
	-5.0	3.2	3.2	3.1	2.9		-5.0	12.9	12.7	12.3	11.8
	0.0	3.6	3.6	3.2	2.9		0.0	14.5	14.2	12.7	11.8
	2.5	3.8	3.8	3.2	2.9		2.5	15.3	15.0	12.7	11.8
	6.0	4.1	4.0	3.2	2.9		6.0	16.4	16.0	12.7	11.7
	7.5	4.2	4.0	3.2	2.9		7.5	16.9	16.0	12.7	11.7
	10.0	4.4	4.0	3.2	2.9		10.0	17.7	16.0	12.7	11.7
	12.5	4.6	4.0	3.2	2.9		12.5	18.4	16.0	12.7	11.7
15.5	4.6	4.0	3.2	2.9	15.5	18.5	16.0	12.7	11.7		
40 (5.0)	-20.0	2.6	2.5	2.5	2.5	140 (18.0)	-20.0	9.2	9.1	9.1	8.9
	-15.0	3.0	3.0	3.0	2.9		-15.0	11.0	10.8	10.7	10.4
	-10.0	3.5	3.5	3.4	3.3		-10.0	12.7	12.5	12.2	12.0
	-5.0	4.0	4.0	3.8	3.7		-5.0	14.5	14.3	13.8	13.2
	0.0	4.5	4.5	4.0	3.7		0.0	16.3	16.0	14.3	13.2
	2.5	4.8	4.7	4.0	3.7		2.5	17.2	16.9	14.3	13.2
	6.0	5.1	5.0	4.0	3.7		6.0	18.5	18.0	14.3	13.2
	7.5	5.3	5.0	4.0	3.7		7.5	19.0	18.0	14.3	13.2
	10.0	5.5	5.0	4.0	3.7		10.0	19.9	18.0	14.3	13.2
	12.5	5.8	5.0	4.0	3.7		12.5	20.7	18.0	14.3	13.2
15.5	5.8	5.0	4.0	3.7	15.5	20.8	18.0	14.3	13.2		
50 (6.3)	-20.0	3.2	3.2	3.2	3.1	200 (25.0)	-20.0	12.8	12.6	12.6	12.4
	-15.0	3.8	3.8	3.7	3.7		-15.0	15.2	15.0	14.8	14.5
	-10.0	4.5	4.4	4.3	4.2		-10.0	17.7	17.4	17.0	16.6
	-5.0	5.1	5.0	4.8	4.6		-5.0	20.2	19.8	19.2	18.4
	0.0	5.7	5.6	5.0	4.6		0.0	22.7	22.3	19.8	18.4
	2.5	6.0	5.9	5.0	4.6		2.5	23.9	23.5	19.8	18.4
	6.0	6.5	6.3	5.0	4.6		6.0	25.6	25.0	19.8	18.4
	7.5	6.7	6.3	5.0	4.6		7.5	26.4	25.0	19.8	18.4
	10.0	7.0	6.3	5.0	4.6		10.0	27.6	25.0	19.8	18.4
	12.5	7.3	6.3	5.0	4.6		12.5	28.8	25.0	19.8	18.4
15.5	7.3	6.3	5.0	4.6	15.5	28.9	25.0	19.8	18.3		
63 (8.0)	-20.0	4.1	4.0	4.0	4.0	250 (31.5)	-20.0	16.1	15.8	15.9	15.6
	-15.0	4.9	4.8	4.7	4.6		-15.0	19.2	18.9	18.6	18.3
	-10.0	5.7	5.6	5.4	5.3		-10.0	22.3	21.9	21.4	21.0
	-5.0	6.5	6.3	6.1	5.9		-5.0	25.4	25.0	24.2	23.1
	0.0	7.3	7.1	6.3	5.9		0.0	28.6	28.0	25.0	23.1
	2.5	7.7	7.5	6.3	5.9		2.5	30.1	29.6	25.0	23.1
	6.0	8.2	8.0	6.3	5.9		6.0	32.3	31.5	25.0	23.1
	7.5	8.4	8.0	6.3	5.9		7.5	33.3	31.5	25.0	23.1
	10.0	8.8	8.0	6.3	5.9		10.0	34.8	31.5	25.0	23.1
	12.5	9.2	8.0	6.3	5.9		12.5	36.3	31.5	25.0	23.1
15.5	9.2	8.0	6.3	5.9	15.5	36.4	31.5	25.0	23.1		

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

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

9-10. Heating capacity with PUHY-EP850-900YSKM "COP priority mode"

CT

All Indoor units						All Indoor units					
Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.				Model size (Rated kW)	Outdoor air temp. °C W.B.	Indoor air temp.			
		15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.			15°C D.B.	20°C D.B.	25°C D.B.	27°C D.B.
		SHC	SHC	SHC	SHC			SHC	SHC	SHC	SHC
15 (1.9)	-20.0	1.0	1.0	1.0	0.9	71 (9.0)	-20.0	4.8	4.6	4.6	4.5
	-15.0	1.2	1.2	1.1	1.1		-15.0	5.6	5.5	5.3	5.2
	-10.0	1.4	1.3	1.3	1.3		-10.0	6.5	6.4	6.1	6.0
	-5.0	1.6	1.5	1.5	1.3		-5.0	7.4	7.2	6.9	6.4
	0.0	1.7	1.7	1.5	1.3		0.0	8.2	8.1	7.1	6.4
	2.5	1.8	1.8	1.5	1.3		2.5	8.7	8.5	7.1	6.4
	6.0	2.0	1.9	1.5	1.3		6.0	9.3	9.0	7.1	6.4
	7.5	2.0	1.9	1.5	1.3		7.5	9.5	9.0	7.1	6.4
	10.0	2.1	1.9	1.5	1.3		10.0	10.0	9.0	7.1	6.4
	12.5	2.2	1.9	1.5	1.3		12.5	10.4	9.0	7.1	6.4
15.5	2.2	1.9	1.5	1.3	15.5	10.4	9.0	7.1	6.4		
20 (2.5)	-20.0	1.3	1.3	1.3	1.2	80 (10.0)	-20.0	5.3	5.1	5.1	5.0
	-15.0	1.6	1.5	1.5	1.5		-15.0	6.3	6.1	5.9	5.8
	-10.0	1.8	1.8	1.7	1.7		-10.0	7.2	7.1	6.8	6.6
	-5.0	2.0	2.0	1.9	1.8		-5.0	8.2	8.0	7.7	7.1
	0.0	2.3	2.2	2.0	1.8		0.0	9.1	9.0	7.9	7.1
	2.5	2.4	2.4	2.0	1.8		2.5	9.6	9.5	7.9	7.1
	6.0	2.6	2.5	2.0	1.8		6.0	10.3	10.0	7.9	7.1
	7.5	2.6	2.5	2.0	1.8		7.5	10.6	10.0	7.9	7.1
	10.0	2.8	2.5	2.0	1.8		10.0	11.1	10.0	7.9	7.1
	12.5	2.9	2.5	2.0	1.8		12.5	11.5	10.0	7.9	7.1
15.5	2.9	2.5	2.0	1.8	15.5	11.6	10.0	7.9	7.1		
25 (3.2)	-20.0	1.7	1.6	1.6	1.6	100 (12.5)	-20.0	6.6	6.4	6.4	6.2
	-15.0	2.0	2.0	1.9	1.9		-15.0	7.8	7.6	7.4	7.3
	-10.0	2.3	2.3	2.2	2.1		-10.0	9.0	8.8	8.5	8.3
	-5.0	2.6	2.6	2.4	2.3		-5.0	10.2	10.0	9.6	8.9
	0.0	2.9	2.9	2.5	2.3		0.0	11.4	11.2	9.9	8.9
	2.5	3.1	3.0	2.5	2.3		2.5	12.0	11.8	9.9	8.9
	6.0	3.3	3.2	2.5	2.3		6.0	12.9	12.5	9.9	8.9
	7.5	3.4	3.2	2.5	2.3		7.5	13.2	12.5	9.9	8.9
	10.0	3.5	3.2	2.5	2.3		10.0	13.8	12.5	9.9	8.9
	12.5	3.7	3.2	2.5	2.3		12.5	14.4	12.5	9.9	8.9
15.5	3.7	3.2	2.5	2.3	15.5	14.5	12.5	9.9	8.9		
32 (4.0)	-20.0	2.1	2.1	2.0	2.0	125 (16.0)	-20.0	8.5	8.2	8.1	8.0
	-15.0	2.5	2.4	2.4	2.3		-15.0	10.0	9.8	9.5	9.3
	-10.0	2.9	2.8	2.7	2.6		-10.0	11.5	11.3	10.9	10.6
	-5.0	3.3	3.2	3.1	2.8		-5.0	13.1	12.8	12.2	11.3
	0.0	3.7	3.6	3.2	2.8		0.0	14.6	14.4	12.7	11.3
	2.5	3.8	3.8	3.2	2.8		2.5	15.4	15.1	12.7	11.3
	6.0	4.1	4.0	3.2	2.8		6.0	16.5	16.0	12.7	11.3
	7.5	4.2	4.0	3.2	2.8		7.5	16.9	16.0	12.7	11.3
	10.0	4.4	4.0	3.2	2.8		10.0	17.7	16.0	12.7	11.3
	12.5	4.6	4.0	3.2	2.8		12.5	18.5	16.0	12.7	11.3
15.5	4.6	4.0	3.2	2.8	15.5	18.5	16.0	12.7	11.3		
40 (5.0)	-20.0	2.6	2.6	2.5	2.5	140 (18.0)	-20.0	9.5	9.3	9.1	9.0
	-15.0	3.1	3.1	3.0	2.9		-15.0	11.3	11.0	10.7	10.4
	-10.0	3.6	3.5	3.4	3.3		-10.0	13.0	12.7	12.2	11.9
	-5.0	4.1	4.0	3.8	3.5		-5.0	14.7	14.4	13.8	12.8
	0.0	4.6	4.5	4.0	3.5		0.0	16.4	16.1	14.3	12.8
	2.5	4.8	4.7	4.0	3.5		2.5	17.3	17.0	14.3	12.8
	6.0	5.1	5.0	4.0	3.5		6.0	18.5	18.0	14.3	12.8
	7.5	5.3	5.0	4.0	3.5		7.5	19.0	18.0	14.3	12.8
	10.0	5.5	5.0	4.0	3.5		10.0	19.9	18.0	14.3	12.8
	12.5	5.8	5.0	4.0	3.5		12.5	20.8	18.0	14.3	12.8
15.5	5.8	5.0	4.0	3.5	15.5	20.8	18.0	14.3	12.8		
50 (6.3)	-20.0	3.3	3.2	3.2	3.1	200 (25.0)	-20.0	13.2	12.9	12.7	12.5
	-15.0	3.9	3.8	3.7	3.7		-15.0	15.6	15.3	14.9	14.5
	-10.0	4.5	4.4	4.3	4.2		-10.0	18.0	17.6	17.0	16.5
	-5.0	5.1	5.0	4.8	4.5		-5.0	20.4	20.0	19.1	17.7
	0.0	5.8	5.7	5.0	4.5		0.0	22.8	22.4	19.8	17.7
	2.5	6.1	6.0	5.0	4.5		2.5	24.0	23.6	19.8	17.7
	6.0	6.5	6.3	5.0	4.5		6.0	25.7	25.0	19.8	17.7
	7.5	6.7	6.3	5.0	4.5		7.5	26.4	25.0	19.8	17.7
	10.0	7.0	6.3	5.0	4.5		10.0	27.6	25.0	19.8	17.7
	12.5	7.3	6.3	5.0	4.5		12.5	28.9	25.0	19.8	17.7
15.5	7.3	6.3	5.0	4.5	15.5	28.9	25.0	19.8	17.7		
63 (8.0)	-20.0	4.2	4.1	4.1	4.0	250 (31.5)	-20.0	16.7	16.2	16.0	15.7
	-15.0	5.0	4.9	4.8	4.6		-15.0	19.7	19.2	18.7	18.3
	-10.0	5.8	5.6	5.4	5.3		-10.0	22.7	22.2	21.4	20.8
	-5.0	6.5	6.4	6.1	5.7		-5.0	25.7	25.2	24.1	22.3
	0.0	7.3	7.2	6.3	5.7		0.0	28.8	28.3	25.0	22.3
	2.5	7.7	7.6	6.3	5.7		2.5	30.3	29.8	25.0	22.3
	6.0	8.2	8.0	6.3	5.7		6.0	32.4	31.5	25.0	22.3
	7.5	8.5	8.0	6.3	5.7		7.5	33.3	31.5	25.0	22.3
	10.0	8.8	8.0	6.3	5.7		10.0	34.8	31.5	25.0	22.3
	12.5	9.2	8.0	6.3	5.7		12.5	36.4	31.5	25.0	22.3
15.5	9.3	8.0	6.3	5.7	15.5	36.5	31.5	24.9	22.3		

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

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

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# CITY MULTI

## 2. OUTDOOR UNITS

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## Line-up of Outdoor Units of R410A CITY MULTI

### Heat Pump High COP Y Series



PUHY-EP200YKM-A(-BS)

**8HP**



PUHY-EP250YKM-A(-BS)

**10HP**



PUHY-EP300YKM-A(-BS) PUHY-EP350YKM-A(-BS)  
PUHY-EP400YKM-A(-BS) PUHY-EP450YKM-A(-BS)

**12, 14, 16, 18HP**



PUHY-EP400YSKM-A(-BS)

**16HP**



PUHY-EP450YSKM-A(-BS)

**18HP**



PUHY-EP500YSKM-A(-BS)

**20HP**



PUHY-EP550YSKM-A(-BS)

**22HP**



PUHY-EP600YSKM-A(-BS)

**24HP**



PUHY-EP650YSKM-A(-BS)

**26HP**



PUHY-EP700YSKM-A(-BS)

**28HP**

**Line-up of Outdoor Units of R410A CITY MULTI**



PUHY-EP750YSKM-A(-BS)

**30HP**



PUHY-EP800YSKM-A(-BS)

**32HP**



PUHY-EP850YSKM-A(-BS)

**34HP**



PUHY-EP900YSKM-A(-BS)

**36HP**

**Heat Recovery High COP R2 Series**



PURY-EP200YKM-A(-BS)

PURY-EP250YKM-A(-BS)

**8, 10HP**



PURY-EP300YKM-A(-BS)  
PURY-EP400YKM-A(-BS)

PURY-EP350YKM-A(-BS)  
PURY-EP450YKM-A(-BS)

**12, 14, 16, 18HP**



PURY-EP400YSKM-A(-BS)  
PURY-EP500YSKM-A(-BS)

PURY-EP450YSKM-A(-BS)

**16, 18, 20HP**



PURY-EP550YSKM-A(-BS)

**22HP**



PURY-EP600YSKM-A(-BS)  
PURY-EP700YSKM-A(-BS)

PURY-EP650YSKM-A(-BS)

**24, 26, 28HP**





**OUTDOOR UNITS**

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# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP200YKM-A (-BS)	PUHY-EP250YKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	22.4	28.0	
		kcal/h	20,000	25,000	
		BTU/h	76,400	95,500	
	*1	Power input	kW	5.50	6.89
		Current input	A	9.2-8.8-8.5	11.6-11.0-10.6
		COP	kW/kW	4.07	4.06
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	25.0	31.5	
		kcal/h	21,500	27,100	
		BTU/h	85,300	107,500	
	*2	Power input	kW	5.76	7.50
		Current input	A	9.7-9.2-8.9	12.6-12.0-11.5
		COP	kW/kW	4.34	4.20
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~17	P15~P250/1~21	
Sound pressure level (measured in anechoic room)		dB <A>	57	60	
Sound power level (measured in anechoic room)		dB <A>	77	80	
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1		
	Air flow rate	m <sup>3</sup> /min	175	175	
		L/s	2,917	2,917	
		cfm	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	
*3	External static press.		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	5.5	6.9	
	Case heater	kW	-	-	
	Lubricant		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
	Fan motor		-		
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)		
	Control		LEV and HIC circuit		
Net weight		kg (lbs)	201 (444)	229 (505)	
Heat exchanger			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		WKD94T662	WKD94T663	
	Wiring		WKE94C771	WKE94C771	
Standard attachment	Document		Installation Manual	Installation Manual	
	Accessory		Refrigerant conn. pipe	Refrigerant conn. pipe	
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		
Remarks			<ul style="list-style-type: none"> <li>●Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>●Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter

BTU/h =kW x 3.412  
cfm =m<sup>3</sup>/min x 35.31  
lbs =kg / 0.4536

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP300YKM-A (-BS)	PUHY-EP350YKM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	33.5	40.0
		kcal/h	30,000	35,000
		BTU/h	114,300	136,500
	Power input	kW	8.17	10.92
		A	13.7-13.1-12.6	18.4-17.5-16.8
COP		kW/kW	4.10	3.66
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	37.5	45.0
		kcal/h	32,300	38,700
		BTU/h	128,000	153,500
	Power input	kW	9.30	12.16
		A	15.6-14.9-14.3	20.5-19.5-18.7
COP		kW/kW	4.03	3.70
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity
	Model / Quantity	P15~P250/1~26		P15~P250/1~30
Sound pressure level (measured in anechoic room)	dB <A>		61	61
Sound power level (measured in anechoic room)	dB <A>		81	81
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2	
	Air flow rate	m <sup>3</sup> /min	320	320
		L/s	5,333	5,333
		cfm	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92 x 2	0.92 x 2	
*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	8.1	10.4
	Case heater	kW	-	-
	Lubricant		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)	
	Control		LEV and HIC circuit	
Net weight		kg (lbs)	314 (693)	314 (693)
Heat exchanger			Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External	WKD94T664		WKD94T664
	Wiring	WKE94C772		WKE94C772
Standard attachment	Document	Installation Manual		Installation Manual
	Accessory	Refrigerant conn. pipe		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>	

Notes :	1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	Unit converter BTU/h =kW x 3,412 cfm =m <sup>3</sup> /min x 35.31 lbs =kg / 0.4536  *Above specification data is subject to rounding variation.
	2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	
	3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP400YKM-A (-BS)	PUHY-EP450YKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	45.0	50.0	
		kcal/h	40,000	45,000	
		BTU/h	153,500	170,600	
	*1	Power input	kW	12.93	15.29
		Current input	A	21.8-20.7-19.9	25.8-24.5-23.6
		COP	kW/kW	3.48	3.27
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	50.0	50.0	
		kcal/h	45,000	45,000	
		BTU/h	170,600	170,600	
	*2	Power input	kW	13.66	13.51
		Current input	A	23.0-21.9-21.1	22.8-21.6-20.8
		COP	kW/kW	3.66	3.70
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~34	P15~P250/1~39	
Sound pressure level (measured in anechoic room)	dB <A>		63	63	
Sound power level (measured in anechoic room)	dB <A>		83	83	
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 2		
	Air flow rate	m <sup>3</sup> /min	320	320	
		L/s	5,333	5,333	
		cfm	11,299	11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 2	0.92 x 2	
*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	10.8	12.4	
	Case heater	kW	-	-	
	Lubricant		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			1,710 (1,650 without legs) x 1,750 x 740 67-3/8 (65 without legs) x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
	Fan motor		-		
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		
	Control		LEV and HIC circuit		
Net weight		kg (lbs)	314 (693)	314 (693)	
Heat exchanger			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		WKD94T664	WKD94T664	
	Wiring		WKE94C772	WKE94C772	
Standard attachment	Document		Installation Manual	Installation Manual	
	Accessory		Refrigerant conn. pipe	Refrigerant conn. pipe	
Optional parts			Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412 cfm =m3/min x 35.31 lbs =kg / 0.4536
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Model		PUHY-EP400YSKM-A (-BS)	
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1 kW	45.0	
	kcal/h	40,000	
	*1 BTU/h	153,500	
	Power input kW	11.65	
	Current input A	19.6-18.6-18.0	
Temp. range of cooling	COP kW/kW	3.86	
	Indoor W.B.	15.0~24.0°C (59~75°F)	
	Outdoor D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2 kW	50.0	
	kcal/h	45,000	
	*2 BTU/h	170,600	
	Power input kW	12.13	
	Current input A	20.4-19.4-18.7	
Temp. range of heating	COP kW/kW	4.12	
	Indoor D.B.	15.0~27.0°C (59~81°F)	
	Outdoor W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity	
	Model / Quantity	P15~P250/1~34	
Sound pressure level (measured in anechoic room)		dB <A>	
		60	
Sound power level (measured in anechoic room)		dB <A>	
		80	
Refrigerant piping diameter	Liquid pipe	12.7 (1/2) Brazed	
	Gas pipe	28.58 (1-1/8) Brazed	

Set Model		PUHY-EP200YKM-A (-BS)		PUHY-EP200YKM-A (-BS)		
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m <sup>3</sup> /min	175		175	
		L/s	2,917		2,917	
		cfm	6,179		6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*3 Motor output	kW	0.92 x 1		0.92 x 1	
External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.5		5.5	
	Case heater	kW	-		-	
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 740		1,710 (1,650 without legs) x 920 x 740	
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16		67-3/8 (65 without legs) x 36-1/4 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)		R410A x 9.0 kg (20 lbs)	
	Control		LEV and HIC circuit			
Net weight		kg (lbs)	201 (444)		201 (444)	
Heat exchanger		Salt-resistant cross fin & copper tube				
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure				
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External		WKD94T750			
	Wiring		WKE94C771		WKE94C771	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G				
Remarks		<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>				

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP450YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	50.0	
		kcal/h	45,000	
		BTU/h	170,600	
	Power input	kW	12.95	
		Current input	A	21.8-20.7-20.0
COP		kW/kW	3.86	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	56.0	
		kcal/h	48,200	
		BTU/h	191,100	
	Power input	kW	13.82	
		Current input	A	23.3-22.1-21.3
COP		kW/kW	4.05	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	P15-P250/1~39		
Sound pressure level (measured in anechoic room)	dB <A>		62	
Sound power level (measured in anechoic room)	dB <A>		82	
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	

Set Model			PUHY-EP200YKM-A (-BS)		PUHY-EP250YKM-A (-BS)	
Model			Propeller fan x 1		Propeller fan x 1	
FAN	Type x Quantity		175		175	
	Air flow rate	m <sup>3</sup> /min	2,917		2,917	
		L/s	6,179		6,179	
		cfm				
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92 x 1		0.92 x 1		
*3	External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
Compressor			Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
Manufacture			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
Starting method			Inverter		Inverter	
Motor output	kW	5.5		6.9		
Case heater	kW	-		-		
Lubricant			MEL32		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD			1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16		1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)		R410A x 11.5 kg (26 lbs)	
	Control		LEV and HIC circuit			
Net weight	kg (lbs)		201 (444)		229 (505)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		WKD94T751			
	Wiring		WKE94C771		WKE94C771	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>			

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412 cfm =m <sup>3</sup> /min x 35.31
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	lbs =kg / 0.4536
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Model			PUHY-EP500YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	56.0	
		kcal/h	48,200	
		BTU/h	191,100	
	Power input	kW	14.43	
		Current input	A	24.3-23.1-22.3
COP		kW/kW	3.88	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	63.0	
		kcal/h	54,200	
		BTU/h	215,000	
	Power input	kW	15.86	
		Current input	A	26.7-25.4-24.5
COP		kW/kW	3.97	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/1~43		
Sound pressure level (measured in anechoic room)		dB <A>	62.5	
Sound power level (measured in anechoic room)		dB <A>	82.5	
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	

Set Model			PUHY-EP200YKM-A (-BS)		PUHY-EP300YKM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2	
	Air flow rate	m <sup>3</sup> /min	175		320	
		L/s	2,917		5,333	
		cfm	6,179		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
*3	Motor output	kW	0.92 x 1		0.92 x 2	
External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.5		8.1	
	Case heater	kW	-		-	
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 920 x 740		1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 36-1/4 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		LEV and HIC circuit			
Net weight	kg (lbs)		201 (444)		314 (693)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure		Copper pipe,tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		WKD94T752			
	Wiring		WKE94C771		WKE94C772	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>			

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.



# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP550YSKM-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		
		kcal/h	54,200		
		BTU/h	215,000		
	*1	Power input	kW	16.27	
		Current input	A	27.4-26.0-25.1	
COP		kW/kW	3.87		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	69.0		
		kcal/h	59,300		
		BTU/h	235,400		
	*2	Power input	kW	17.69	
		Current input	A	29.8-28.3-27.3	
COP		kW/kW	3.90		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/1~47			
Sound pressure level (measured in anechoic room)	dB <A>		63.5		
Sound power level (measured in anechoic room)	dB <A>		83.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		

Set Model			PUHY-EP250YKM-A (-BS)		PUHY-EP300YKM-A (-BS)	
Model			Propeller fan x 1		Propeller fan x 2	
FAN	Type x Quantity		175		320	
	Air flow rate	m <sup>3</sup> /min	2,917		5,333	
		L/s	6,179		11,299	
		cfm				
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92 x 1		0.92 x 2		
*3	External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	6.9		8.1	
	Case heater	kW	-		-	
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD			1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16		1,710 (1,650 without legs) x 1,750 x 740 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		LEV and HIC circuit			
Net weight			229 (505)		314 (693)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe,tube-in-tube structure		Copper pipe,tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		WKD94T753			
	Wiring		WKE94C771		WKE94C772	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>			

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP600YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	69.0	
		kcal/h	59,300	
		BTU/h	235,400	
	Power input	kW	17.73	
		Current input	A	29.9-28.4-27.4
COP		kW/kW	3.89	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	76.5	
		kcal/h	65,800	
		BTU/h	261,000	
	Power input	kW	20.02	
		Current input	A	33.7-32.1-30.9
COP		kW/kW	3.82	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/1~50		
Sound pressure level (measured in anechoic room)	dB <A>	64		
Sound power level (measured in anechoic room)	dB <A>	84		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	

Set Model			PUHY-EP300YKM-A (-BS)		PUHY-EP300YKM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m <sup>3</sup> /min	320		320	
		L/s	5,333		5,333	
		cfm	11,299		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
*3	Motor output	kW	0.92 x 2		0.92 x 2	
External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1		8.1	
	Case heater	kW	-		-	
Lubricant		MEL32		MEL32		
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740		1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		LEV and HIC circuit			
Net weight		kg (lbs)	314 (693)		314 (693)	
Heat exchanger		Salt-resistant cross fin & copper tube				
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe,tube-in-tube structure		Copper pipe,tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External		WKD94T754			
	Wiring		WKE94C772		WKE94C772	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G				
Remarks		<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>				

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C.D.B./19°C.W.B. (81°F.D.B./66°F.W.B.), Outdoor: 35°C.D.B. (95°F.D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C.D.B. (68°F.D.B.), Outdoor: 7°C.D.B./6°C.W.B. (45°F.D.B./43°F.W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			<b>PUHY-EP650YSKM-A (-BS)</b>		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	73.0		
		kcal/h	62,800		
		BTU/h	249,100		
	Power input	kW	18.91		
		Current input	A	31.9-30.3-29.2	
COP		kW/kW	3.86		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	81.5		
		kcal/h	70,100		
		BTU/h	278,100		
	Power input	kW	20.02		
		Current input	A	33.7-32.1-30.9	
COP		kW/kW	4.07		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/1~50		
Sound pressure level (measured in anechoic room)	dB <A>		63		
Sound power level (measured in anechoic room)	dB <A>		83		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		

Set Model

Model			PUHY-EP200YKM-A (-BS)	PUHY-EP200YKM-A (-BS)	PUHY-EP250YKM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1		
	Air flow rate	m <sup>3</sup> /min	175		
		L/s	2,917		
		cfm	6,179		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1		
	*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	5.5		
	Case heater	kW	-		
	Lubricant		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD			1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16		1,710 (1,650 without legs) x 920 x 740 67-3/8 (65 without legs) x 36-1/4 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor		Over-heat protection		Over-heat protection
	Fan motor		-		-
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)		R410A x 11.5 kg (26 lbs)
	Control		LEV and HIC circuit		
Net weight			201 (444)		229 (505)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		WKD94T755		
	Wiring		KE94C771		KE94C771
Standard attachment	Document		Installation Manual		
	Accessory		Refrigerant conn. pipe		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter

BTU/h =kW x 3,412  
cfm =m<sup>3</sup>/min x 35.31  
lbs =kg / 0.4536

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP700YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	80.0	
		kcal/h	68,800	
		BTU/h	273,000	
	Power input	kW	20.67	
		A	34.8-33.1-31.9	
COP	kW/kW	3.87		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	88.0	
		kcal/h	75,700	
		BTU/h	300,300	
	Power input	kW	21.89	
		A	36.9-35.1-33.8	
COP	kW/kW	4.02		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~50	
Sound pressure level (measured in anechoic room)		dB <A>	63.5	
Sound power level (measured in anechoic room)		dB <A>	83.5	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed	

Set Model

Model			PUHY-EP200YKM-A (-BS)	PUHY-EP200YKM-A (-BS)	PUHY-EP300YKM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m <sup>3</sup> /min	175	175	320
		L/s	2,917	2,917	5,333
		cfm	6,179	6,179	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2
*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	8.1
	Case heater	kW	-	-	-
	Lubricant		MEL32	MEL32	MEL32
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD			mm 1,710 (1,650 without legs) x 920 x 740 in. 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	mm 1,710 (1,650 without legs) x 920 x 740 in. 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		-	-	-
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)	R410A x 9.0 kg (20 lbs)	R410A x 11.8 kg (27 lbs)
	Control		LEV and HIC circuit		
Net weight			201 (444)	201 (444)	314 (693)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		WKD94T756		
	Wiring		KE94C771	KE94C771	KE94C772
Standard attachment	Document		Installation Manual		
	Accessory		Refrigerant conn. pipe		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter

BTU/h =kW x 3,412  
cfm =m<sup>3</sup>/min x 35.31  
lbs =kg / 0.4536

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP750YSKM-A (-BS)	
Power source	3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	85.0	
		kcal/h	73,100	
		BTU/h	290,000	
	Power input	kW	21.96	
		A	37.0-35.2-33.9	
COP	kW/kW	3.87		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	95.0	
		kcal/h	81,700	
		BTU/h	324,100	
	Power input	kW	23.86	
		A	40.2-38.2-36.8	
COP	kW/kW	3.98		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/1~50		
Sound pressure level (measured in anechoic room)	dB <A>	64.5		
Sound power level (measured in anechoic room)	dB <A>	84.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed	

Set Model			PUHY-EP200YKM-A (-BS)	PUHY-EP250YKM-A (-BS)	PUHY-EP300YKM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m <sup>3</sup> /min	175	175	320
		L/s	2,917	2,917	5,333
		cfm	6,179	6,179	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	
*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.5	6.9	8.1
	Case heater	kW	-	-	-
Lubricant		MEL32	MEL32	MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm 1,710 (1,650 without legs) x 920 x 740 in. 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	mm 1,710 (1,650 without legs) x 1,220 x 740 in. 67-3/8 (65 without legs) x 48-1/16 x 29-3/16	mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		-	-	-
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)
	Control		LEV and HIC circuit		
Net weight		kg (lbs)	201 (444)	229 (505)	314 (693)
Heat exchanger		Salt-resistant cross fin & copper tube			
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		WKD94T757		
	Wiring		KE94C771	KE94C771	KE94C772
Standard attachment	Document		Installation Manual		
	Accessory		Refrigerant conn. pipe		
Optional parts		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			
Remarks		<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>			

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP800YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	90.0	
		kcal/h	77,400	
		BTU/h	307,100	
	Power input	kW	23.19	
		A	39.1-37.1-35.8	
COP	kW/kW	3.88		
	W.B.	15.0~24.0°C (59~75°F)		
Temp. range of cooling	Indoor	15.0~24.0°C (59~75°F)		
	Outdoor	-5.0~46.0°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	100.0	
		kcal/h	86,000	
		BTU/h	341,200	
	Power input	kW	25.51	
		A	43.0-40.9-39.4	
COP	kW/kW	3.92		
Temp. range of heating	Indoor	15.0~27.0°C (59~81°F)		
	Outdoor	-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/1~50		
Sound pressure level (measured in anechoic room)		dB <A>		
Sound power level (measured in anechoic room)		dB <A>		
Refrigerant piping diameter	Liquid pipe	19.05 (3/4) Brazed		
	Gas pipe	34.93 (1-3/8) Brazed		

Set Model

Model			PUHY-EP200YKM-A (-BS)	PUHY-EP300YKM-A (-BS)	PUHY-EP300YKM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m <sup>3</sup> /min	175	320	320
		L/s	2,917	5,333	5,333
		cfm	6,179	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	*3 External static press.	Motor output	kW	0.92 x 1	0.92 x 2
		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.5	8.1	8.1
	Case heater	kW	-	-	-
	Lubricant		MEL32	MEL32	MEL32
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD			mm 1,710 (1,650 without legs) x 920 x 740	mm 1,710 (1,650 without legs) x 1,750 x 740	mm 1,710 (1,650 without legs) x 1,750 x 740
			in. 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		-	-	-
Refrigerant	Type x original charge		R410A x 9.0 kg (20 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
	Control		LEV and HIC circuit		
Net weight			kg (lbs)	314 (693)	314 (693)
Heat exchanger			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		WKD94T758		
	Wiring		KE94C771	KE94C772	KE94C772
Standard attachment	Document		Installation Manual		
	Accessory		Refrigerant conn. pipe		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter

BTU/h =kW x 3,412  
cfm =m<sup>3</sup>/min x 35.31  
lbs =kg / 0.4536

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP850YSKM-A (-BS)	
Power source	3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	96.0	
		kcal/h	82,600	
		BTU/h	327,600	
	Power input	kW	24.74	
		A	41.7-39.6-38.2	
COP	kW/kW	3.88		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	108.0	
		kcal/h	92,900	
		BTU/h	368,500	
	Power input	kW	27.83	
		A	46.9-44.6-43.0	
COP	kW/kW	3.88		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/1~50		
Sound pressure level (measured in anechoic room)	dB <A>	65.5		
Sound power level (measured in anechoic room)	dB <A>	85.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	

Set Model			PUHY-EP250YKM-A (-BS)	PUHY-EP300YKM-A (-BS)	PUHY-EP300YKM-A (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m <sup>3</sup> /min	175	320	320
		L/s	2,917	5,333	5,333
		cfm	6,179	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	
*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	8.1
	Case heater	kW	-	-	-
Lubricant		MEL32	MEL32	MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm 1,710 (1,650 without legs) x 1,220 x 740 in. 67-3/8 (65 without legs) x 48-1/16 x 29-3/16	mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		-	-	-
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
	Control		LEV and HIC circuit		
Net weight		kg (lbs)	229 (505)	314 (693)	314 (693)
Heat exchanger		Salt-resistant cross fin & copper tube			
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe,tube-in-tube structure			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		WKD94T759		
	Wiring		KE94C771	KE94C772	KE94C772
Standard attachment	Document		Installation Manual		
	Accessory		Refrigerant conn. pipe		
Optional parts		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			
Remarks		<ul style="list-style-type: none"> <li>●Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>●Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>			

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	lbs =kg / 0.4536
	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

Y (HIGH COP)

Model			PUHY-EP900YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	101.0	
		kcal/h	86,900	
		BTU/h	344,600	
	Power input	kW	25.96	
		A	43.8-41.6-40.1	
COP	kW/kW	3.89		
	W.B.	15.0~24.0°C (59~75°F)		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	113.0	
		kcal/h	97,200	
		BTU/h	385,600	
	Power input	kW	29.58	
		A	49.9-47.4-45.7	
COP	kW/kW	3.82		
	W.B.	15.0~27.0°C (59~81°F)		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~50	
Sound pressure level (measured in anechoic room)		dB <A>	66	
Sound power level (measured in anechoic room)		dB <A>	86	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	

Set Model

Model			PUHY-EP300YKM-A (-BS)	PUHY-EP300YKM-A (-BS)	PUHY-EP300YKM-A (-BS)
FAN	Type x Quantity		Propeller fan x 2		
	Air flow rate	m <sup>3</sup> /min	320		
		L/s	5,333		
		cfm	11,299		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 2		
*3 External static press.		0 Pa (0 mmH <sub>2</sub> O)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	8.1		
	Case heater	kW	-		
	Lubricant		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD			mm 1,710 (1,650 without legs) x 1,750 x 740	mm 1,710 (1,650 without legs) x 1,750 x 740	mm 1,710 (1,650 without legs) x 1,750 x 740
			in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
	Fan motor		-		
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		
	Control		LEV and HIC circuit		
Net weight			kg (lbs) 314 (693)		kg (lbs) 314 (693)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		WKD94T769		
	Wiring		KE94C772	KE94C772	KE94C772
Standard attachment	Document		Installation Manual		
	Accessory		Refrigerant conn. pipe		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m <sup>3</sup> /min x 35.31
lbs	=kg / 0.4536
*Above specification data is subject to rounding variation.	



# 2. EXTERNAL DIMENSIONS

EP-YKM

Y (HIGH COP)

## PUHY-EP200YKM-A(-BS)

Unit : mm

- <Accessories>  
 ● Connecting pipe  
 <Gas>  
 · Elbow (IDø28.58XODø28.58) ... 1 pc.  
 · Pipe (IDø28.58XODø22.2) ... 1 pc.

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

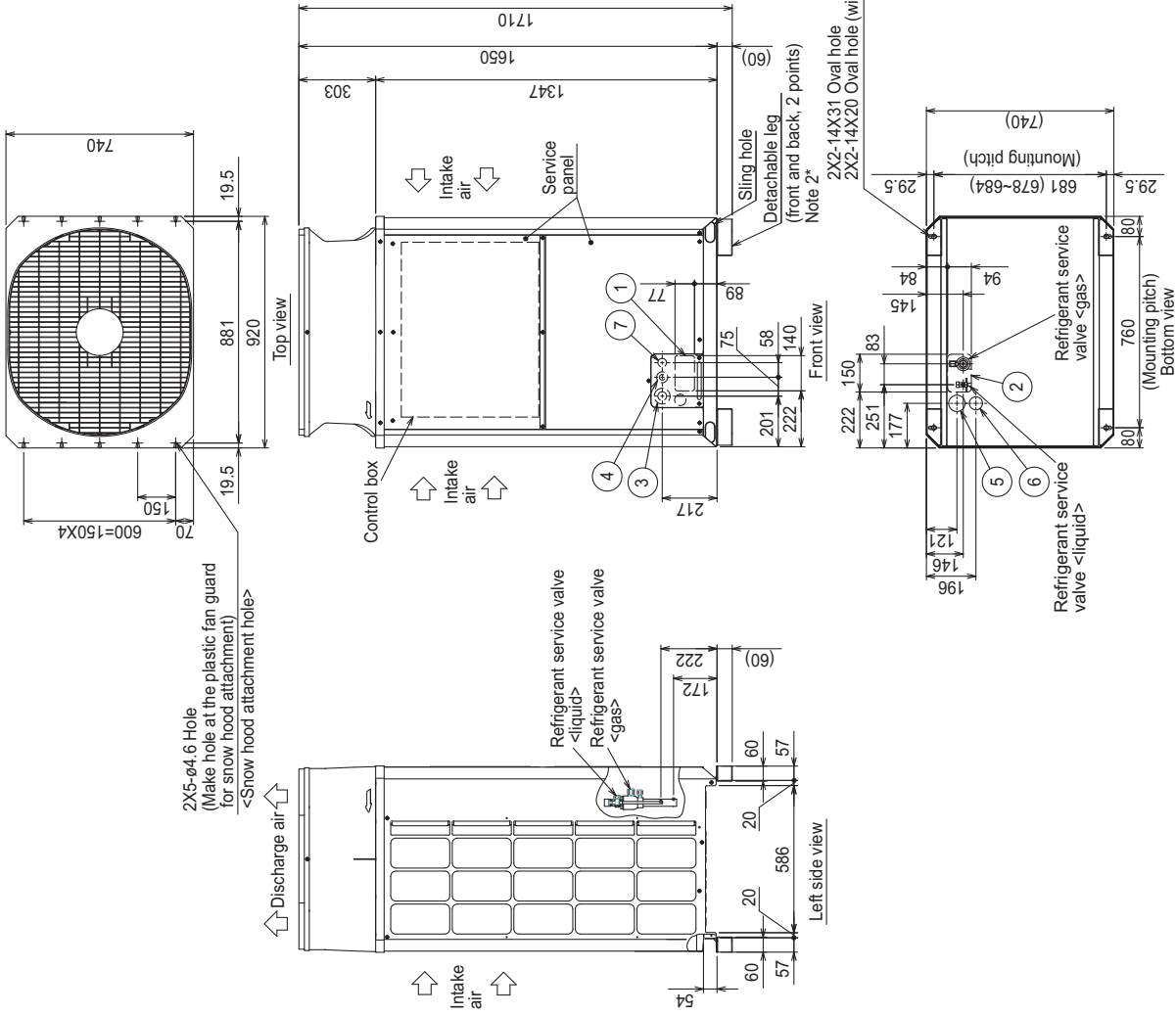
- The detachable leg can be removed at site.
- At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-EP200YKM	ø9.52 Brazed	ø22.2 Brazed	ø9.52	ø28.58

\*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole
②	Bottom through hole	150 x 94 Knockout hole
③	Front through hole	ø65 or ø40 Knockout hole
④	Front through hole	ø52 or ø27 Knockout hole
⑤	Bottom through hole	ø65 Knockout hole
⑥	Bottom through hole	ø52 Knockout hole
⑦	For transmission cables	ø34 Knockout hole



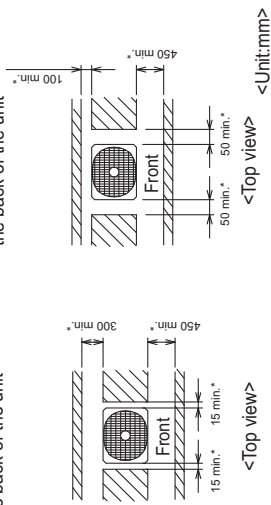
PUHY-EP200YKM-A(-BS)

Unit : mm

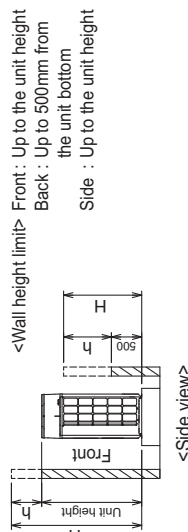
1. Required space around the unit

● In case of single installation

- ① Secure enough space around the unit as shown in the figure below.
- With a space of at least 300mm to the wall on the back of the unit

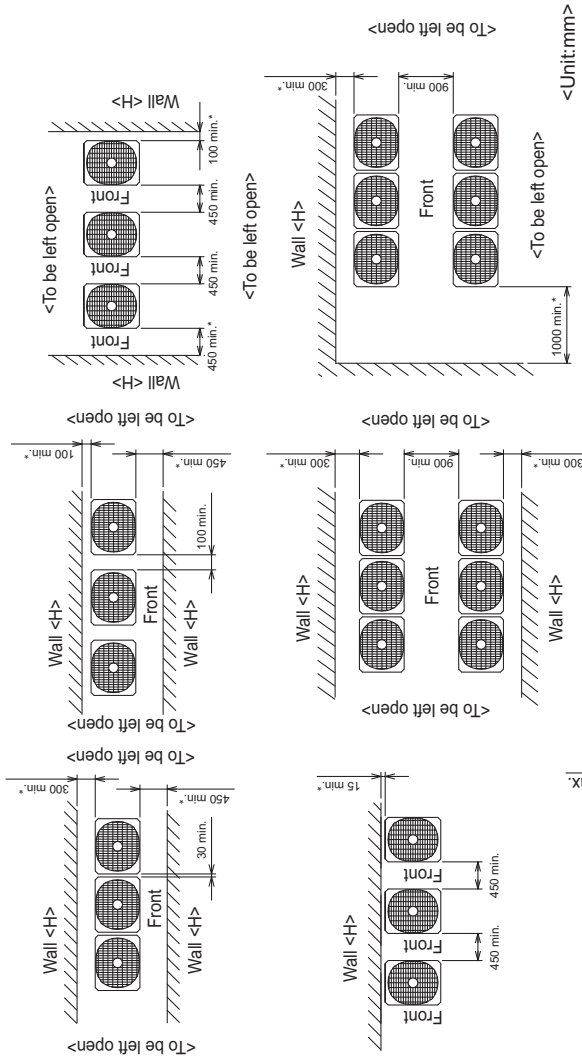


- ② When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



● In case of collective installation

- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- ④ If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site. <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig.A,B) When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- ③ The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A,B)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.C,D)
- ⑤ To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.

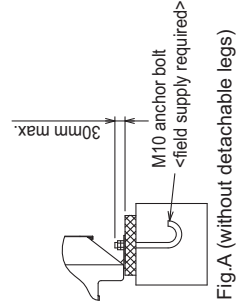


Fig.A (without detachable legs)

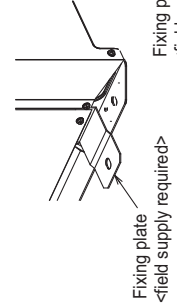


Fig.C (without detachable legs)

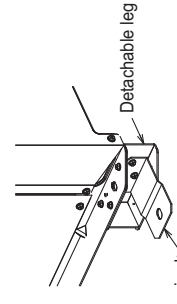


Fig.D (with detachable legs)

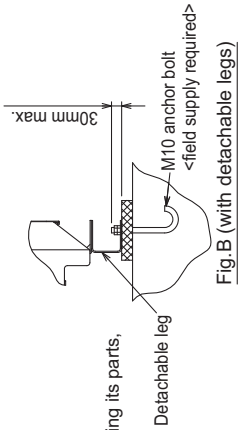


Fig.B (with detachable legs)

# 2. EXTERNAL DIMENSIONS

EP-YKM

Y (HIGH COP)

## PUHY-EP250YKM-A(-BS)

Unit : mm

- <Accessories>  
 • Connecting pipe  
 <Gas>  
 · Elbow (IDø28.58XODø28.58) ... 1pc.  
 · Pipe (IDø28.58XODø22.2) ... 1pc.  
 <Liquid>  
 · Pipe (IDø9.52XIDø12.7) ... 1pc.

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

- The detachable leg can be removed at site.
- At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

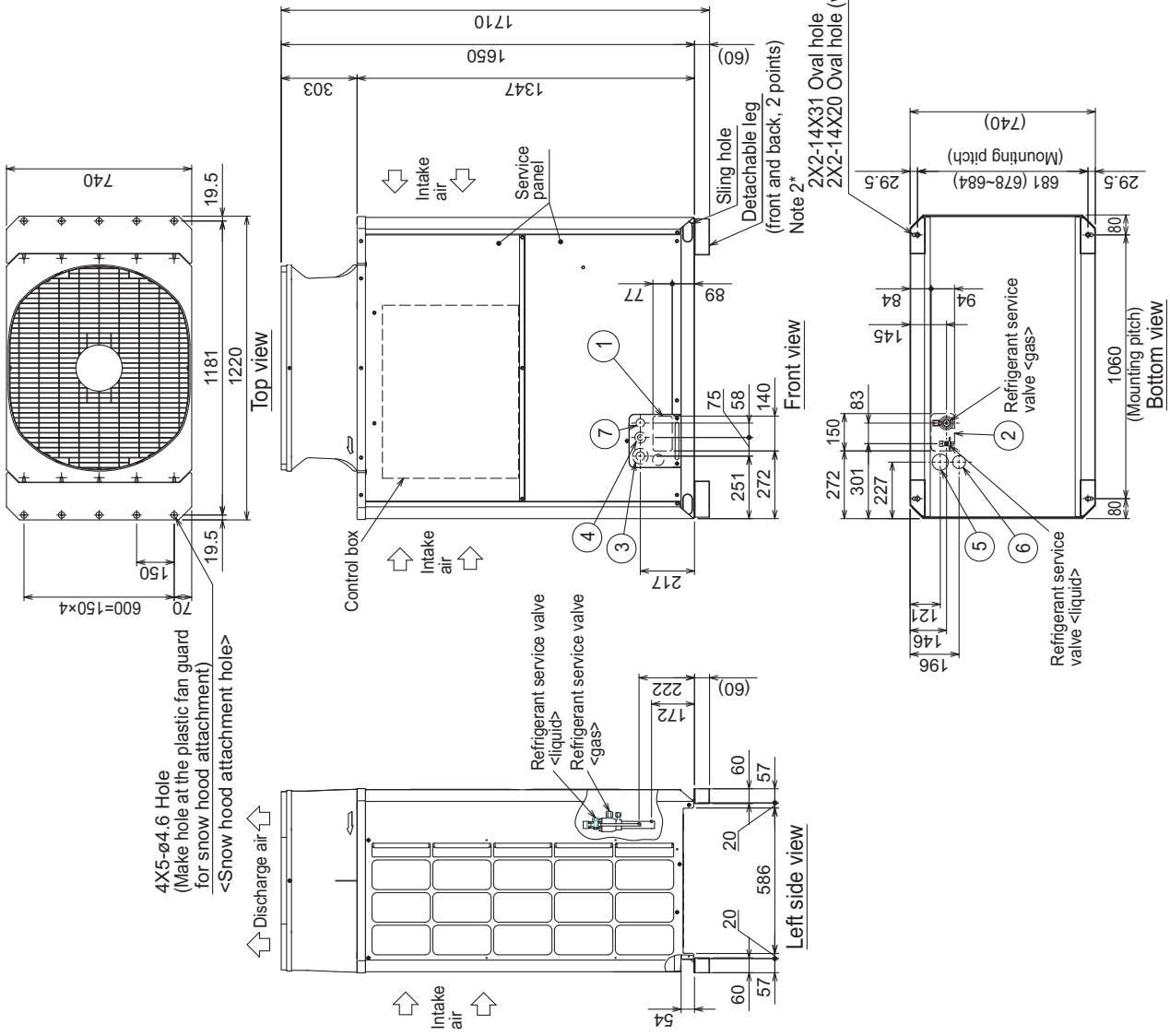
Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-EP250YKM (ø12.7 Brazed) *1	ø9.52 Brazed (ø12.7 Brazed) *1	ø22.2 Brazed *1	ø9.52	ø28.58

\*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

\*2 Furthest piping length (OU from IU) ≥ 90m

No.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole
②	Bottom through hole	150 x 94 Knockout hole
③	Front through hole	ø65 or ø40 Knockout hole
④	Front through hole	ø52 or ø27 Knockout hole
⑤	Bottom through hole	ø65 Knockout hole
⑥	Bottom through hole	ø52 Knockout hole
⑦	For transmission cables	ø34 Knockout hole



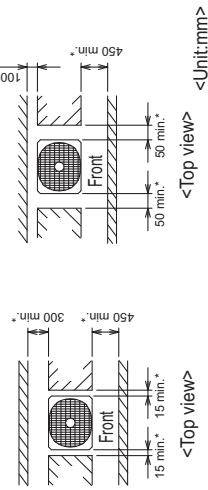
PUHY-EP250YKM-A(-BS)

Unit : mm

1. Required space around the unit

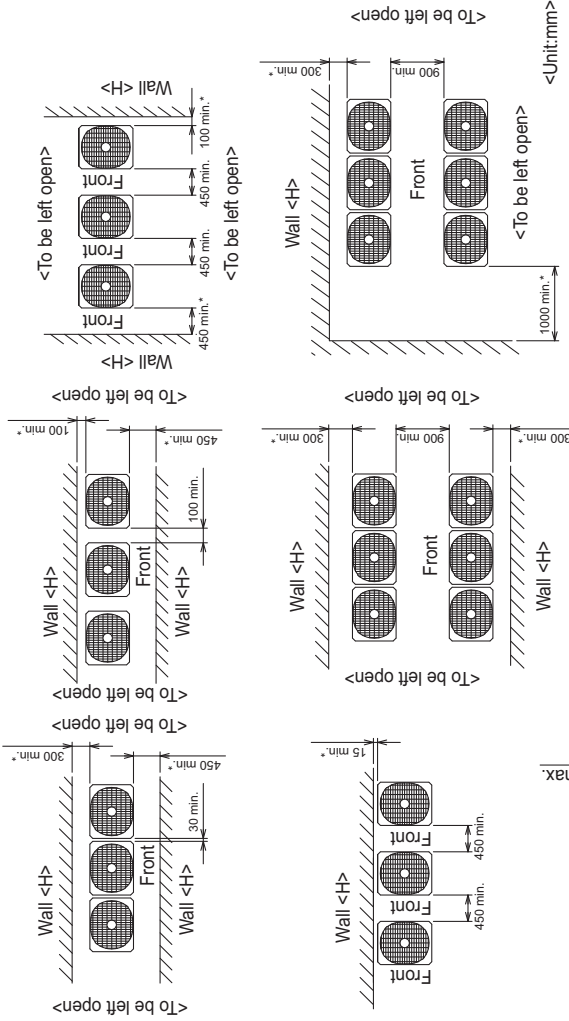
● In case of single installation

- ① Secure enough space around the unit as shown in the figure below.
  - With a space of at least 300mm to the wall on the back of the unit
- ② When the height of the walls on the front, back or on the sides<H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



● In case of collective installation

- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.
- ④ If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route and wiring route when preparing the installation site.
  - <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig.A,B)
  - When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- ③ The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A,B)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.C,D)
- ⑤ To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.

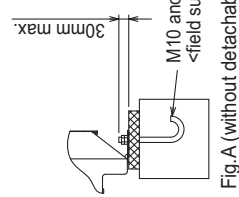


Fig.A (without detachable legs)

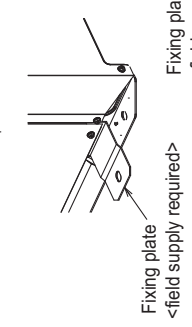


Fig.C (without detachable legs)

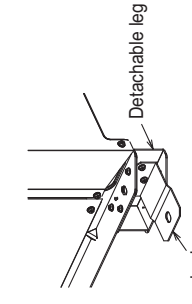


Fig.D (with detachable legs)

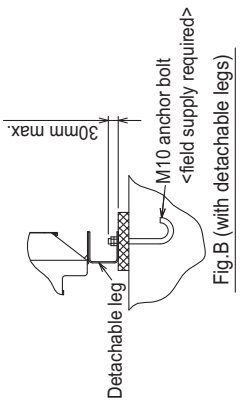


Fig.B (with detachable legs)

## PUHY-EP300, 350, 400, 450YKM-A-(BS)

Unit : mm

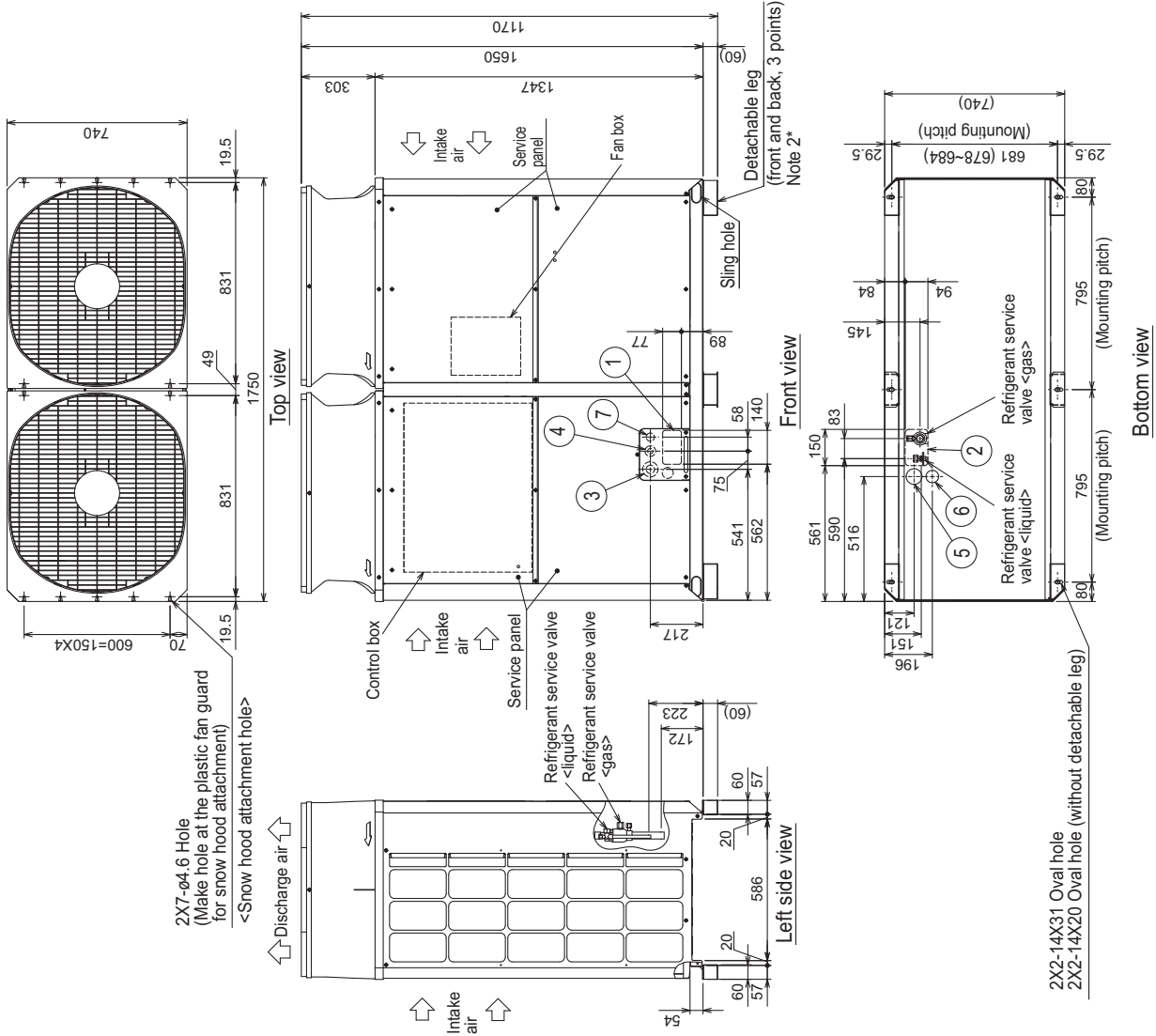
- <Accessories>
- Connecting pipe
    - Elbow (IDø28.58XODø28.58) ... EP300, 350, 400, 450 1 pc.
    - Pipe (IDø12.7XIDø9.52) ... EP300 1 pc.
    - Pipe (IDø15.88XIDø12.7) ... EP400, 450 1 pc.
- Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. The detachable leg can be removed at site.
3. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

Model	Refrigerant pipe		Diameter	
	Liquid	Gas	Liquid	Gas
PUHY-EP300YKM	ø9.52 Braze (ø12.7 Braze) <sub>1</sub>	ø28.58 Braze (ø28.58 Braze) <sub>1</sub>	ø12.7	ø28.58
PUHY-EP350YKM	ø12.7 Braze	ø28.58 Braze (ø28.58 Braze) <sub>1</sub>	ø12.7	ø28.58
PUHY-EP400YKM	ø12.7 Braze (ø15.88 Braze) <sub>1,2</sub>	ø28.58 Braze (ø28.58 Braze) <sub>1</sub>	ø12.7	ø28.58
PUHY-EP450YKM	ø15.88 Braze (ø15.88 Braze) <sub>1</sub>	ø28.58 Braze (ø28.58 Braze) <sub>1</sub>	ø12.7	ø28.58

- \*1 Use the included connecting pipe and connect to the refrigerant service valve piping.
- \*2 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.
- \*3 Furthest piping length (OU from IU) ≥ 40m

NO.	Usage	Specifications
①	For pipes	Front through hole 140 × 77 Knockout hole Bottom through hole 150 × 94 Knockout hole
②	For wires	Front through hole ø65 or ø40 Knockout hole
③		Bottom through hole ø52 or ø27 Knockout hole
④	For transmission cables	Front through hole ø65 Knockout hole
⑤		Bottom through hole ø52 Knockout hole
⑥		Front through hole ø34 Knockout hole
⑦		

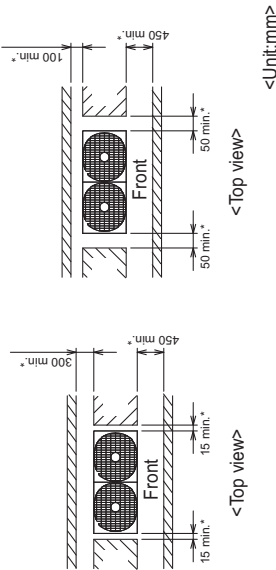


PUHY-EP300, 350, 400, 450YKM-A(-BS)

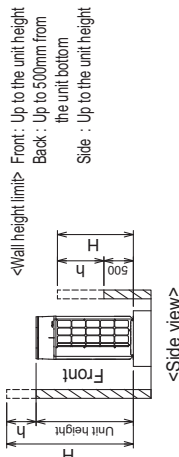
Unit : mm

**1. Required space around the unit**  
**● In case of single installation**

- Secure enough space around the unit as shown in the figure below.
  - With a space of at least 300mm to the wall on the back of the unit



- When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

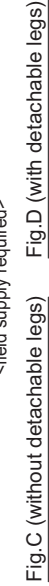
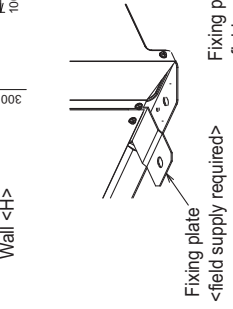
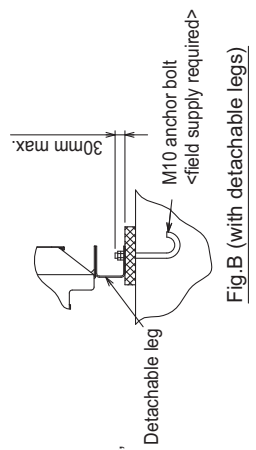
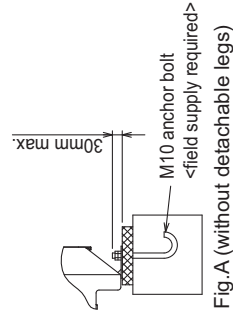
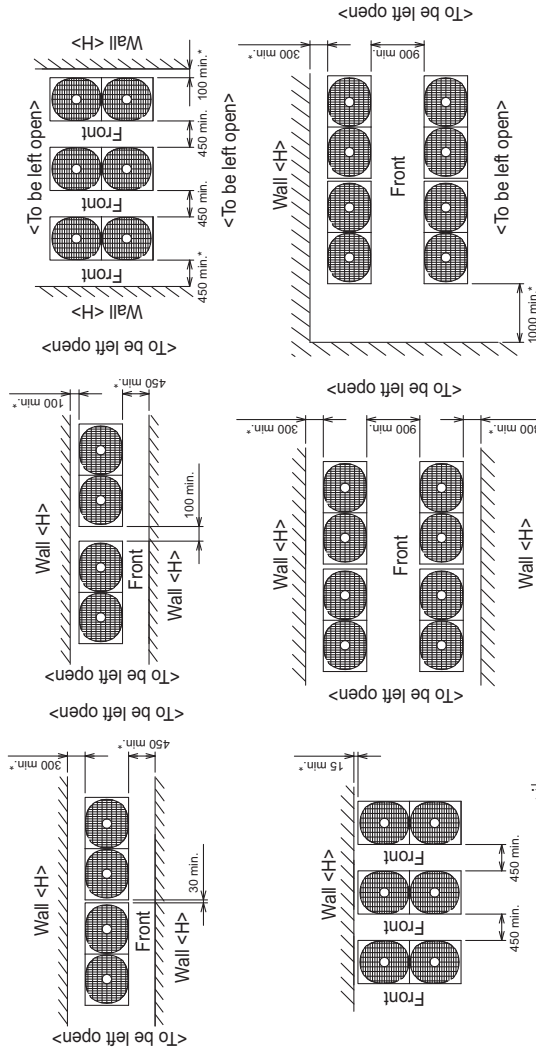


**2. Foundation work**

- Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
  - Note that the drain water comes out of the unit during operation.
- Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig.A,B)
  - When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A,B)
- Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.C,D)
- To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- Refer to the Installation Manual when installing units on an installation base.

**● In case of collective installation**

- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- 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 1000mm or more as inlet space/ passage space for each three units.



Unit:mm

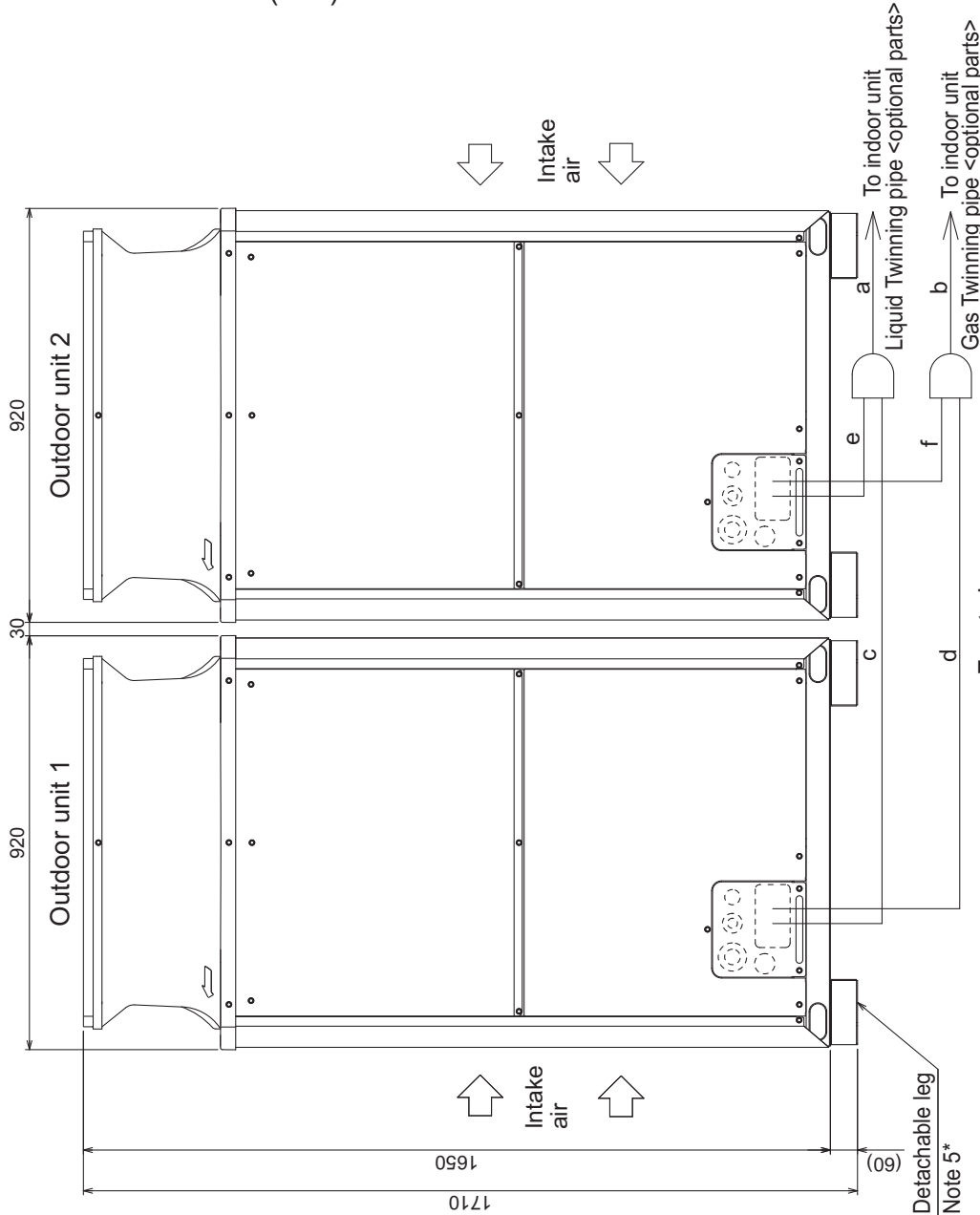
## 2. EXTERNAL DIMENSIONS

EP-YKM

Y (HIGH COP)

PUHY-EP400YSKM-A(-BS)

Unit : mm



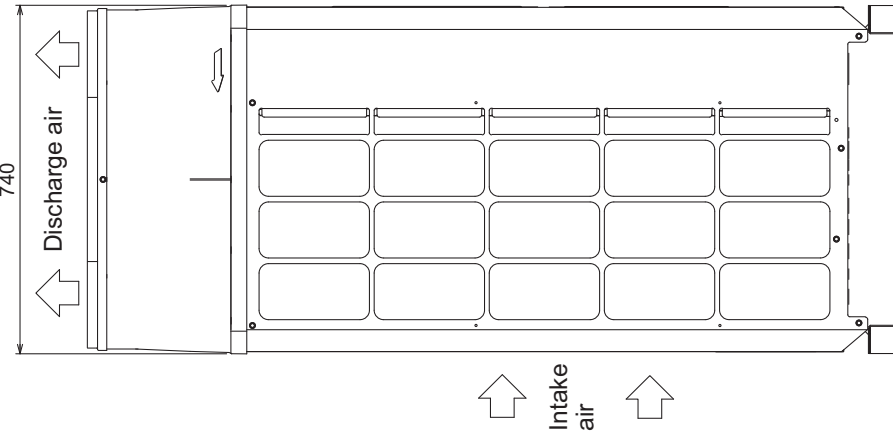
Front view

Twinning pipe-Outdoor unit	Unit model	Liquid	Gas
	EP200	c or e ø9.52	d or f ø22.2

Package unit name	PUHY-EP400YSKM-A(-BS)	
Outdoor unit 1	PUHY-EP200YKM-A(-BS)	
Outdoor unit 2	PUHY-EP200YKM-A(-BS)	
Outdoor Twinning Kit (optional parts)	CMY-Y100YBK3	
Indoor unit-Twinning pipe	Liquid a	ø12.7
	Gas b	ø28.58

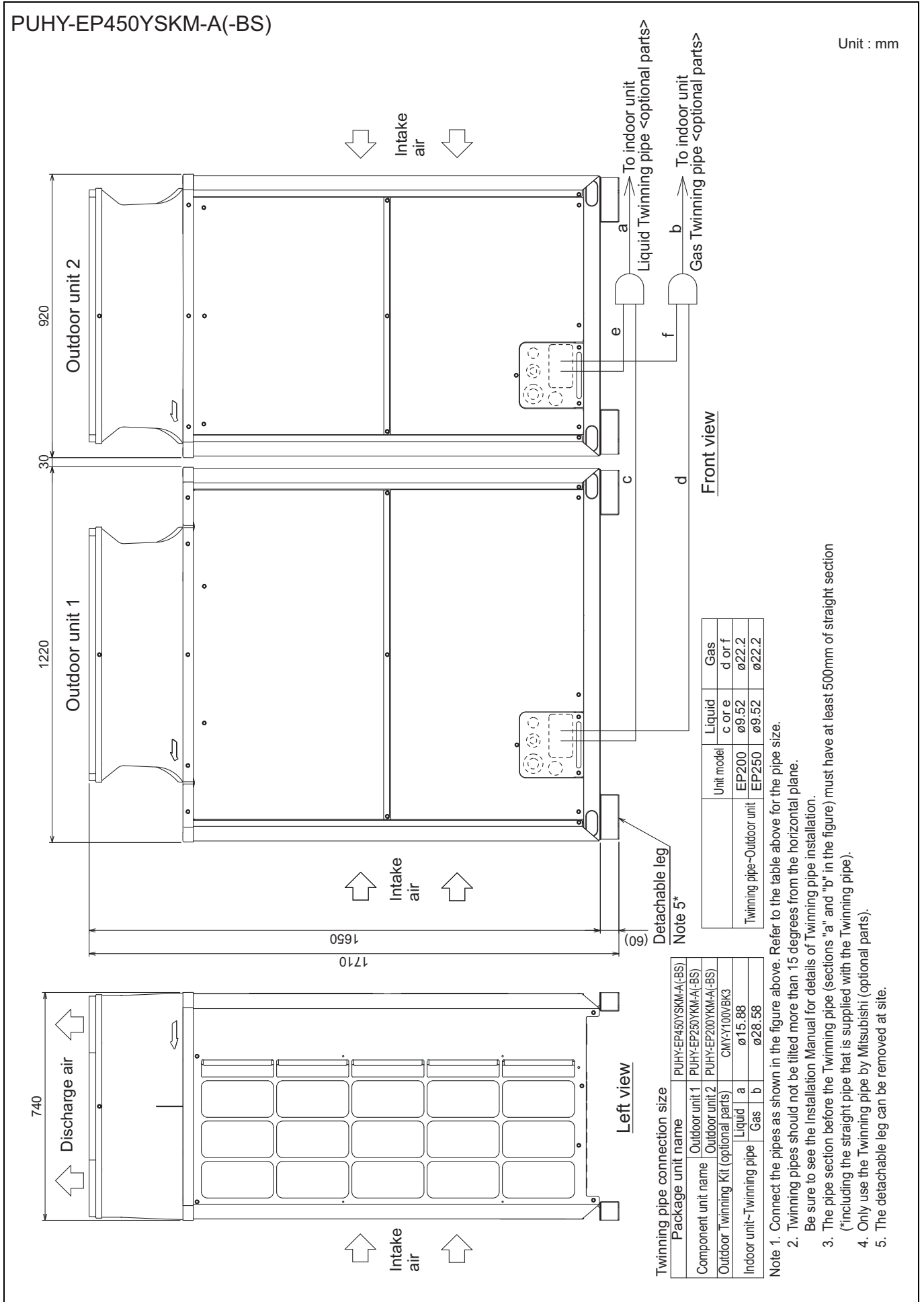
Twinning pipe connection size

Left view



Note 5\*

1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.
3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm of straight section (\*including the straight pipe that is supplied with the Twinning pipe).
4. Only use the Twinning pipe by Mitsubishi (optional parts).
5. The detachable leg can be removed at site.





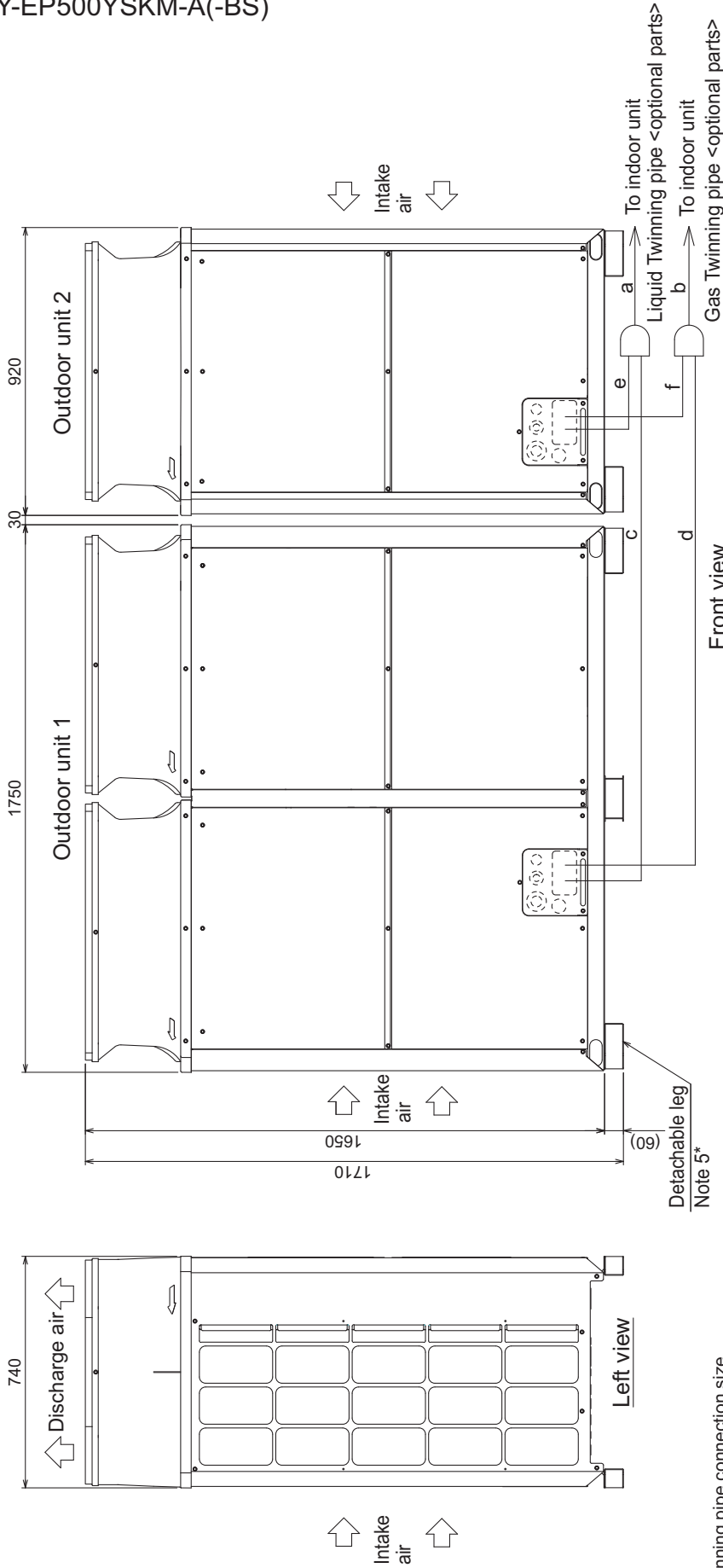
## 2. EXTERNAL DIMENSIONS

EP-YKM

Y (HIGH COP)

PUHY-EP500YSKM-A(-BS)

Unit : mm



Twinning pipe connection size

Package unit name	PUHY-EP500YSKM-A(-BS)	
Component unit name	Outdoor unit 1 PUHY-EP300YKM-A(-BS) Outdoor unit 2 PUHY-EP200YKM-A(-BS)	
Outdoor Twinning Kit (optional parts)	CMY-Y100VBK3	
Indoor unit- Twinning pipe	Liquid a	ø15.88
	Gas b	ø28.58

Twinning pipe-Outdoor unit	Unit model	Liquid c or e	Gas d or f
EP200	EP200	ø9.52	ø22.2
EP300	EP300	ø12.7	ø28.58

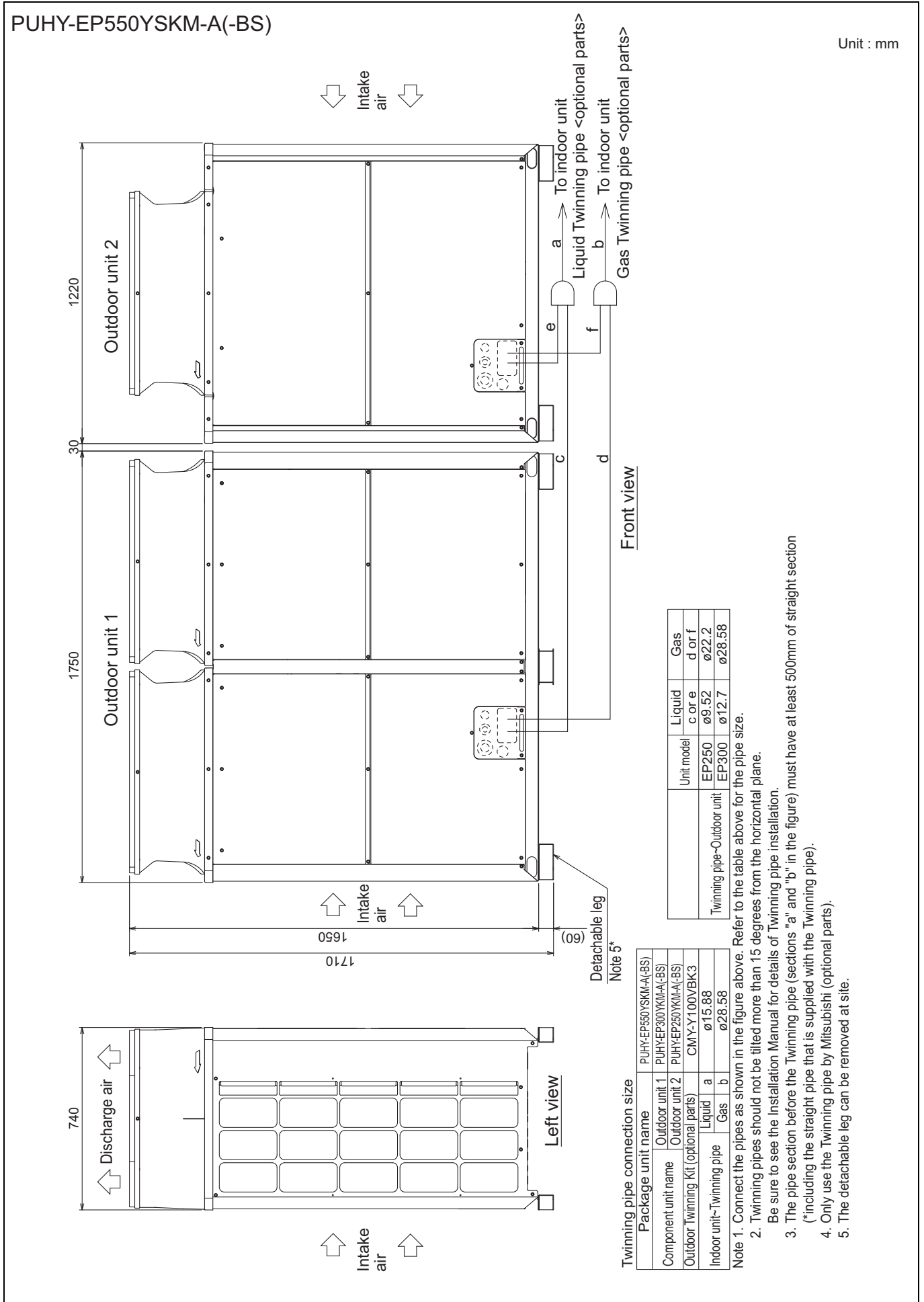
Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

Note 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

Note 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm of straight section (\*including the straight pipe that is supplied with the Twinning pipe).

Note 4. Only use the Twinning pipe by Mitsubishi (optional parts).

Note 5. The detachable leg can be removed at site.



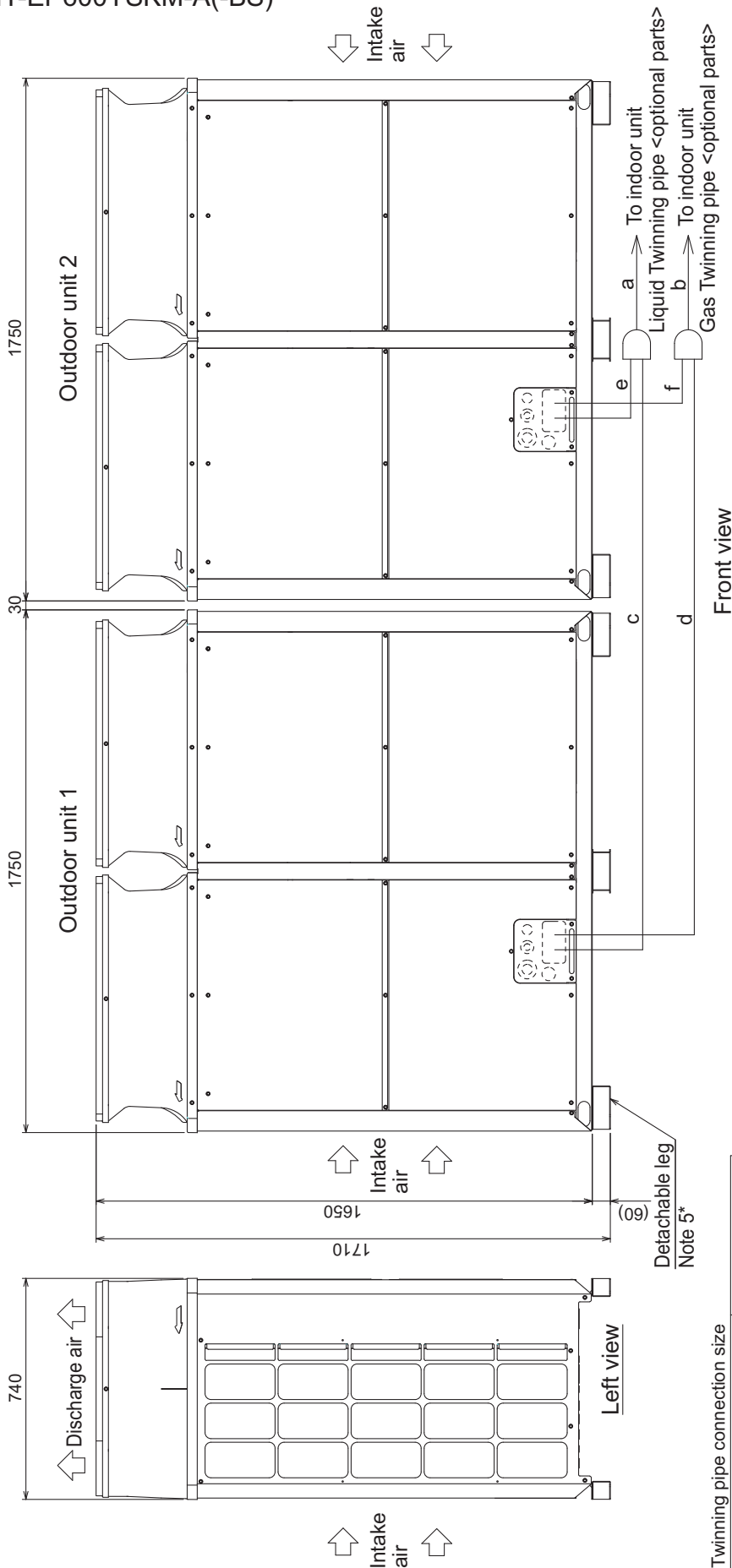
## 2. EXTERNAL DIMENSIONS

EP-YKM

Y (HIGH COP)

PUHY-EP600YSKM-A(-BS)

Unit : mm



Twinning pipe connection size

Package unit name	PUHY-EP600YSKM-A(-BS)	
Outdoor unit 1	PUHY-EP300YKM-A(-BS)	
Outdoor unit 2 (optional parts)	PUHY-EP300YKM-A(-BS)	
Outdoor Twinning Kit (optional parts)	CMY-Y100VBK3	
Indoor unit-Twinning pipe	Liquid a	ø15.88
	Gas b	ø28.58

Twinning pipe-Outdoor unit	Unit model	Liquid c or e	Gas d or f
	EP300	ø12.7	ø28.58

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

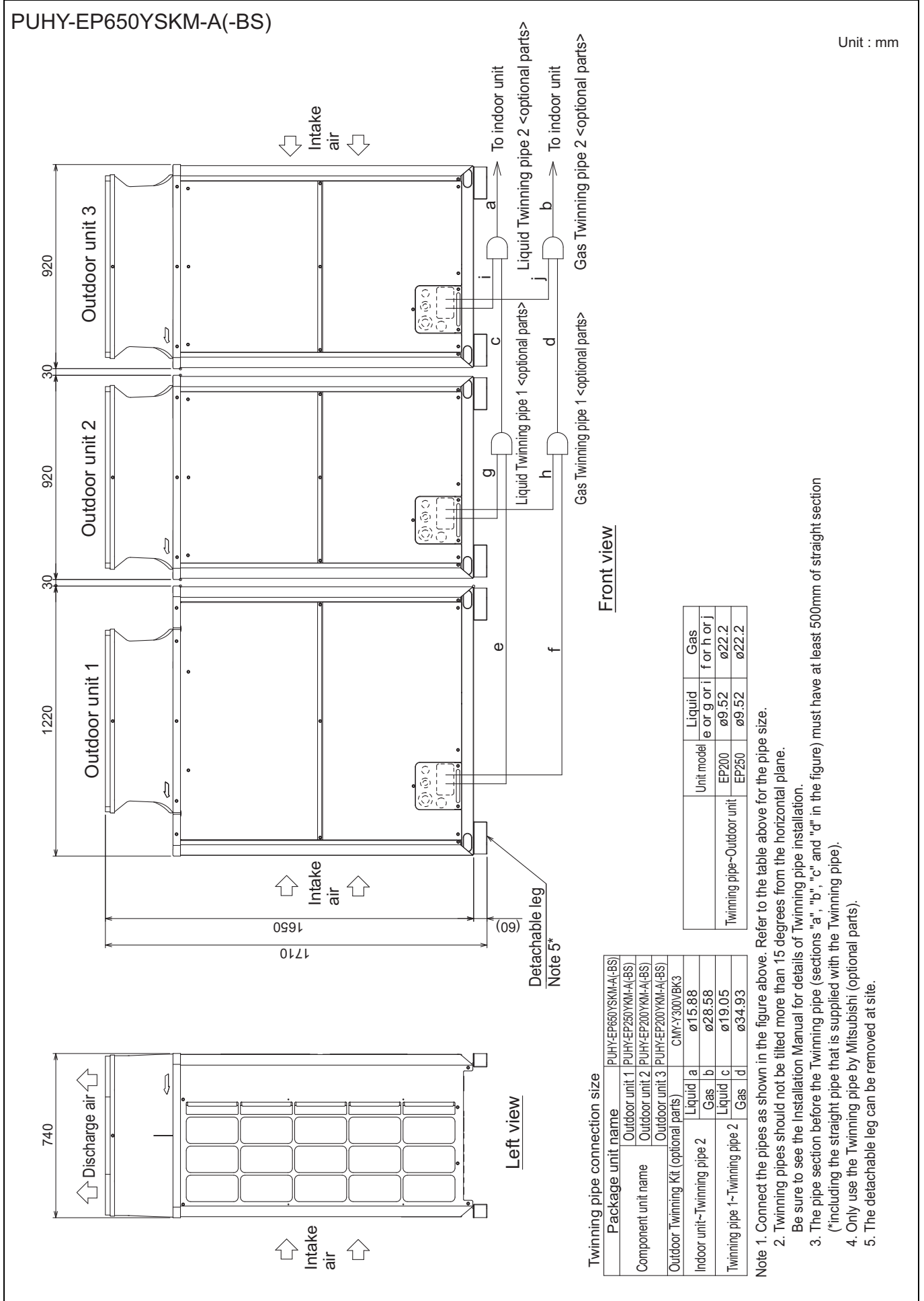
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

Be sure to see the Installation Manual for details of Twinning pipe installation.

3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm of straight section (\*including the straight pipe that is supplied with the Twinning pipe).

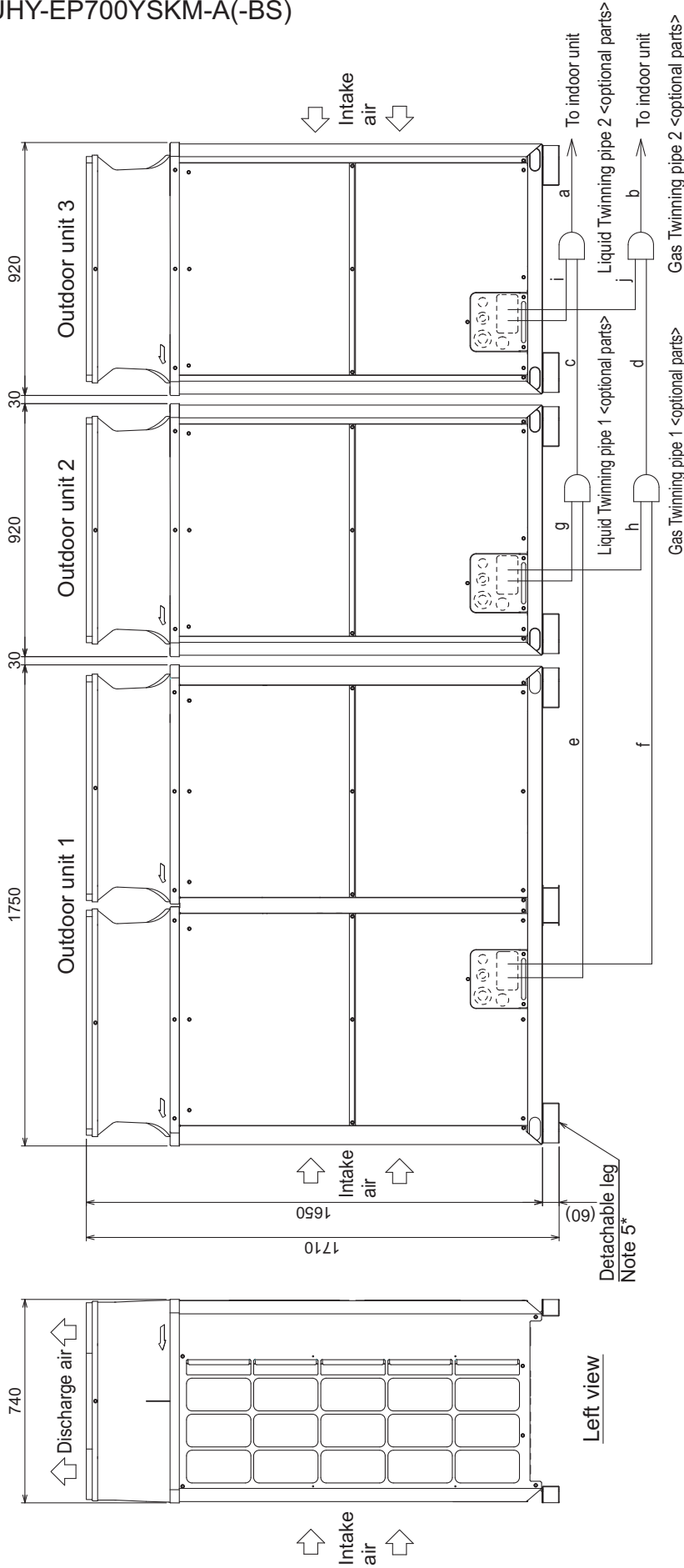
4. Only use the Twinning pipe by Mitsubishi (optional parts).

5. The detachable leg can be removed at site.



PUHY-EP700YSKM-A(-BS)

Unit : mm



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-EP700YSKM-A(-BS)	
Outdoor unit 1	PUHY-EP300YKM-A(-BS)	
Outdoor unit 2	PUHY-EP200YKM-A(-BS)	
Outdoor unit 3	PUHY-EP200YKM-A(-BS)	
Outdoor Twinning Kit (optional parts)	CMY-Y300VBK3	
Indoor unit-Twinning pipe 2	Liquid a	ø19.05
	Gas b	ø34.93
Twinning pipe 1-Twinning pipe 2	Liquid c	ø19.05
	Gas d	ø34.93

Twinning pipe-Outdoor unit	Unit model	Liquid e or g or i	Gas f or h or j
EP200	EP200	ø9.52	ø22.2
EP300	EP300	ø12.7	ø28.58

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

Note 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

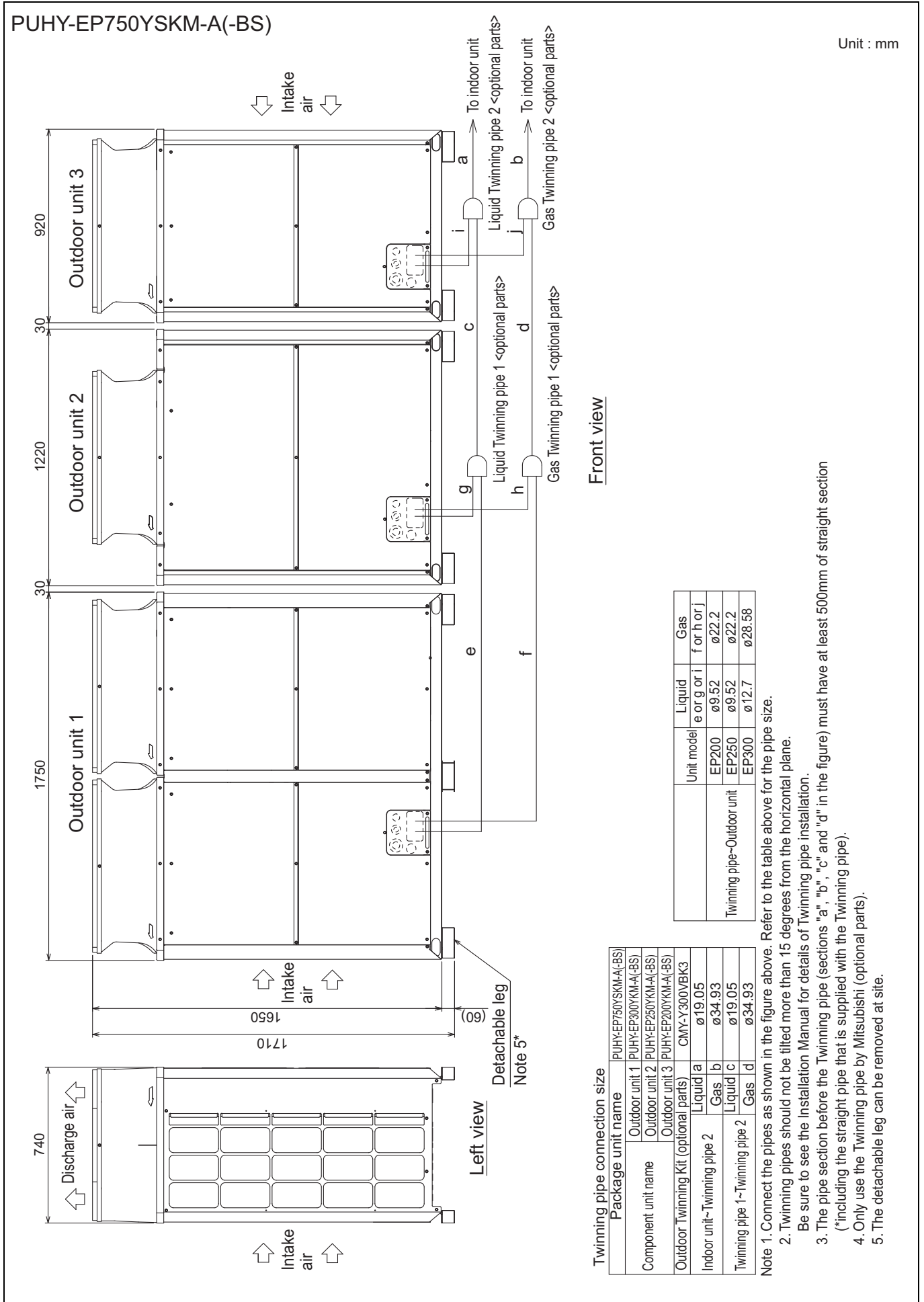
Note 3. Be sure to see the Installation Manual for details of Twinning pipe installation.

Note 4. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm of straight section

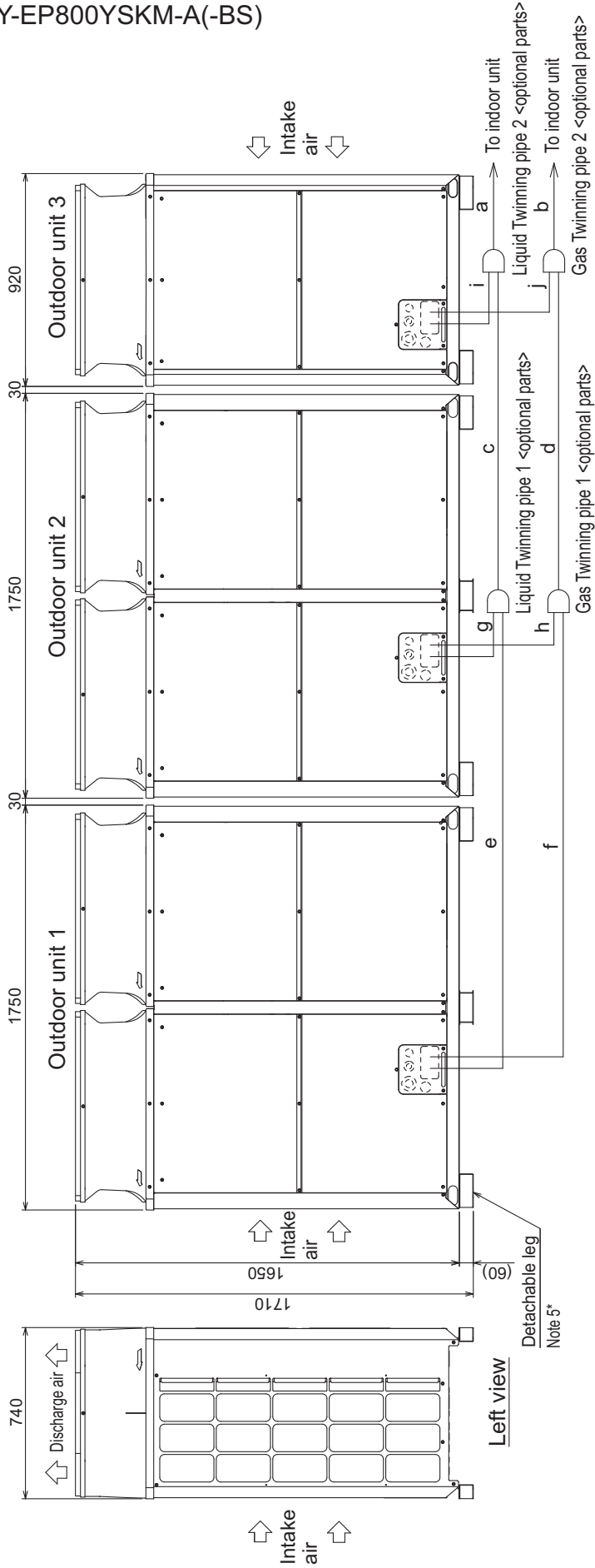
(\*including the straight pipe that is supplied with the Twinning pipe).

Note 5. Only use the Twinning pipe by Mitsubishi (optional parts).

Note 6. The detachable leg can be removed at site.



PUHY-EP800YSKM-A(-BS)



Unit : mm

Front view

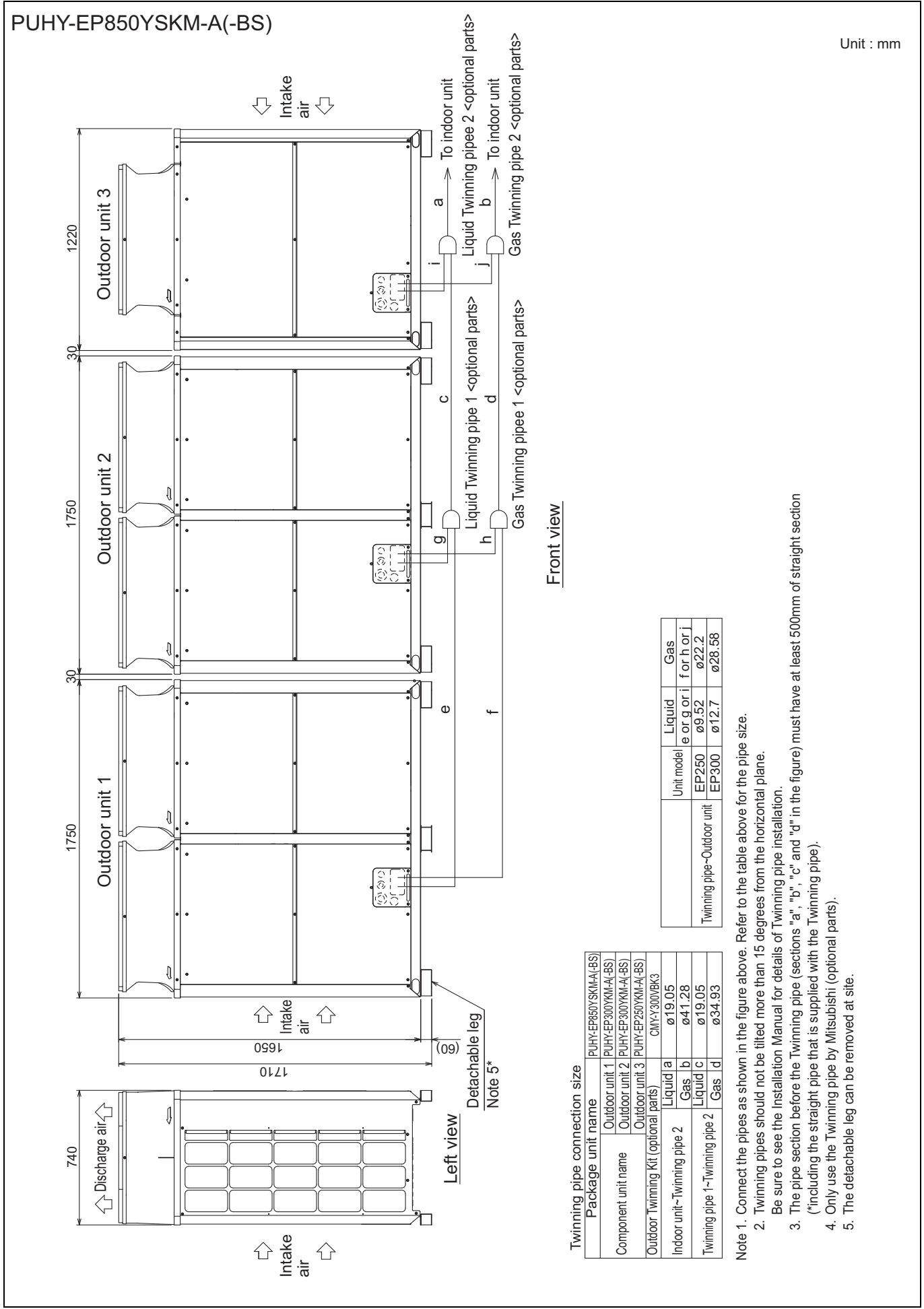
Left view

Twinning pipe connection size

Package unit name	PUHY-EP800YSKM-A(-BS)	
Outdoor unit 1	PUHY-EP300YKM-A(-BS)	
Outdoor unit 2	PUHY-EP300YKM-A(-BS)	
Outdoor unit 3	PUHY-EP200YKM-A(-BS)	
Outdoor Twinning Kit (optional parts)	CMY-Y300VBK3	
Indoor unit-Twinning pipe 2	Liquid a	ø19.05
	Gas b	ø34.93
Twinning pipe 1-Twinning pipe 2	Liquid c	ø19.05
	Gas d	ø34.93

Twinning pipe-Outdoor unit	Unit model	Liquid	Gas
		EP200	ø9.52
	EP300	ø12.7	ø22.2
			ø28.58

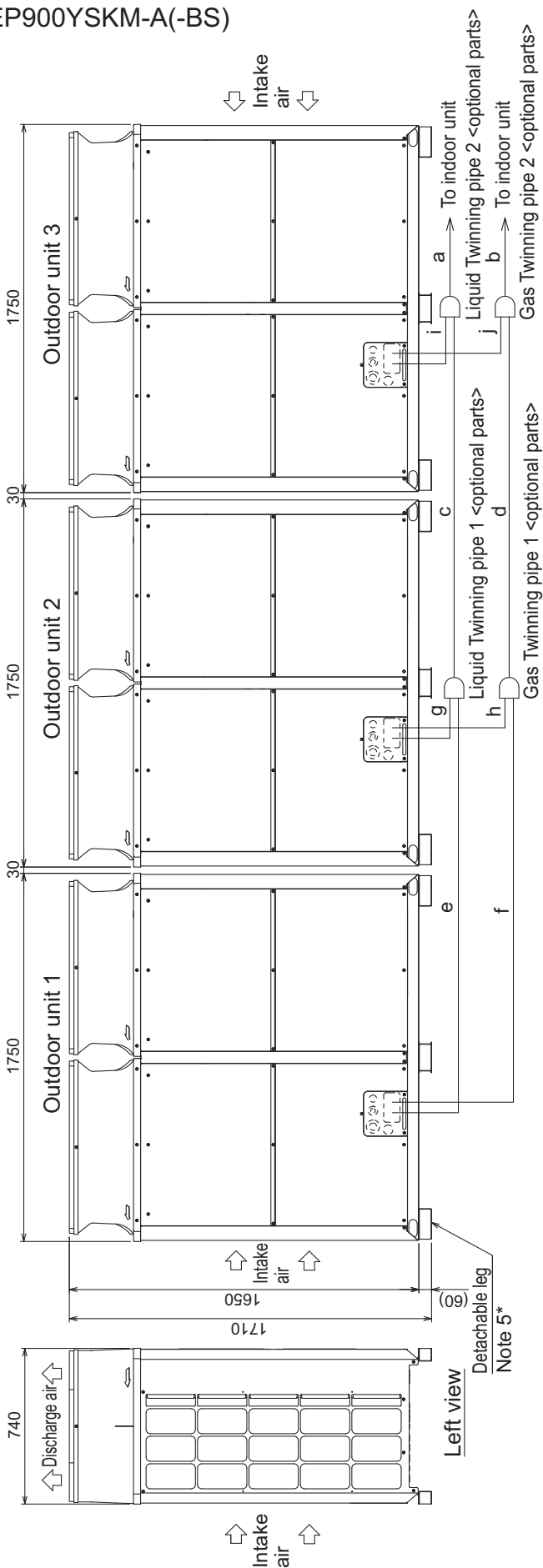
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
- Note 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.
- Note 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm of straight section. (\*including the straight pipe that is supplied with the Twinning pipe).
- Note 4. Only use the Twinning pipe by Mitsubishi (optional parts).
- Note 5. The detachable leg can be removed at site.





PUHY-EP900YSKM-A(-BS)

Unit : mm



Front view

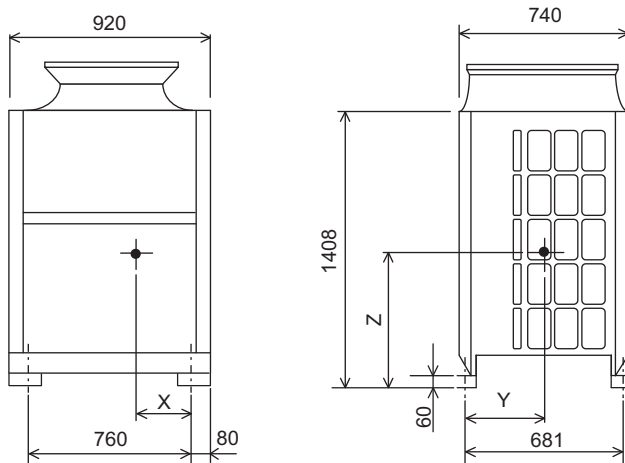
Twinning pipe connection size	
Package unit name	PUHY-EP900YSKM-A(-BS)
Component unit name	Outdoor unit 1   PUHY-EP300YKM-A(-BS) Outdoor unit 2   PUHY-EP300YKM-A(-BS) Outdoor unit 3   PUHY-EP300YKM-A(-BS)
Outdoor Twinning Kit (optional parts)	OMY-Y300W/BK3
Indoor unit-Twinning pipe 2	Liquid a   ø19.05 Gas b   ø41.28
Twinning pipe 1-Twinning pipe 2	Liquid c   ø19.05 Gas d   ø34.93

Twinning pipe-Outdoor unit	Unit model	Liquid e or g or i	Gas f or h or j
	EP300	ø12.7	ø28.58

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.  
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.  
 Be sure to see the Installation Manual for details of Twinning pipe installation.  
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm of straight section (\*including the straight pipe that is supplied with the Twinning pipe).  
 4. Only use the Twinning pipe by Mitsubishi (optional parts).  
 5. The detachable leg can be removed at site.

### 3. CENTER OF GRAVITY

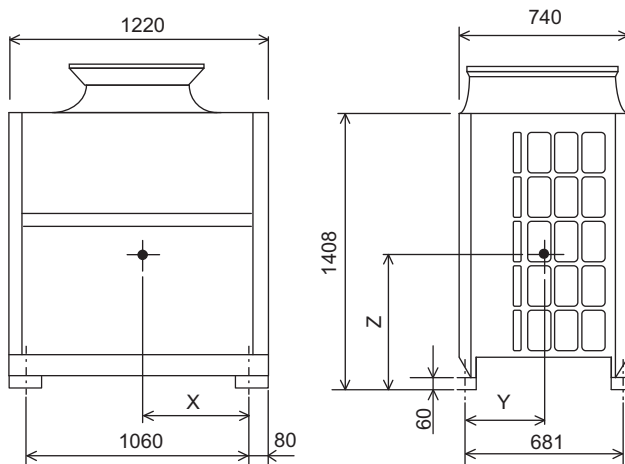
#### PUHY-EP200YKM-A (-BS)



Unit : mm

Model	X	Y	Z
PUHY-EP200YKM-A(-BS)	325	293	682

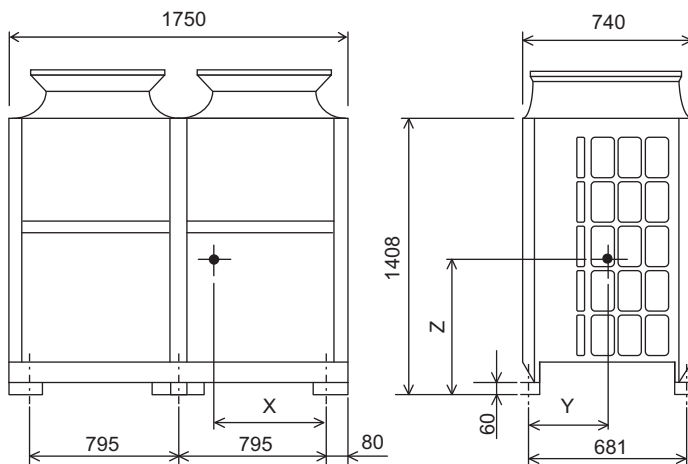
#### PUHY-EP250YKM-A (-BS)



Unit : mm

Model	X	Y	Z
PUHY-EP250YKM-A(-BS)	441	306	657

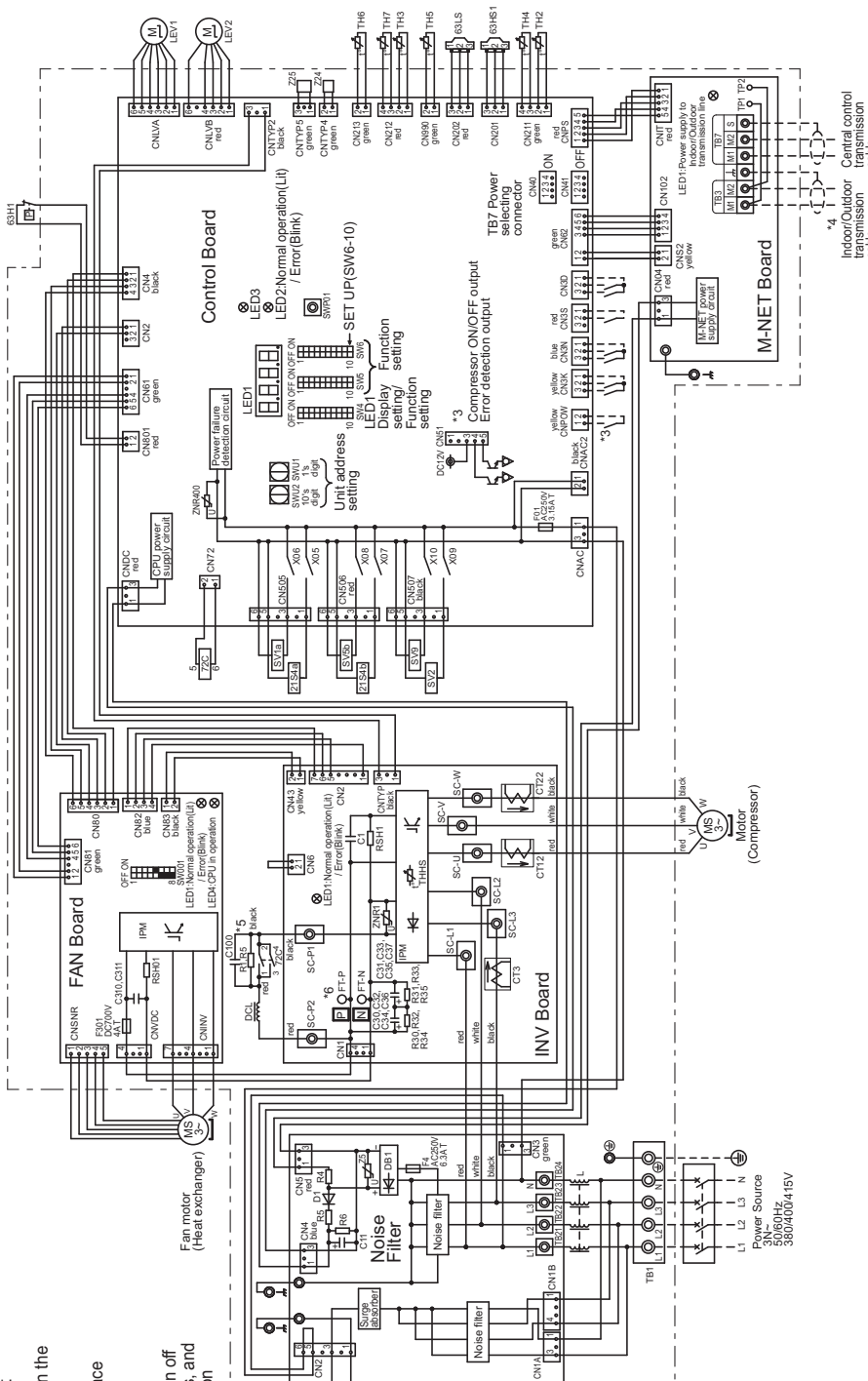
#### PUHY-EP300, 350, 400, 450YKM-A (-BS)



Unit : mm

Model	X	Y	Z
PUHY-EP300YKM-A(-BS)	692.5	323.5	708
PUHY-EP350YKM-A(-BS)	692.5	323.5	708
PUHY-EP400YKM-A(-BS)	692.5	323.5	708
PUHY-EP450YKM-A(-BS)	692.5	323.5	708

## PUHY-EP200, 250YKM-A(-BS)

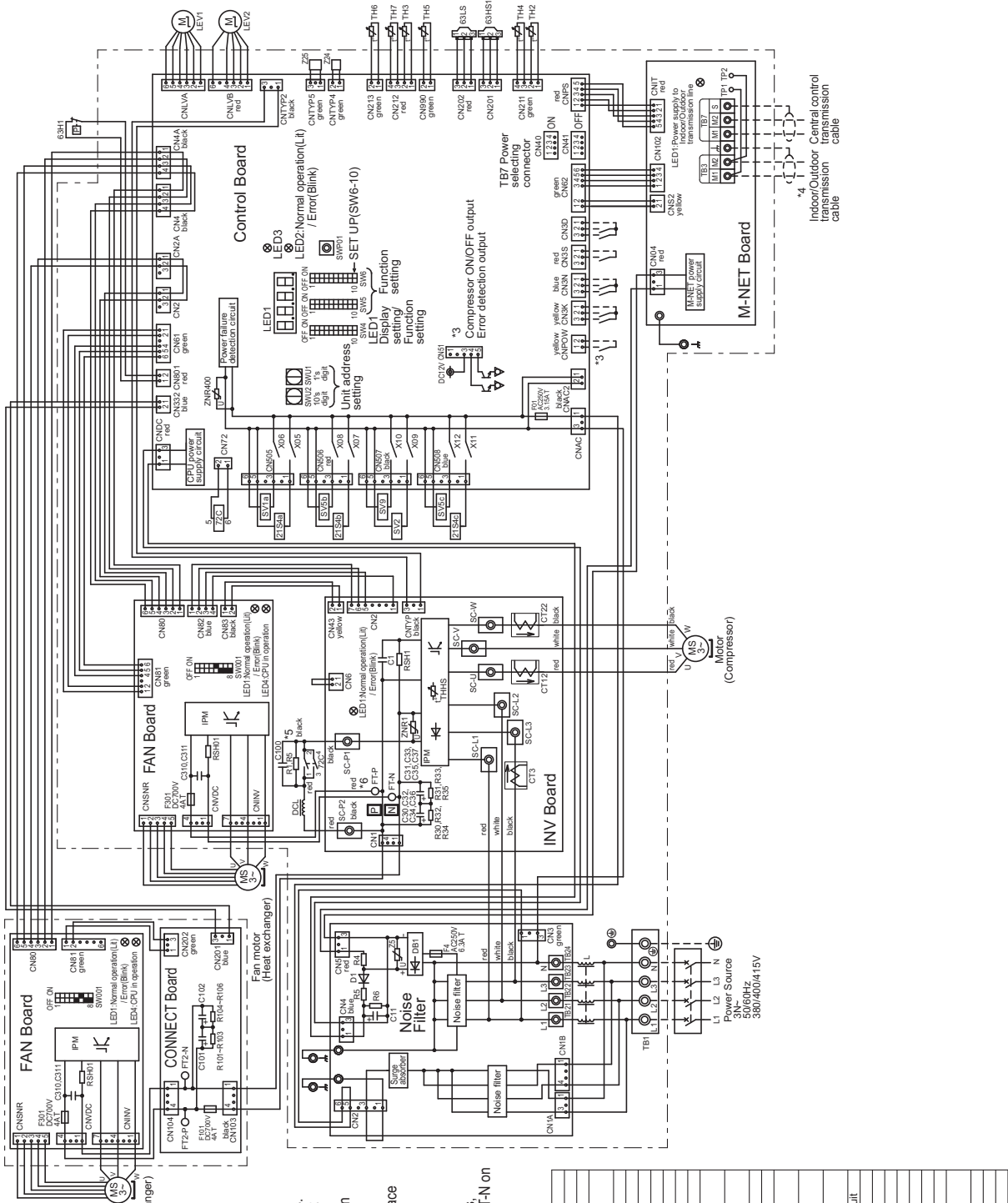


- \*1. Single-dotted lines indicate wiring not supplied with the unit.
- \*2. Dot-dash lines indicate the control box boundaries.
- \*3. Refer to the Data Book for connecting input/output signal connectors.
- \*4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- \*5. Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to removed them.
- \*6. Control box houses high-voltage parts. Before inspecting the inside of the control box, turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage between F-P and F-N on INV Board has dropped to DC20V or less.

### <Symbol explanation>

Symbol	Explanation
Z1S4a	4-way valve
63H1	Cooling/Heating switching
63H1	Heat exchanger capacity control
63H1	Pressure switch
63H1	High pressure protection for the outdoor unit
63H1	Pressure sensor
63S	Discharge pressure
63S	Low pressure
Z2C-C37	Magnetic relay (inverter main circuit)
C11Z22.3	Capacitor (inverter main circuit)
DCL	DC reactor
L	Choke coil (for high frequency noise reduction)
LEV1	Linear expansion valve
LEV2	HIC Bypass Controls refrigerant flow in HIC circuit
LEV2	Pressure control/Refrigerant flow rate control
R1.5	Resistor
RS101,RS11	Solenoid valve
SV1a	For current detection
SV1a	For opening/closing the bypass circuit under the OS
SV2	For opening/closing the discharge suction bypass
SV2	Outdoor unit heat exchanger bypass
SV5b	For opening/closing the bypass circuit
TB1	Power supply
TB3	Indoor/Outdoor transmission cable
TB7	Central control transmission cable
TH2	Subcool bypass outlet temperature
TH3	Pipe temperature
TH4	Discharge pipe temperature
TH5	ACC inlet pipe temperature
TH6	Subcooled liquid refrigerant temperature
TH7	Evaporator temperature
TH8	IPM temperature
Z24.25	Function setting connector

PUHY-EP300, 350, 400, 450YKM-A(-BS)



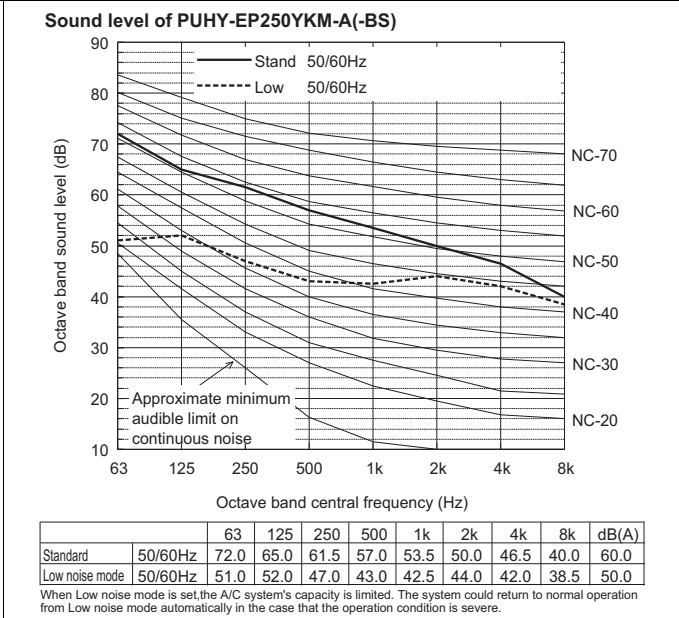
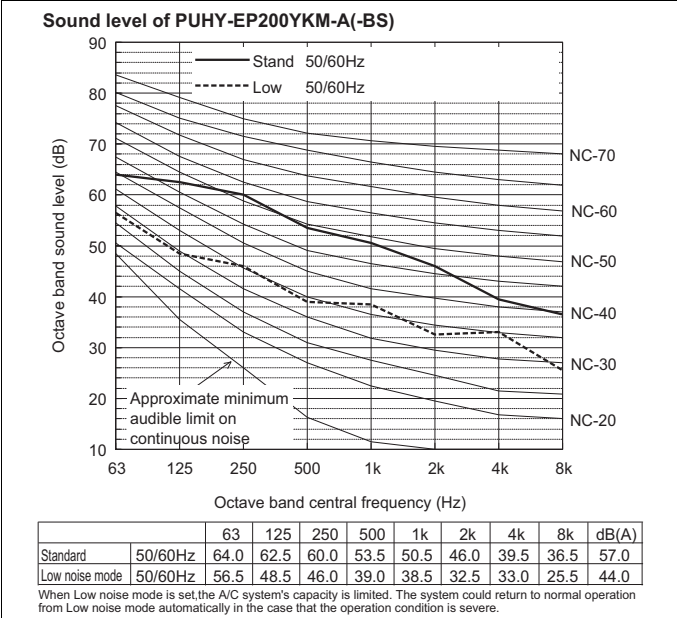
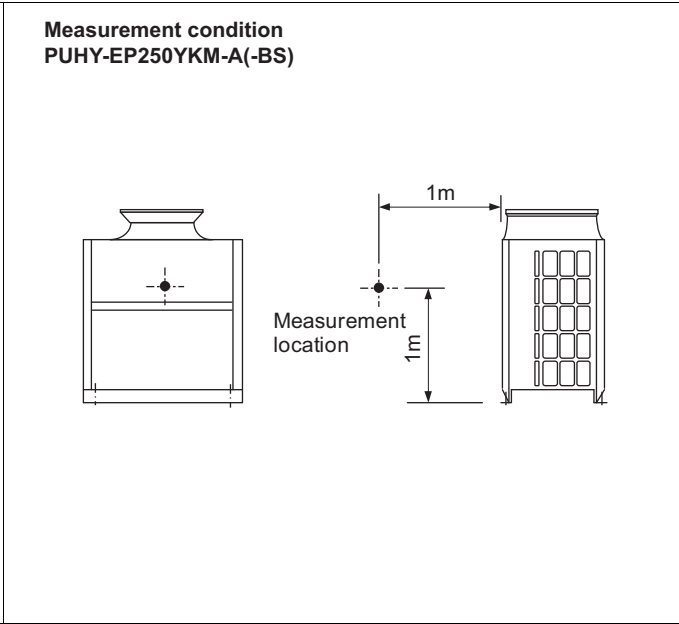
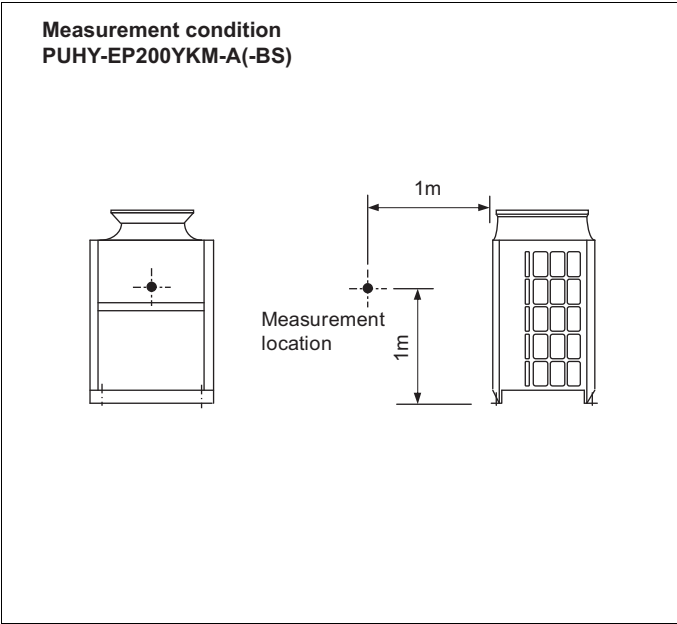
- \*1. Single-dotted lines indicate wiring not supplied with the unit.
- \*2. Dot-dash lines indicate the control box bypasses.
- \*3. Refer to the Data book for connecting input/output signal connectors.
- \*4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- \*5. Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to removed them.
- \*6. Control box houses high-voltage parts. Before inspecting the inside of the control box, turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage between FT-P and FT-N on INV Board has dropped to DC200V or less.

<Symbol explanation>

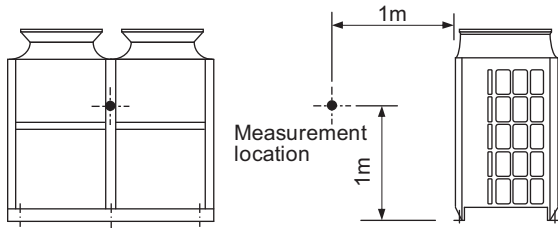
Symbol	Explanation
Z/S4a	4-way valve
Z/S4b,c	Cooling/heating switching
63H1	Heat exchanger capacity control
63H1	High pressure protection for the outdoor unit
63HS1	Pressure switch
63LS	Discharge pressure sensor
72C	Low pressure sensor
C30-C37	Magnetic relay (inverter main circuit)
CT122,3	Capacitor (inverter main circuit)
DCL	Current sensor (AC)
DCL	DC reactor
L	Choke coil (for high frequency noiser reduction)
LEV1	FHC bypass: Controls refrigerant flow in the circuit
LEV2	Pressure control: Refrigerant flow rate control
R1.5	For current detection
RS101/RS11	For opening/closing the bypass circuit under the O/S
SV1a	Solenoid valve
SV2	For opening/closing the discharge suction bypass
SV5b,c	Outdoor unit heat exchanger capacity control
SV9	For opening/closing the bypass circuit
TB1	Terminal block
TB3	Indoor/Outdoor transmission cable connector
TH2	Subcool bypass inlet temperature thermistor
TH3	Pipe temperature thermistor
TH4	Discharge pipe temperature thermistor
TH6	A/C inlet pipe temperature thermistor
TH8	Subcooled liquid refrigerant temperature thermistor
TH7	OA temperature thermistor
THHS	IPM temperature thermistor
Z24,25	Function setting connector

# 5. SOUND LEVELS

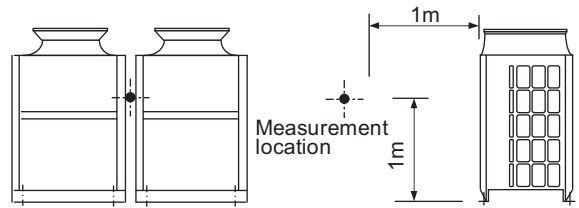
Y (HIGH COP)



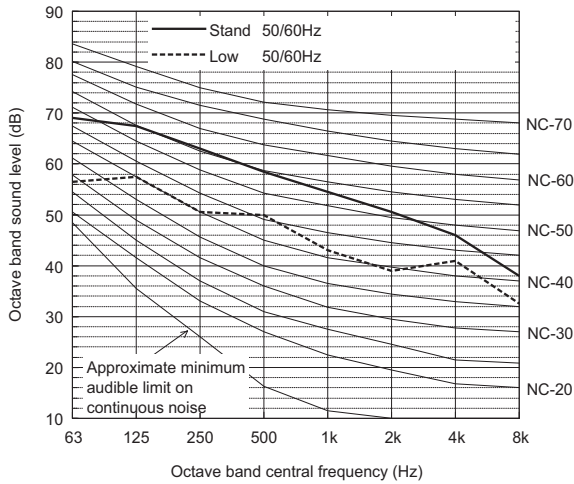
Measurement condition  
PUHY-EP300, 350, 400, 450YKM-A(-BS)



Measurement condition  
PUHY-EP400YSKM-A(-BS)



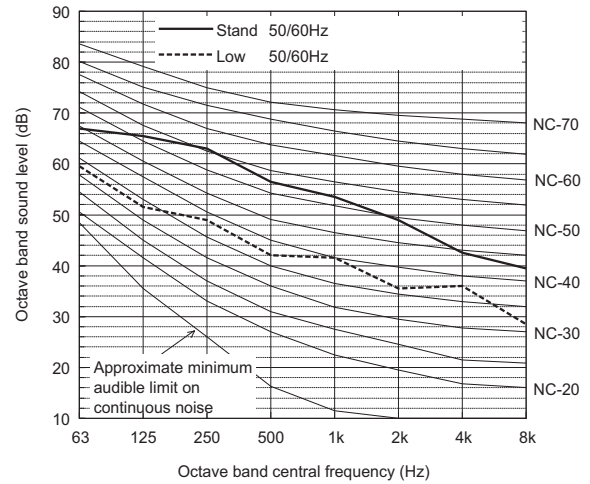
Sound level of PUHY-EP300, 350YKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	69.0	67.5	63.0	58.5	54.5	50.5	46.0	38.0	61.0
Low noise mode	50/60Hz	56.5	57.5	50.5	50.0	43.0	39.0	41.0	32.5	51.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

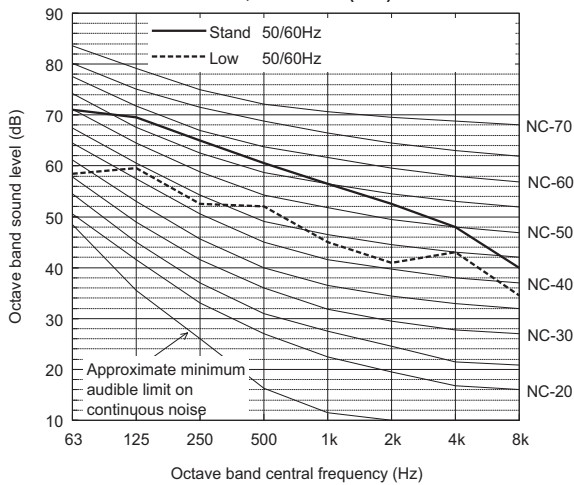
Sound level of PUHY-EP400YSKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	67.0	65.5	63.0	56.5	53.5	49.0	42.5	39.5	60.0
Low noise mode	50/60Hz	59.5	51.5	49.0	42.0	41.5	35.5	36.0	28.5	47.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Sound level of PUHY-EP400, 450YKM-A(-BS)



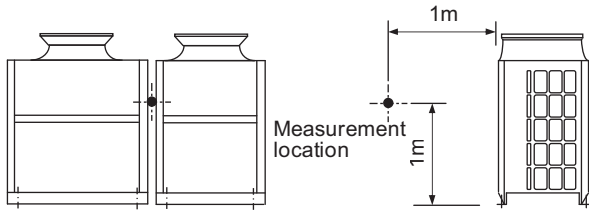
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	71.0	69.5	65.0	60.5	56.5	52.5	48.0	40.0	63.0
Low noise mode	50/60Hz	58.5	59.5	52.5	52.0	45.0	41.0	43.0	34.5	53.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

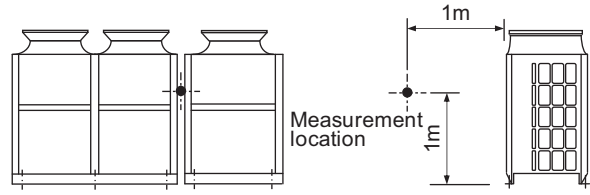
# 5. SOUND LEVELS

Y (HIGH COP)

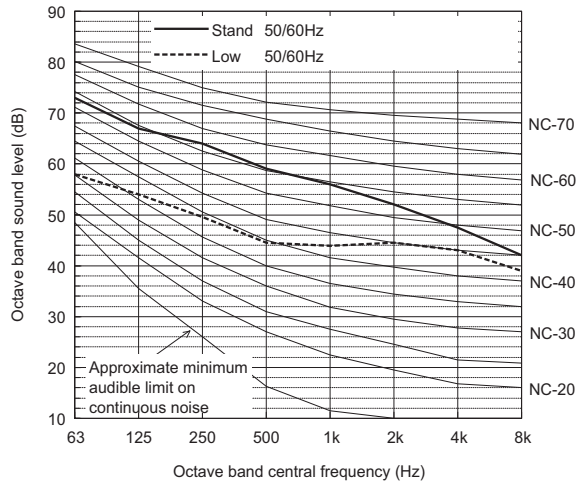
**Measurement condition  
PUHY-EP450YSKM-A(-BS)**



**Measurement condition  
PUHY-EP500YSKM-A(-BS)**



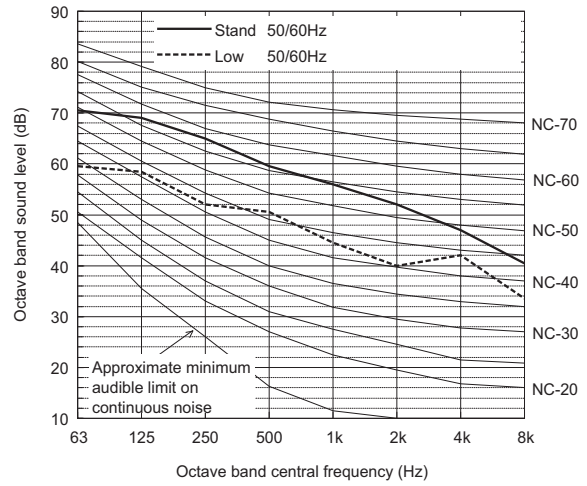
**Sound level of PUHY-EP450YSKM-A(-BS)**



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.0	67.0	64.0	59.0	56.0	52.0	47.5	42.0	62.0
Low noise mode	50/60Hz	58.0	54.0	49.5	44.5	44.0	44.5	43.0	39.0	51.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

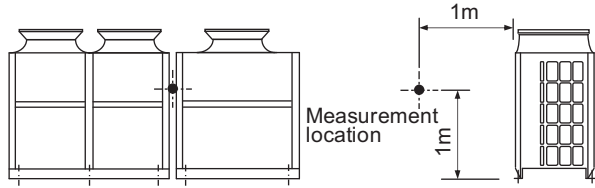
**Sound level of PUHY-EP500YSKM-A(-BS)**



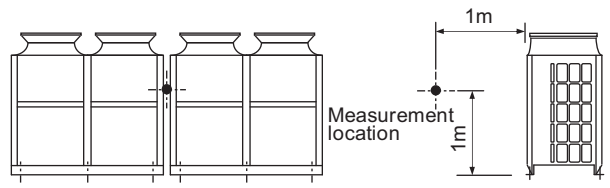
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	70.5	69.0	65.0	59.5	56.0	52.0	47.0	40.5	62.5
Low noise mode	50/60Hz	59.5	58.5	52.0	50.5	44.5	40.0	42.0	33.5	52.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

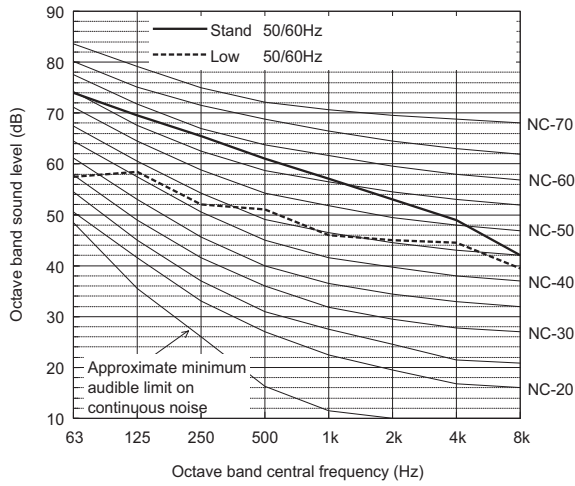
Measurement condition  
PUHY-EP550YSKM-A(-BS)



Measurement condition  
PUHY-EP600YSKM-A(-BS)



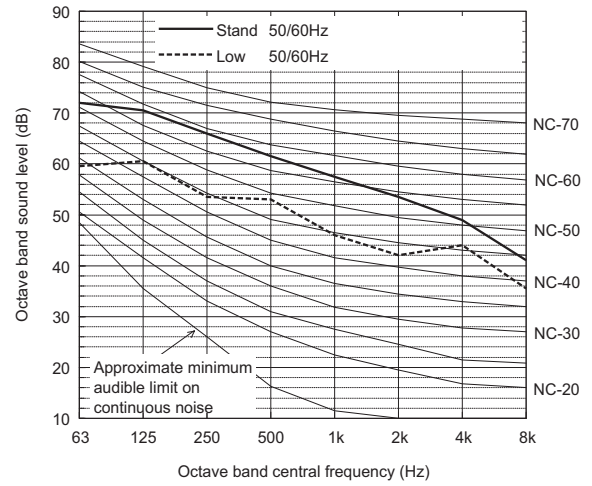
Sound level of PUHY-EP550YSKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	74.0	69.5	65.5	61.0	57.0	53.0	49.0	42.0	63.5
Low noise mode	50/60Hz	57.5	58.5	52.0	51.0	46.0	45.0	44.5	39.5	53.5

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Sound level of PUHY-EP600YSKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.0	70.5	66.0	61.5	57.5	53.5	49.0	41.0	64.0
Low noise mode	50/60Hz	59.5	60.5	53.5	53.0	46.0	42.0	44.0	35.5	54.0

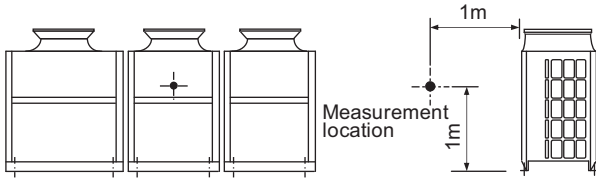
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.



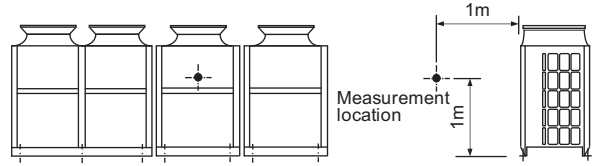
# 5. SOUND LEVELS

Y (HIGH COP)

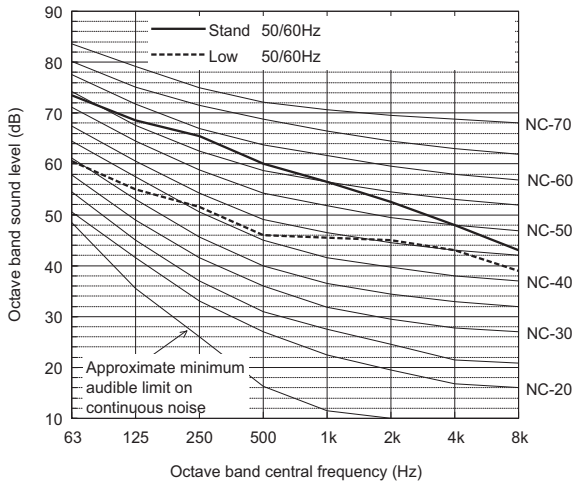
**Measurement condition  
PUHY-EP650YSKM-A(-BS)**



**Measurement condition  
PUHY-EP700YSKM-A(-BS)**



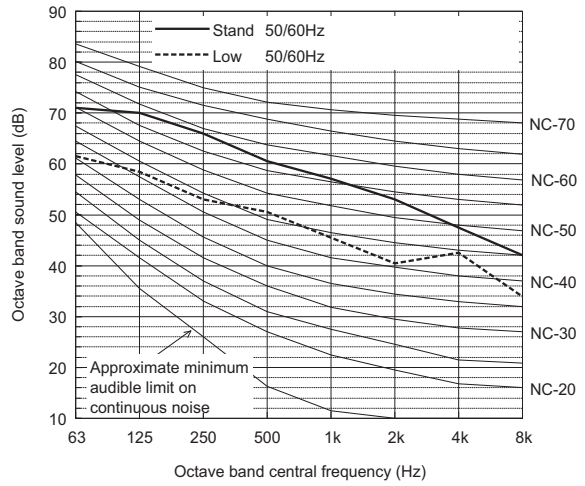
**Sound level of PUHY-EP650YSKM-A(-BS)**



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.5	68.5	65.5	60.0	56.5	52.5	48.0	43.0	63.0
Low noise mode	50/60Hz	60.5	55.0	51.5	46.0	45.5	45.0	43.0	39.0	52.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

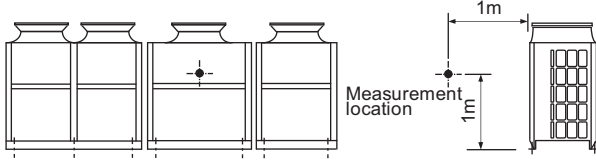
**Sound level of PUHY-EP700YSKM-A(-BS)**



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	71.0	70.0	66.0	60.5	57.0	53.0	47.5	42.0	63.5
Low noise mode	50/60Hz	61.5	58.5	53.0	50.5	45.5	40.5	42.5	34.0	52.5

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

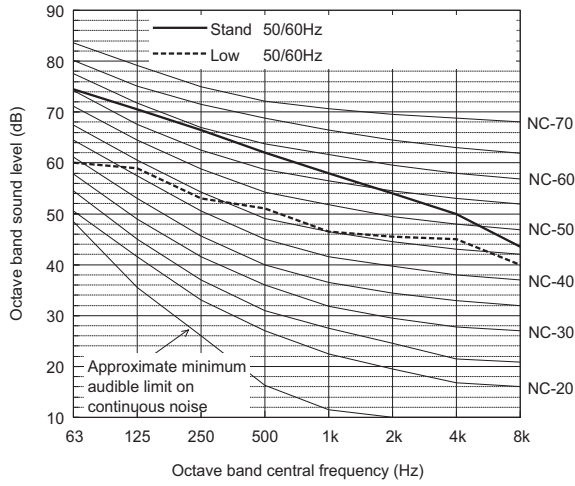
Measurement condition  
PUHY-EP750YSKM-A(-BS)



Measurement condition  
PUHY-EP800YSKM-A(-BS)



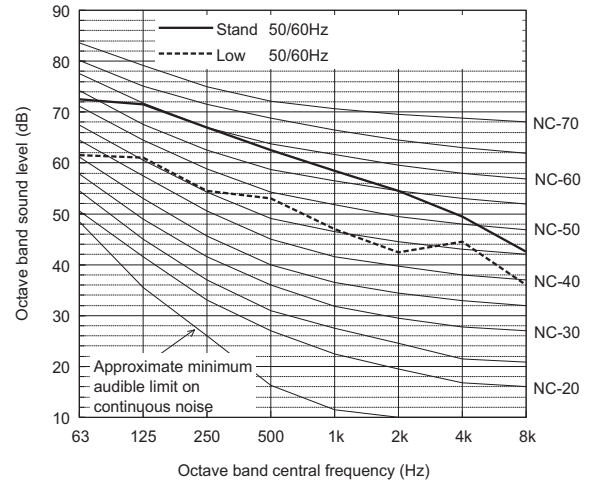
Sound level of PUHY-EP750YSKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	74.5	70.5	66.5	62.0	58.0	54.0	50.0	43.5	64.5
Low noise mode	50/60Hz	60.0	59.0	53.0	51.0	46.5	45.5	45.0	40.0	54.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Sound level of PUHY-EP800YSKM-A(-BS)



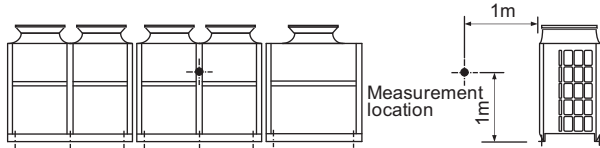
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	71.5	67.0	62.5	58.5	54.5	49.5	42.5	65.0
Low noise mode	50/60Hz	61.5	61.0	54.5	53.0	47.0	42.5	44.5	36.0	54.5

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

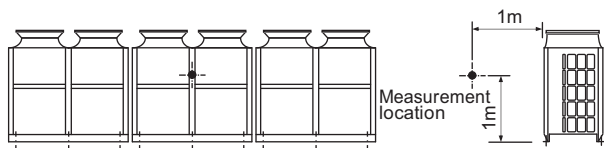
# 5. SOUND LEVELS

Y (HIGH COP)

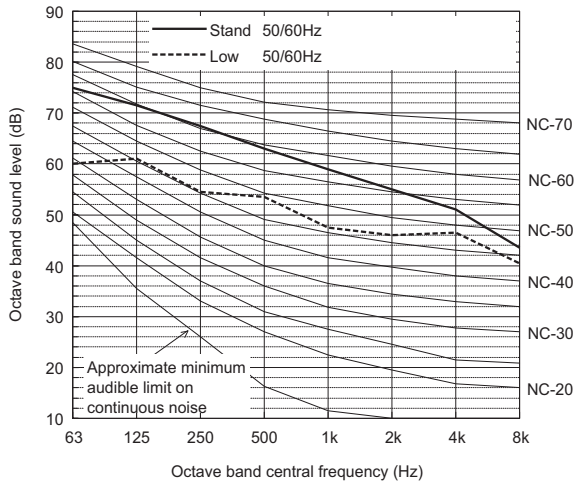
**Measurement condition  
PUHY-EP850YSKM-A(-BS)**



**Measurement condition  
PUHY-EP900YSKM-A(-BS)**



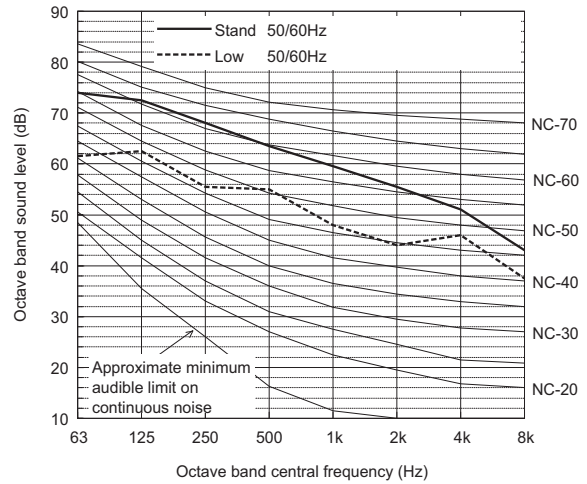
**Sound level of PUHY-EP850YSKM-A(-BS)**



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	71.5	67.5	63.0	59.0	55.0	51.0	43.5	65.5
Low noise mode	50/60Hz	60.0	61.0	54.5	53.5	47.5	46.0	46.5	40.5	55.5

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

**Sound level of PUHY-EP900YSKM-A(-BS)**



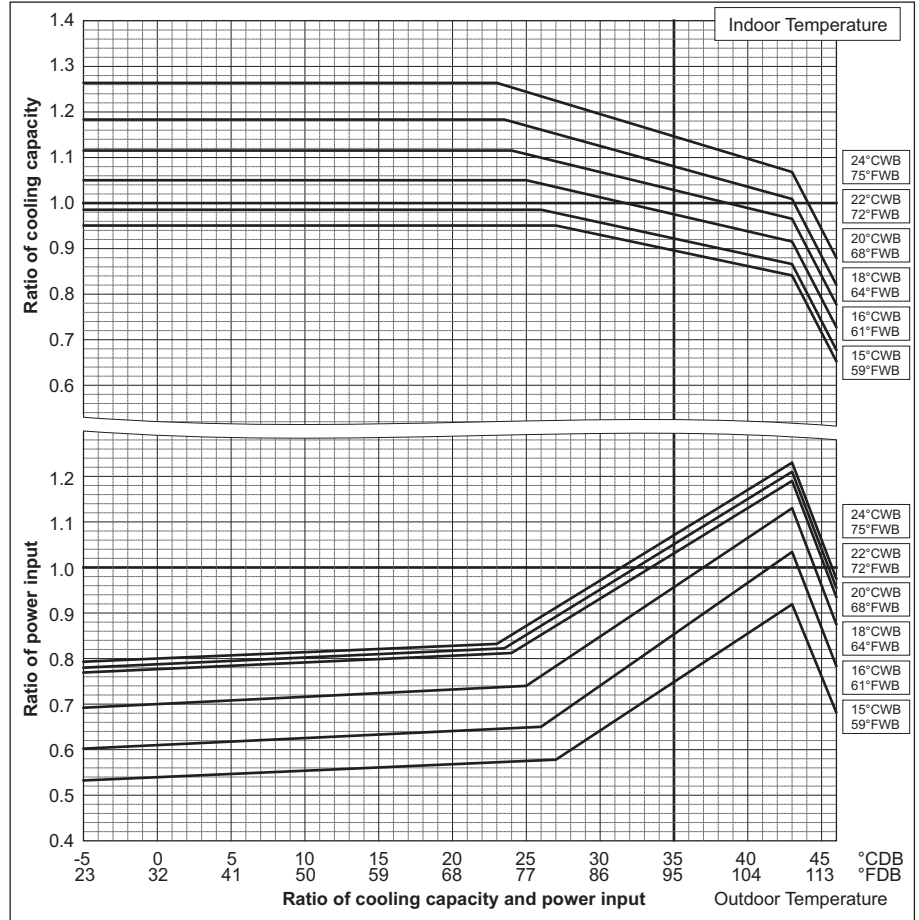
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	74.0	72.5	68.0	63.5	59.5	55.5	51.0	43.0	66.0
Low noise mode	50/60Hz	61.5	62.5	55.5	55.0	48.0	44.0	46.0	37.5	56.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

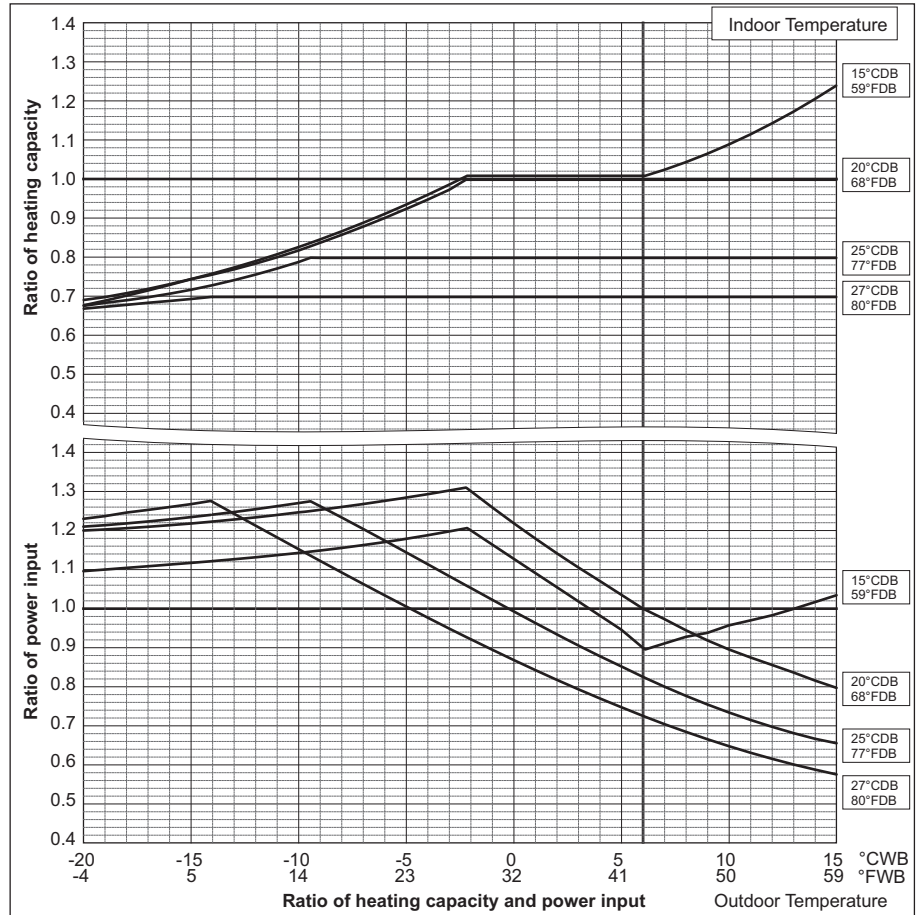
6-1. Correction by temperature

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-		EP200YKM-A	EP250YKM-A
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.50	6.89



PUHY-		EP200YKM-A	EP250YKM-A
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	5.76	7.50

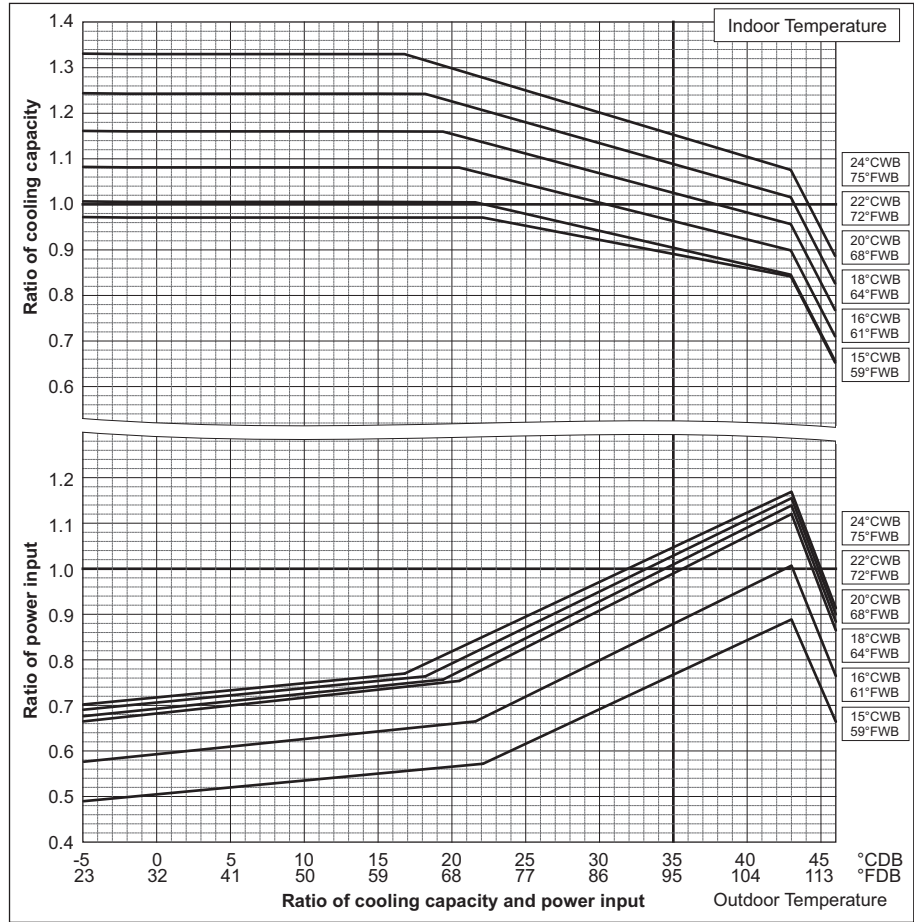


# 6. CAPACITY TABLES

Y (HIGH COP)

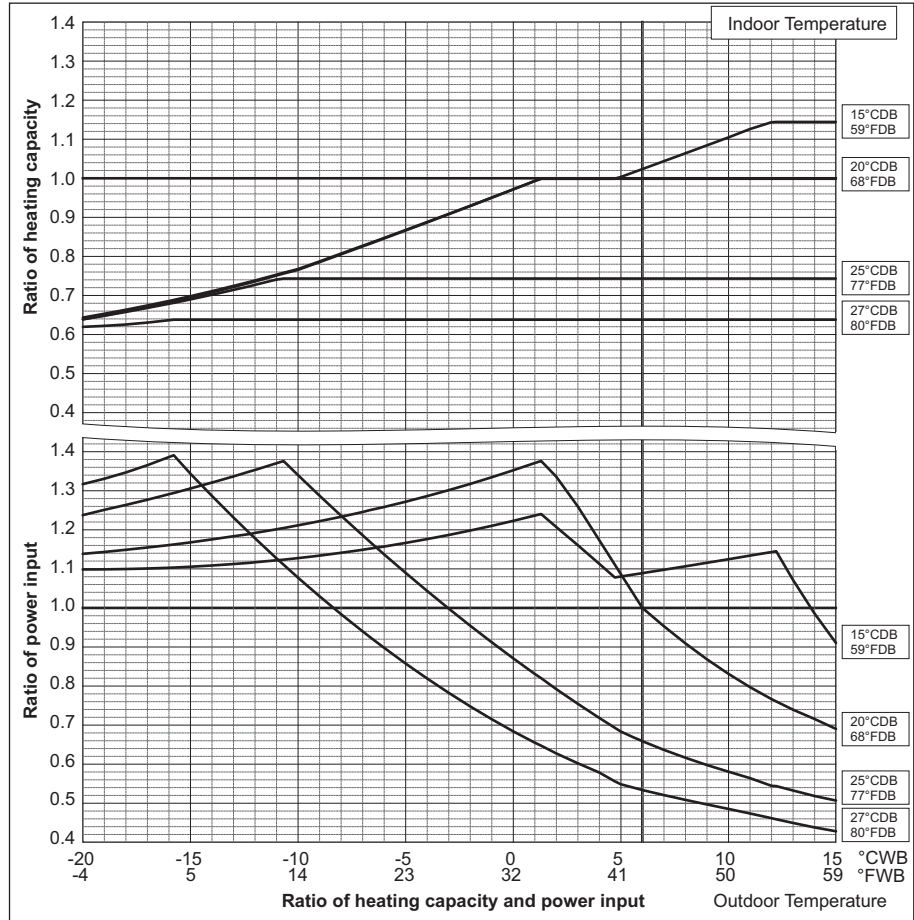
PUHY-		EP300YKM-A	EP350YKM-A
Nominal Cooling Capacity	kW	33.5	40.0
	BTU/h	114,300	136,500
Input	kW	8.17	10.92

PUHY-		EP400YKM-A	EP400YSKM-A
Nominal Cooling Capacity	kW	45.0	45.0
	BTU/h	153,500	153,500
Input	kW	12.93	11.65



PUHY-		EP300YKM-A	EP350YKM-A
Nominal Heating Capacity	kW	37.5	45.0
	BTU/h	128,000	153,500
Input	kW	9.30	12.16

PUHY-		EP400YKM-A	EP400YSKM-A
Nominal Cooling Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	13.66	12.13

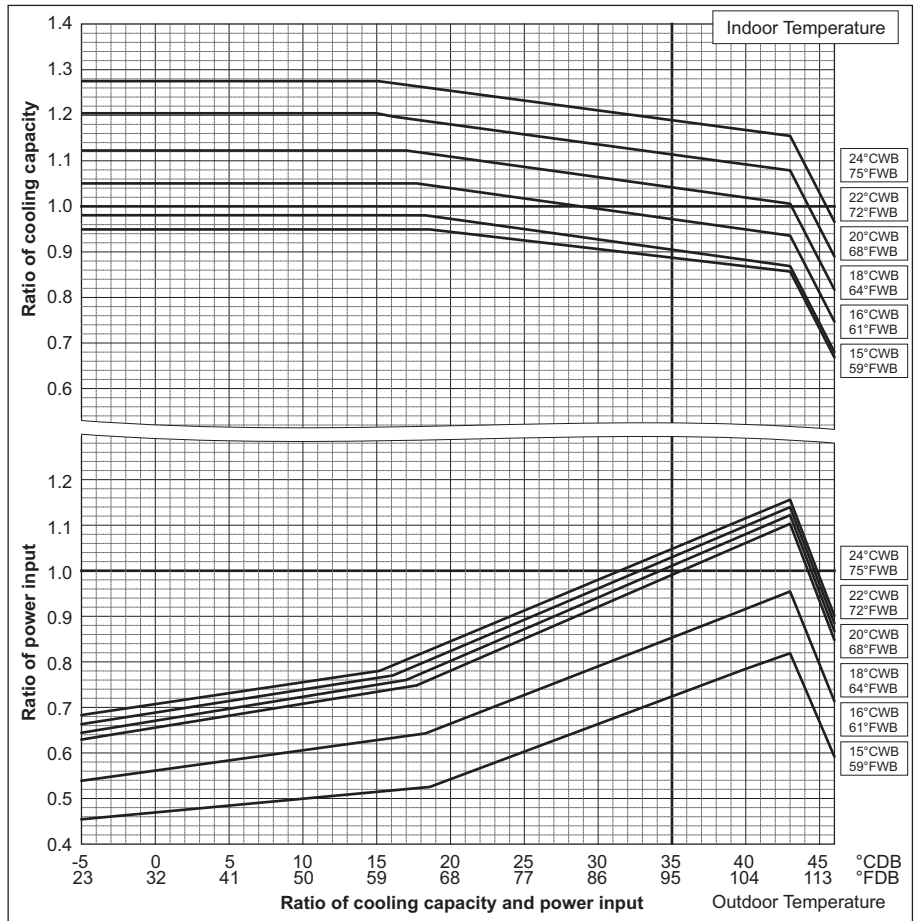


# 6. CAPACITY TABLES

PUHY-		EP450YKM-A	EP450YSKM-A
Nominal Cooling Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	15.29	12.95

PUHY-		EP500YSKM-A	EP550YSKM-A
Nominal Cooling Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	14.43	16.27

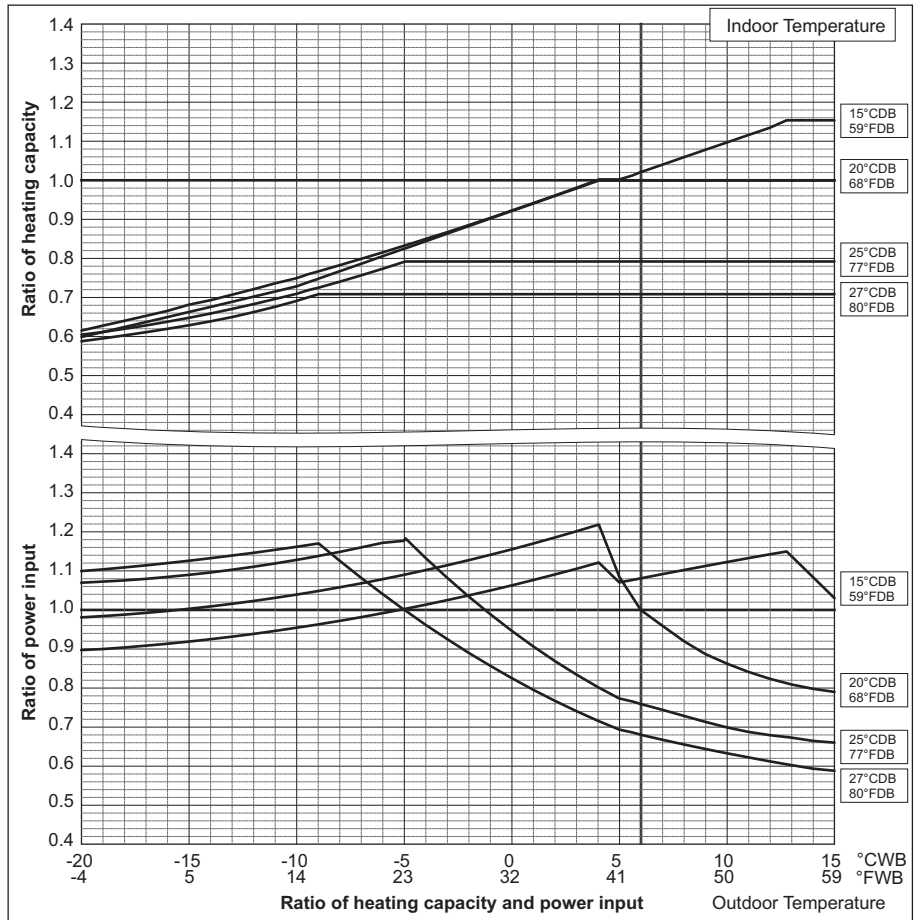
PUHY-		EP600YSKM-A	EP650YSKM-A
Nominal Cooling Capacity	kW	69.0	73.0
	BTU/h	235,400	249,100
Input	kW	17.73	18.91



PUHY-		EP450YKM-A	EP450YSKM-A
Nominal Heating Capacity	kW	50.0	56.0
	BTU/h	170,600	191,000
Input	kW	13.51	13.82

PUHY-		EP500YSKM-A	EP550YSKM-A
Nominal Heating Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	15.86	17.69

PUHY-		EP600YSKM-A	EP650YSKM-A
Nominal Heating Capacity	kW	76.5	81.5
	BTU/h	261,000	278,100
Input	kW	20.02	20.02

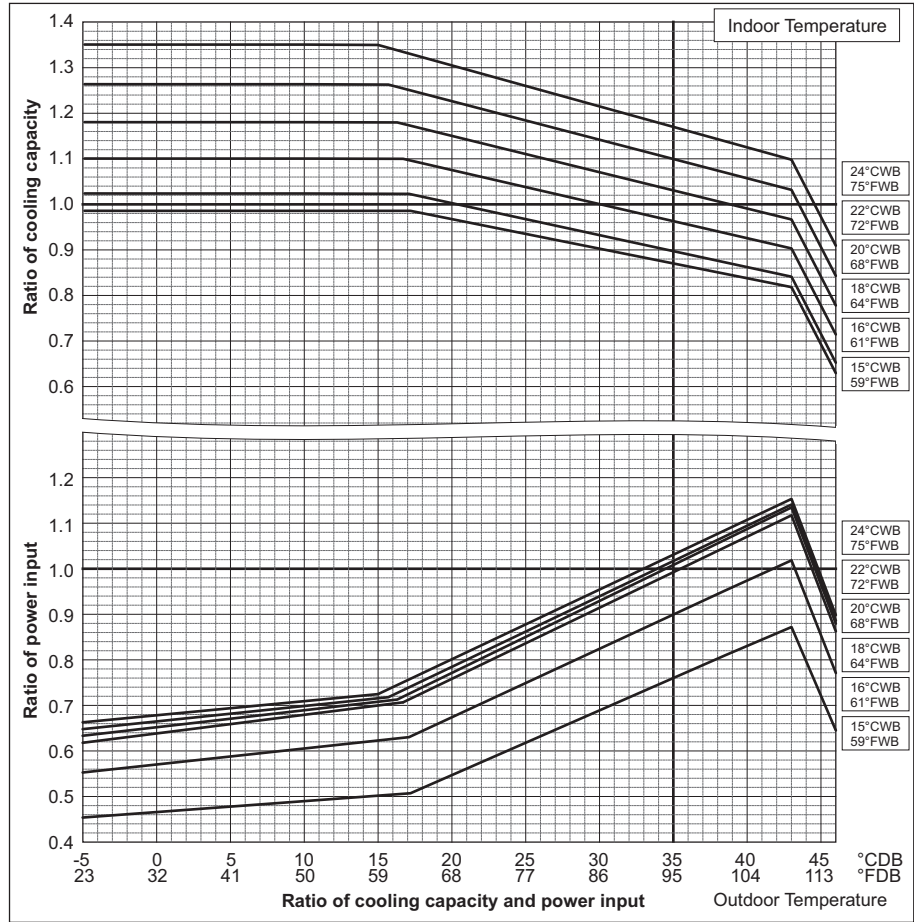


# 6. CAPACITY TABLES

Y (HIGH COP)

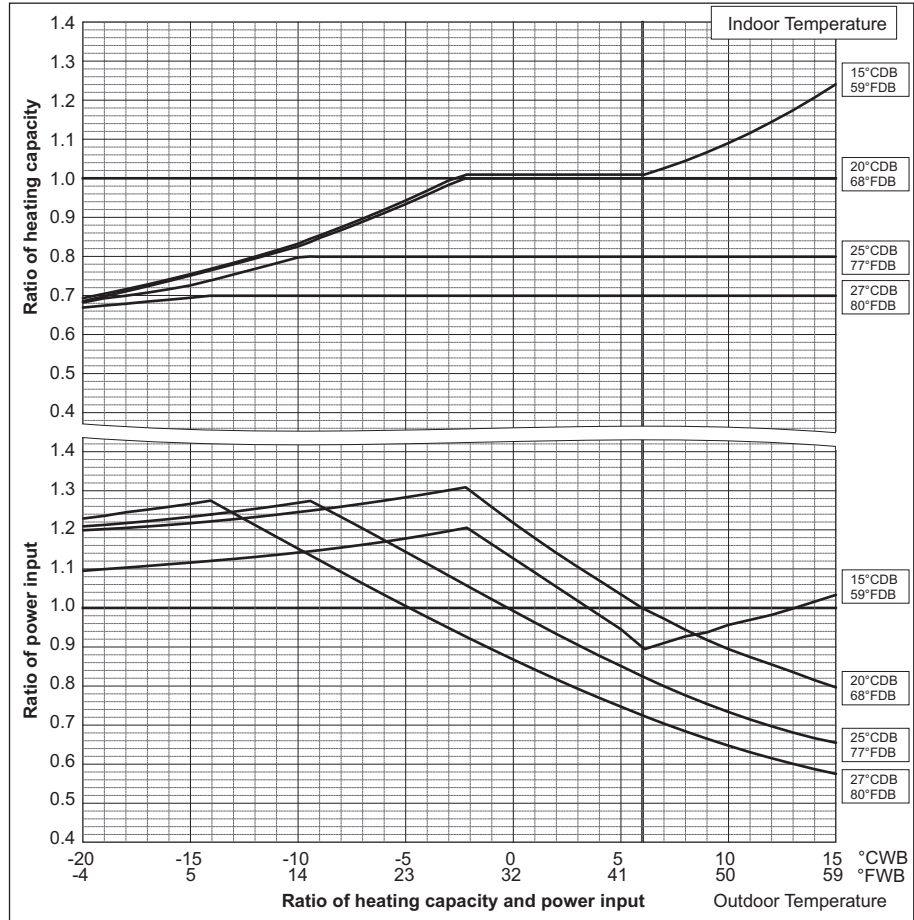
PUHY-		EP700YSKM-A	EP750YSKM-A
Nominal Cooling Capacity	kW	80.0	85.0
	BTU/h	273,000	290,000
Input	kW	20.67	21.96

PUHY-		EP800YSKM-A
Nominal Cooling Capacity	kW	90.0
	BTU/h	307,100
Input	kW	23.19



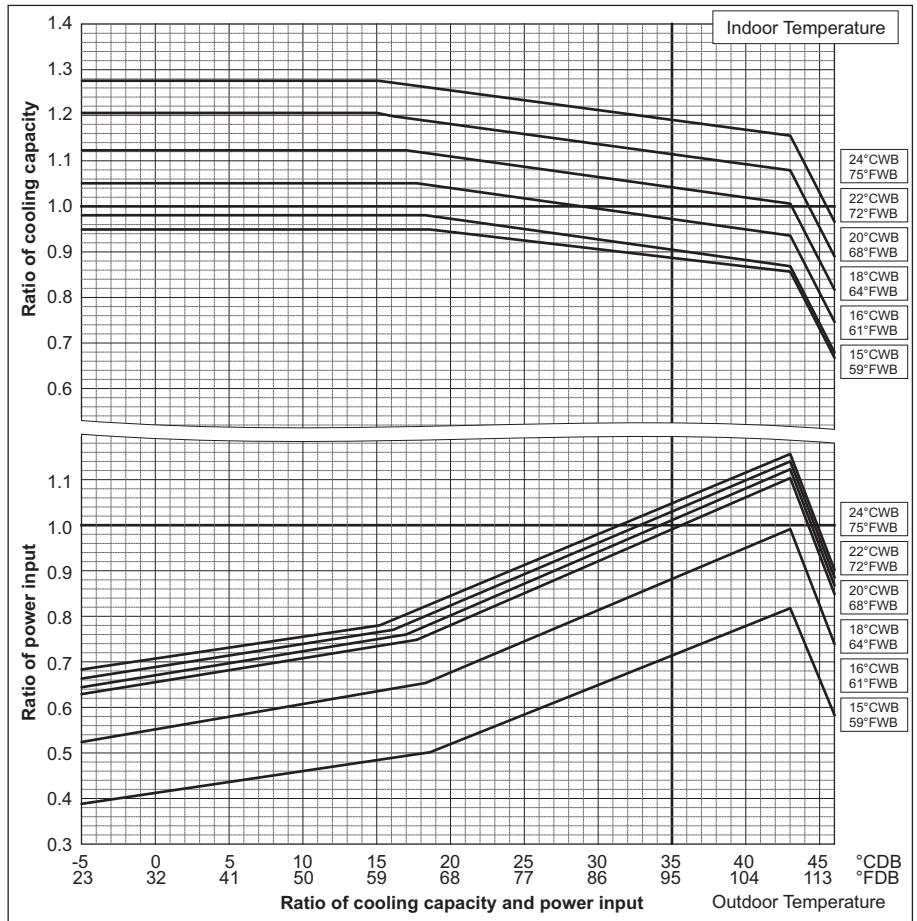
PUHY-		EP700YSKM-A	EP750YSKM-A
Nominal Heating Capacity	kW	88.0	95.0
	BTU/h	300,300	324,100
Input	kW	21.89	23.86

PUHY-		EP800YSKM-A
Nominal Heating Capacity	kW	100.0
	BTU/h	341,200
Input	kW	25.51

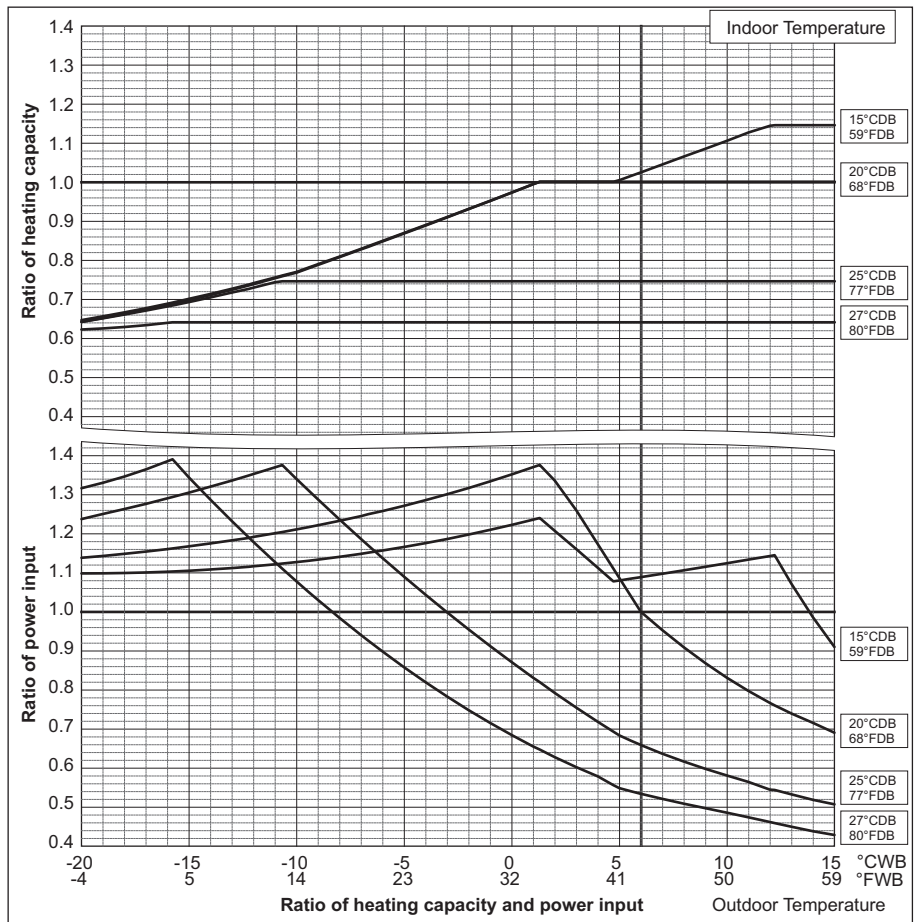


# 6. CAPACITY TABLES

PUHY-		EP850YSKM-A	EP900YSKM-A
Nominal Cooling Capacity	kW	96.0	101.0
	BTU/h	327,600	344,600
Input	kW	24.74	25.96



PUHY-		EP850YSKM-A	EP900YSKM-A
Nominal Heating Capacity	kW	108.0	113.0
	BTU/h	368,500	385,600
Input	kW	27.83	29.58





# 6. CAPACITY TABLES

Y (HIGH COP)

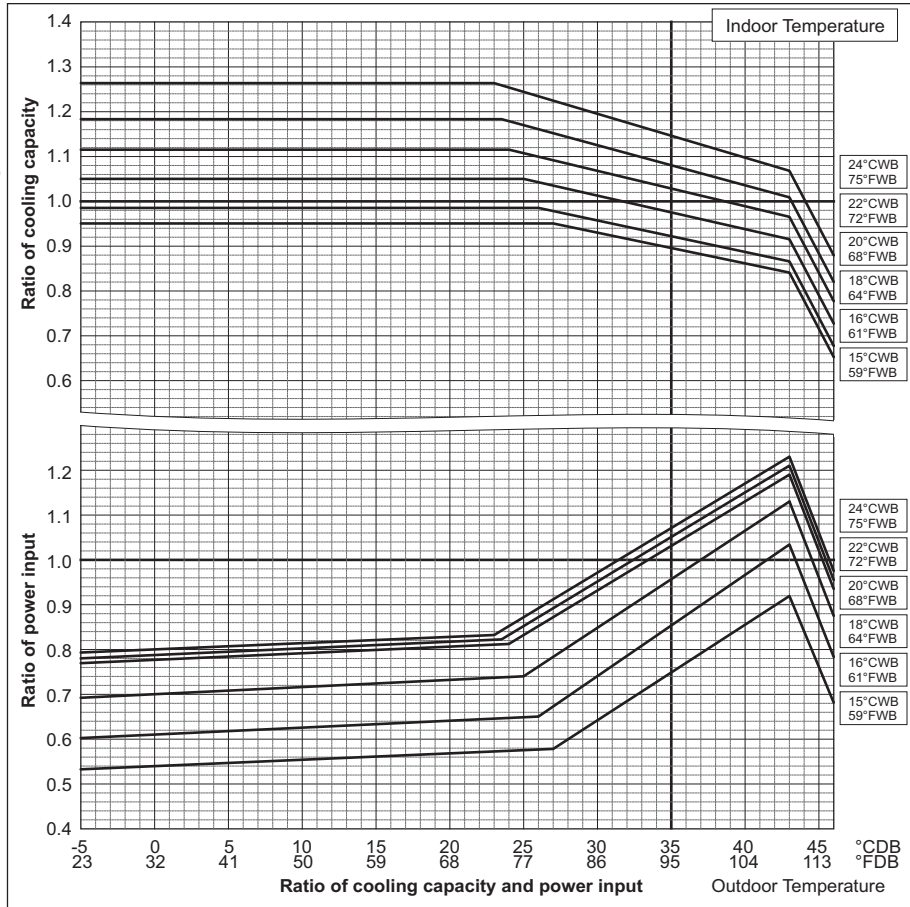
## Correction by temperature (COP Priority Mode)

CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

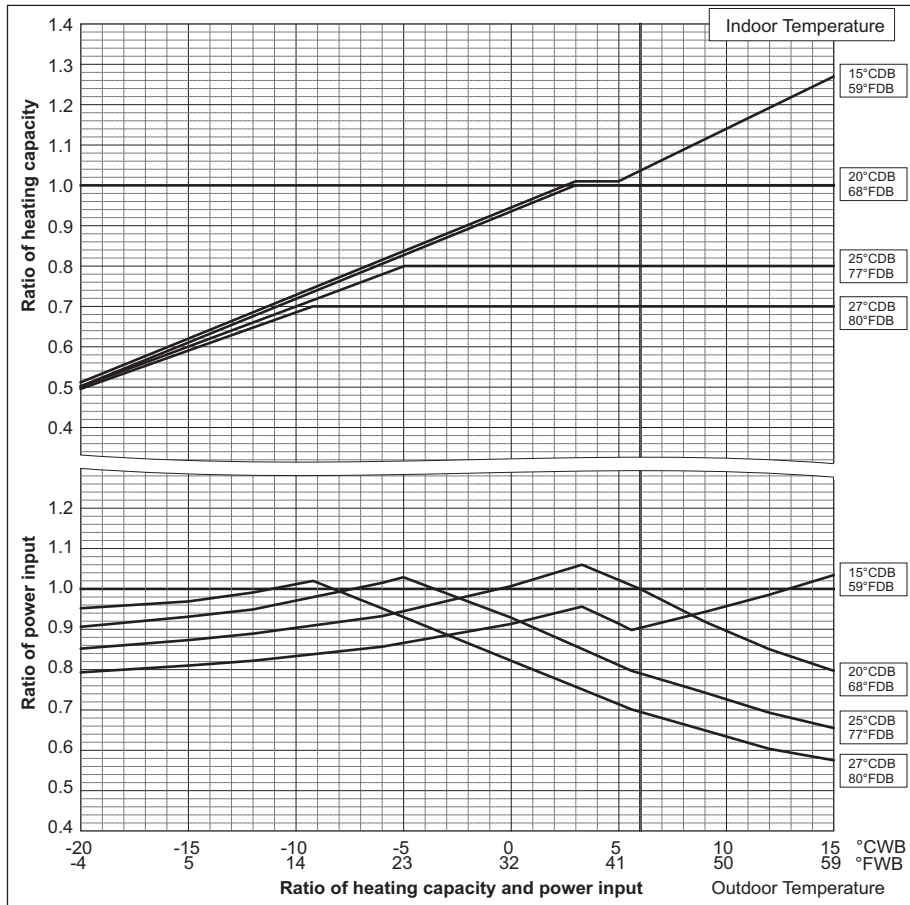
To select COP priority mode, DipSW 6-2 must be set to ON.

PUHY-	EP200YKM-A	EP250YKM-A
Nominal Cooling Capacity	kW 22.4	kW 28.0
	BTU/h 76,400	BTU/h 95,500
Input	kW 5.50	kW 6.89

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PUHY-	EP200YKM-A	EP250YKM-A
Nominal Heating Capacity	kW 25.0	kW 31.5
	BTU/h 85,300	BTU/h 107,500
Input	kW 5.76	kW 7.50

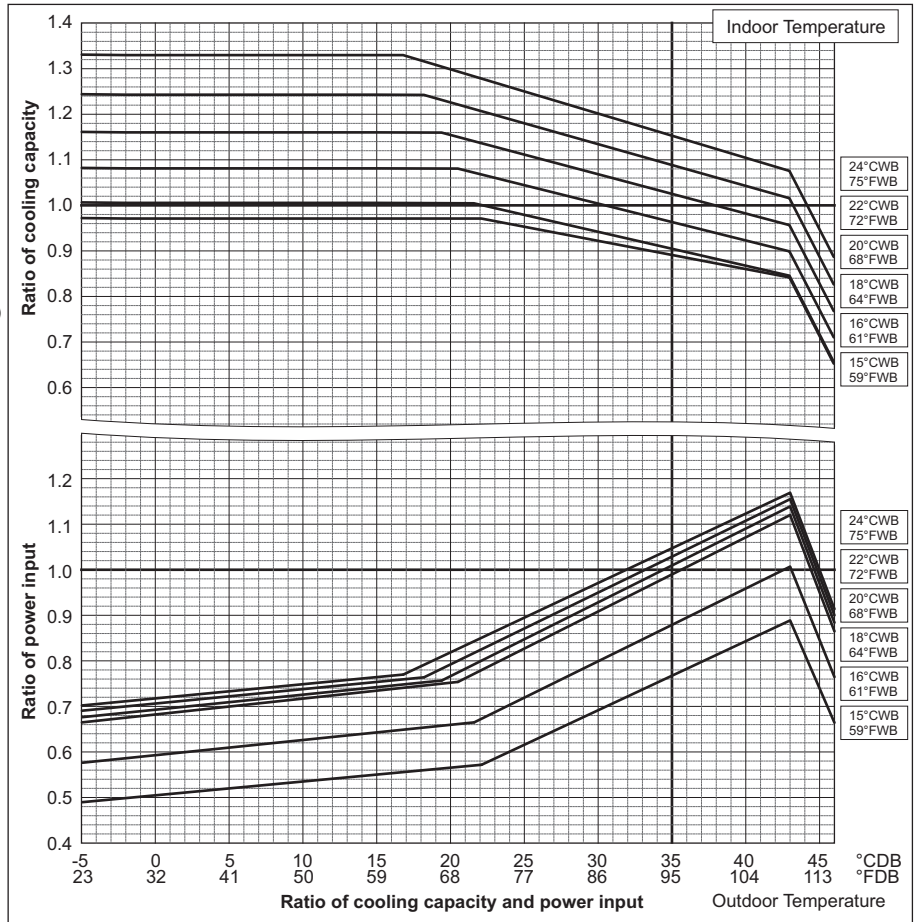


# 6. CAPACITY TABLES

PUHY-		EP300YKM-A	EP350YKM-A
Nominal Cooling Capacity	kW	33.5	40.0
	BTU/h	114,300	136,500
Input	kW	8.17	10.92

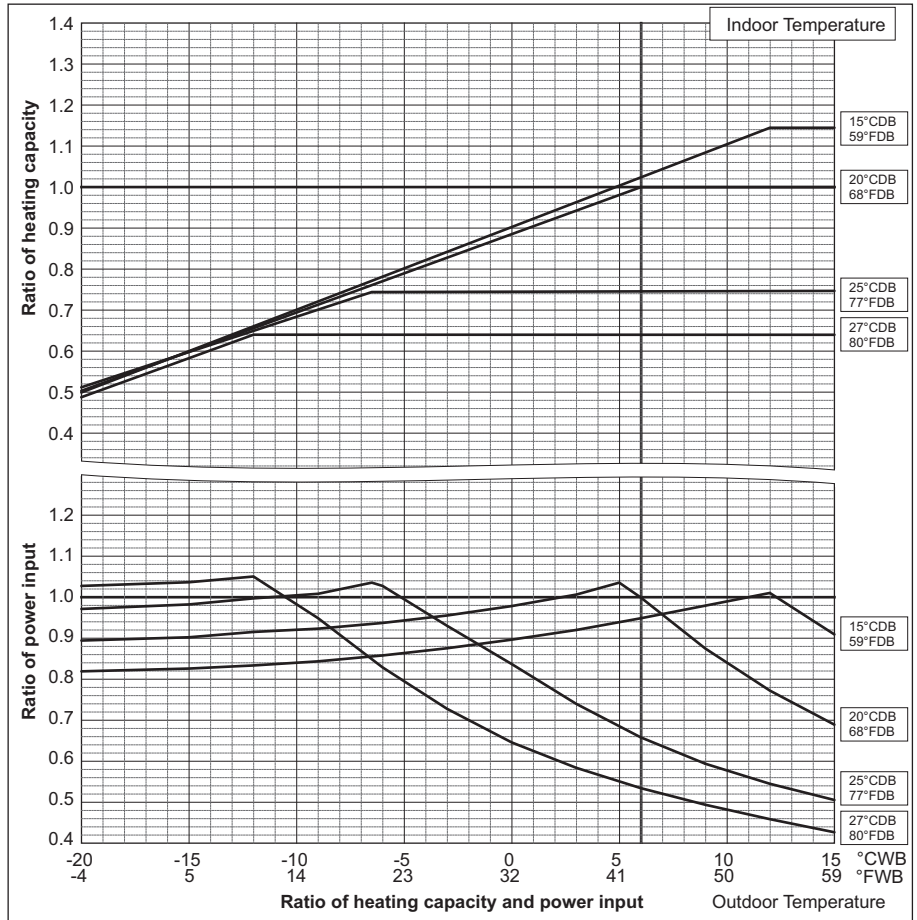
PUHY-		EP400YKM-A	EP400YSKM-A
Nominal Cooling Capacity	kW	45.0	45.0
	BTU/h	153,500	153,500
Input	kW	12.93	11.65

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PUHY-		EP300YKM-A	EP350YKM-A
Nominal Heating Capacity	kW	37.5	45.0
	BTU/h	128,000	153,500
Input	kW	9.30	12.16

PUHY-		EP400YKM-A	EP400YSKM-A
Nominal Heating Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	13.66	12.13



# 6. CAPACITY TABLES

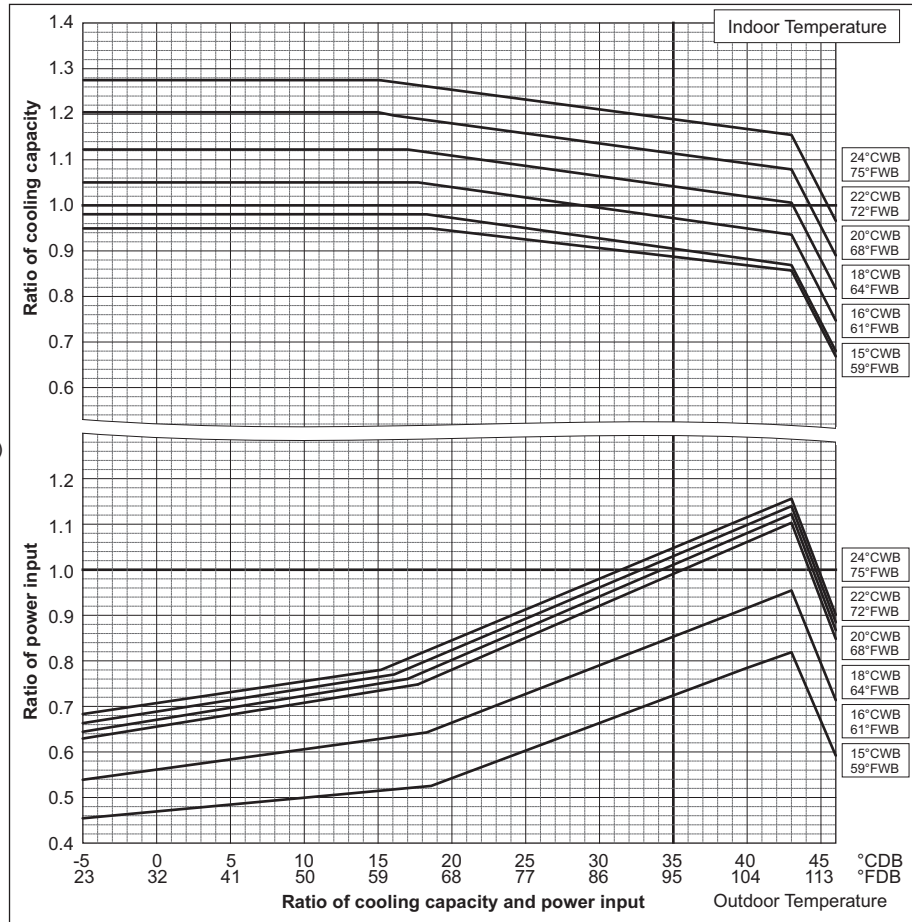
Y (HIGH COP)

PUHY-		EP450YKM-A	EP450YSKM-A
Nominal Cooling Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	15.29	12.95

PUHY-		EP500YSKM-A	EP550YSKM-A
Nominal Cooling Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	14.43	16.27

PUHY-		EP600YSKM-A	EP650YSKM-A
Nominal Cooling Capacity	kW	69.0	73.0
	BTU/h	235,400	249,100
Input	kW	17.73	18.91

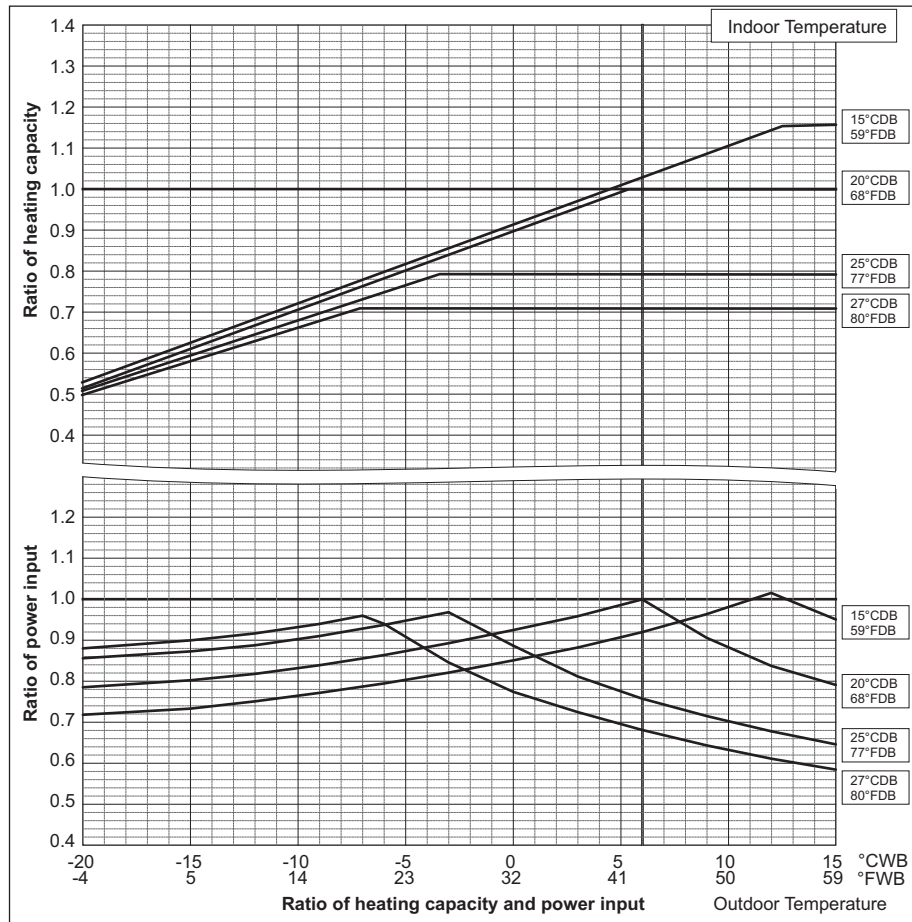
(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PUHY-		EP450YKM-A	EP450YSKM-A
Nominal Heating Capacity	kW	50.0	56.0
	BTU/h	170,600	191,000
Input	kW	13.51	13.82

PUHY-		EP500YSKM-A	EP550YSKM-A
Nominal Heating Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	15.86	17.69

PUHY-		EP600YSKM-A	EP650YSKM-A
Nominal Heating Capacity	kW	76.5	81.5
	BTU/h	261,000	278,100
Input	kW	20.02	20.02



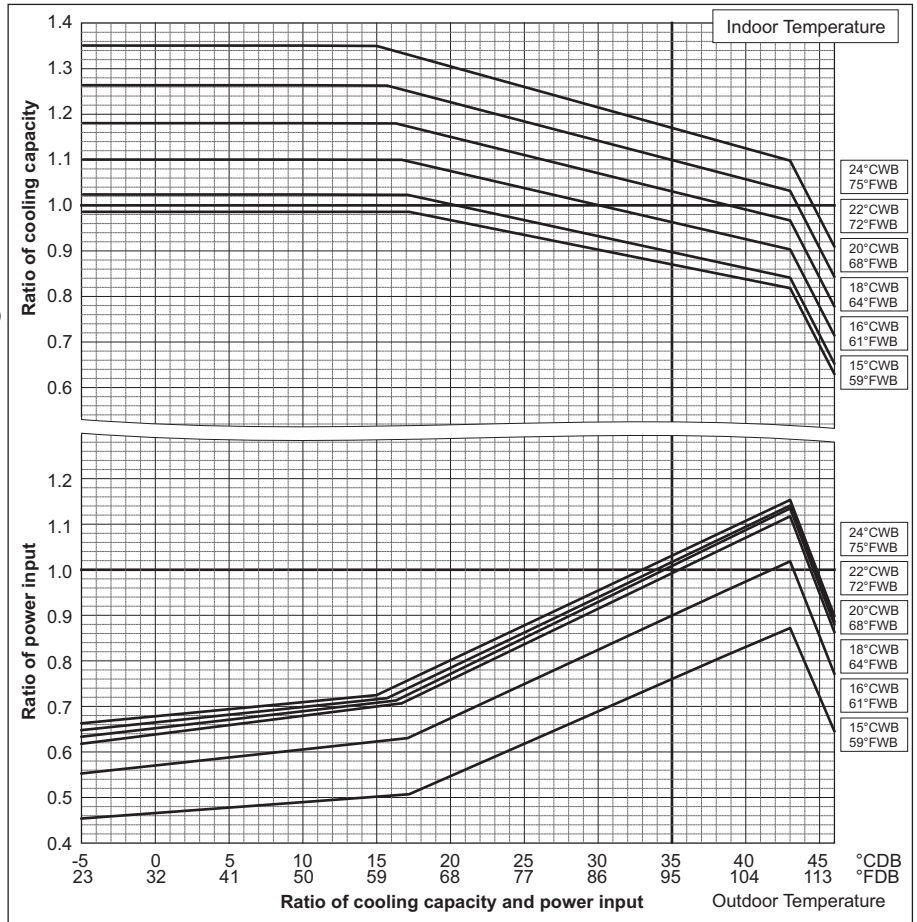
# 6. CAPACITY TABLES

Y (HIGH COP)

PUHY-		EP700YSKM-A	EP750YSKM-A
Nominal Cooling Capacity	kW	80.0	85.0
	BTU/h	273,000	290,000
Input	kW	20.67	21.96

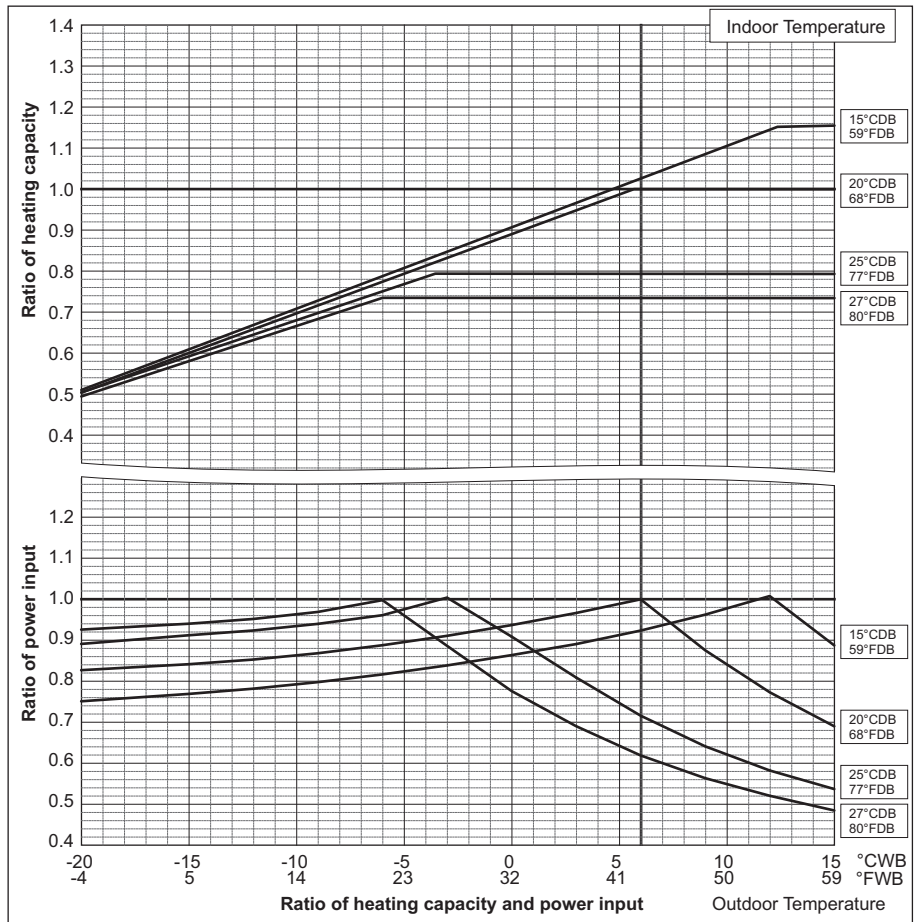
PUHY-		EP800YSKM-A
Nominal Cooling Capacity	kW	90.0
	BTU/h	307,100
Input	kW	23.19

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PUHY-		EP700YSKM-A	EP750YSKM-A
Nominal Heating Capacity	kW	88.0	95.0
	BTU/h	300,300	324,100
Input	kW	21.89	23.86

PUHY-		EP800YSKM-A
Nominal Heating Capacity	kW	100.0
	BTU/h	341,200
Input	kW	25.51



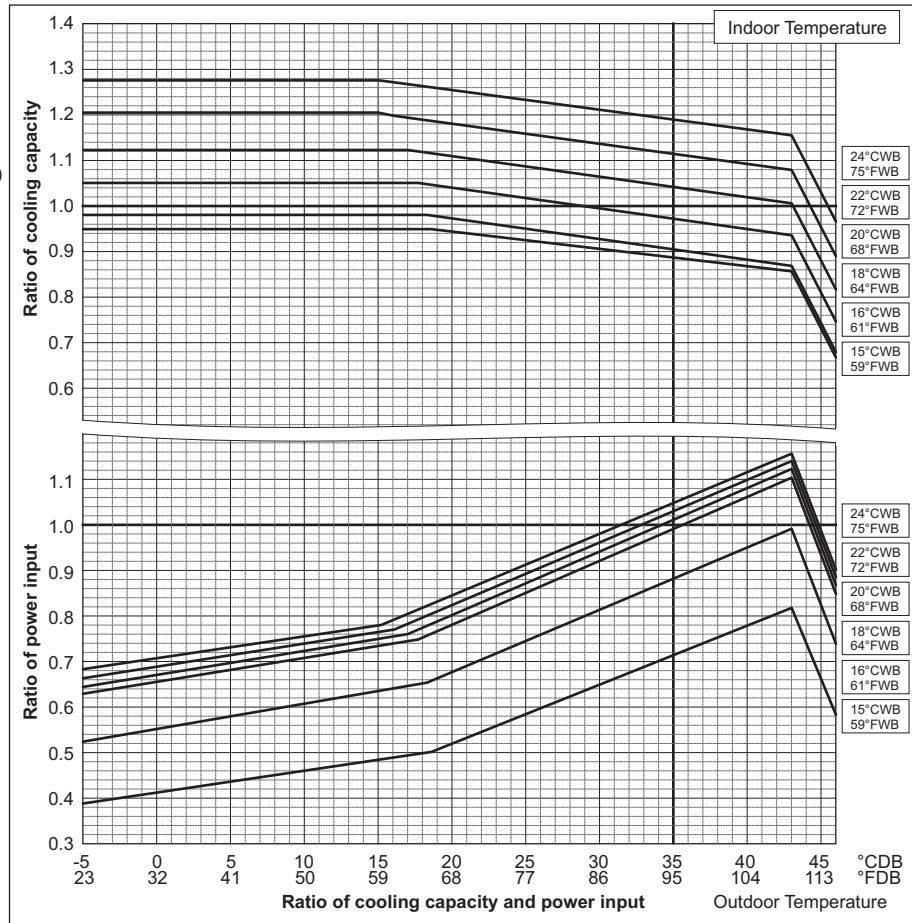
# 6. CAPACITY TABLES

EP-YKM

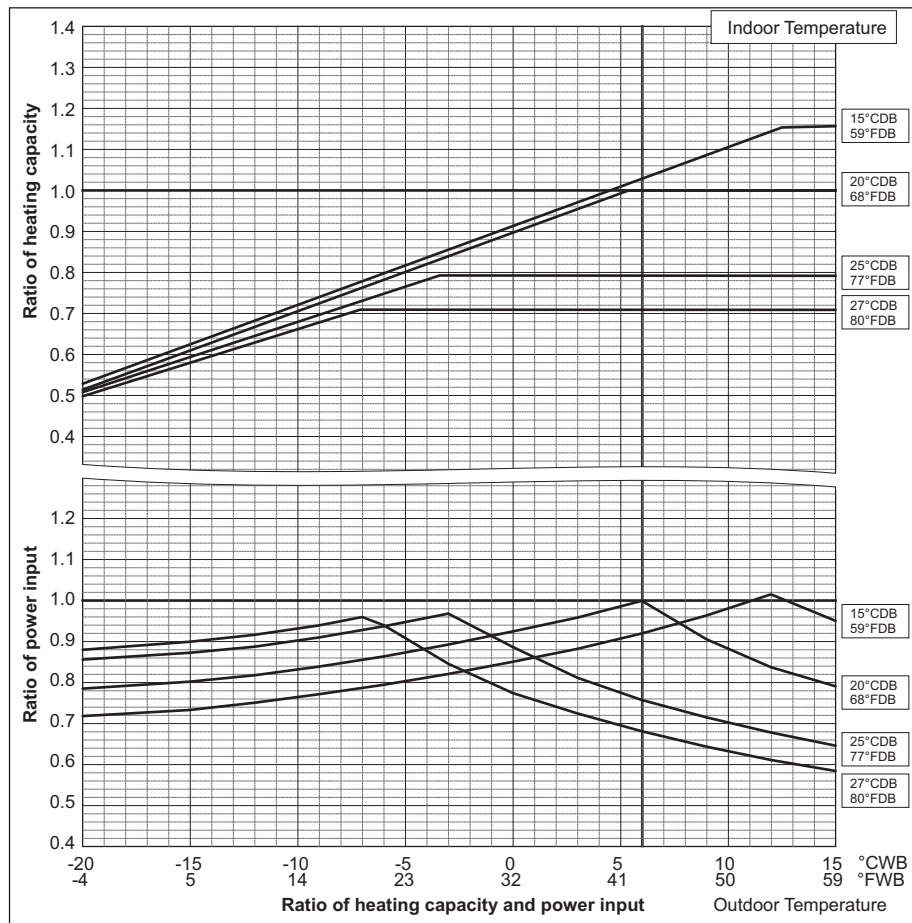
Y (HIGH COP)

PUHY-		EP850YSKM-A	EP900YSKM-A
Nominal Cooling Capacity	kW	96.0	101.0
	BTU/h	327,600	344,600
Input	kW	24.74	25.96

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PUHY-		EP850YSKM-A	EP900YSKM-A
Nominal Heating Capacity	kW	108.0	113.0
	BTU/h	368,500	385,600
Input	kW	27.83	29.58

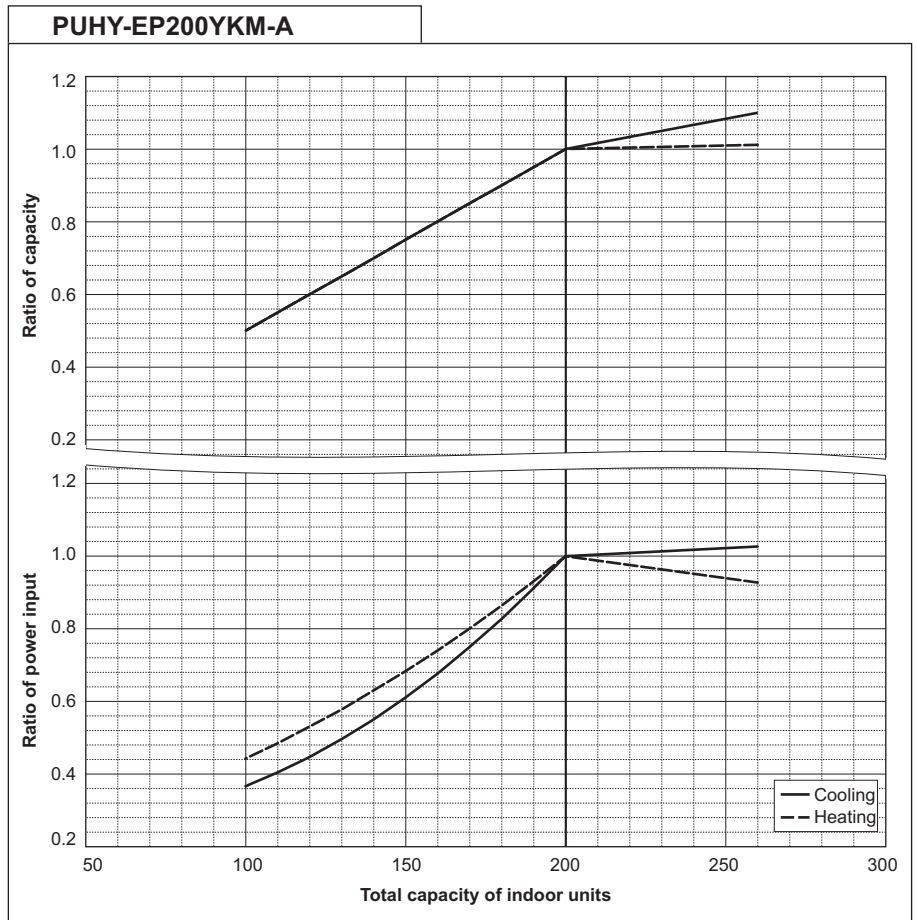


6-2. Correction by total indoor

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.

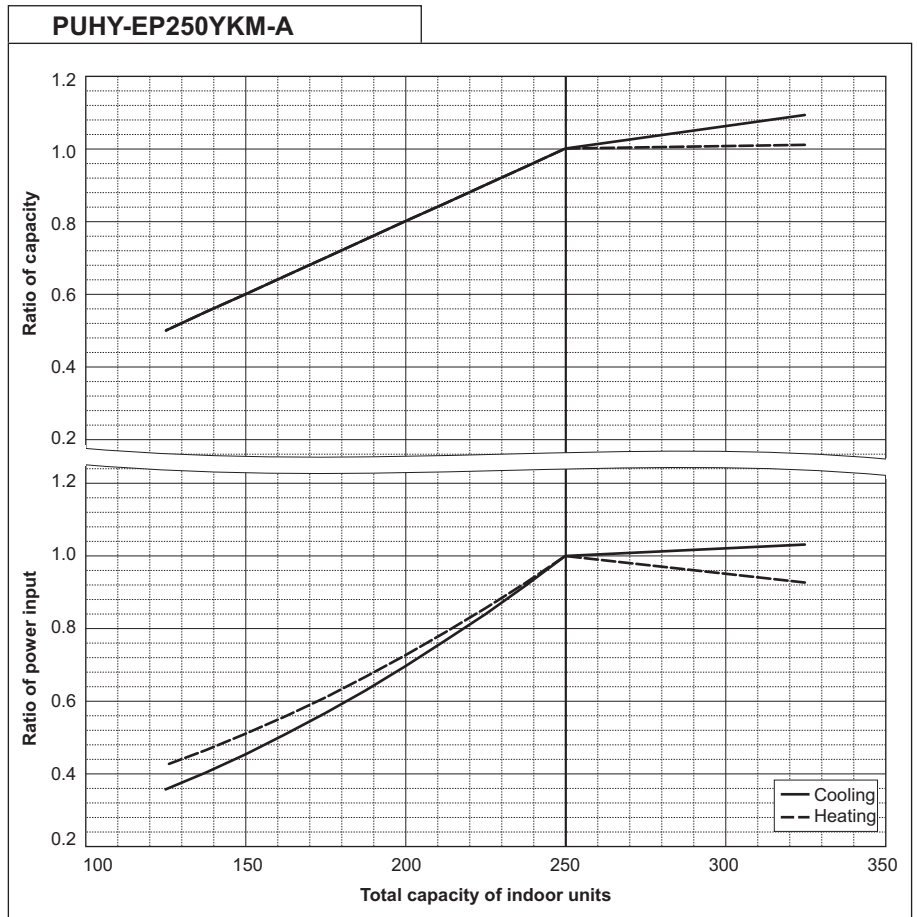
PUHY-EP200YKM-A		
Nominal Cooling Capacity	kW	22.4
	BTU/h	76,400
Input	kW	5.50

PUHY-EP200YKM-A		
Nominal Heating Capacity	kW	25.0
	BTU/h	85,300
Input	kW	5.76



PUHY-EP250YKM-A		
Nominal Cooling Capacity	kW	28.0
	BTU/h	95,500
Input	kW	6.89

PUHY-EP250YKM-A		
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	7.50

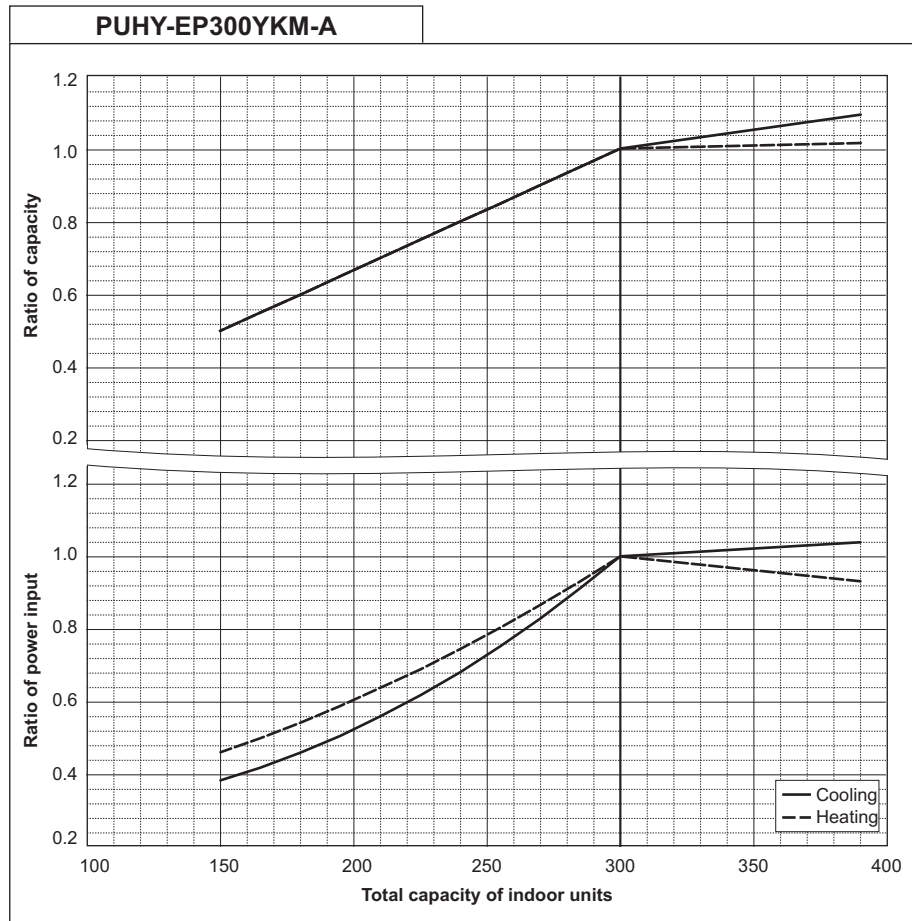


# 6. CAPACITY TABLES

Y (HIGH COP)

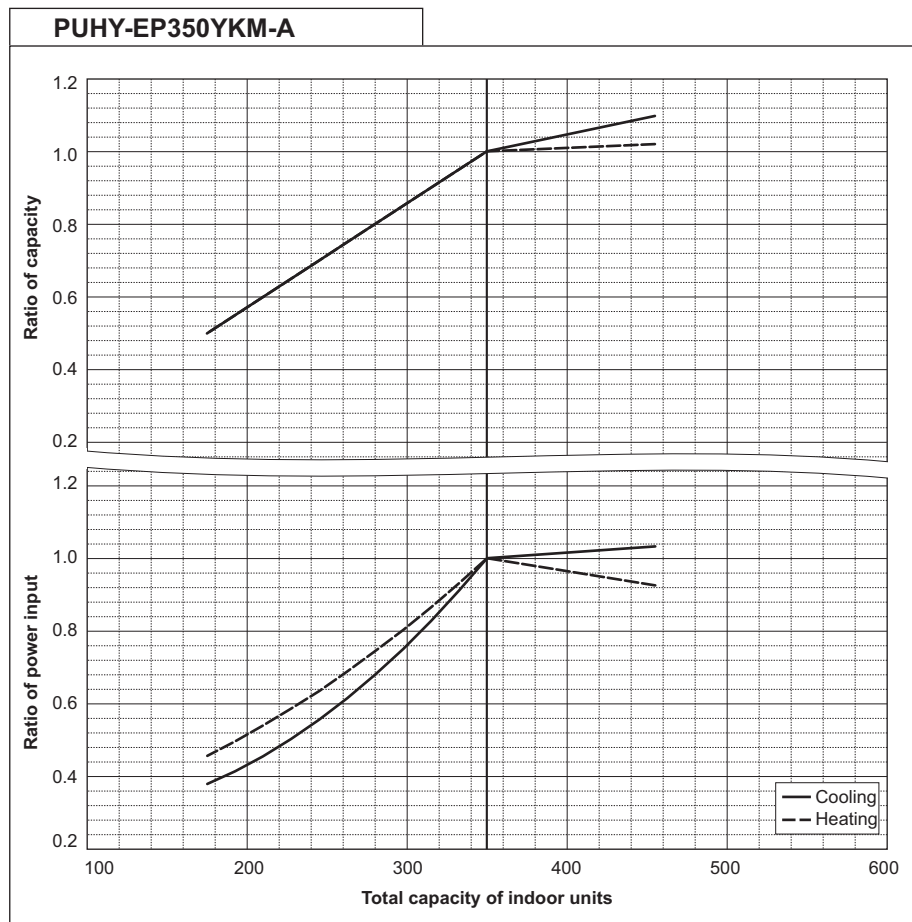
PUHY-EP300YKM-A		
Nominal Cooling Capacity	kW	33.5
	BTU/h	114,300
Input	kW	8.17

PUHY-EP300YKM-A		
Nominal Heating Capacity	kW	37.5
	BTU/h	128,000
Input	kW	9.30



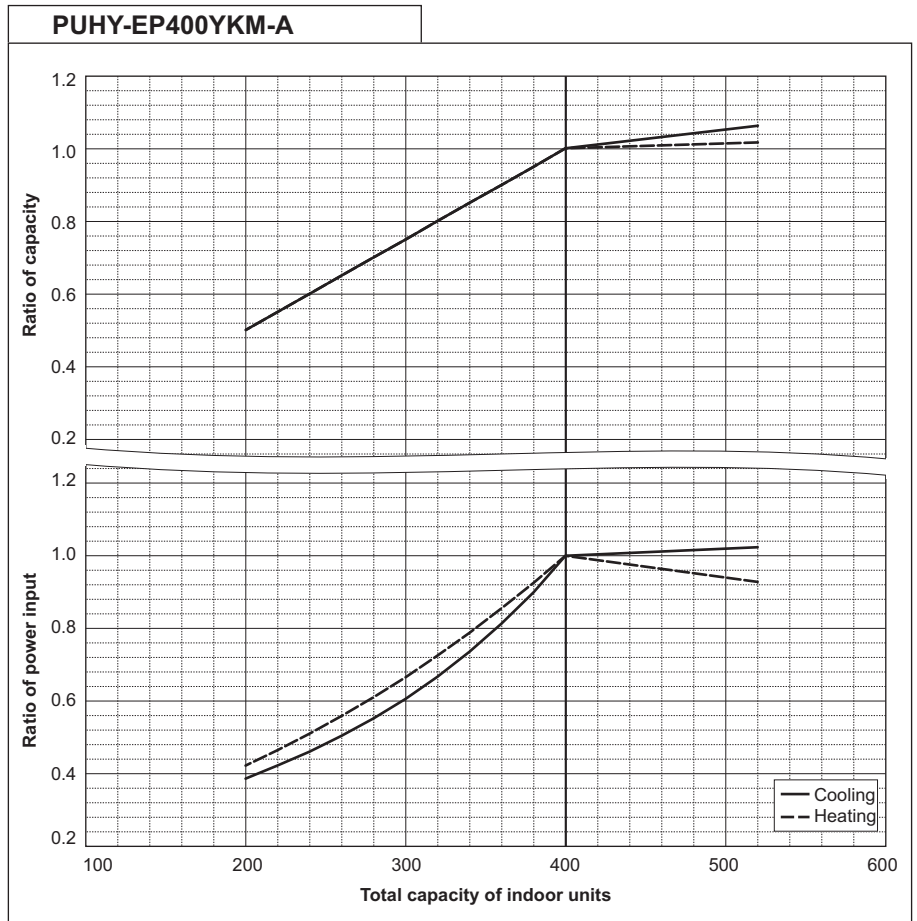
PUHY-EP350YKM-A		
Nominal Cooling Capacity	kW	40.0
	BTU/h	136,500
Input	kW	10.92

PUHY-EP350YKM-A		
Nominal Heating Capacity	kW	45.0
	BTU/h	153,500
Input	kW	12.16



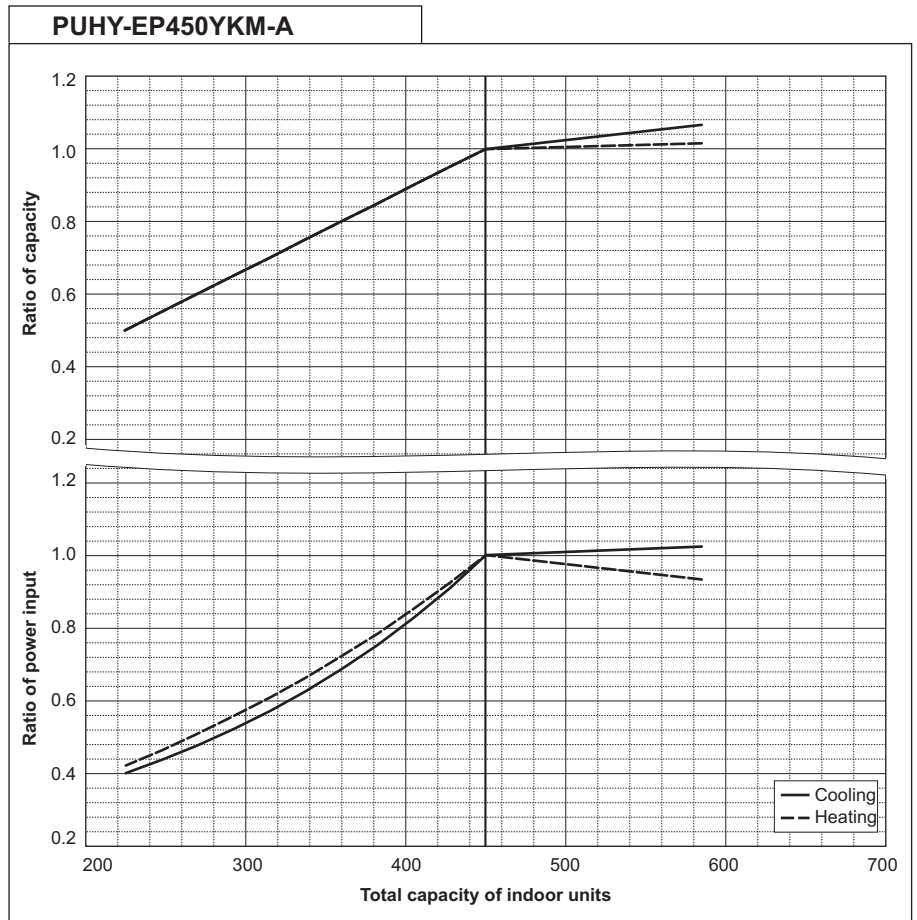
PUHY-EP400YKM-A		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	12.93

PUHY-EP400YKM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	13.66



PUHY-EP450YKM-A		
Nominal Cooling Capacity	kW	50.0
	BTU/h	170,600
Input	kW	15.29

PUHY-EP450YKM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	13.51





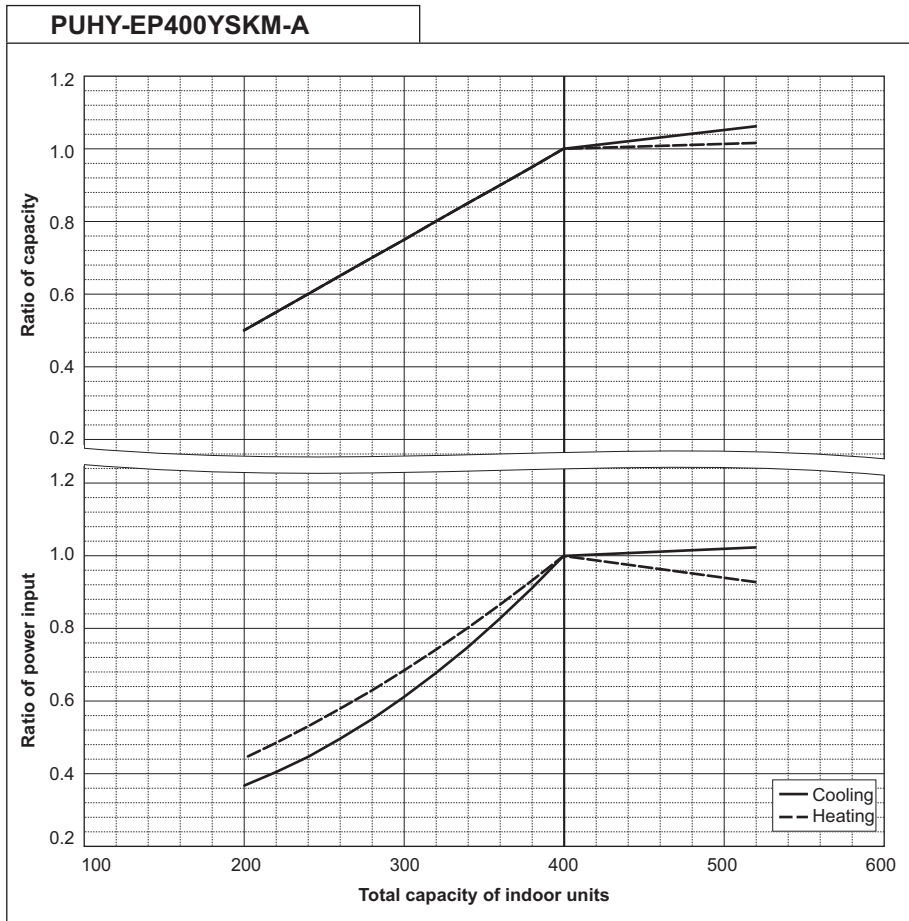
# 6. CAPACITY TABLES

EP-YKM

Y (HIGH COP)

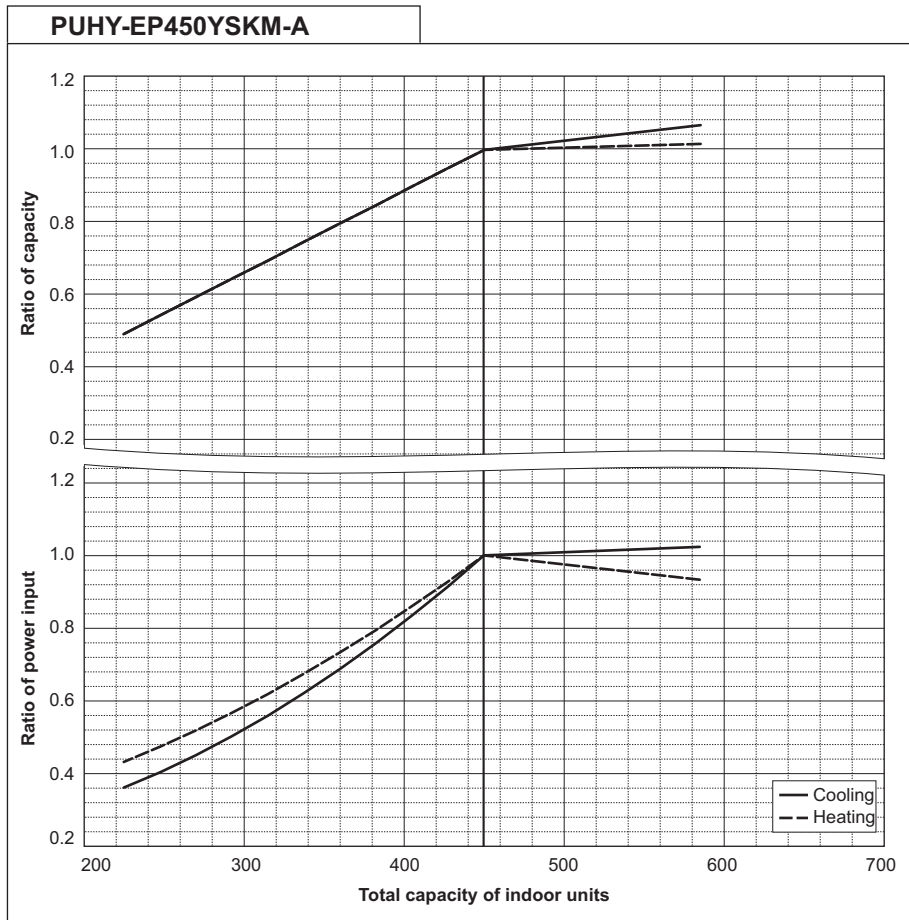
PUHY-EP400YSKM-A		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	11.65

PUHY-EP400YSKM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	12.13



PUHY-EP450YSKM-A		
Nominal Cooling Capacity	kW	50.0
	BTU/h	170,600
Input	kW	12.95

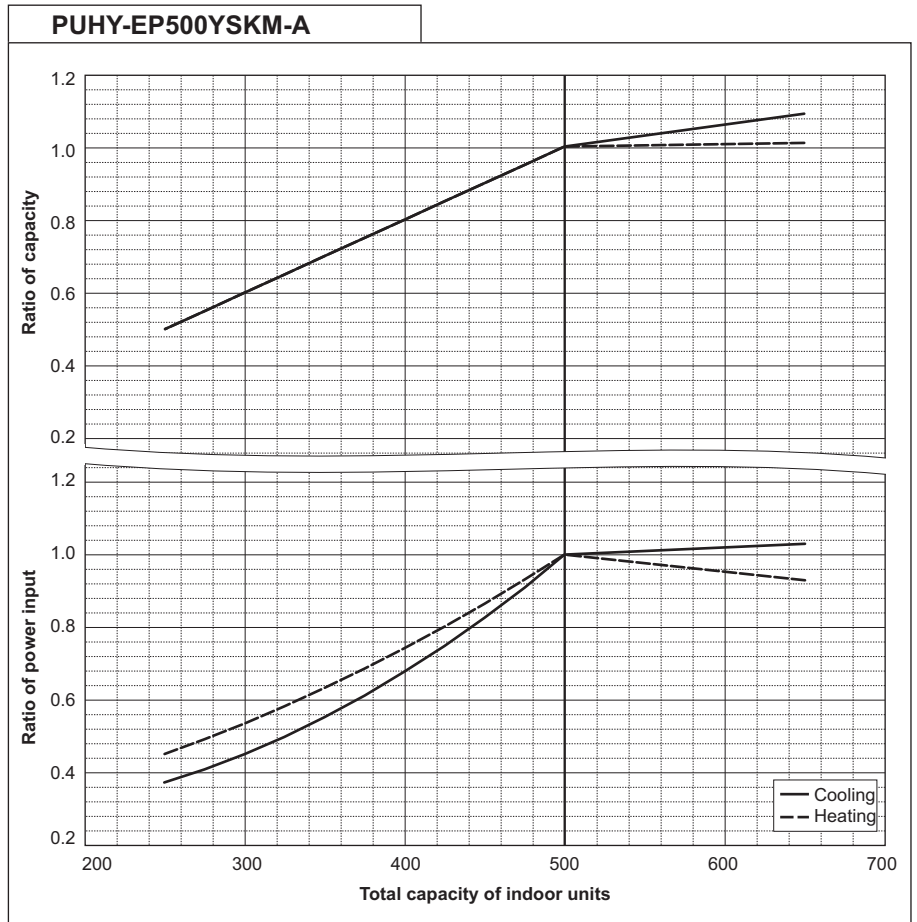
PUHY-EP450YSKM-A		
Nominal Heating Capacity	kW	56.0
	BTU/h	191,100
Input	kW	13.82



# 6. CAPACITY TABLES

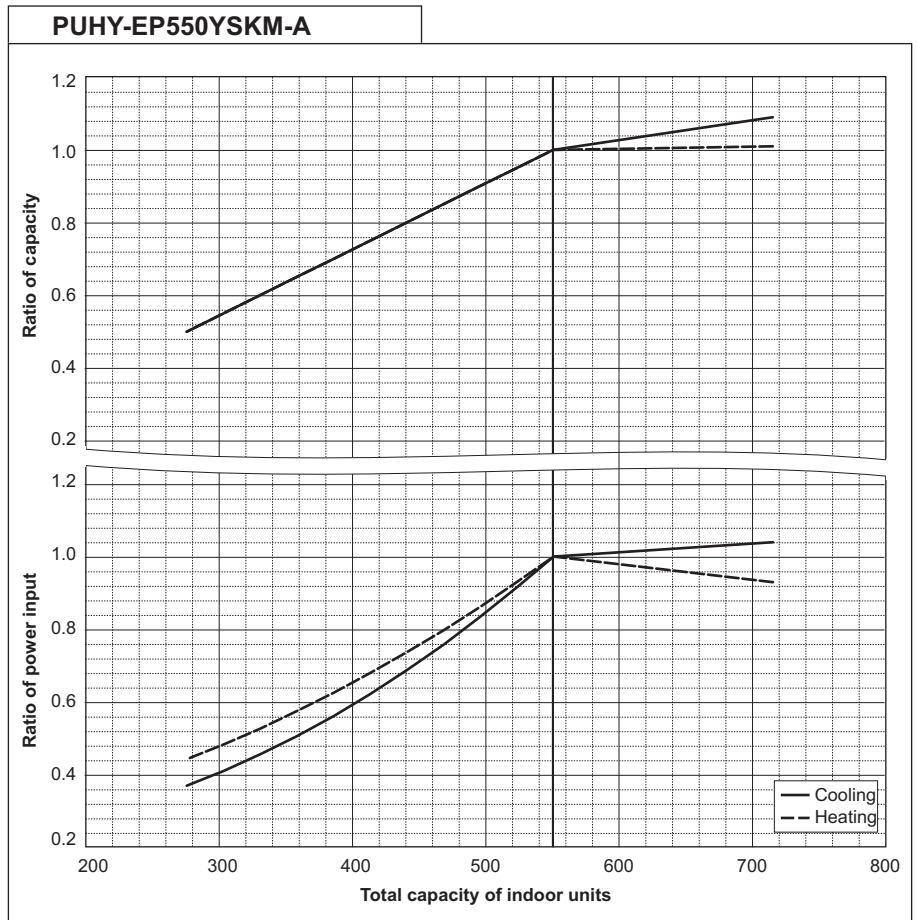
PUHY-EP500YSKM-A		
Nominal Cooling Capacity	kW	56.0
	BTU/h	191,100
Input	kW	14.43

PUHY-EP500YSKM-A		
Nominal Heating Capacity	kW	63.0
	BTU/h	215,000
Input	kW	15.86



PUHY-EP550YSKM-A		
Nominal Cooling Capacity	kW	63.0
	BTU/h	215,000
Input	kW	16.27

PUHY-EP550YSKM-A		
Nominal Heating Capacity	kW	69.0
	BTU/h	235,400
Input	kW	17.69



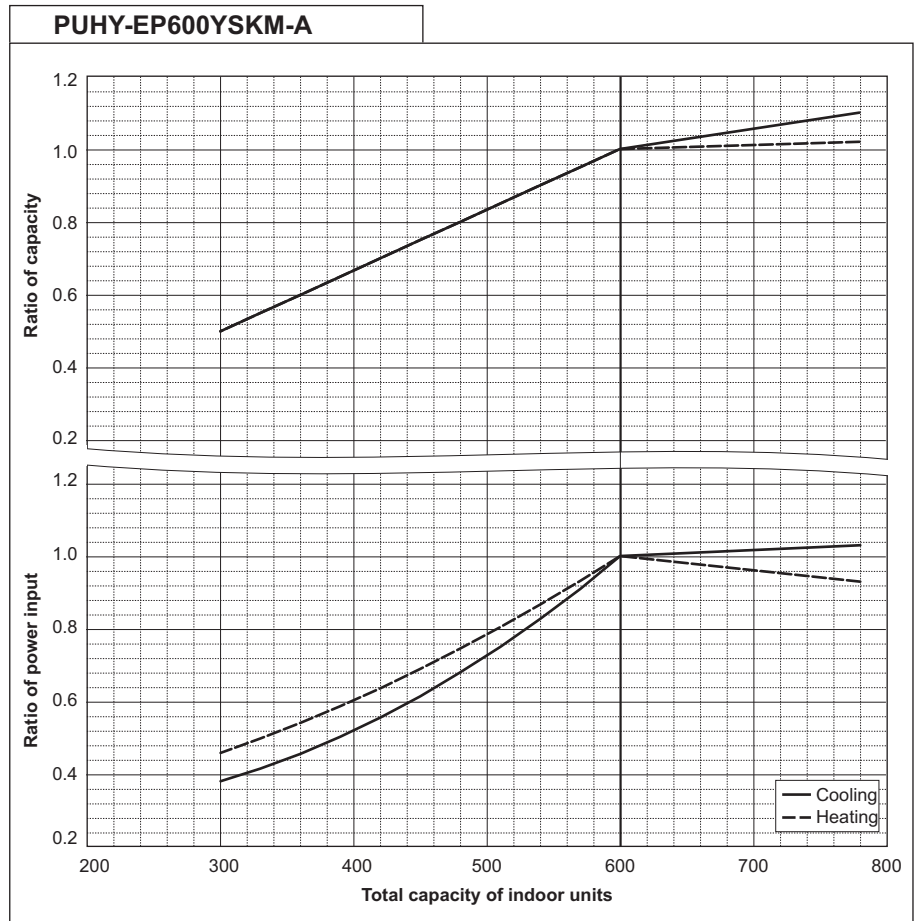
# 6. CAPACITY TABLES

EP-YKM

Y (HIGH COP)

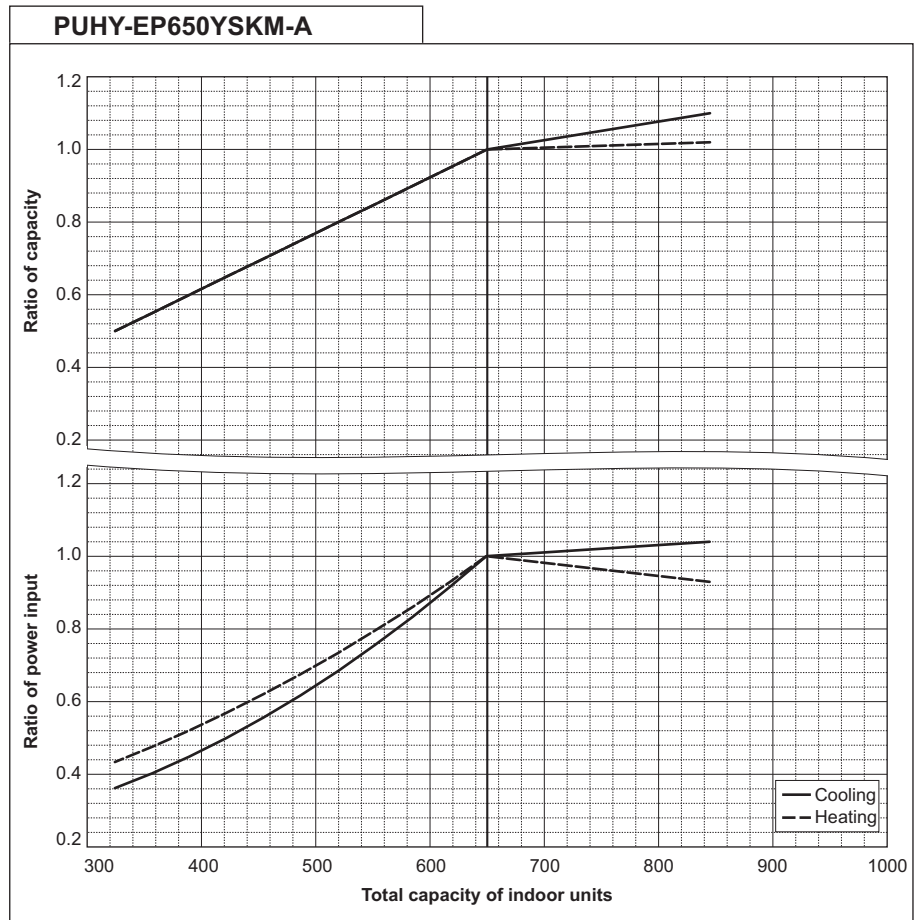
PUHY-EP600YSKM-A		
Nominal Cooling Capacity	kW	69.0
	BTU/h	235,400
Input	kW	17.73

PUHY-EP600YSKM-A		
Nominal Heating Capacity	kW	76.5
	BTU/h	261,000
Input	kW	20.02



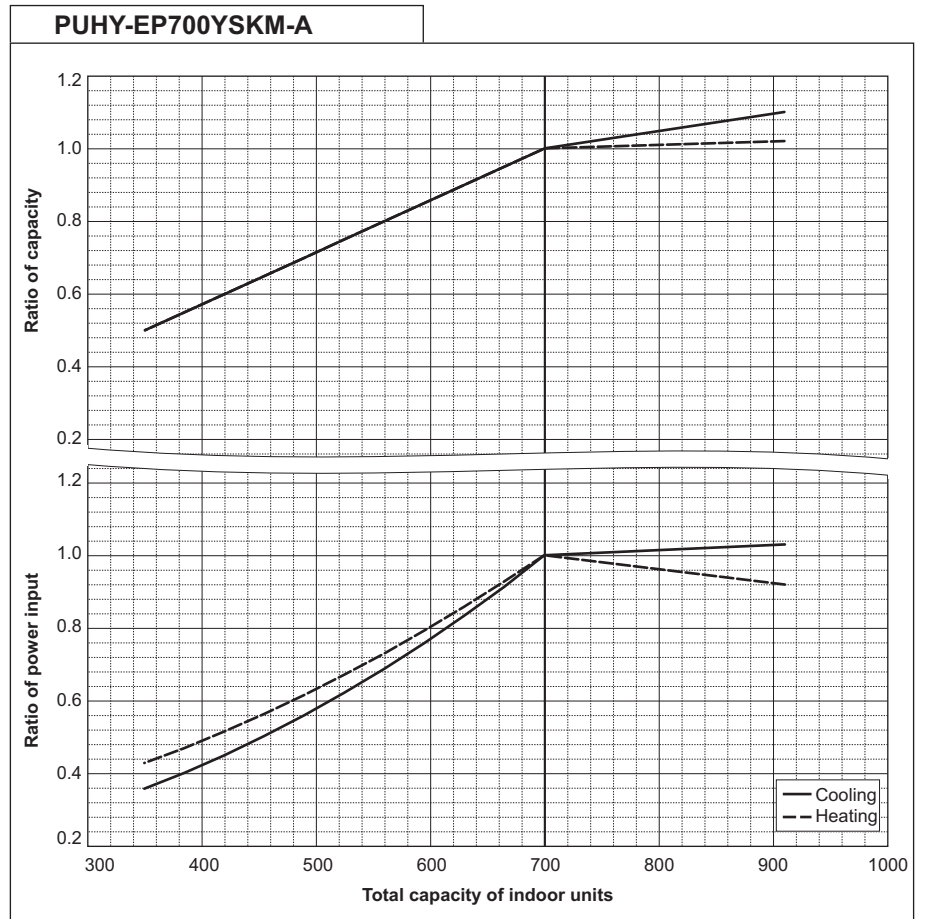
PUHY-EP650YSKM-A		
Nominal Cooling Capacity	kW	73.0
	BTU/h	249,100
Input	kW	18.91

PUHY-EP650YSKM-A		
Nominal Heating Capacity	kW	81.5
	BTU/h	278,100
Input	kW	20.02



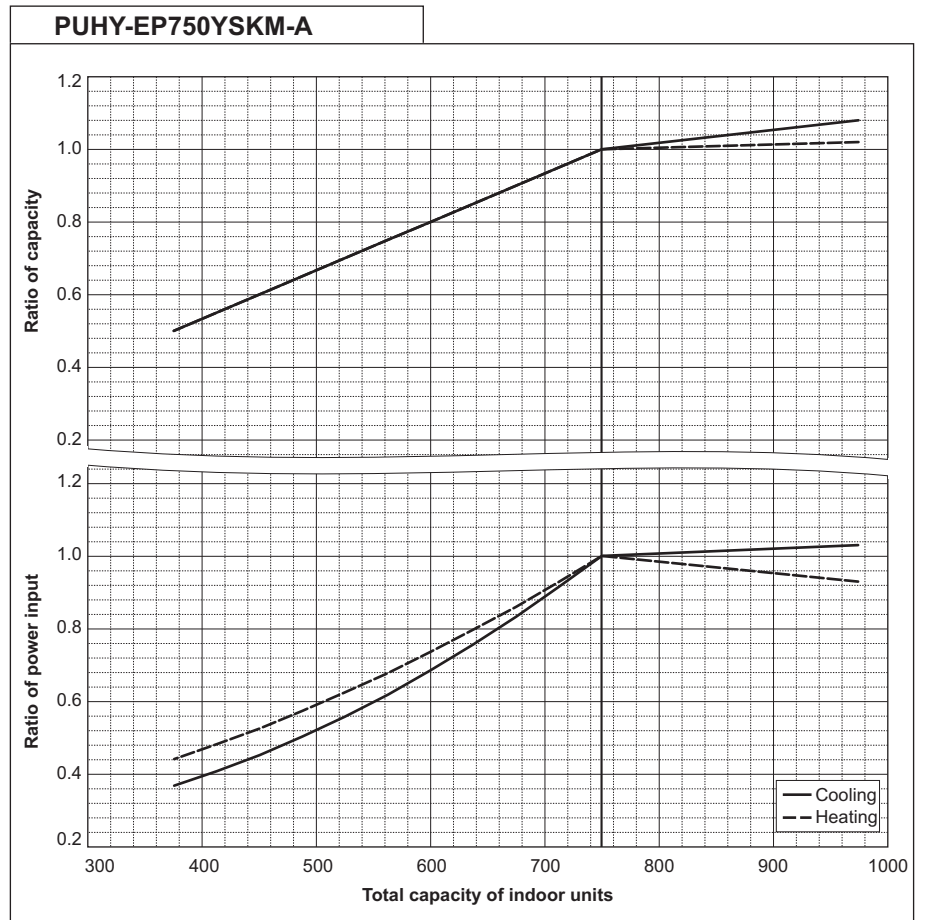
PUHY-EP700YSKM-A		
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	20.67

PUHY-EP700YSKM-A		
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	21.89



PUHY-EP750YSKM-A		
Nominal Cooling Capacity	kW	85.0
	BTU/h	290,000
Input	kW	21.96

PUHY-EP750YSKM-A		
Nominal Heating Capacity	kW	95.0
	BTU/h	324,100
Input	kW	23.86



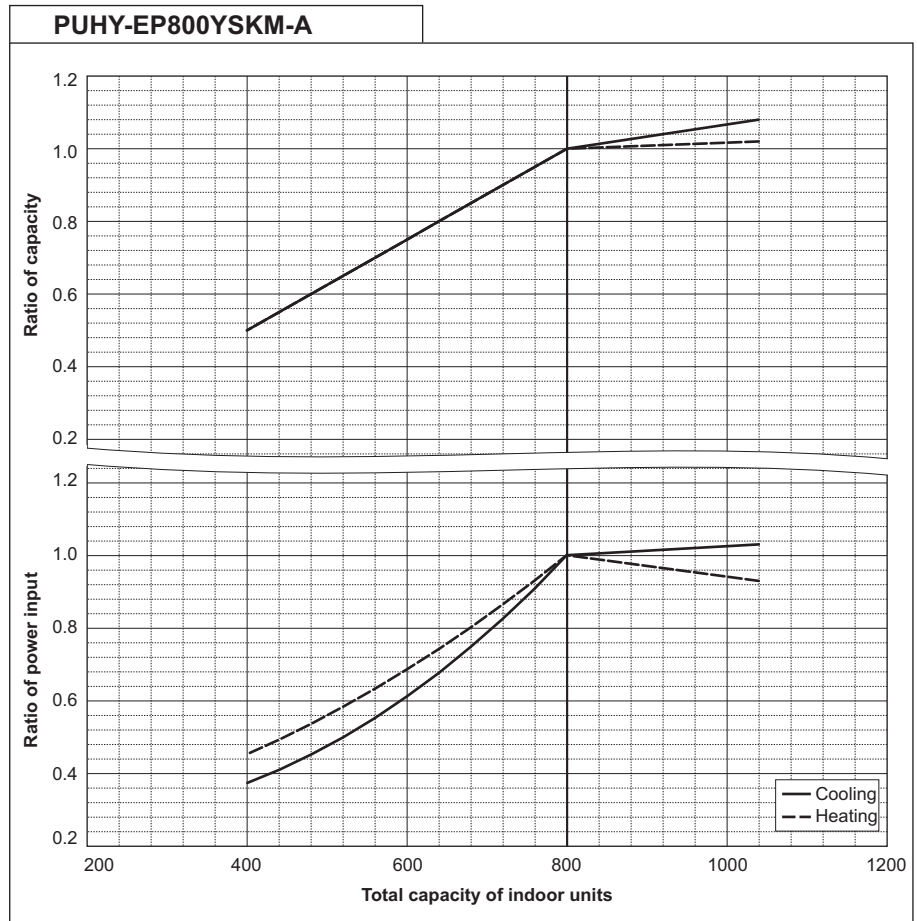
# 6. CAPACITY TABLES

EP-YKM

Y (HIGH COP)

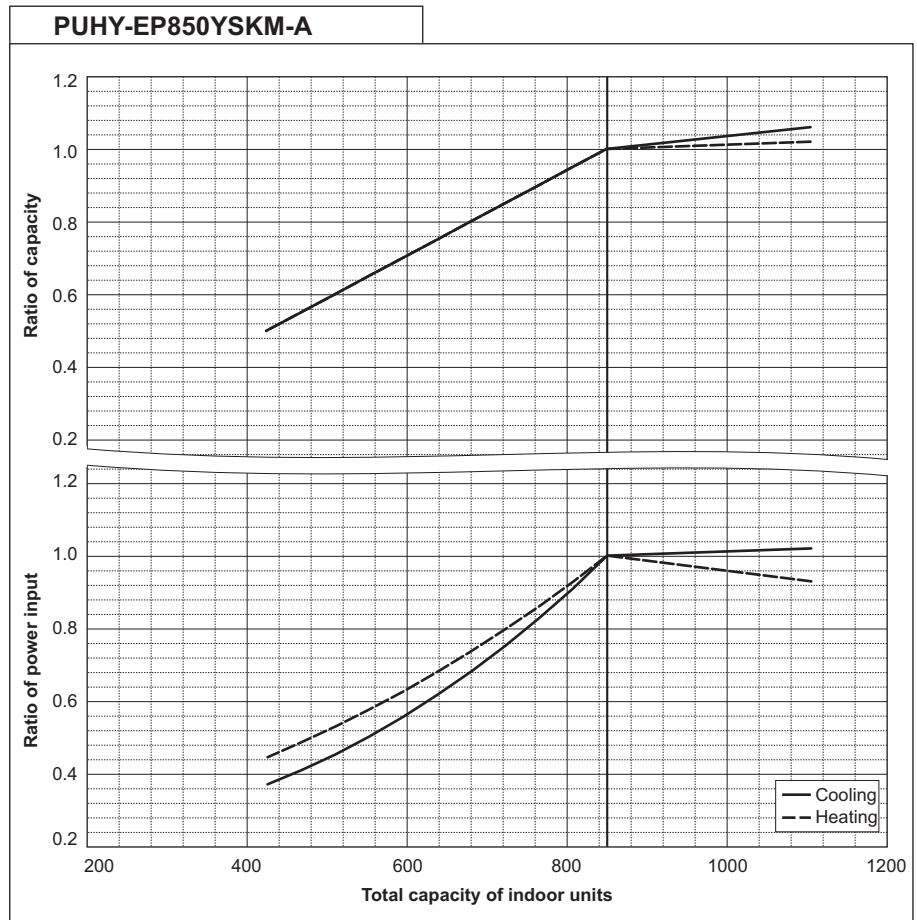
PUHY-EP800YSKM-A		
Nominal Cooling Capacity	kW	90.0
	BTU/h	307,100
Input	kW	23.19

PUHY-EP800YSKM-A		
Nominal Heating Capacity	kW	100.0
	BTU/h	341,200
Input	kW	25.51



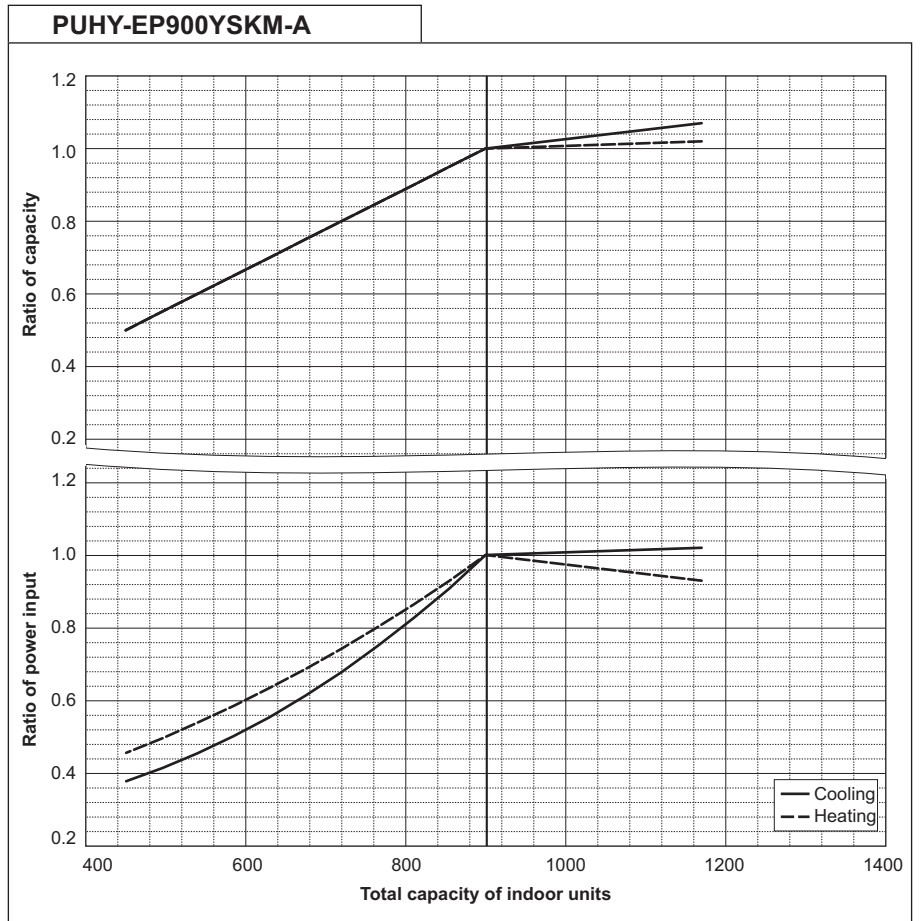
PUHY-EP850YSKM-A		
Nominal Cooling Capacity	kW	96.0
	BTU/h	327,600
Input	kW	24.74

PUHY-EP850YSKM-A		
Nominal Heating Capacity	kW	108.0
	BTU/h	368,500
Input	kW	27.83



PUHY-EP900YSKM-A		
Nominal Cooling Capacity	kW	101.0
	BTU/h	344,600
Input	kW	25.96

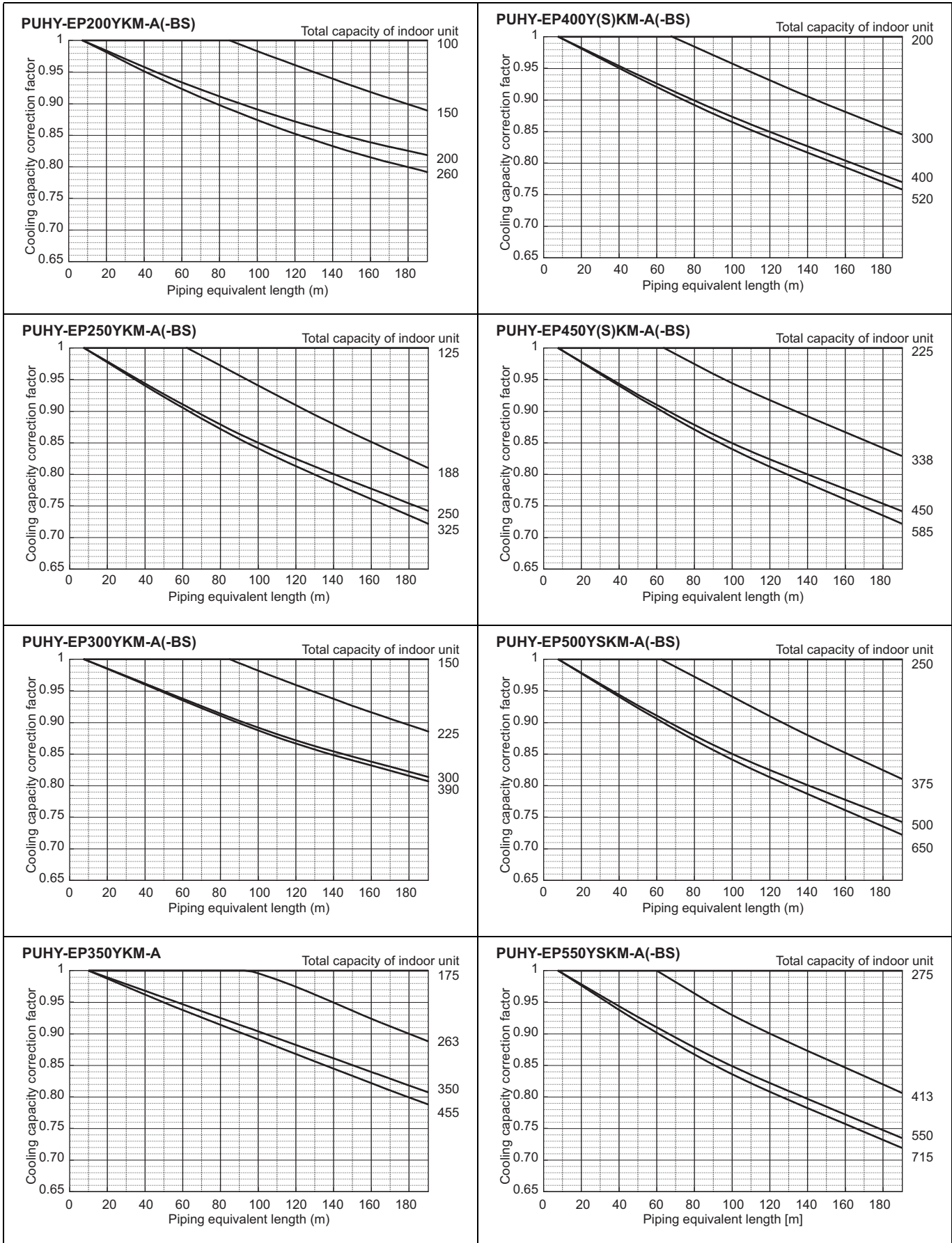
PUHY-EP900YSKM-A		
Nominal Heating Capacity	kW	113.0
	BTU/h	385,600
Input	kW	29.58



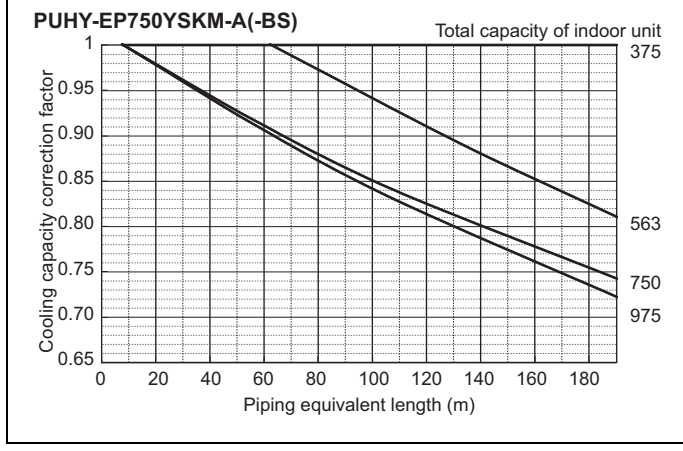
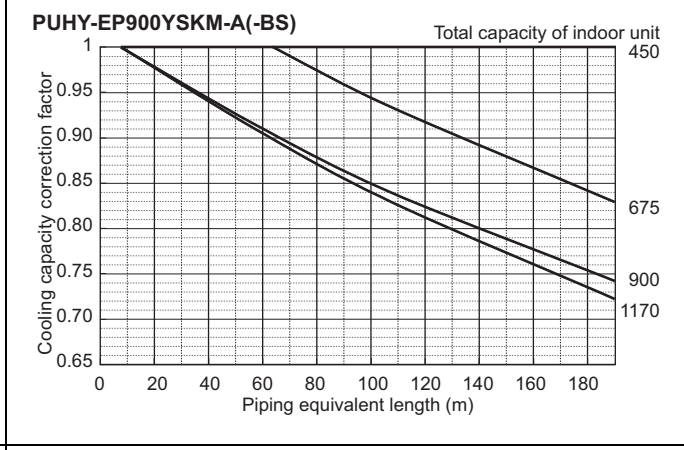
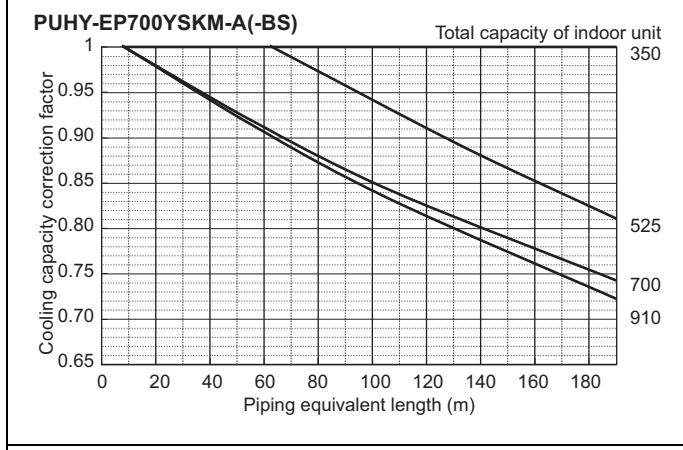
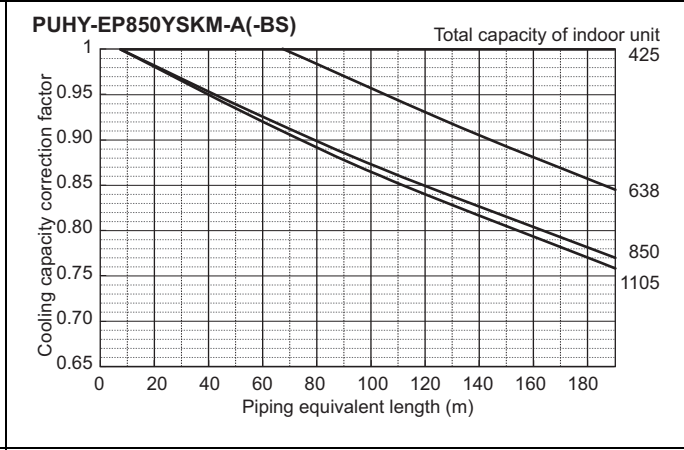
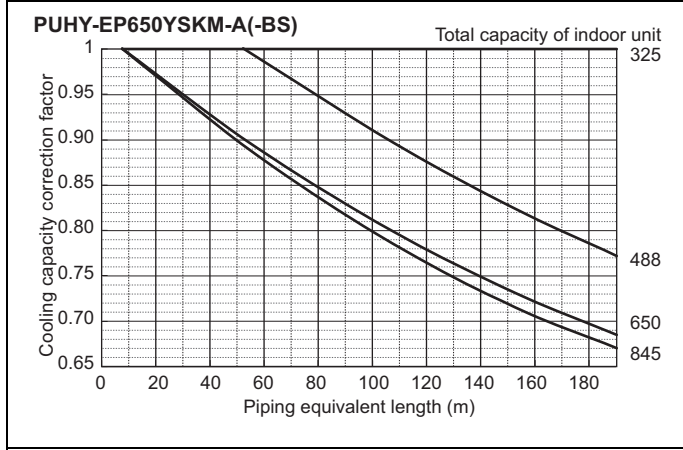
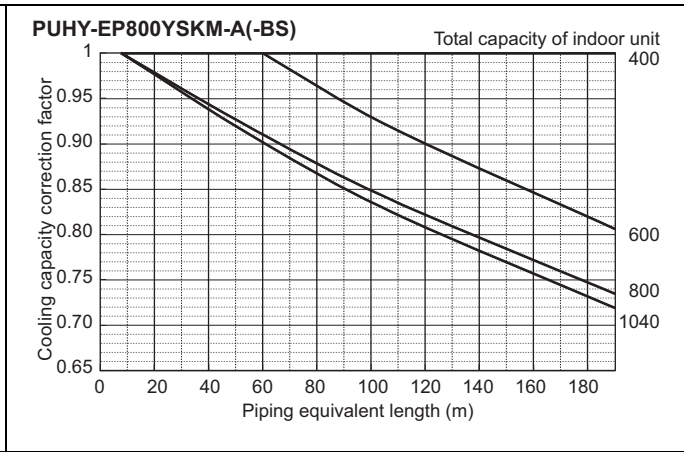
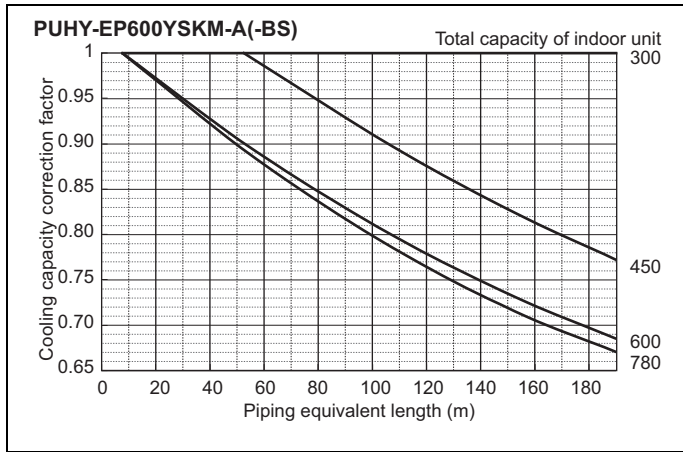
**6-3. Correction by refrigerant piping length**

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 6-3-1 and 6-3-2, the capacity can be observed. 6-3-3 shows how to obtain the equivalent length of piping.

**6-3-1. Cooling capacity correction**

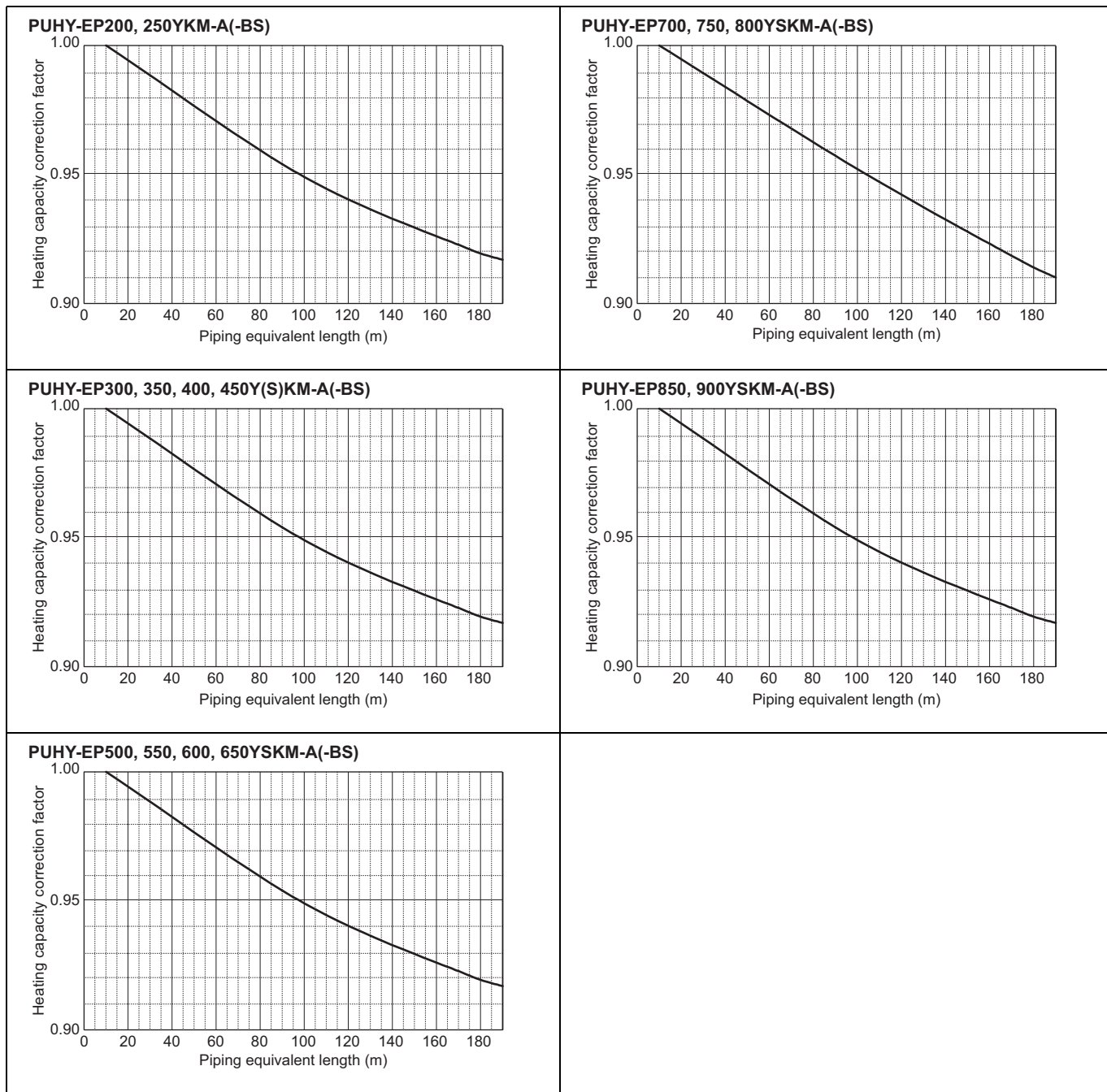


# 6. CAPACITY TABLES





## 6-3-2. Heating capacity correction



## 6-3-3. How to obtain the equivalent piping length

- 1 **PUHY-EP200YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) m
- 2 **PUHY-EP250YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) m
- 3 **PUHY-EP300YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bends in the piping) m
- 4 **PUHY-EP350YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bends in the piping) m
- 5 **PUHY-EP400, 450, 500, 550, 600, 650Y(S)KM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bends in the piping) m
- 6 **PUHY-EP700, 750, 800YSKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bends in the piping) m
- 7 **PUHY-EP850, 900YSKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.80 x number of bends in the piping) m

**6-4. Correction at frost and defrost**

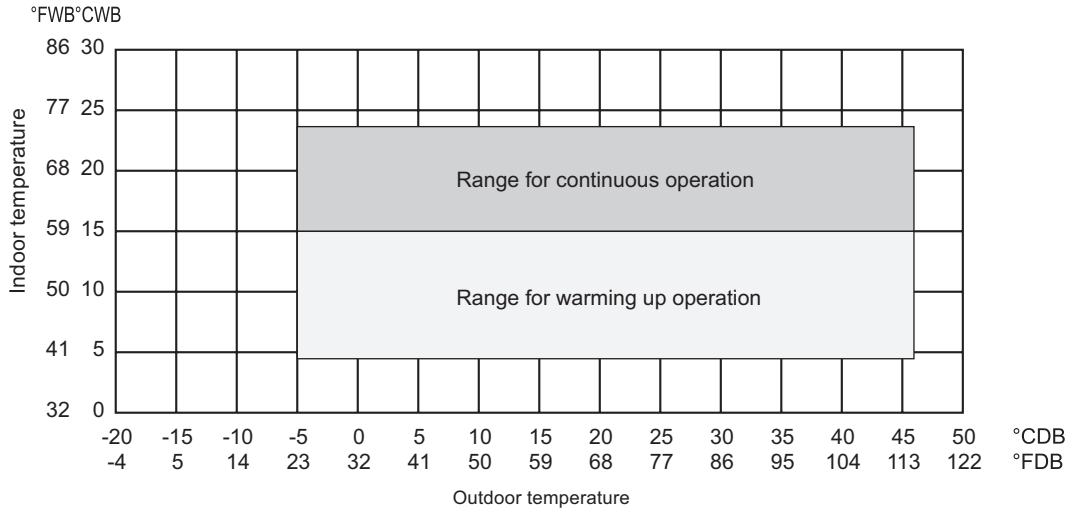
Due to frost at the outdoor heat exchanger and the automatic defrost operation, the heating capacity of the outdoor unit can be calculated by multiplying the correction factor shown in the table below.

Table of correction factor at frost and defrost

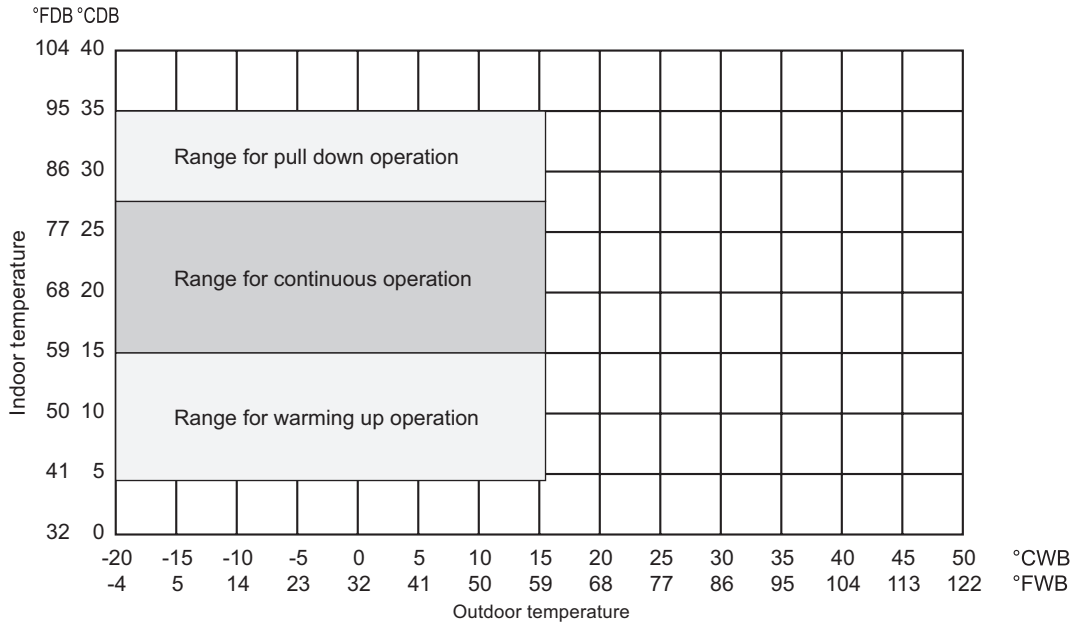
Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUHY-EP200YKM-A(-BS)	1.00	0.95	0.84	0.825	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-EP250YKM-A(-BS)	1.00	0.95	0.84	0.825	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-EP300YKM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-EP350YKM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-EP400YKM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-EP450YKM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-EP400YSKM-A(-BS)	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95
PUHY-EP450YSKM-A(-BS)	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-EP500YSKM-A(-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-EP550YSKM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PUHY-EP600YSKM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PUHY-EP650YSKM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PUHY-EP700YSKM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-EP750YSKM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-EP800YSKM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-EP850YSKM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PUHY-EP900YSKM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93

6-5. Operation temperature range

• Cooling

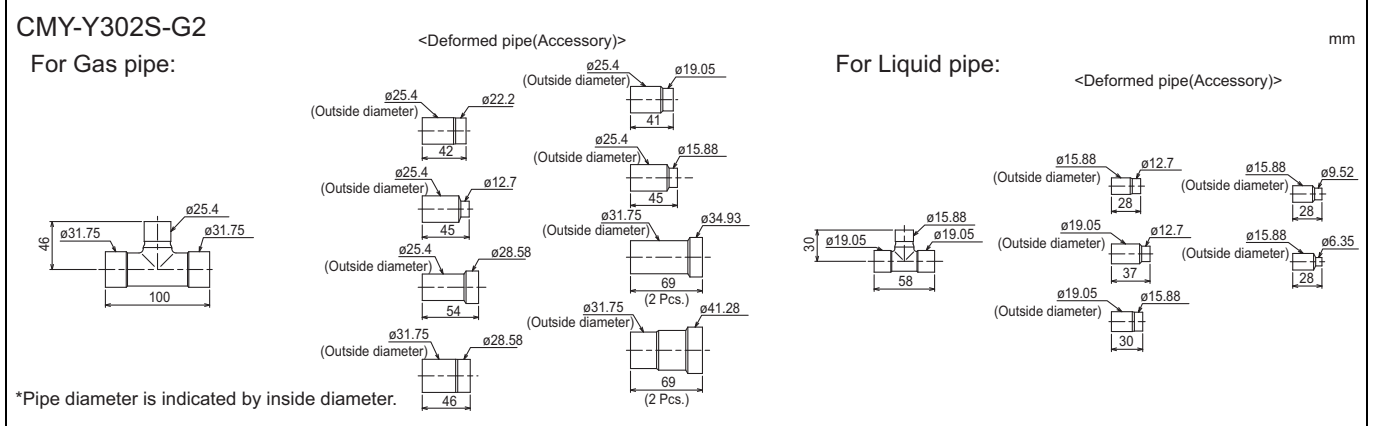
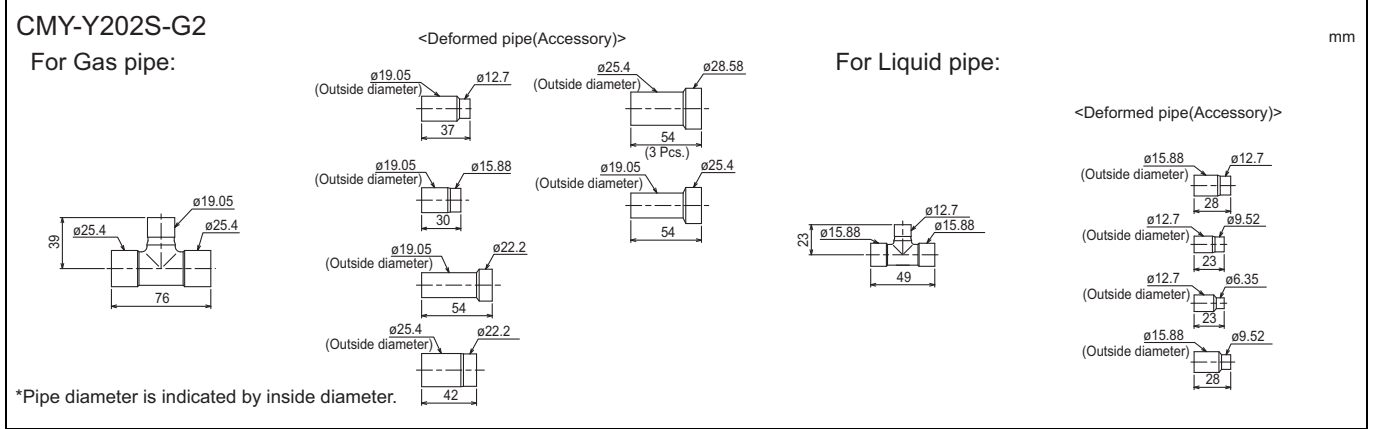
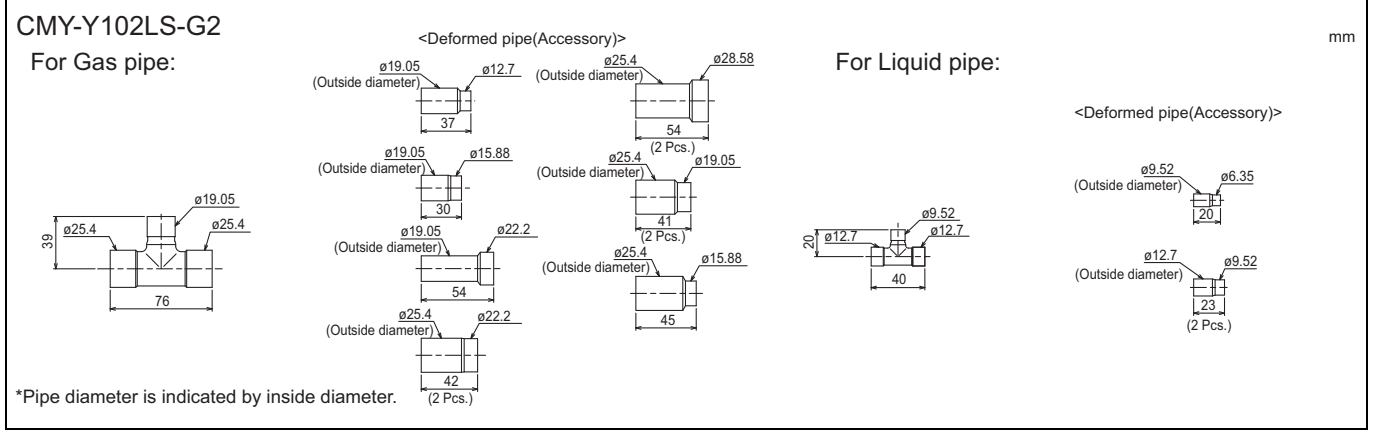
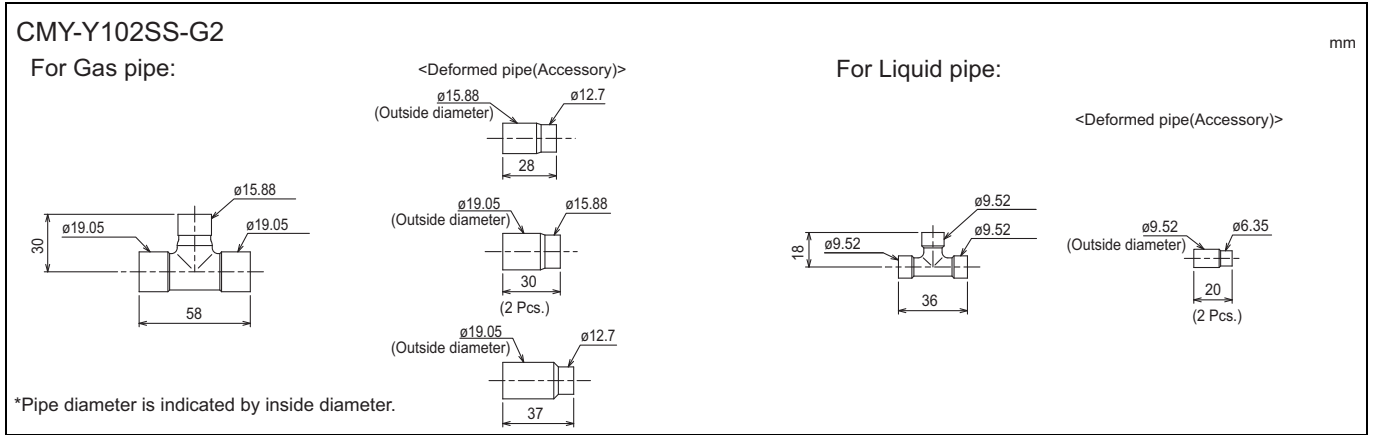


• Heating



## 7-1. JOINT

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Four kinds of Joint sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Joint set for how to install the Joint set.



## 7-2. HEADER

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Three kinds of Header sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Header set for how to install the Header set.

**CMY-Y104-G**  
For Gas pipe:

For Liquid pipe:

Ref.: CMY\_Y104-G\_EXD\_EUDB\_SI  
mm

<Deformed pipe(Accessory)>

<Deformed pipe(Accessory)>

ID: Inner Diameter    OD: Outer Diameter  
NOTE: Besides above mentioned accessories, caps for pipe of  $\phi 6.35$ ,  $\phi 9.52$ ,  $\phi 12.7$ ,  $\phi 15.88$  (each diameter 1 piece) are included in the Header set.

**CMY-Y108-G**  
For Gas pipe:

For Liquid pipe:

Ref.: CMY\_Y108-G\_EXD\_EUDB\_SI  
mm

<Deformed pipe(Accessory)>

<Deformed pipe(Accessory)>

ID: Inner Diameter    OD: Outer Diameter  
NOTE: Besides above mentioned accessories, caps for pipe of  $\phi 6.35$ ,  $\phi 9.52$ ,  $\phi 12.7$ ,  $\phi 15.88$  (each diameter 2 pieces) and 1 cap for pipe of  $\phi 19.05$  are included in the Header set.

**CMY-Y1010-G**  
For Gas pipe:

For Liquid pipe:

Ref.: CMY\_Y1010-G\_EXD\_EUDB\_SI  
mm

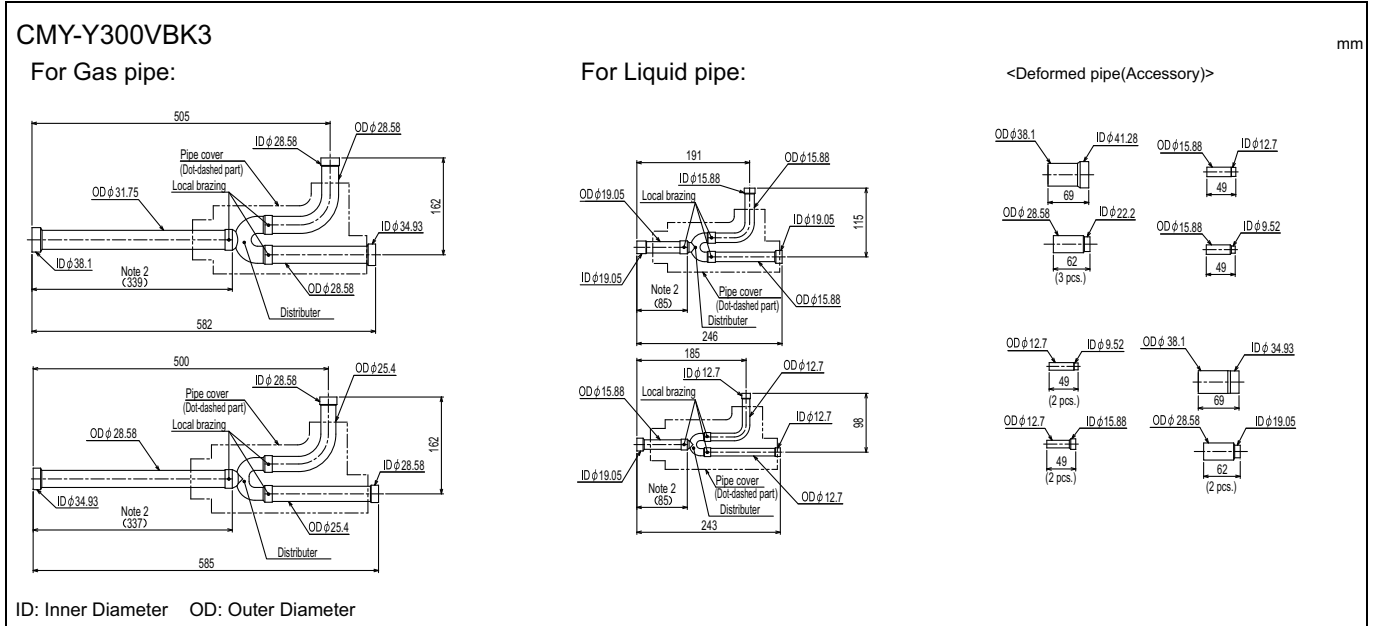
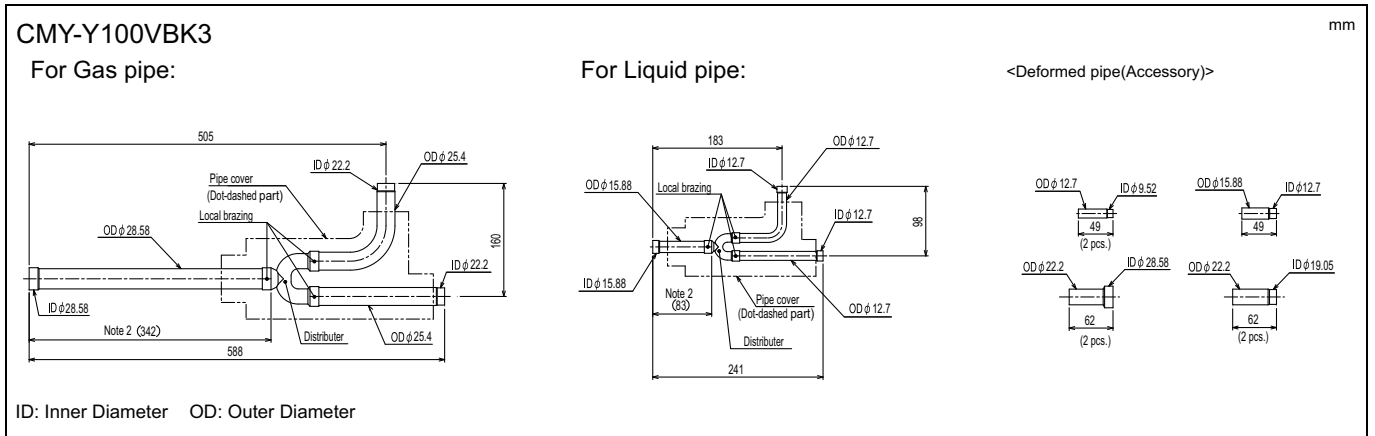
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<Deformed pipe(Accessory)>

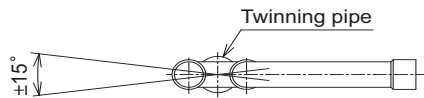
ID: Inner Diameter    OD: Outer Diameter  
NOTE: Besides above mentioned accessories, caps for pipe of  $\phi 6.35$ ,  $\phi 9.52$ ,  $\phi 12.7$ ,  $\phi 15.88$  (each diameter 2 pieces) and 1 cap for pipe of  $\phi 19.05$  are included in the Header set.

## 7-3. OUTDOOR TWINNING KIT

For PUHY-EP-YSKM, following optional Outdoor Twinning Kit is needed to use to combine to refrigerant flows of its PUHY-EP-YKM. Details of selecting the proper kit should be referred to the System Design Section.



Note 1. Refer to the figure below for the installation position of the twinning pipe.



Slope of the twinning pipes are at an angle within  $\pm 15^\circ$  to the horizontal plane.

2. Use the attached pipe to braze the port-opening of the twinning pipe.
3. Pipe diameter is indicated by inside diameter.
4. Only use the twinning pipe by Mitsubishi (optional parts).



**OUTDOOR UNITS**

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# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP200YKM-A (-BS)	PURY-EP250YKM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	22.4	28.0
		kcal / h	20,000	25,000
		BTU / h	76,400	95,500
	Power input	kW	5.51	7.05
		Current input	A	9.3-8.8-8.5
COP		kW / kW	4.06	3.97
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°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	6.31	8.07
		Current input	A	10.6-10.1-9.7
COP		kW / kW	3.96	3.90
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity
	Model / Quantity		P15~P250/1~20	P15~P250/1~25
Sound pressure level (measured in anechoic room)	dB <A>		57	60
Sound power level (measured in anechoic room)	dB <A>		77	80
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m <sup>3</sup> / min	175	175
		L/s	2,917	2,917
		cfm	6,179	6,179
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1
*4 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	5.6	6.9
	Case heater	kW	- (- V)	- (- V)
	Lubricant		MEL32	MEL32
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 x 740	1,710 (1,650 without legs) x 1,220 x 740
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16	67-3/8 (65 without legs) x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
	Control		Indoor LEV and BC controller	Indoor LEV and BC controller
Net weight		kg (lbs)	232 (512)	232 (512)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)
Drawing	External		KD94T665	KD94T665
	Wiring		KE94C773	KE94C773
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory			
Optional parts			Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1
Remarks			<ul style="list-style-type: none"> <li>Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>	

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m3/min x 35.31
3.-10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	lbs =kg / 0.4536
4.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP300YKM-A (-BS)	PURY-EP350YKM-A (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	33.5	40.0
		kcal / h	30,000	35,000
		BTU / h	114,300	136,500
	Power input	kW	8.03	10.55
		Current input	A	13.5-12.8-12.4
COP		kW / kW	4.17	3.79
Temp. range of cooling	*3	Indoor	W.B. 15.0~24.0°C (59~75°F)	
		Outdoor	D.B. -5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	37.5	45.0
		kcal / h	32,300	38,700
		BTU / h	128,000	153,500
	Power input	kW	9.56	11.81
		Current input	A	16.1-15.3-14.7
COP		kW / kW	3.92	3.81
Temp. range of heating	*3	Indoor	D.B. 15.0~27.0°C (59~81°F)	
		Outdoor	W.B. -20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60	62
Sound power level (measured in anechoic room)		dB <A>	80	82
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2	
	Air flow rate	m <sup>3</sup> / min	320	320
		L/s	5,333	5,333
		cfm	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 2	0.92 x 2
*4 External static press.		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	8.1	10.5
	Case heater	kW	- (- V)	- (- V)
	Lubricant		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD			mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	322 (710)	322 (710)
Heat exchanger			Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		KD94T666	KD94T666
	Wiring		KE94C774	KE94C774
Standard attachment	Document		Installation Manual	Installation Manual
	Accessory			
Optional parts			Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	
Remarks			<ul style="list-style-type: none"> <li>Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>	

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)  
with cooling/heating mixed operation.
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m <sup>3</sup> /min x 35.31
lbs	=kg / 0.4536
*Above specification data is subject to rounding variation.	

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP400YKM-A (-BS)	PURY-EP450YKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	45.0	50.0	
		kcal / h	40,000	45,000	
		BTU / h	153,500	170,600	
	Power input	kW	12.39	14.66	
		Current input	A	20.9-19.8-19.1	24.7-23.5-22.6
		COP	kW / kW	3.63	3.41
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	50.0	50.0	
		kcal / h	45,000	45,000	
		BTU / h	170,600	170,600	
	Power input	kW	13.81	13.66	
		Current input	A	23.3-22.1-21.3	23.0-21.9-21.1
		COP	kW / kW	3.62	3.66
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~40	P15~P250/1~45	
Sound pressure level (measured in anechoic room)	dB <A>		62	62	
Sound power level (measured in anechoic room)	dB <A>		82	82	
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m <sup>3</sup> / min	320	320	
		L/s	5,333	5,333	
		cfm	11,299	11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 2	0.92 x 2	
*4 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter	
	Motor output	kW	10.9	12.4	
	Case heater	kW	- (- V)	- (- V)	
	Lubricant		MEL32	MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740	1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	
	Fan motor		-	-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller	Indoor LEV and BC controller	
Net weight		kg (lbs)	322 (710)	322 (710)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			-	-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		KD94T666	KD94T666	
	Wiring		KE94C774	KE94C774	
Standard attachment	Document		Installation Manual	Installation Manual	
	Accessory				
Optional parts			Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1  Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1  Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> </ul>		

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)  
with cooling/heating mixed operation.
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter

BTU/h =kW x 3,412  
cfm =m<sup>3</sup>/min x 35.31  
lbs =kg / 0.4536

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP400YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	45.0	
		kcal / h	40,000	
		*1 BTU / h	153,500	
	Power input	kW	11.45	
		Current input	A	19.3-18.3-17.6
COP		kW / kW	3.93	
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	50.0	
		kcal / h	45,000	
		*2 BTU / h	170,600	
	Power input	kW	12.62	
		Current input	A	21.3-20.2-19.5
COP		kW / kW	3.96	
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~40	
Sound pressure level (measured in anechoic room)		dB <A>	60	
Sound power level (measured in anechoic room)		dB <A>	80	
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	

Set Model

Model			PURY-EP200YKM-A (-BS)		PURY-EP200YKM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m <sup>3</sup> / min	175		175	
		L/s	2,917		2,917	
		cfm	6,179		6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*4 Motor output	kW	0.92 x 1		0.92 x 1	
External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.6		5.6	
	Case heater	kW	- (- V)		- (- V)	
	Lubricant		MEL32		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD			mm 1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16		mm 1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight		kg (lbs)	232 (512)		232 (512)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			-			
Pipe between unit and distributor	High pressure	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Low pressure	mm (in.)	19.05 (3/4) Brazed		-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94T760			
	Wiring		KE94C773		KE94C773	
Standard attachment	Document		Installation Manual			
	Accessory					
Optional parts			Outdoor Twinning kit: CMY-R100VBK2 Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.			

Notes :

- 1.Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 2.Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 3.-10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- 4.External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m <sup>3</sup> /min x 35.31
lbs	=kg / 0.4536
*Above specification data is subject to rounding variation.	

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP450YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	50.0	
		kcal / h	45,000	
		BTU / h	170,600	
	Power input	kW	12.85	
		Current input	A	
COP		kW / kW		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	*3 Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	56.0	
		kcal / h	48,200	
		BTU / h	191,100	
	Power input	kW	14.24	
		Current input	A	
COP		kW / kW		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	*3 Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~45	
Sound pressure level (measured in anechoic room)		dB <A>	62	
Sound power level (measured in anechoic room)		dB <A>	82	
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	

Set Model			PURY-EP200YKM-A (-BS)		PURY-EP250YKM-A (-BS)	
Model			Propeller fan x 1		Propeller fan x 1	
FAN	Type x Quantity		175		175	
	Air flow rate	m <sup>3</sup> / min	2,917		2,917	
		L/s	6,179		6,179	
		cfm	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Control, Driving mechanism	kW		0.92 x 1		0.92 x 1
*4 External static press.	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.6		6.9	
	Case heater	kW	- (- V)		- (- V)	
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight		kg (lbs)	232 (512)		232 (512)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			-		-	
Pipe between unit and distributor	High pressure	mm (in.)	15.88 (5/8) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	19.05 (3/4) Brazed		-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94T760			
	Wiring		KE94C773		KE94C773	
Standard attachment	Document		Installation Manual			
	Accessory					
Optional parts			Outdoor Twinning kit: CMY-R100VBK2 Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.			

Notes :	Unit converter
1. Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h = kW x 3,412
2. Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm = m <sup>3</sup> /min x 35.31
3. -10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	lbs = kg / 0.4536
4. External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP500YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	56.0	
		kcal / h	48,200	
		BTU / h	191,100	
	Power input	kW	14.54	
		A	24.5-23.3-22.4	
COP		3.85		
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	63.0	
		kcal / h	54,200	
		BTU / h	215,000	
	Power input	kW	16.15	
		A	27.2-25.9-24.9	
COP		3.90		
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~50	
Sound pressure level (measured in anechoic room)		dB <A>	63	
Sound power level (measured in anechoic room)		dB <A>	83	
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	

Set Model			PURY-EP250YKM-A (-BS)		PURY-EP250YKM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m <sup>3</sup> / min	175		175	
		L/s	2,917		2,917	
		cfm	6,179		6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
*4 Motor output	kW	0.92 x 1		0.92 x 1		
External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	6.9		6.9	
	Case heater	kW	- (- V)		- (- V)	
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,220 x 740	
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight		kg (lbs)	232 (512)		232 (512)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			-		-	
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94T760			
	Wiring		KE94C773		KE94C773	
Standard attachment	Document		Installation Manual			
	Accessory					
Optional parts			Outdoor Twinning kit: CMY-R100VBK2 Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.			

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m <sup>3</sup> /min x 35.31
3.-10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	lbs =kg / 0.4536
4.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			<b>PURY-EP550YSKM-A (-BS)</b>		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		
		kcal / h	54,200		
		BTU / h	215,000		
	Power input	kW	15.98		
		Current input	A	26.9-25.6-24.7	
COP		kW / kW	3.94		
Temp. range of cooling	*3	Indoor	W.B.	15.0~24.0°C (59~75°F)	
		Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	69.0		
		kcal / h	59,300		
		BTU / h	235,400		
	Power input	kW	17.64		
		Current input	A	29.7-28.2-27.2	
COP		kW / kW	3.91		
Temp. range of heating	*3	Indoor	D.B.	15.0~27.0°C (59~81°F)	
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/1~50		
Sound pressure level (measured in anechoic room)		dB <A>	63		
Sound power level (measured in anechoic room)		dB <A>	83		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		

Set Model			<b>PURY-EP250YKM-A (-BS)</b>			<b>PURY-EP300YKM-A (-BS)</b>		
FAN	Type x Quantity		Propeller fan x 1			Propeller fan x 2		
	Air flow rate	m <sup>3</sup> / min	175			320		
		L/s	2,917			5,333		
		cfm	6,179			11,299		
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
*4	Motor output	kW	0.92 x 1			0.92 x 2		
External static press.		0 Pa (0 mmH <sub>2</sub> O)			0 Pa (0 mmH <sub>2</sub> O)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter			Inverter		
	Motor output	kW	6.9			8.1		
	Case heater	kW	- (- V)			- (- V)		
Lubricant		MEL32			MEL32			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			mm 1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16			mm 1,710 (1,650 without legs) x 1,750 x 740 67-3/8 (65 without legs) x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		Over-heat protection			Over-heat protection		
	Fan motor		-			-		
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)			R410A x 11.8 kg (27 lbs)		
	Control		Indoor LEV and BC controller					
Net weight		kg (lbs)	232 (512)			322 (710)		
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			-			-		
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Low pressure	mm (in.)	22.2 (7/8) Brazed			-		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)					
Drawing	External		KD94T761					
	Wiring		KE94C773			KE94C774		
Standard attachment	Document		Installation Manual					
	Accessory							
Optional parts			Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.					

Notes :		Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)		BTU/h = kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)		cfm = m <sup>3</sup> /min x 35.31
3.-10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.		lbs = kg / 0.4536
4.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).		*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			PURY-EP600YSKM-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	69.0	
		kcal / h	59,300	
		BTU / h	235,400	
	Power input	kW	17.07	
		A	28.8-27.3-26.3	
COP		kW / kW	4.04	
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	76.5	
		kcal / h	65,800	
		BTU / h	261,000	
	Power input	kW	19.51	
		A	32.9-31.2-30.1	
COP		kW / kW	3.92	
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~50	
Sound pressure level (measured in anechoic room)		dB <A>	63	
Sound power level (measured in anechoic room)		dB <A>	83	
Refrigerant piping diameter	High pressure		28.58 (1-1/8) Brazed	
	Low pressure		28.58 (1-1/8) Brazed	

Set Model

Model			PURY-EP300YKM-A (-BS)		PURY-EP300YKM-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m <sup>3</sup> / min	320		320	
		L/s	5,333		5,333	
		cfm	11,299		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
*4	Motor output	kW	0.92 x 2		0.92 x 2	
	External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1		8.1	
	Case heater	kW	- (- V)		- (- V)	
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740		1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight		kg (lbs)	322 (710)		322 (710)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			-		-	
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94T762			
	Wiring		KE94C774		KE94C774	
Standard attachment	Document		Installation Manual			
	Accessory					
Optional parts			Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.			

Notes :

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- 10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)  
with cooling/heating mixed operation.
- External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).

Unit converter	
BTU/h	=kW x 3.412
cfm	=m <sup>3</sup> /min x 35.31
lbs	=kg / 0.4536
*Above specification data is subject to rounding variation.	



# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			<b>PURY-EP650YSKM-A (-BS)</b>		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	73.0		
		kcal / h	62,800		
		BTU / h	249,100		
	Power input	kW	18.91		
		Current input	A	31.9-30.3-29.2	
COP		kW / kW	3.86		
Temp. range of cooling	*3	Indoor	W.B.	15.0~24.0°C (59~75°F)	
		Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	81.5		
		kcal / h	70,100		
		BTU / h	278,100		
	Power input	kW	21.16		
		Current input	A	35.7-33.9-32.7	
COP		kW / kW	3.85		
Temp. range of heating	*3	Indoor	D.B.	15.0~27.0°C (59~81°F)	
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/1~50		
Sound pressure level (measured in anechoic room)	dB <A>		64		
Sound power level (measured in anechoic room)	dB <A>		84		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		

Set Model			<b>PURY-EP300YKM-A (-BS)</b>			<b>PURY-EP350YKM-A (-BS)</b>		
FAN	Type x Quantity		Propeller fan x 2			Propeller fan x 2		
	Air flow rate	m <sup>3</sup> / min	320			320		
		L/s	5,333			5,333		
		cfm	11,299			11,299		
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
*4	Motor output	kW	0.92 x 2			0.92 x 2		
External static press.	0 Pa (0 mmH <sub>2</sub> O)			0 Pa (0 mmH <sub>2</sub> O)				
Compressor	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter			Inverter		
	Motor output	kW	8.1			10.5		
	Case heater	kW	- (- V)			- (- V)		
Lubricant	MEL32			MEL32				
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16			mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		Over-heat protection			Over-heat protection		
	Fan motor		-			-		
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)			R410A x 11.8 kg (27 lbs)		
	Control		Indoor LEV and BC controller					
Net weight	kg (lbs)		322 (710)			322 (710)		
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			-			-		
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Low pressure	mm (in.)	22.2 (7/8) Brazed			-		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)					
Drawing	External		KD94T762					
	Wiring		KE94C774			KE94C774		
Standard attachment	Document		Installation Manual					
	Accessory							
Optional parts			Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
Remarks			<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.					

Notes :	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	cfm =m3/min x 35.31
3.-10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	lbs =kg / 0.4536
4.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).	*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

EP-YKM

R2 (HIGH COP)

Model			<b>PURY-EP700YSKM-A (-BS)</b>		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	80.0		
		kcal / h	68,800		
		*1 BTU / h	273,000		
	Power input	kW	21.79		
		Current input	A	36.7-34.9-33.6	
COP		kW / kW	3.67		
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	88.0		
		kcal / h	75,700		
		*2 BTU / h	300,300		
	Power input	kW	23.28		
		Current input	A	39.3-37.3-35.9	
COP		kW / kW	3.78		
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/1~50		
Sound pressure level (measured in anechoic room)		dB <A>	65		
Sound power level (measured in anechoic room)		dB <A>	85		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed		

Set Model						
Model		<b>PURY-EP350YKM-A (-BS)</b>		<b>PURY-EP350YKM-A (-BS)</b>		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m <sup>3</sup> / min	320		320	
		L/s	5,333		5,333	
		cfm	11,299		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
*4 Motor output	kW	0.92 x 2		0.92 x 2		
External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	10.5		10.5	
	Case heater	kW	- (- V)		- (- V)	
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,710 (1,650 without legs) x 1,750 x 740		1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight		kg (lbs)	322 (710)		322 (710)	
Heat exchanger		Salt-resistant cross fin & copper tube				
HIC circuit (HIC: Heat Inter-Changer)		-				
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		-	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External	KD94T762				
	Wiring	KE94C774		KE94C774		
Standard attachment	Document	Installation Manual				
	Accessory					
Optional parts		Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				
Remarks		<ul style="list-style-type: none"> <li>•Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</li> <li>•Due to continuing improvement, above specifications may be subject to change without notice.</li> <li>•Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</li> <li>•The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit.</li> </ul> If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.				

Notes :		Unit converter
1.Nominal cooling conditions (subject to JIS B8615-2) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)		BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-2) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)		cfm =m <sup>3</sup> /min x 35.31
3.-10°C D.B. (14°F D.B.)/-11°C W.B. (12.2°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.		lbs =kg / 0.4536
4.External static pressure option is available (30Pa, 60Pa / 3.1mmH <sub>2</sub> O, 6.1mmH <sub>2</sub> O).		*Above specification data is subject to rounding variation.

## PURY-EP200, 250YKM-A(-BS)

Unit : mm

R2 (HIGH COP)

- <Accessories>
- Connecting pipe
  - <Low pressure>
    - Pipe (IDø25.4XODø19.05) ... EP200 1 pc.
    - Elbow (IDø19.05XODø19.05) ... EP200 1 pc.
    - Elbow (IDø25.4XIDø22.2) ... EP250 1 pc.
  - <High pressure>
    - Pipe (IDø25.4XODø15.88) ... EP200 1 pc.
    - Elbow (IDø15.88XIDø15.88) ... EP200 1 pc.
    - Pipe (IDø25.4XODø19.05) ... EP250 1 pc.
    - Elbow (IDø19.05XODø19.05) ... EP250 1 pc.

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

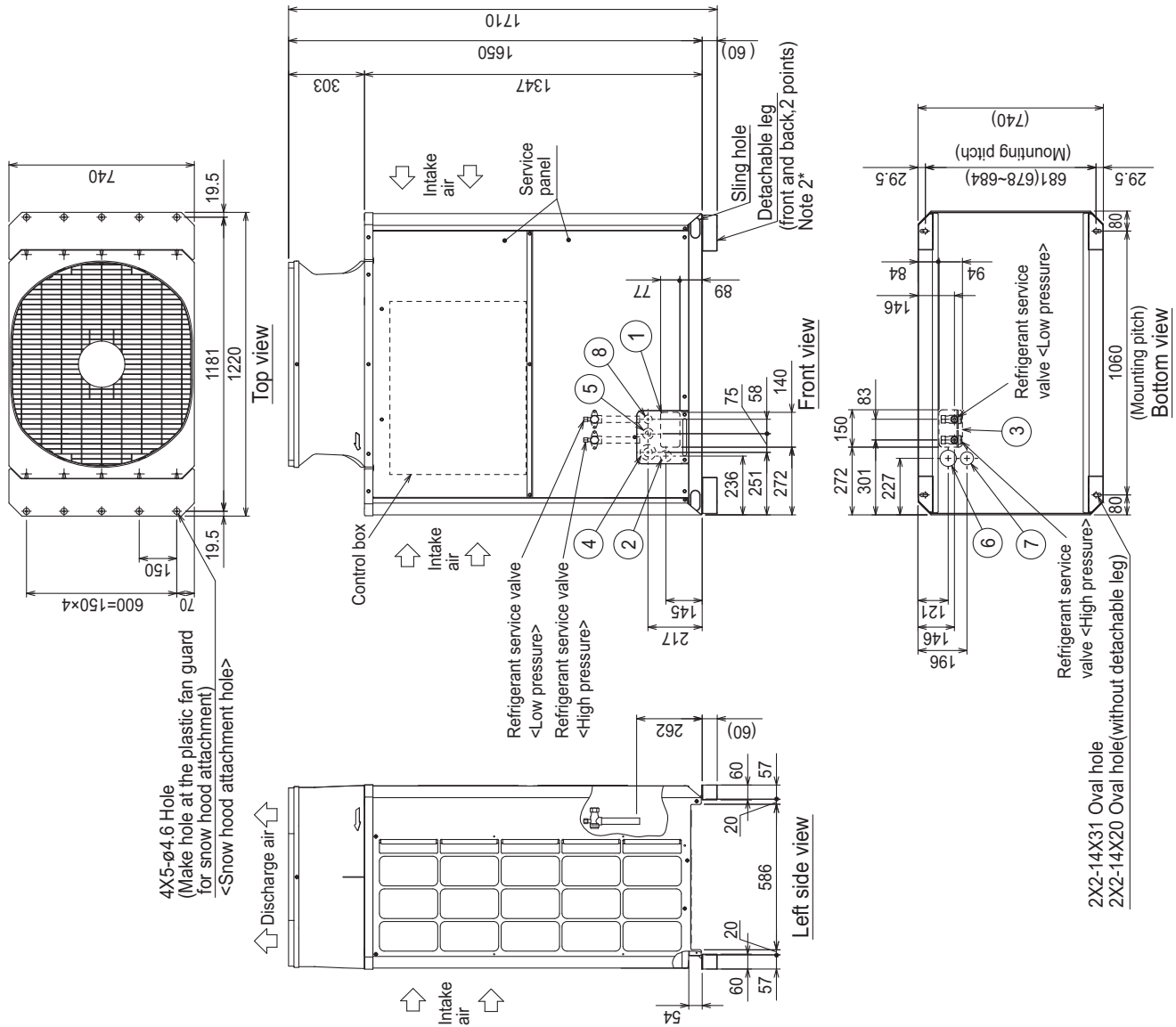
- The detachable leg can be removed at site.
- At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-EP200YKM	ø15.88 Brazed <sup>*1</sup>	ø19.05 Brazed <sup>*1</sup>	ø25.4	ø25.4
PURY-EP250YKM	ø19.05 Brazed <sup>*1</sup>	ø22.2 Brazed <sup>*1</sup>	ø25.4	ø25.4

\*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole
②	Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole
③	Bottom through hole	150 x 94 Knockout hole
④	Front through hole	ø65 or ø40 Knockout hole
⑤	Front through hole	ø52 or ø27 Knockout hole
⑥	Bottom through hole	ø65 Knockout hole
⑦	Bottom through hole	ø52 Knockout hole
⑧	Front through hole	ø34 Knockout hole



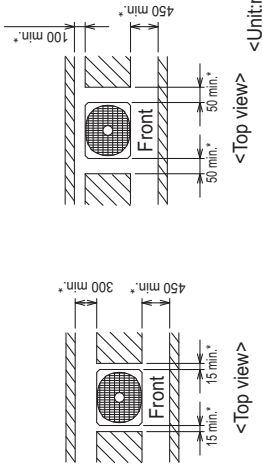
PURY-EP200, 250YKM-A(-BS)

Unit : mm

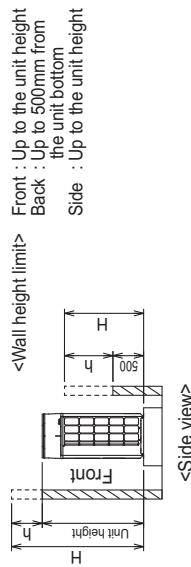
1. Required space around the unit

● In case of single installation

- Secure enough space around the unit as shown in the figure below.
  - With a space of at least 300mm to the wall on the back of the unit



- When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



2. Foundation work

- Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
  - Note that the drain water comes out of the unit during operation.
- Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig.A,B)
  - When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A,B)
- Use four fixing plates as shown in the right figure. <field supply required> when using post-installed anchor bolts. (Fig.C,D)
  - To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates. <field supply required>.
- When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- Refer to the Installation Manual when installing units on an installation base.

● In case of collective installation

- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.

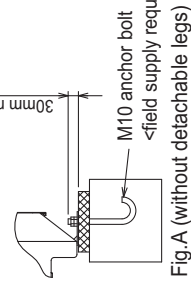
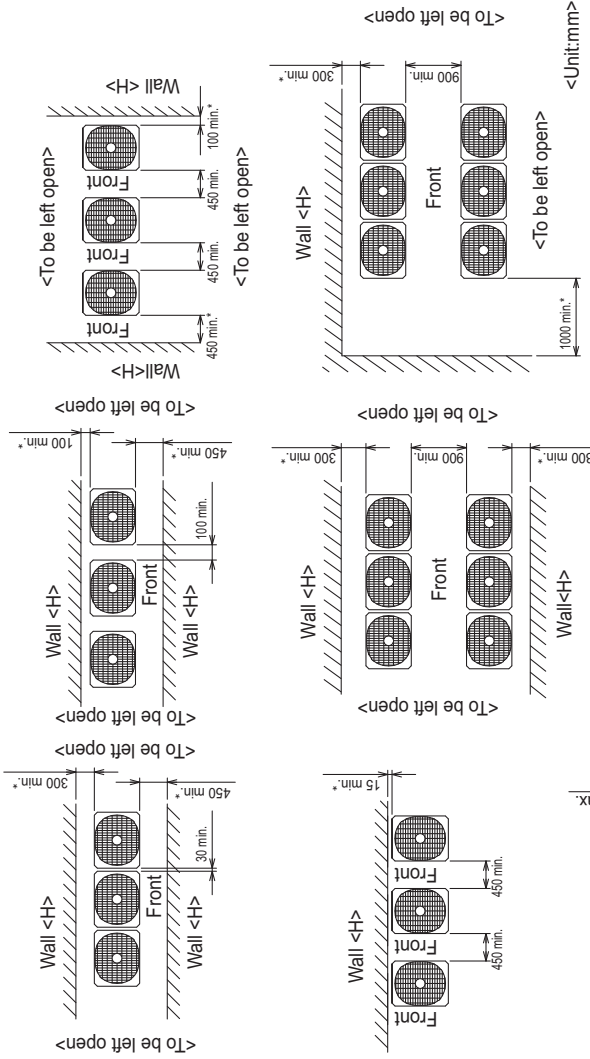


Fig.A (without detachable legs)  
<field supply required>

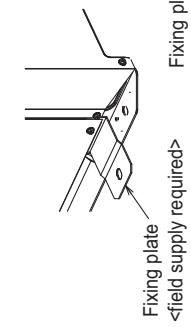


Fig.C (without detachable legs)  
<field supply required>

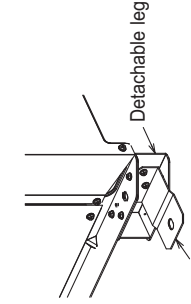


Fig.D (with detachable legs)  
<field supply required>

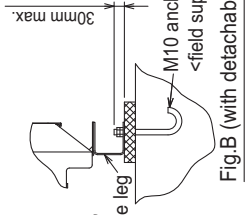


Fig.B (with detachable legs)  
<field supply required>

# 2. EXTERNAL DIMENSIONS

EP-YKM

R2 (HIGH COP)

## PURY-EP300, 350, 400, 450YKM-A-(BS)

Unit : mm

- <Accessories>
- Connecting pipe
    - <Low pressure>
      - Pipe (IDø28.58XODø22.2) ... EP300 1 pc.
      - Elbow (IDø28.58XODø28.58) ... EP300,350,400,450 1 pc.
    - <High pressure>
      - Pipe (IDø25.4XODø19.05) ... EP300,350 1 pc.
      - Elbow (IDø19.05XODø19.05) ... EP300,350 1 pc.
      - Pipe (IDø25.4XODø22.2) ... EP400,450 1 pc.

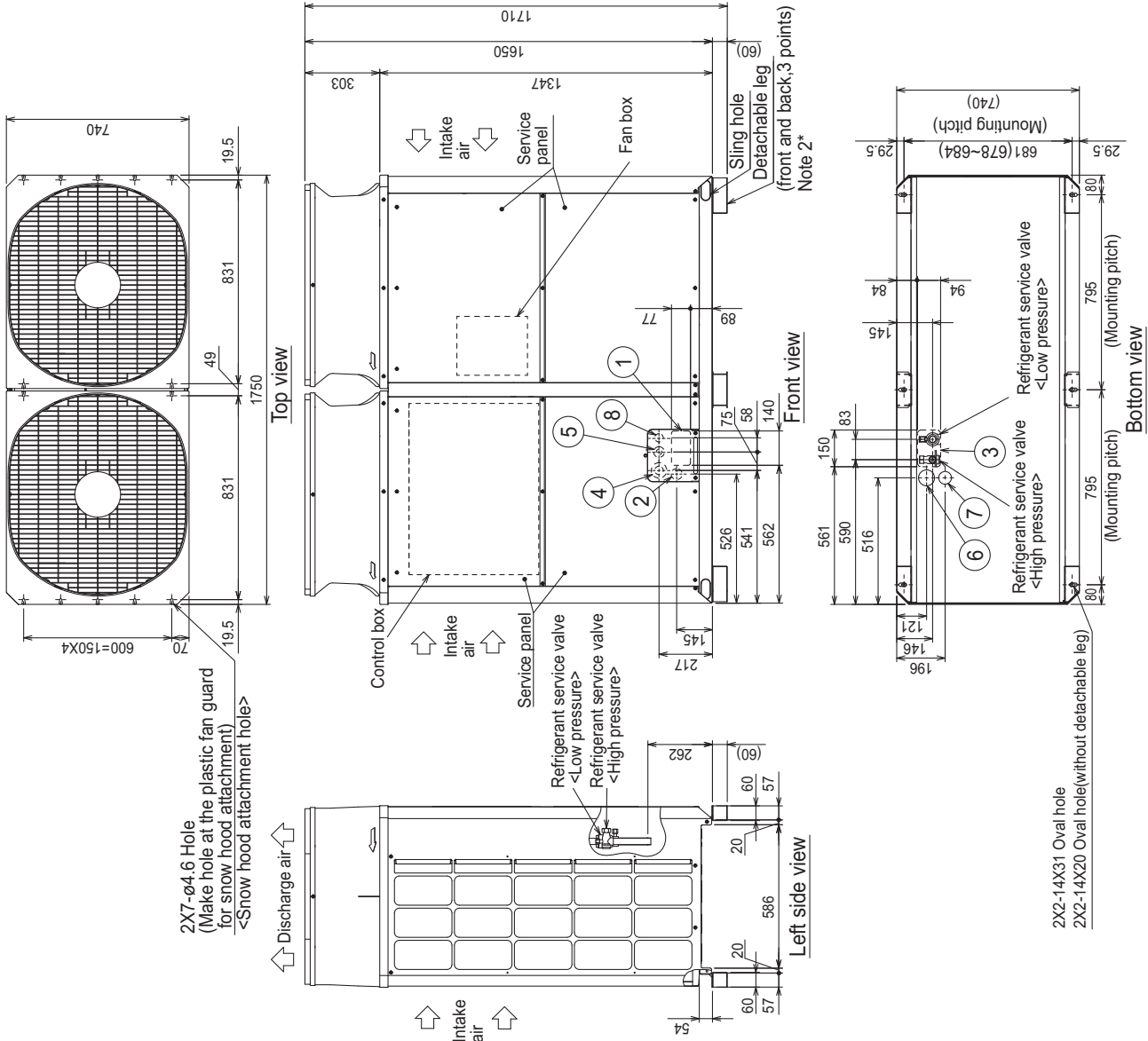
Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.  
 2. The detachable leg can be removed at site.  
 3. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-EP300YKM	ø19.05 Brazed <sup>*1</sup>	ø22.2 Brazed <sup>*1</sup>	ø25.4	ø28.58
PURY-EP350YKM	ø19.05 Brazed <sup>*1</sup>	ø28.58 Brazed <sup>*1</sup>	ø25.4	ø28.58
PURY-EP400YKM	ø22.2 Brazed <sup>*1</sup>	ø28.58 Brazed <sup>*1</sup>	ø25.4	ø28.58
PURY-EP450YKM	ø22.2 Brazed <sup>*1</sup>	ø28.58 Brazed <sup>*1</sup>	ø25.4	ø28.58

\*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NC.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole
②	Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole
③	Bottom through hole	150 x 94 Knockout hole
④	Front through hole	ø65 or ø40 Knockout hole
⑤	Front through hole	ø52 or ø27 Knockout hole
⑥	Bottom through hole	ø65 Knockout hole
⑦	Bottom through hole	ø52 Knockout hole
⑧	For transmission cables	Front through hole ø34 Knockout hole



PURY-EP300, 350, 400, 450YKM-A-(BS)

Unit : mm

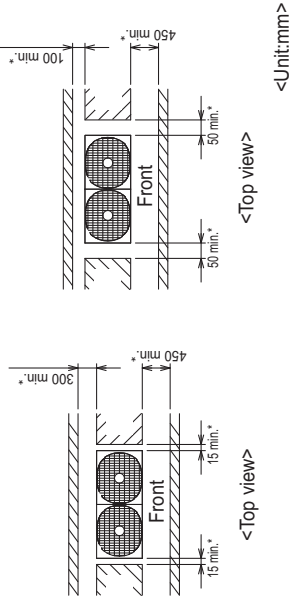
1. Required space around the unit

● In case of single installation

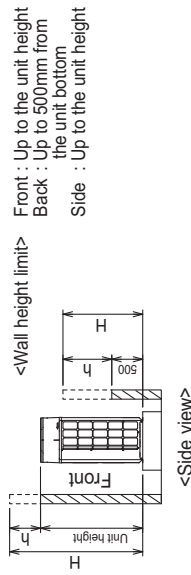
- ① Secure enough space around the unit as shown in the figure below.

·With a space of at least 300mm to the wall on the back of the unit

·With a space of at least 100mm to the wall on the back of the unit



- ② When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site. <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig.A,B) When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- ③ The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A,B)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.C,D)
- ⑤ To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.

● In case of collective installation

- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- 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 1000mm or more as inlet space/ passage space for each three units.

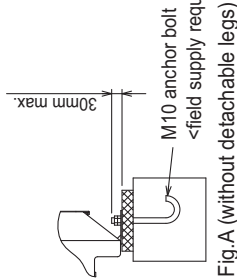
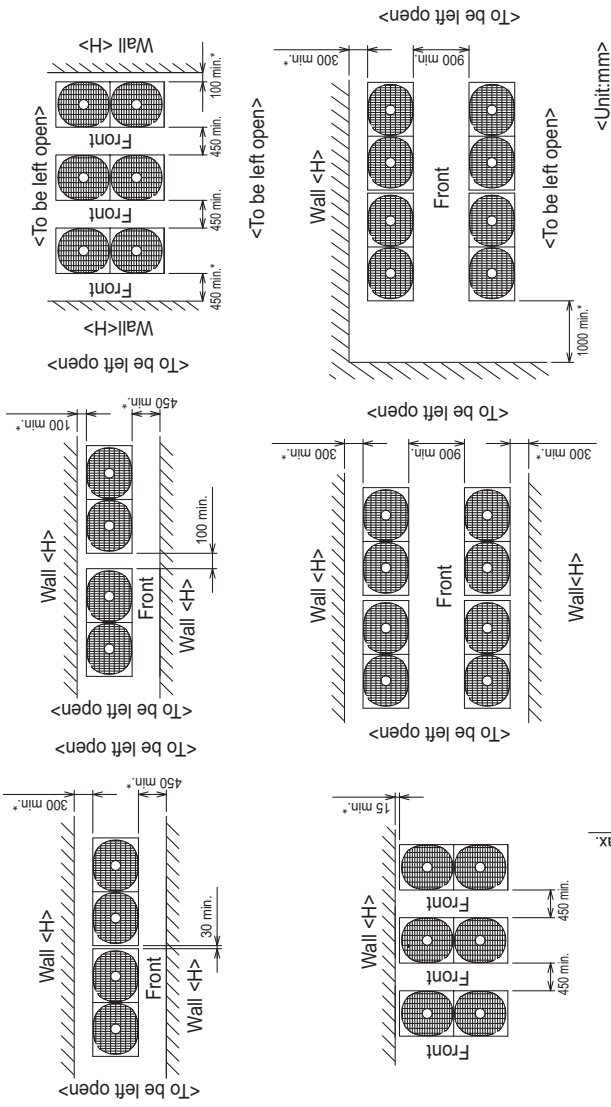


Fig.A (without detachable legs)

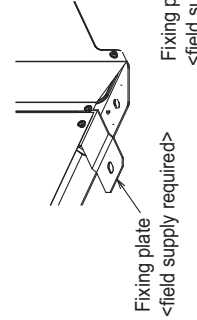


Fig.C (without detachable legs)

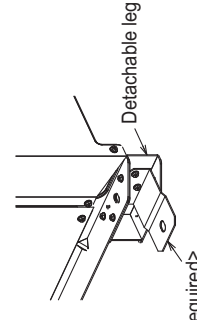


Fig.D (with detachable legs)

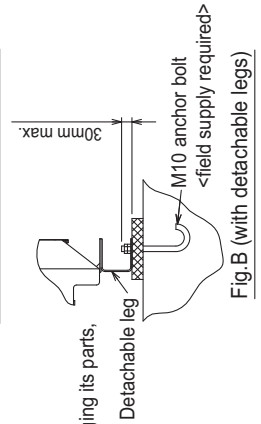


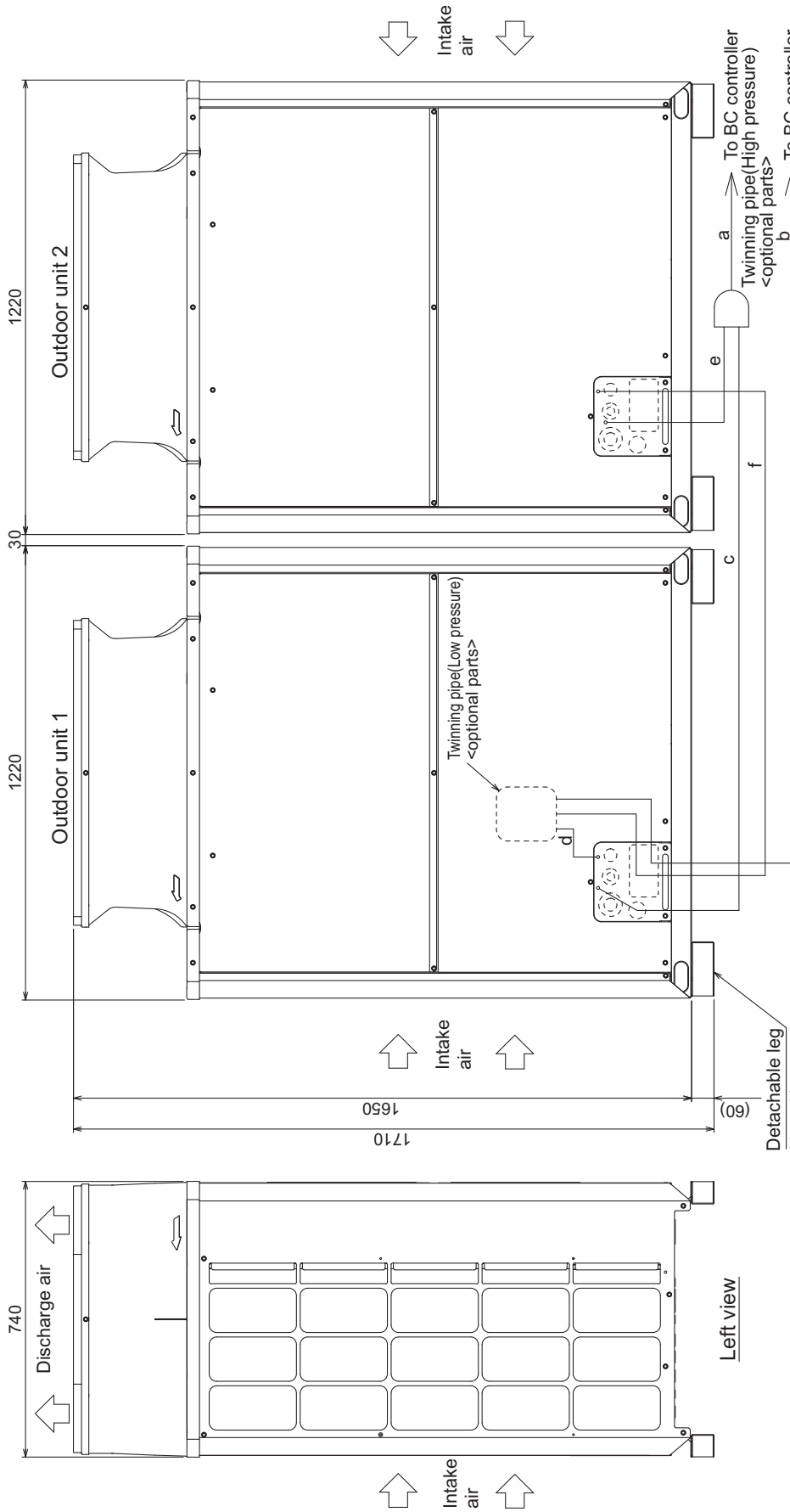
Fig.B (with detachable legs)

## 2. EXTERNAL DIMENSIONS

EP-YKM

PURY-EP400, 450, 500YSKM-A(-BS)

Unit : mm



Front view

Left view

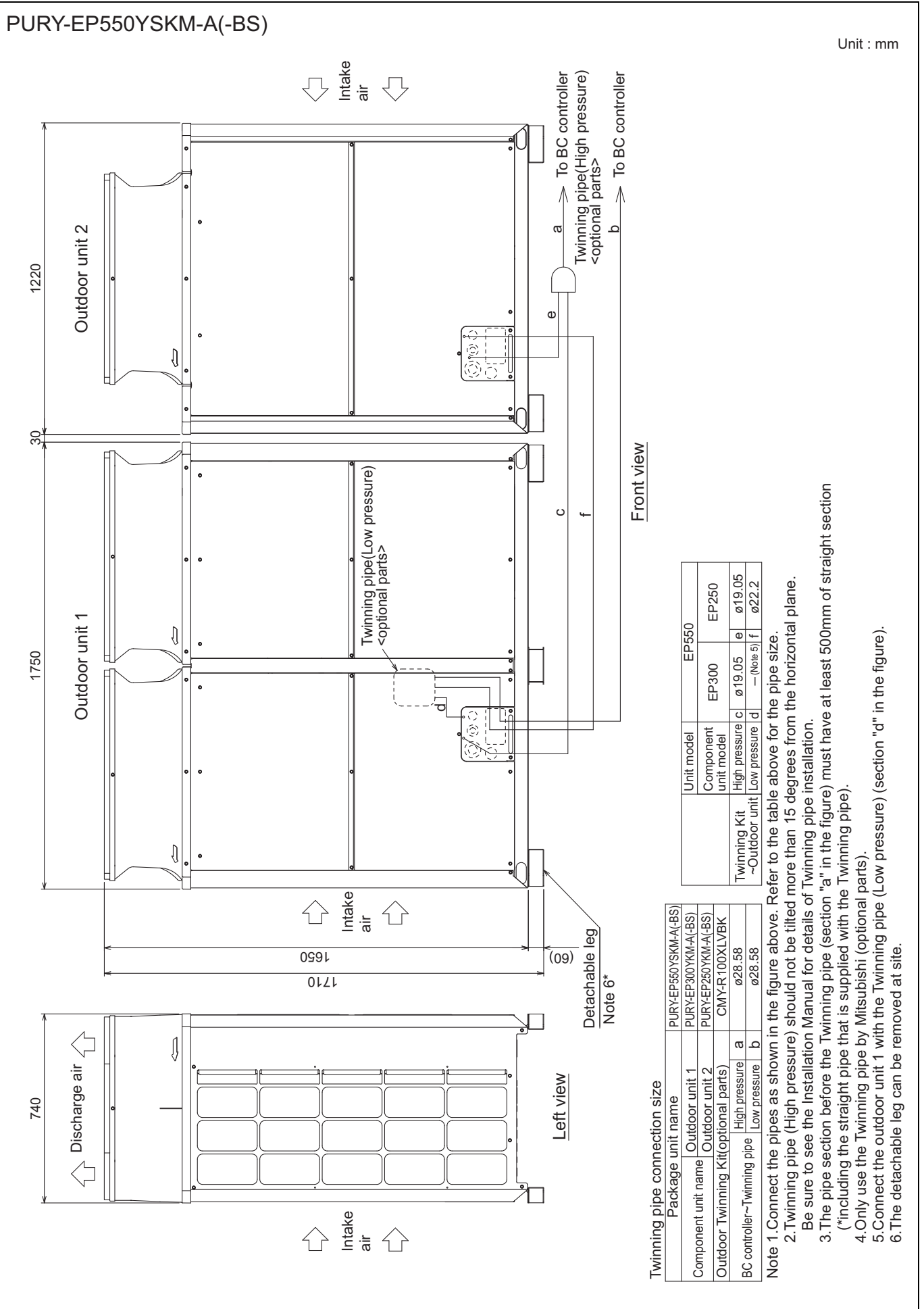
Twinning pipe connection size

Package unit name	PURY-EP400YSKM-A(-BS)	PURY-EP450YSKM-A(-BS)	PURY-EP500YSKM-A(-BS)
Outdoor unit 1	PURY-EP200YKMA(-BS)	PURY-EP250YKMA(-BS)	PURY-EP250YKMA(-BS)
Outdoor unit 2	PURY-EP200YKMA(-BS)	PURY-EP200YKMA(-BS)	PURY-EP250YKMA(-BS)
Outdoor Twinning Kit(optional parts)	CMY-R100VBK2		
BC controller~Twinning pipe	High pressure	a	ø22.2
	Low pressure	b	ø28.58

Unit model	EP400		EP450		EP500	
	Component unit model	EP200	EP250	EP200	EP250	EP250
Twinning Kit ~Outdoor unit	High pressure	c	ø15.88	e	ø15.88	c
	Low pressure	d	ø19.05	f	ø19.05	d
			(Note 5)		(Note 5)	f
						e
						ø19.05
						ø22.2

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.  
 2. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.  
 Be sure to see the Installation Manual for details of Twinning pipe installation.  
 3. The pipe section before the Twinning pipe (section "a" in the figure) must have at least 500mm of straight section (\*including the straight pipe that is supplied with the Twinning pipe).  
 4. Only use the Twinning pipe by Mitsubishi (optional parts).  
 5. Connect the outdoor unit 1 with the Twinning pipe (Low pressure) (section "d" in the figure).  
 6. The detachable leg can be removed at site.

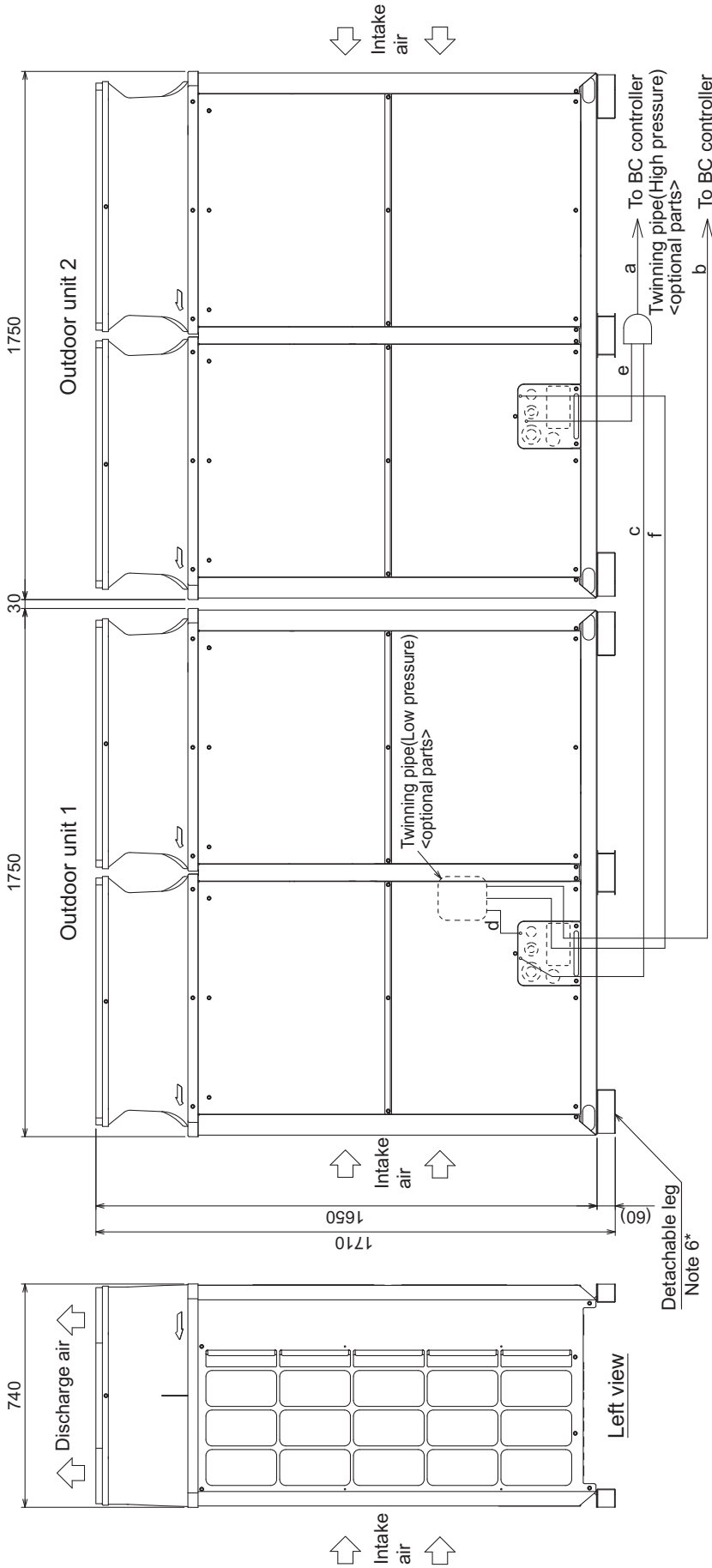
R2 (HIGH COP)





R2 (HIGH COP)

## PURY-EP600, 650, 700YSKM-A(-BS)



Front view

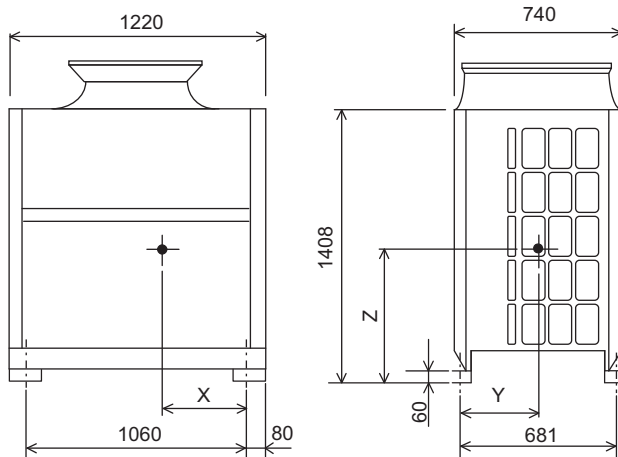
Package unit name	PURY-EP600YSKM-A(-BS)   PURY-EP650YSKM-A(-BS)   PURY-EP700YSKM-A(-BS)					
	Outdoor unit 1	Outdoor unit 2	High pressure	Low pressure	a	b
Component unit name	PURY-EP300YKM-A(-BS)   PURY-EP350YKM-A(-BS)   PURY-EP300YKM-A(-BS)   PURY-EP350YKM-A(-BS)		CMY-R100XLVBK			
Outdoor Twinning Kit (optional parts)	PURY-EP300YKM-A(-BS)   PURY-EP350YKM-A(-BS)		ø28.58			
BC controller~Twinning pipe	High pressure	a	ø28.58		ø34.93	
	Low pressure	b	ø28.58		ø28.58	

Unit model	EP600		EP650		EP700	
	EP300	EP350	EP300	EP350	EP300	EP350
Twinning Kit ~Outdoor unit	c	d	e	f	g	h
High pressure	ø19.05	ø19.05	ø19.05	ø19.05	ø19.05	ø19.05
Low pressure	ø22.2	ø22.2	ø22.2	ø22.2	ø22.2	ø28.58

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.  
 2. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.  
 3. The pipe section before the Twinning pipe (section "a" in the figure) must have at least 500mm of straight section (\*including the straight pipe that is supplied with the Twinning pipe).  
 4. Only use the Twinning pipe by Mitsubishi (optional parts).  
 5. Connect the outdoor unit 1 with the Twinning pipe (Low pressure) (section "d" in the figure).  
 6. The detachable leg can be removed at site.

Unit : mm

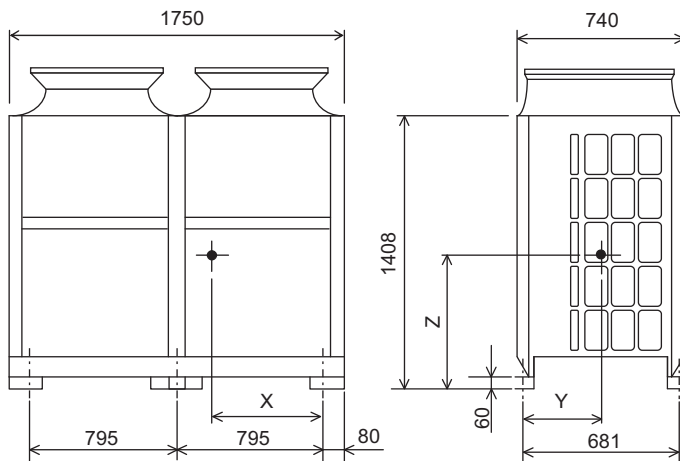
#### PURY-EP200, 250YKM-A (-BS)



Unit : mm

Model	X	Y	Z
PURY-EP200YKM-A	461.5	317	667
PURY-EP250YKM-A	461.5	317	667

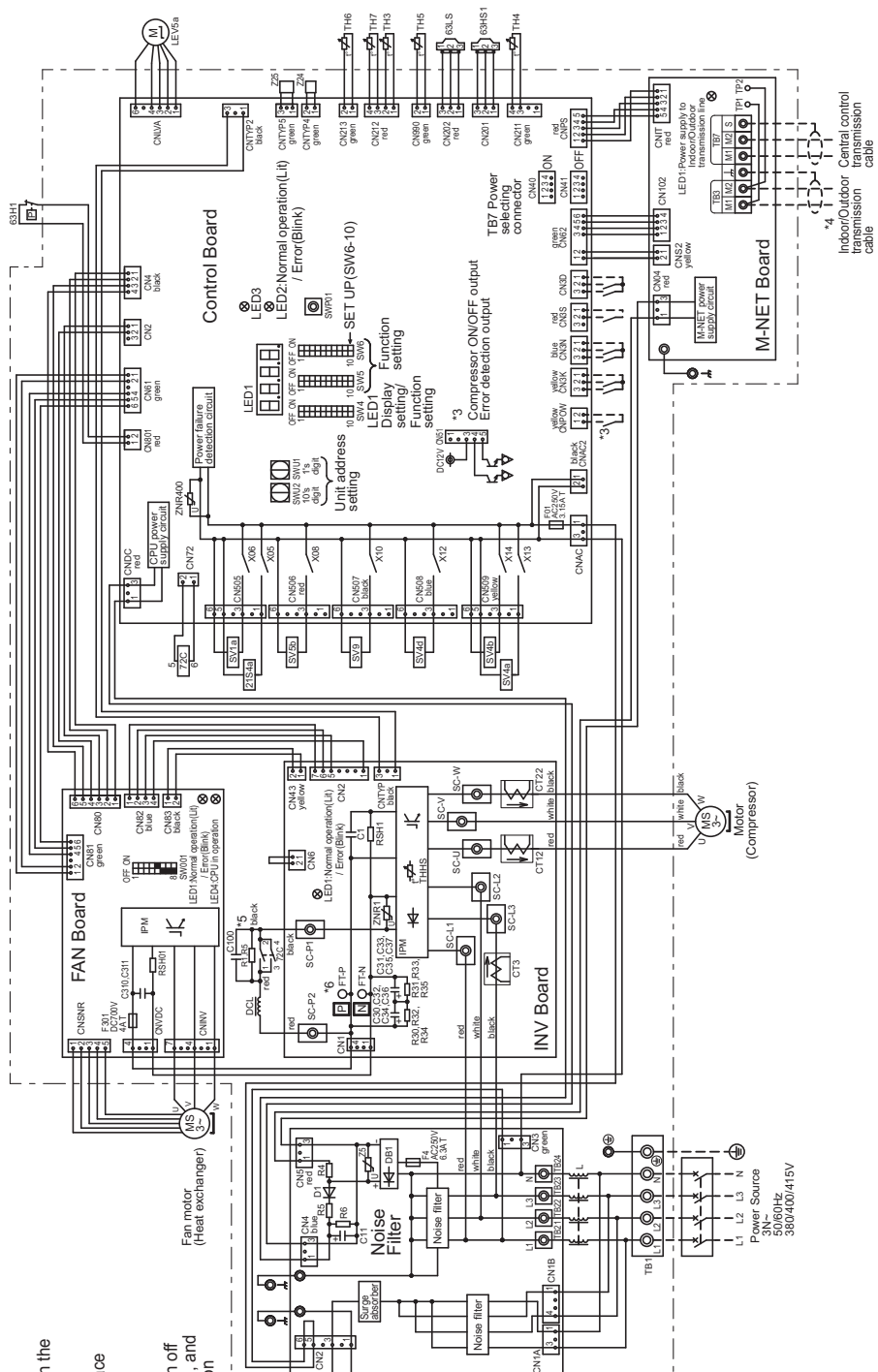
#### PURY-EP300, 350, 400, 450YKM-A (-BS)



Unit : mm

Model	X	Y	Z
PURY-EP300YKM-A	705	324	713
PURY-EP350YKM-A	705	324	713
PURY-EP400YKM-A	705	324	713
PURY-EP450YKM-A	705	324	713

## PURY-EP200, 250YKM-A(-BS)



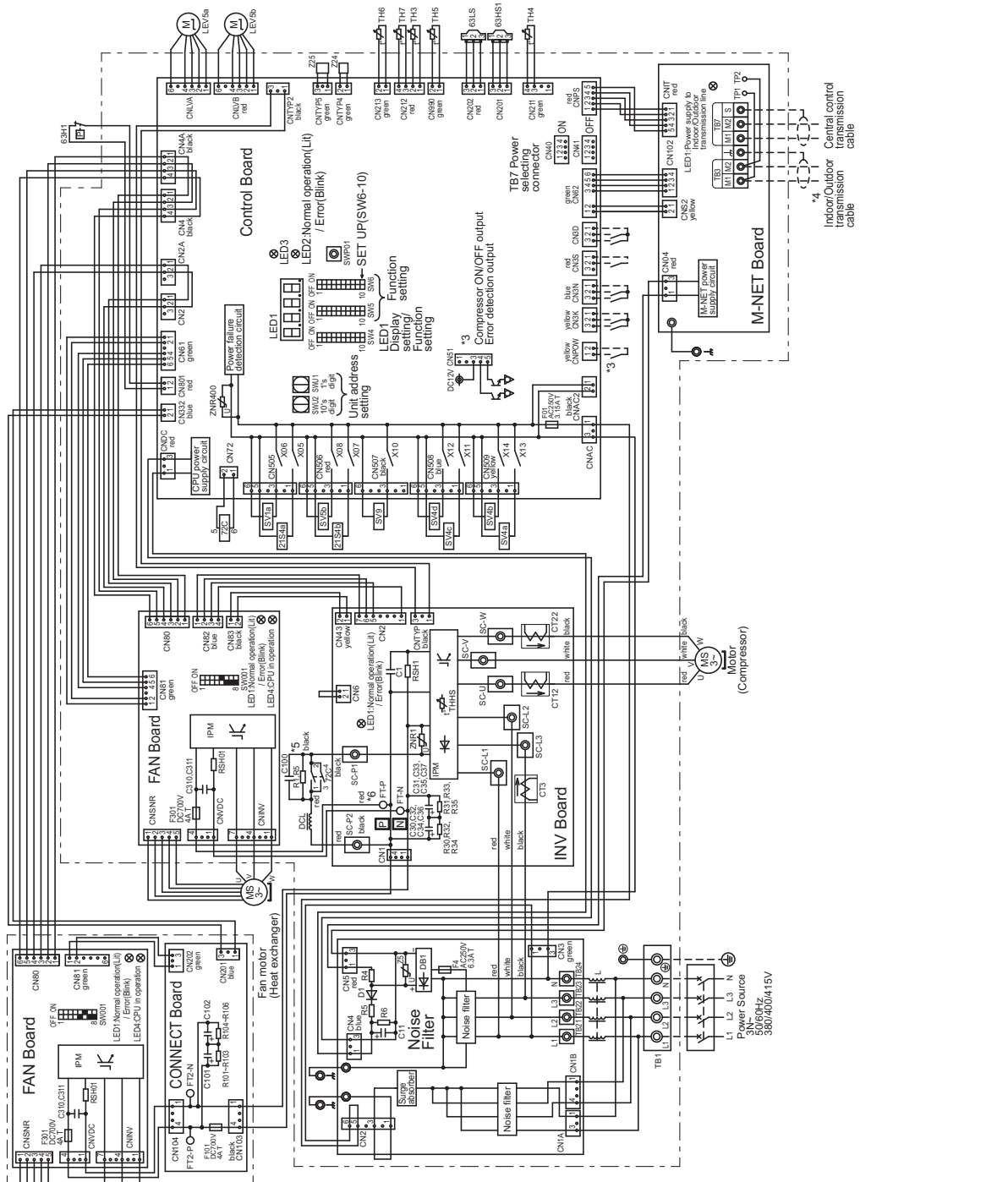
- \*1. Single-dotted lines indicate wiring not supplied with the unit.
- \*2. Dot-dash lines indicate the control box boundaries.
- \*3. Refer to the Data book for connecting input/output signal connectors.
- \*4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- \*5. Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to removed them.
- \*6. Control box houses high-voltage parts. Before inspecting the inside of the control box, turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage between FT-P and FT-N on INV Board has dropped to DC20V or less.

### <Symbol explanation>

Symbol	Explanation
Z15a	4-way valve (Ceiling/heating switching)
63H	Pressure switch for outdoor unit
63H51	Pressure sensor
63LS	Low pressure
ZC	Magnetic relay (inverter main circuit)
C3P-C37	Capacitor (inverter main circuit)
CT12.22.3	Current sensor (AC)
DCL	DC reactor
L	Choke coil (for high frequency noise reduction)
LEV58	Linear expansion valve (for the control of evaporating temperature)
RT15	Resistor
RS101,RS11	For inrush current prevention
SV1a	Solenoid valve
SV6a,b,d	For opening/closing the bypass circuit
SV6	Heat exchanger capacity control
SV9	Outdoor unit heat exchanger capacity control
SV9	For opening/closing the bypass circuit
TB1	Power supply
TB3	Indoor/Outdoor transmission cable
TB7	Central control transmission cable
TH3	Pipe temperature
TH4	Discharge pipe temperature
TH5	A.C.C. inlet pipe temperature
TH6	Superheated refrigerant temperature
TH7	IPM temperature
TH8	IPM temperature
Z24,25	Function setting connector

R2 (HIGH COP)

## PURY-EP300, 350, 400, 450YKM-A(-BS)

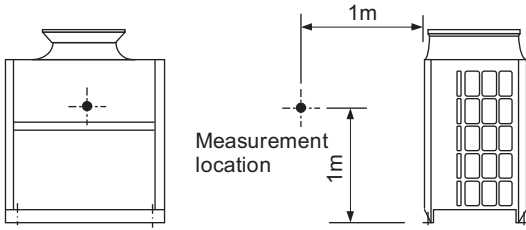


- \*1. Single-dotted lines indicate wiring not supplied with the unit.
- \*2. Dotted lines indicate the control box boundaries.
- \*3. Refer to the Data book for connecting input/output signal connectors.
- \*4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- \*5. Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to removed them.
- \*6. Control box houses high-voltage parts. Before inspecting the inside of the control box, turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage between F-P and F1-N on INV Board has dropped to DC20V or less.

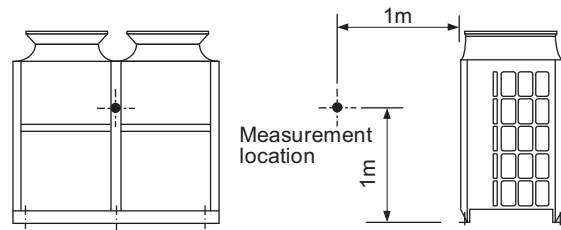
<<Symbol explanation>

Symbol	Explanation
21S.4b	4-way valve
21S.4c	Cooling/heating capacity control
6BH1	Heat exchanger capacity control outdoor unit
6BH.S1	High pressure protection for the outdoor unit
6BH.S2	Pressure
6BH.S3	Discharge pressure
6BH.S4	Pressure
Z7C	Low pressure
C50-C37	Magnetic relay (inverter main circuit)
CT12.22.3	Capacitor (inverter main circuit)
DCL	Current sensor (AC)
L	DC reactor
LEV5a.b	Choke coil (for high frequency noise reduction)
RL5	Line reactor (for the control of line starting time)
RSH1, RSH2	Reactor
SV1a	For inrush current prevention
SV1a.b.c.d	Solenoid valve
SV1a.b.c.d	For opening/closing the bypass circuit under the O/S
SV1b	Heat exchanger capacity control outdoor unit heat exchanger capacity control
SV9	For opening/closing the bypass circuit
TB1	Terminal block
TB3	Indoor/Outdoor transmission cable
TB7	Central control transmission cable
TH3	Thermistor
TH4	Discharge temperature
TH5	AC input pipe temperature
TH6	Subcooled liquid refrigerant temperature
TH7	O/A temperature
THH5	IPM temperature
Z24.25	Function setting connector

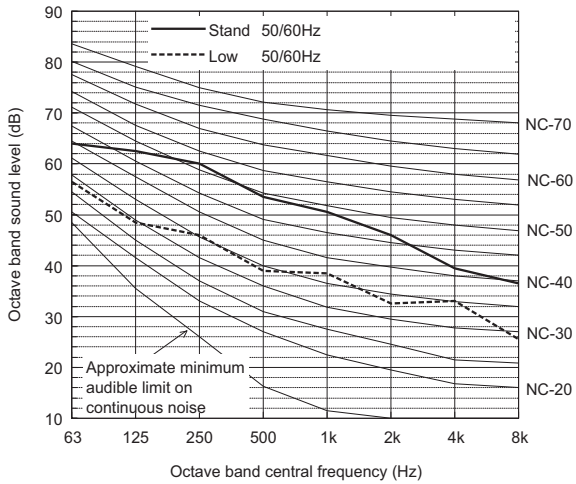
Measurement condition  
PURY-EP200, 250YKM-A(-BS)



Measurement condition  
PURY-EP300, 350, 400, 450YKM-A(-BS)



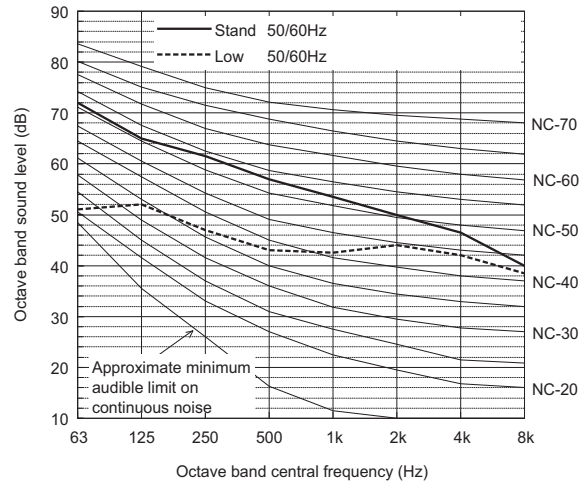
Sound level of PURY-EP200YKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	64.0	62.5	60.0	53.5	50.5	46.0	39.5	36.5	57.0
Low noise mode	50/60Hz	56.5	48.5	46.0	39.0	38.5	32.5	33.0	25.5	44.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

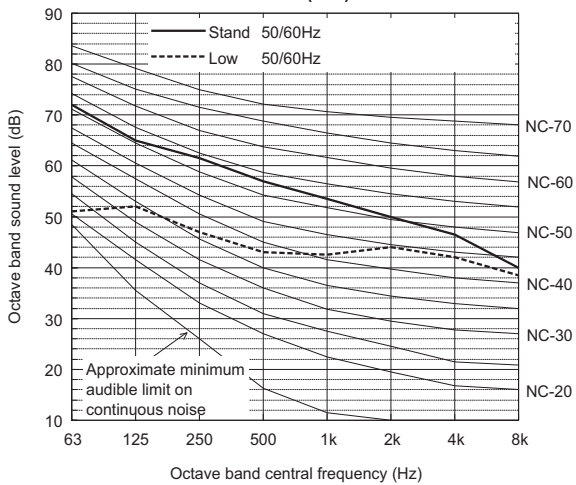
Sound level of PURY-EP300YKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.0	65.0	61.5	57.0	53.5	50.0	46.5	40.0	60.0
Low noise mode	50/60Hz	51.0	52.0	47.0	43.0	42.5	44.0	42.0	38.5	50.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

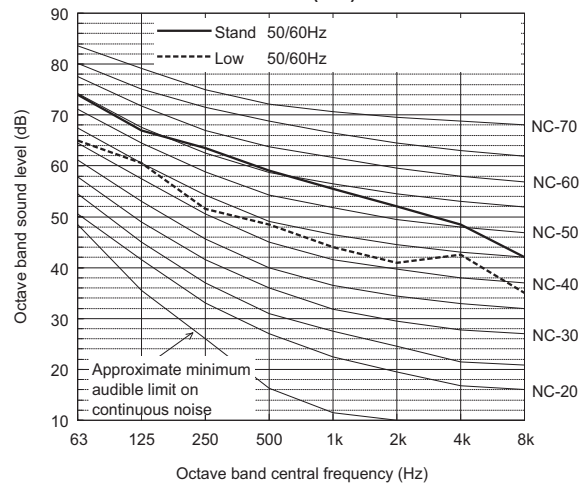
Sound level of PURY-EP250YKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.0	65.0	61.5	57.0	53.5	50.0	46.5	40.0	60.0
Low noise mode	50/60Hz	51.0	52.0	47.0	43.0	42.5	44.0	42.0	38.5	50.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

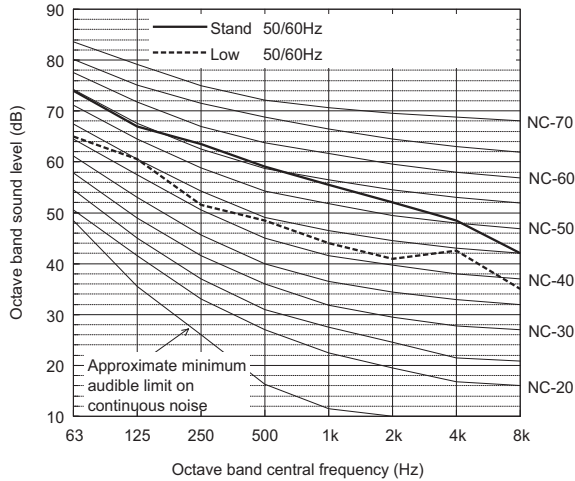
Sound level of PURY-EP350YKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	74.0	67.0	63.5	59.0	55.5	52.0	48.5	42.0	62.0
Low noise mode	50/60Hz	65.0	60.5	51.5	48.5	44.0	41.0	42.5	35.0	52.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

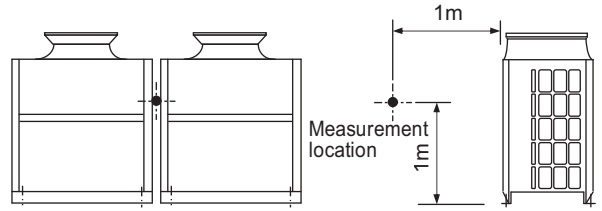
Sound level of PURY-EP400YKM-A(-BS)



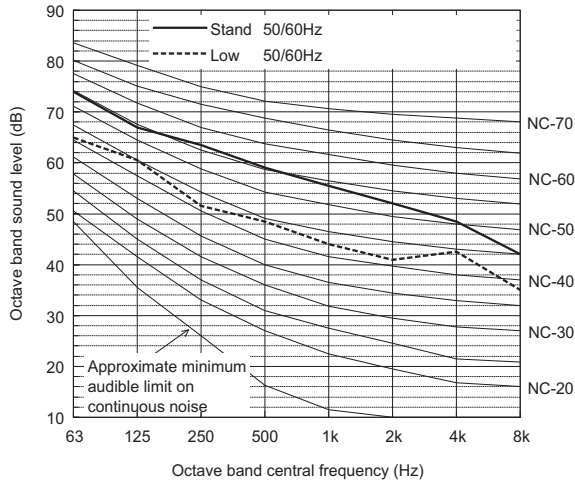
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	74.0	67.0	63.5	59.0	55.5	52.0	48.5	42.0	62.0
Low noise mode	50/60Hz	65.0	60.5	51.5	48.5	44.0	41.0	42.5	35.0	52.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Measurement condition  
PURY-EP400, 450, 500YSKM-A(-BS)



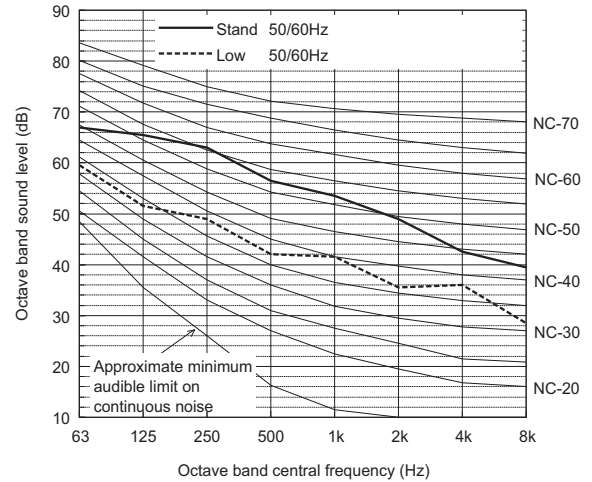
Sound level of PURY-EP450YKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	74.0	67.0	63.5	59.0	55.5	52.0	48.5	42.0	62.0
Low noise mode	50/60Hz	65.0	60.5	51.5	48.5	44.0	41.0	42.5	35.0	52.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

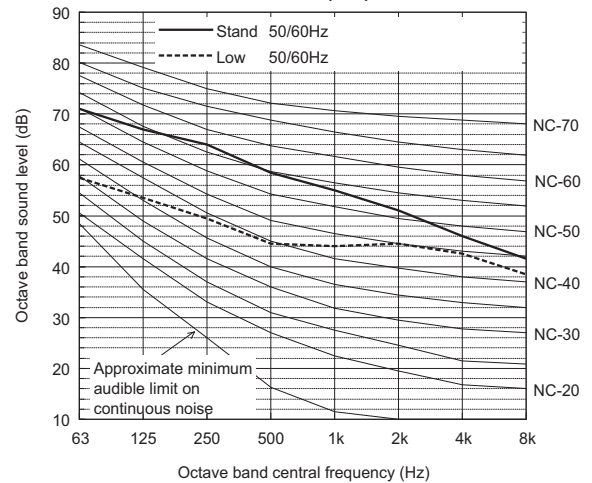
Sound level of PURY-EP400YSKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	67.0	65.5	63.0	56.5	53.5	49.0	42.5	39.5	60.0
Low noise mode	50/60Hz	59.5	51.5	49.0	42.0	41.5	35.5	36.0	28.5	47.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

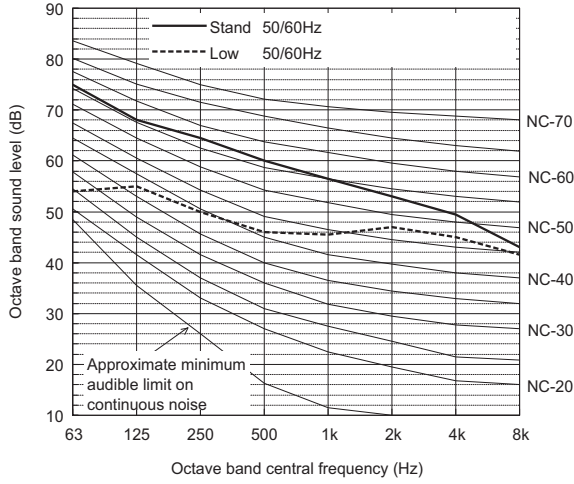
Sound level of PURY-EP450YSKM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	71.0	67.0	64.0	58.5	55.0	51.0	46.0	41.5	62.0
Low noise mode	50/60Hz	57.5	53.5	49.5	44.5	44.0	44.5	42.5	38.5	51.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

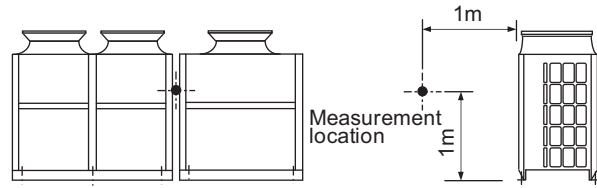
Sound level of PURY-EP500YSKM-A(-BS)



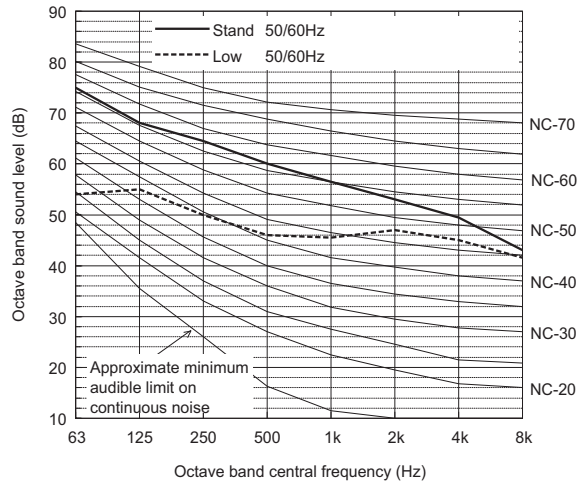
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	68.0	64.5	60.0	56.5	53.0	49.5	43.0	63.0
Low noise mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.5	53.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Measurement condition  
PURY-EP500YSKM-A(-BS)



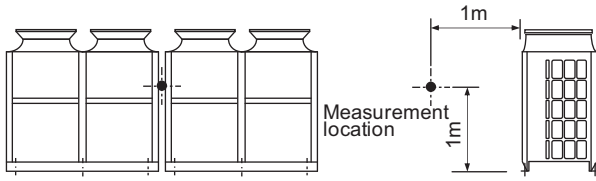
Sound level of PURY-EP550YSKM-A(-BS)



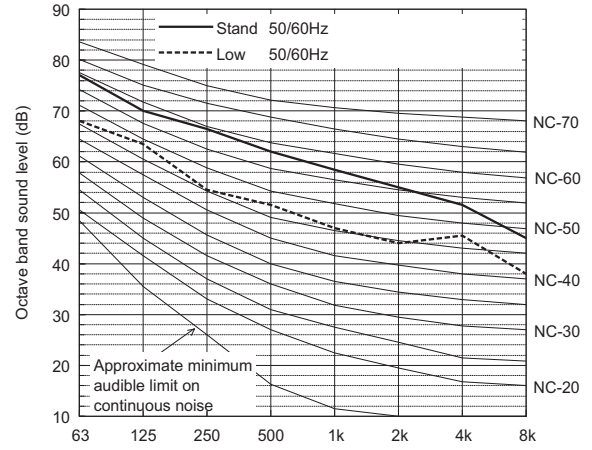
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	68.0	64.5	60.0	56.5	53.0	49.5	43.0	63.0
Low noise mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.5	53.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

**Measurement condition**  
**PURY-EP600, 650, 700YSKM-A(-BS)**



**Sound level of PURY-EP700YSKM-A(-BS)**

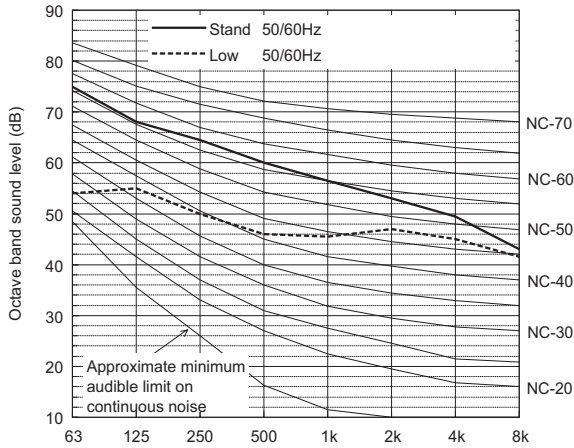


Octave band sound level (dB)

		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	77.0	70.0	66.5	62.0	58.5	55.0	51.5	45.0	65.0
Low noise mode	50/60Hz	68.0	63.5	54.5	51.5	47.0	44.0	45.5	38.0	55.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

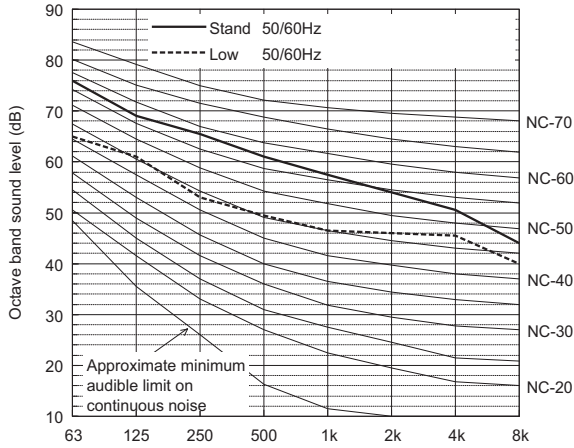
**Sound level of PURY-EP600YSKM-A(-BS)**



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	68.0	64.5	60.0	56.5	53.0	49.5	43.0	63.0
Low noise mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.5	53.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

**Sound level of PURY-EP650YSKM-A(-BS)**



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	76.0	69.0	65.5	61.0	57.5	54.0	50.5	44.0	64.0
Low noise mode	50/60Hz	65.0	61.0	53.0	49.5	46.5	46.0	45.5	40.0	54.5

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.



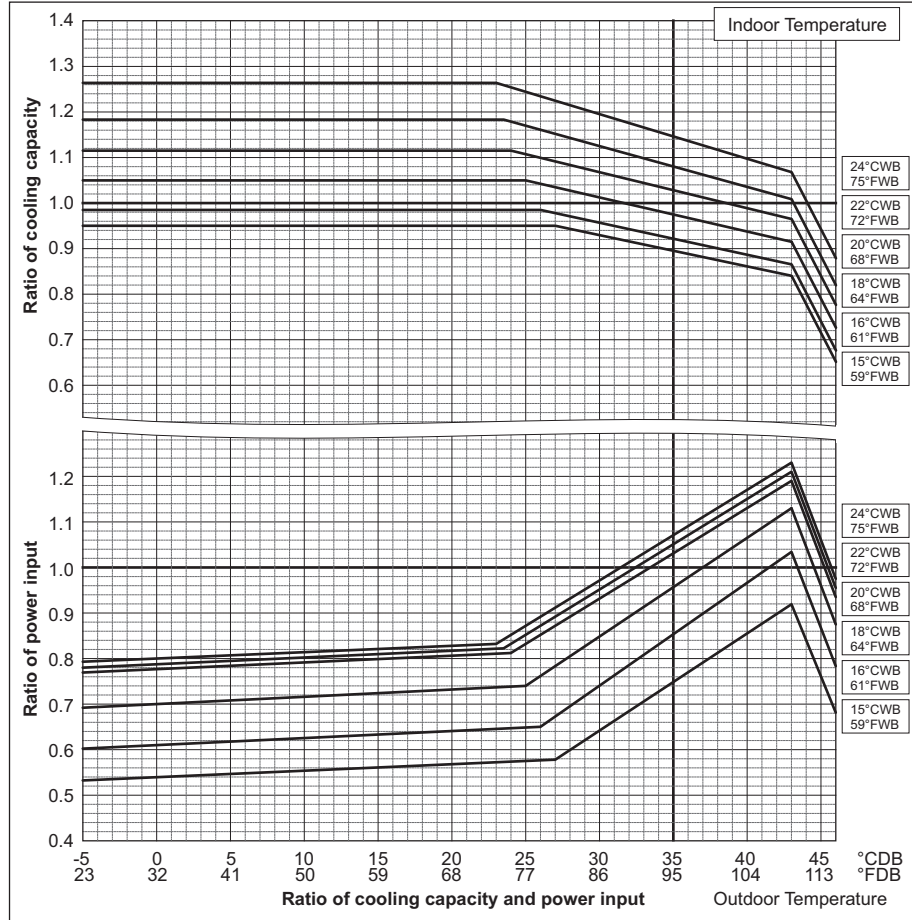
# 6. CAPACITY TABLES

## 6-1. Correction by temperature

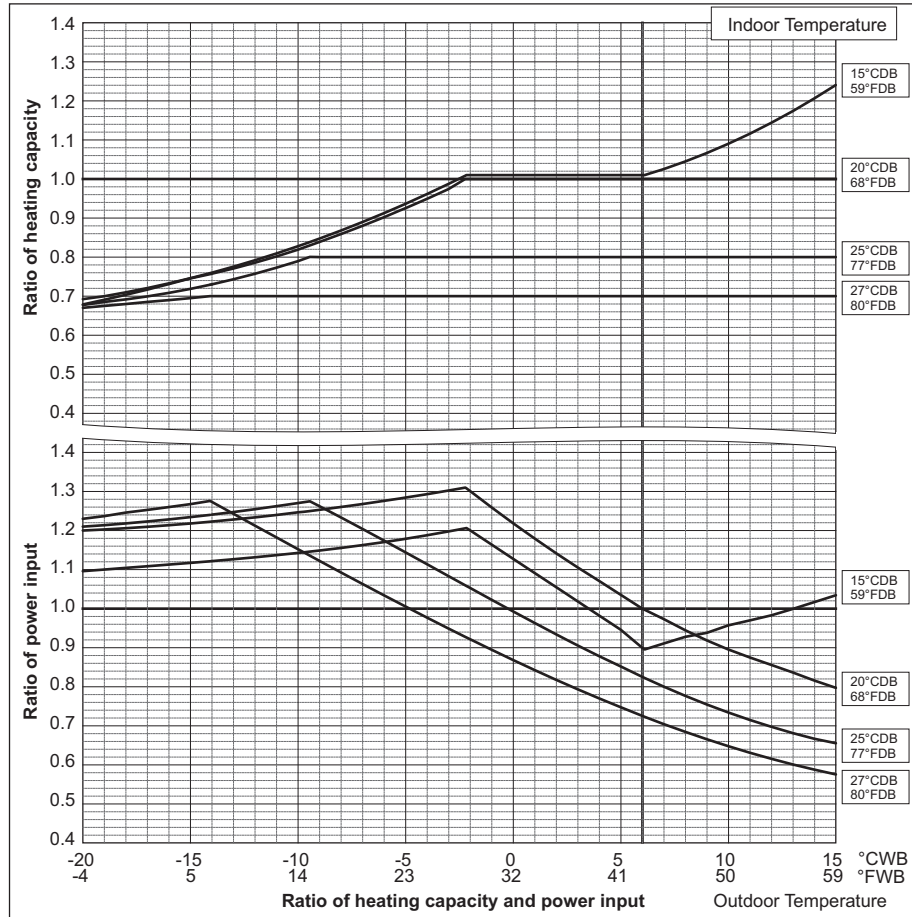
CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

R2 (HIGH COP)

PURY-		EP200YKM-A	EP250YKM-A
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.51	7.05



PURY-		EP200YKM-A	EP250YKM-A
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	6.31	8.07

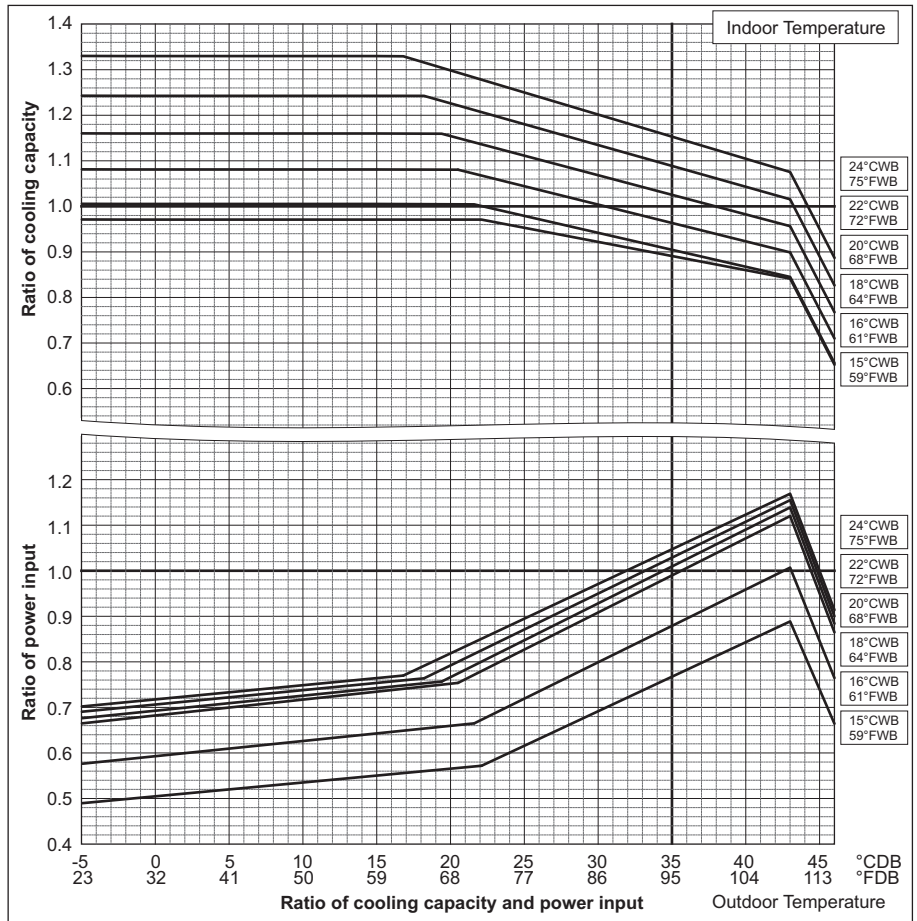


# 6. CAPACITY TABLES

R2 (HIGH COP)

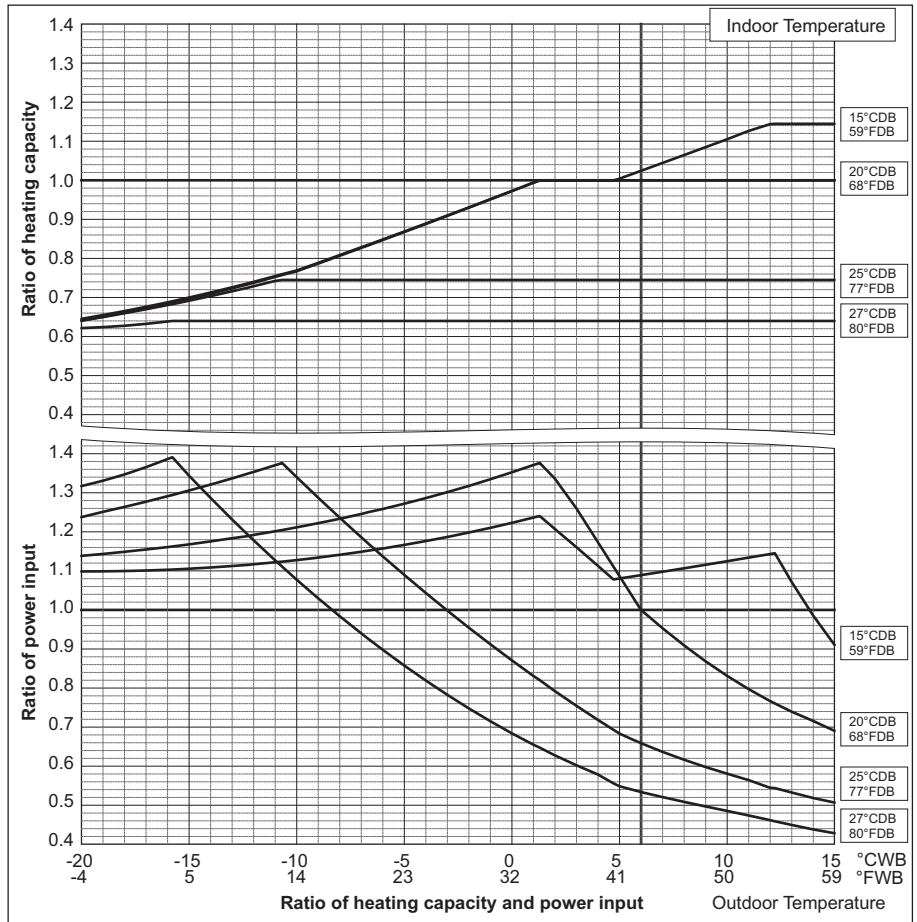
PURY-		EP300YKM-A	EP350YKM-A
Nominal Cooling Capacity	kW	33.5	40.0
	BTU/h	114,300	136,500
Input	kW	8.03	10.55

PURY-		EP400YKM-A	EP400YSKM-A
Nominal Cooling Capacity	kW	45.0	45.0
	BTU/h	153,500	153,500
Input	kW	12.39	11.45



PURY-		EP300YKM-A	EP350YKM-A
Nominal Heating Capacity	kW	37.5	45.0
	BTU/h	128,000	153,500
Input	kW	9.56	11.81

PURY-		EP400YKM-A	EP400YSKM-A
Nominal Heating Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	13.81	12.62



# 6. CAPACITY TABLES

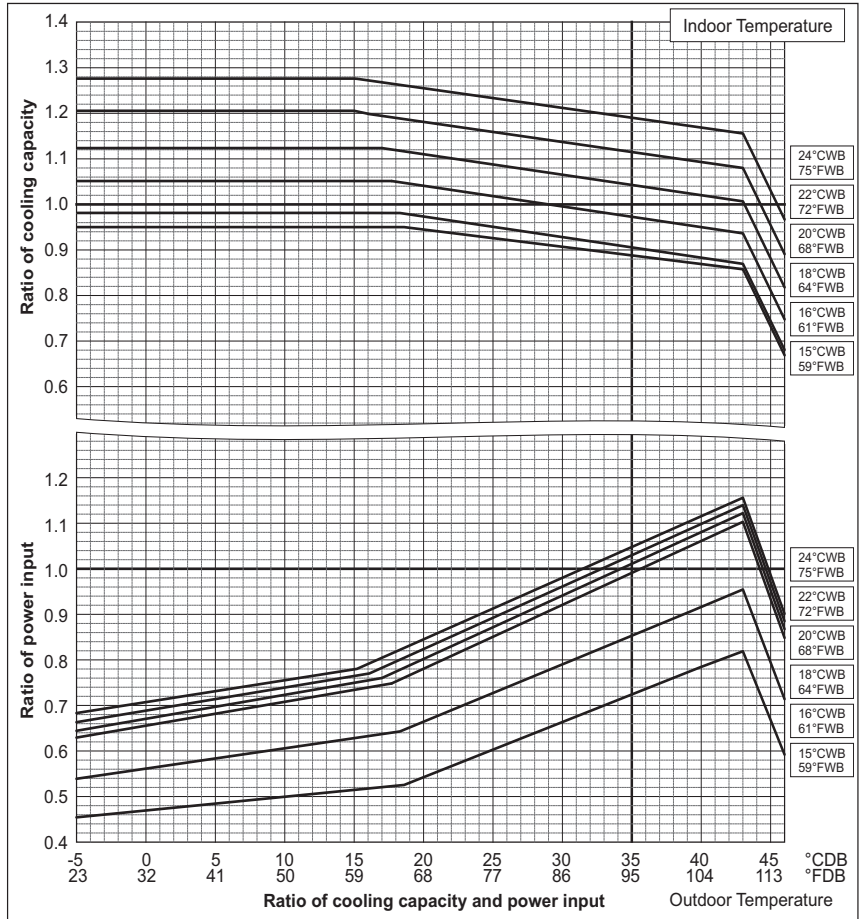
EP-YKM

R2 (HIGH COP)

PURY-		EP450YKM-A	EP450YSKM-A
Nominal Cooling Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	14.66	12.85

PURY-		EP500YSKM-A	EP550YSKM-A
Nominal Cooling Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	14.54	15.98

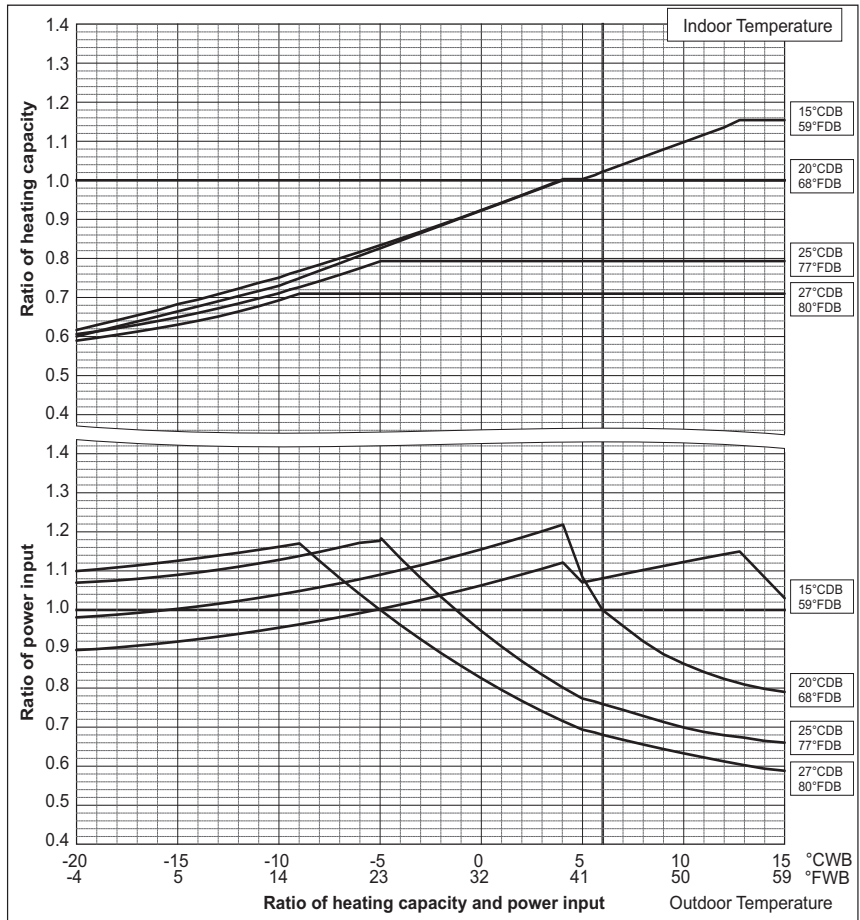
PURY-		EP600YSKM-A	EP650YSKM-A
Nominal Cooling Capacity	kW	69.0	73.0
	BTU/h	235,400	249,100
Input	kW	17.07	18.91



PURY-		EP450YKM-A	EP450YSKM-A
Nominal Heating Capacity	kW	50.0	56.0
	BTU/h	170,600	191,100
Input	kW	13.66	14.24

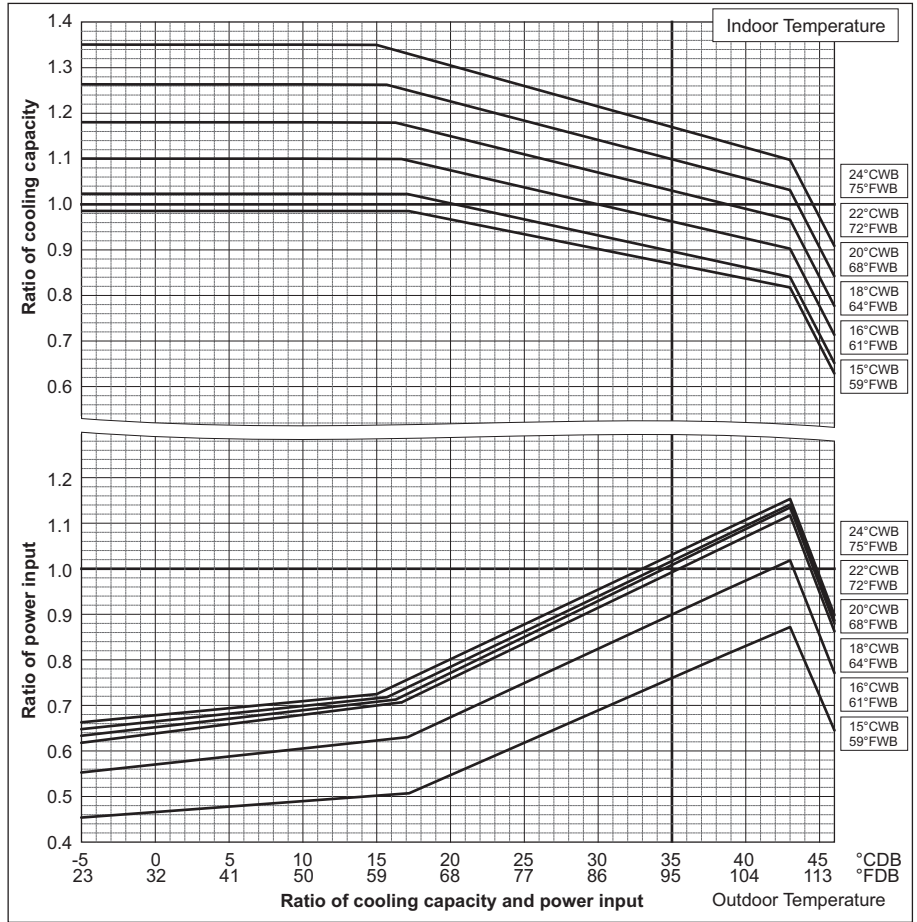
PURY-		EP500YSKM-A	EP550YSKM-A
Nominal Heating Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	16.15	17.64

PURY-		EP600YSKM-A	EP650YSKM-A
Nominal Heating Capacity	kW	76.5	81.5
	BTU/h	261,000	278,100
Input	kW	19.51	21.16



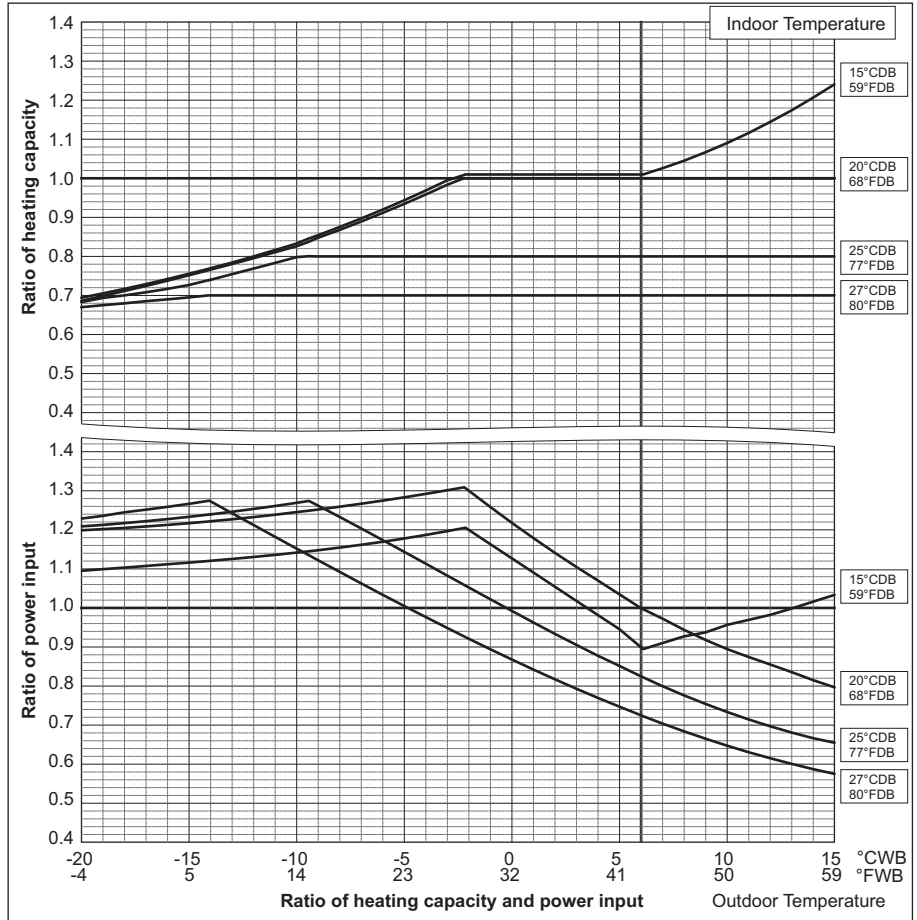
# 6. CAPACITY TABLES

PURY-		EP700YSKM-A
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	21.79



R2 (HIGH COP)

PURY-		EP700YSKM-A
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	23.28



# 6. CAPACITY TABLES

## Correction by temperature (COP Priority Mode)

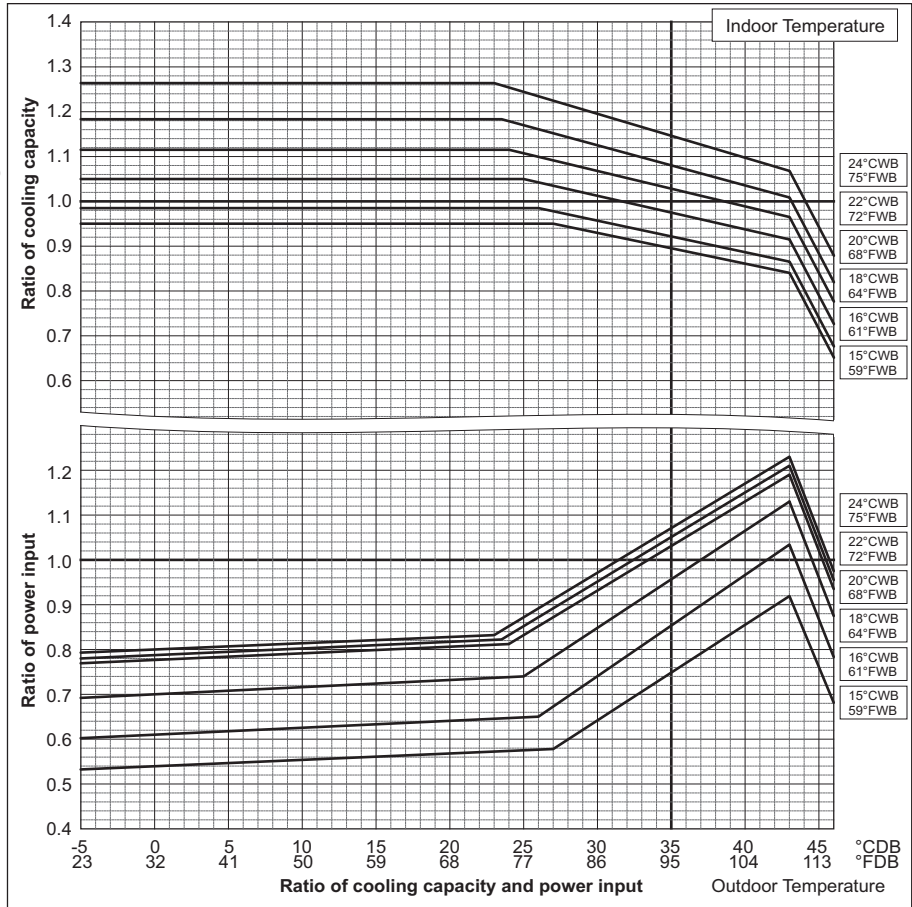
CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

To select COP priority mode, DipSW 3-7 must be set to ON.

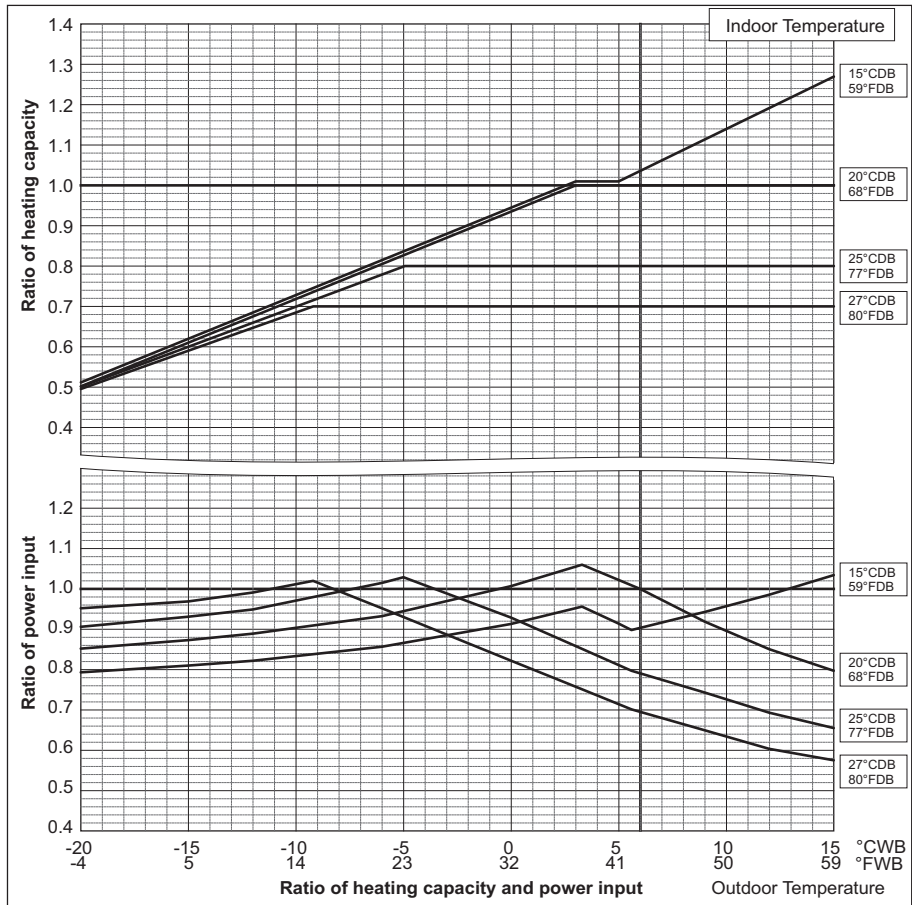
R2 (HIGH COP)

PURY-		EP200YKM-A	EP250YKM-A
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.51	7.05

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PURY-		EP200YKM-A	EP250YKM-A
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	6.31	8.07



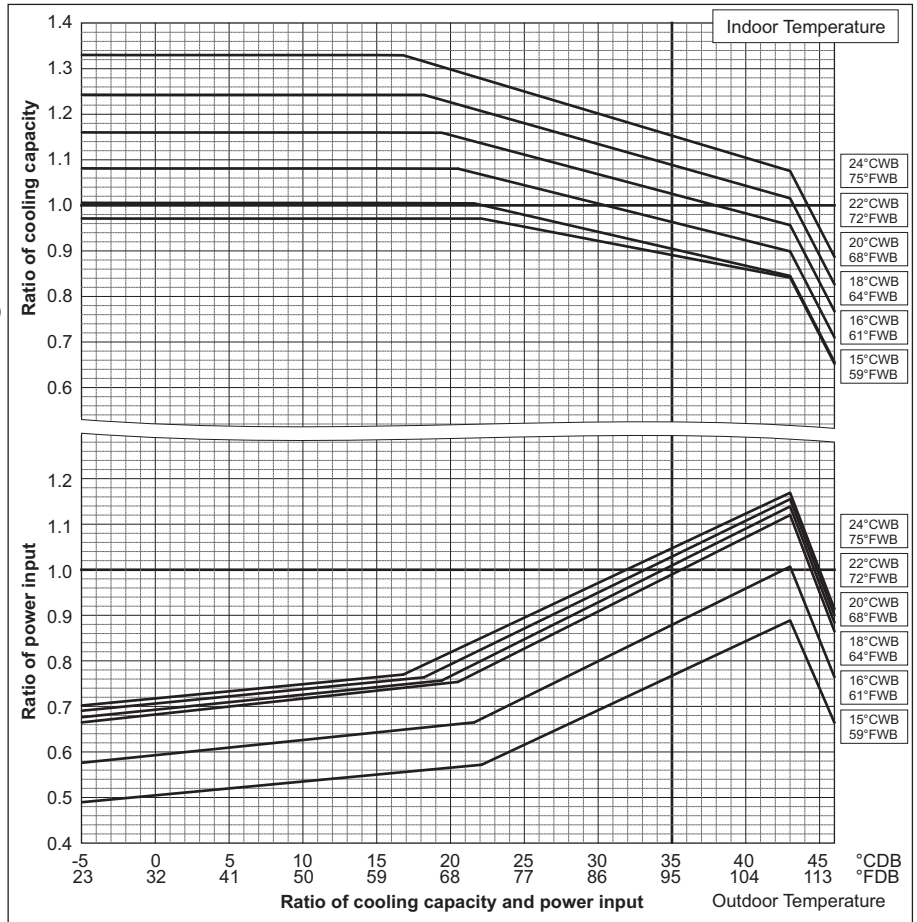
# 6. CAPACITY TABLES

R2 (HIGH COP)

PURY-		EP300YKM-A	EP350YKM-A
Nominal Cooling Capacity	kW	33.5	40.0
	BTU/h	114,300	136,500
Input	kW	8.03	10.55

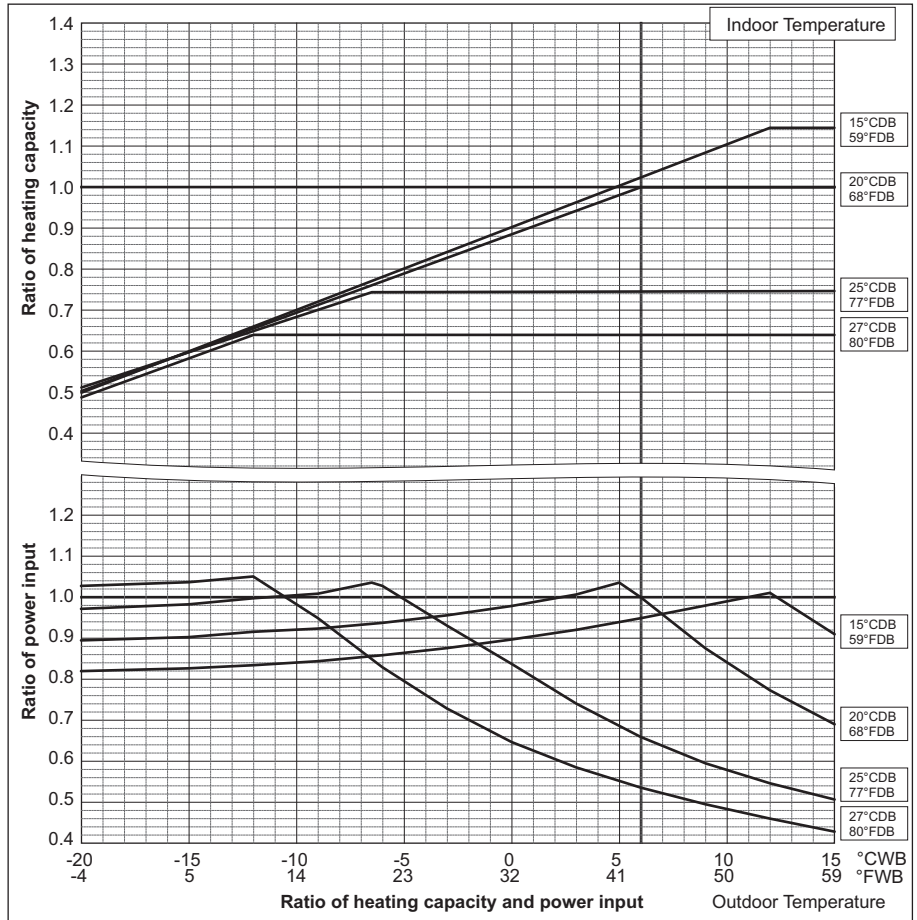
PURY-		EP400YKM-A	EP400YSKM-A
Nominal Cooling Capacity	kW	45.0	45.0
	BTU/h	153,500	153,500
Input	kW	12.39	11.45

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PURY-		EP300YKM-A	EP350YKM-A
Nominal Heating Capacity	kW	37.5	45.0
	BTU/h	128,000	153,500
Input	kW	9.56	11.81

PURY-		EP400YKM-A	EP400YSKM-A
Nominal Heating Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	13.81	12.62



# 6. CAPACITY TABLES

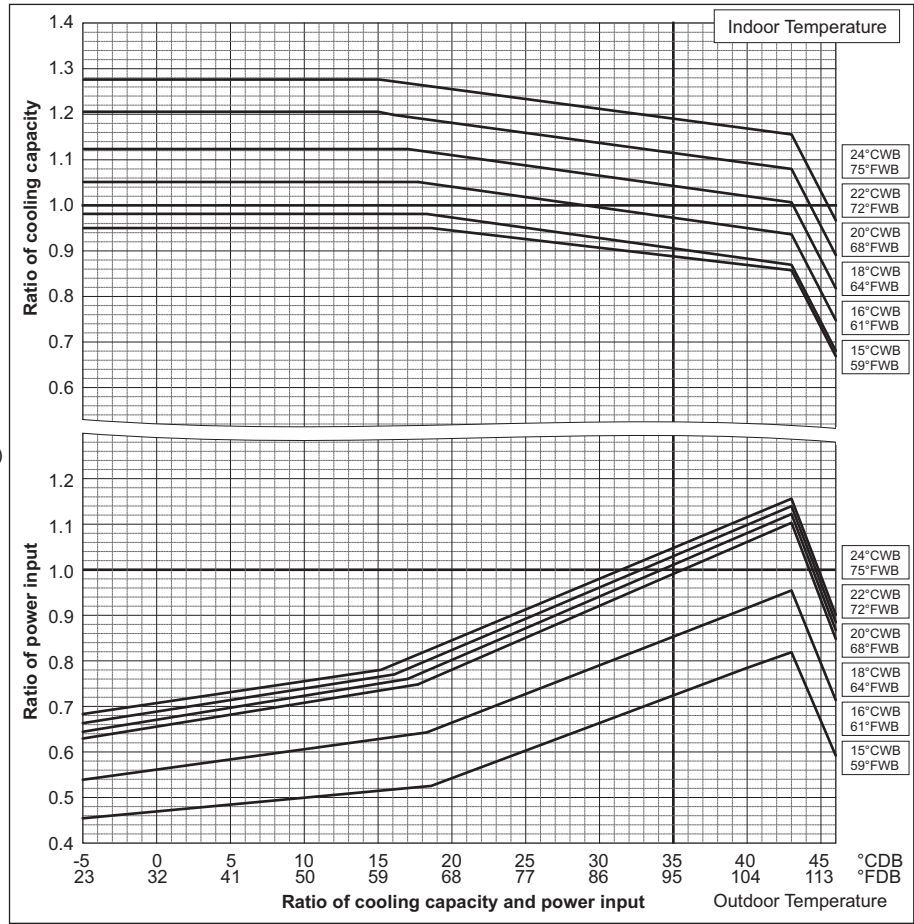
R2 (HIGH COP)

PURY-		EP450YKM-A	EP450YSKM-A
Nominal Cooling Capacity	kW	50.0	50.0
	BTU/h	170,600	170,600
Input	kW	14.66	12.85

PURY-		EP500YSKM-A	EP550YSKM-A
Nominal Cooling Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	14.54	15.98

PURY-		EP600YSKM-A	EP650YSKM-A
Nominal Cooling Capacity	kW	69.0	73.0
	BTU/h	235,400	249,100
Input	kW	17.07	18.91

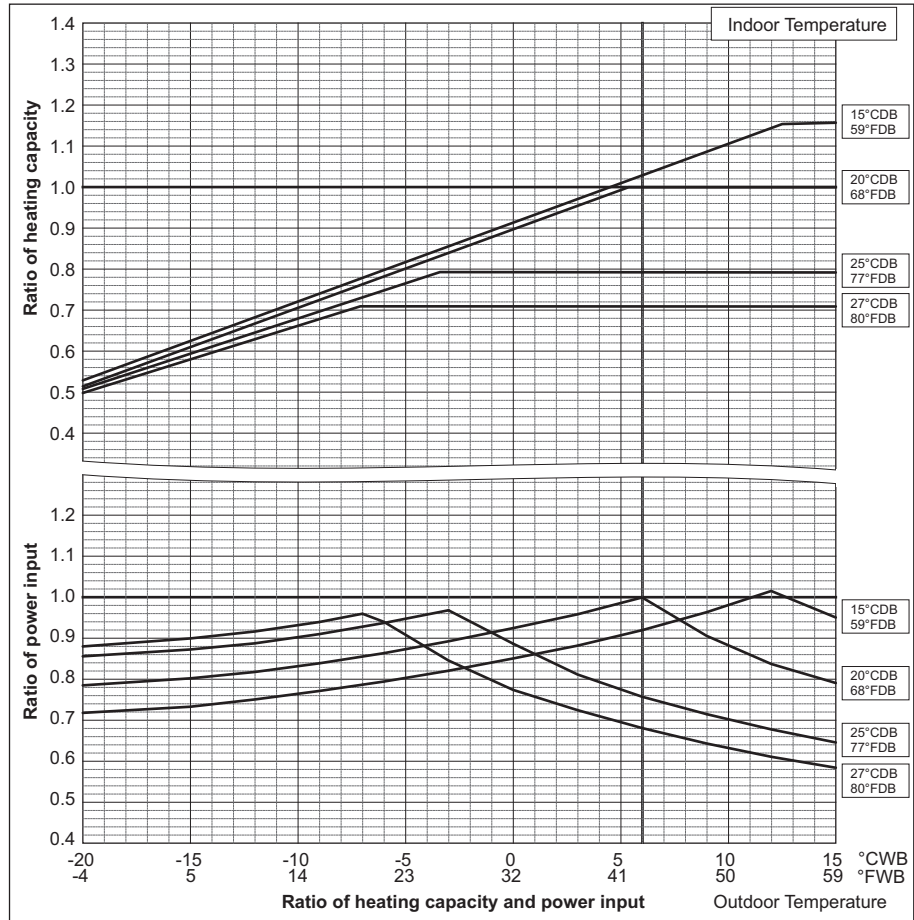
(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PURY-		EP450YKM-A	EP450YSKM-A
Nominal Heating Capacity	kW	50.0	56.0
	BTU/h	170,600	191,100
Input	kW	13.66	14.24

PURY-		EP500YSKM-A	EP550YSKM-A
Nominal Heating Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	16.15	17.64

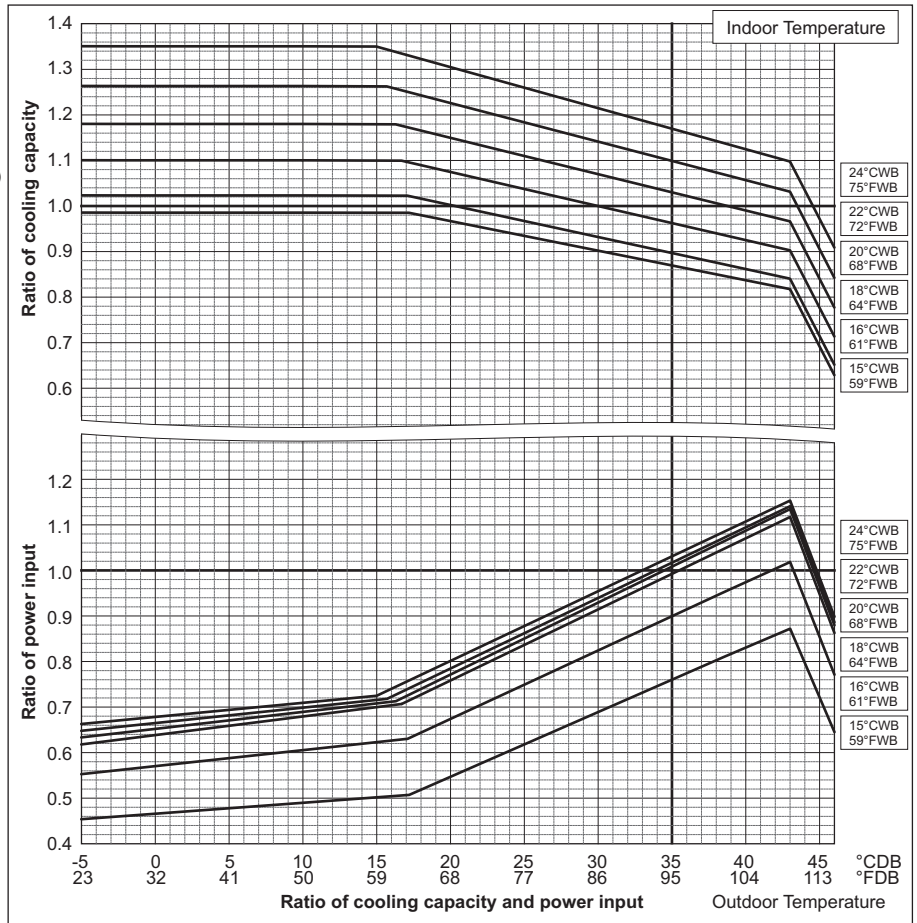
PURY-		EP600YSKM-A	EP650YSKM-A
Nominal Heating Capacity	kW	76.5	81.5
	BTU/h	261,000	278,100
Input	kW	19.51	21.16



# 6. CAPACITY TABLES

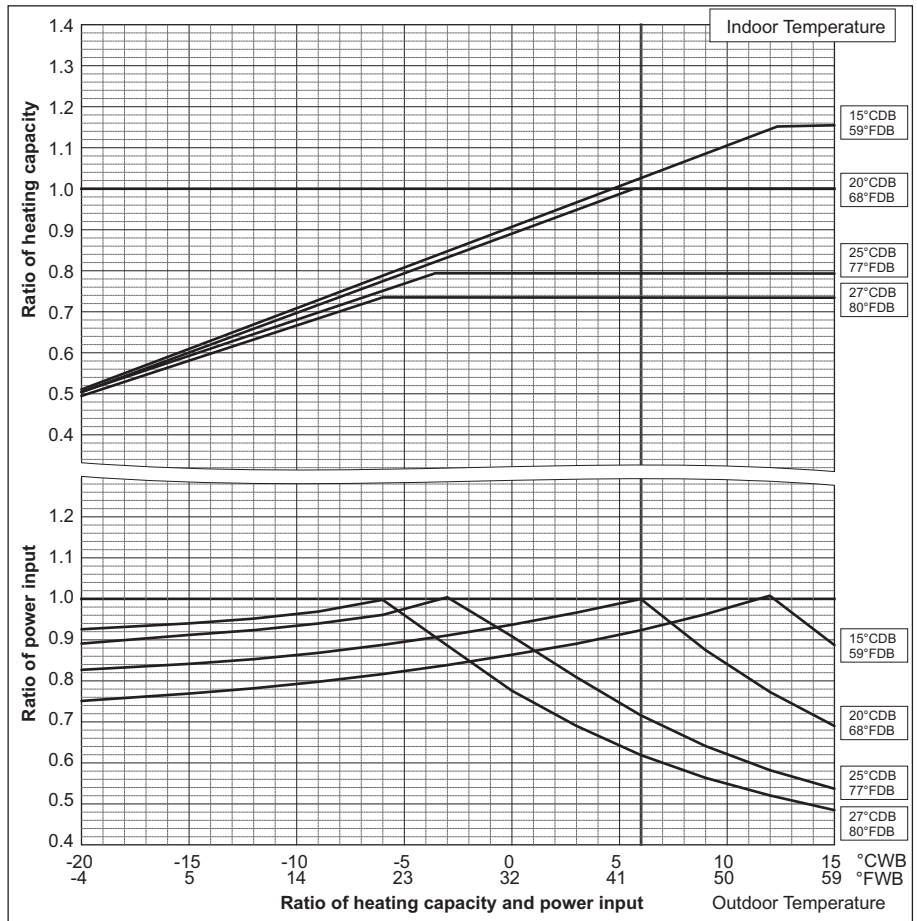
PURY-		EP700YSKM-A
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	21.79

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



R2 (HIGH COP)

PURY-		EP700YSKM-A
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	23.28





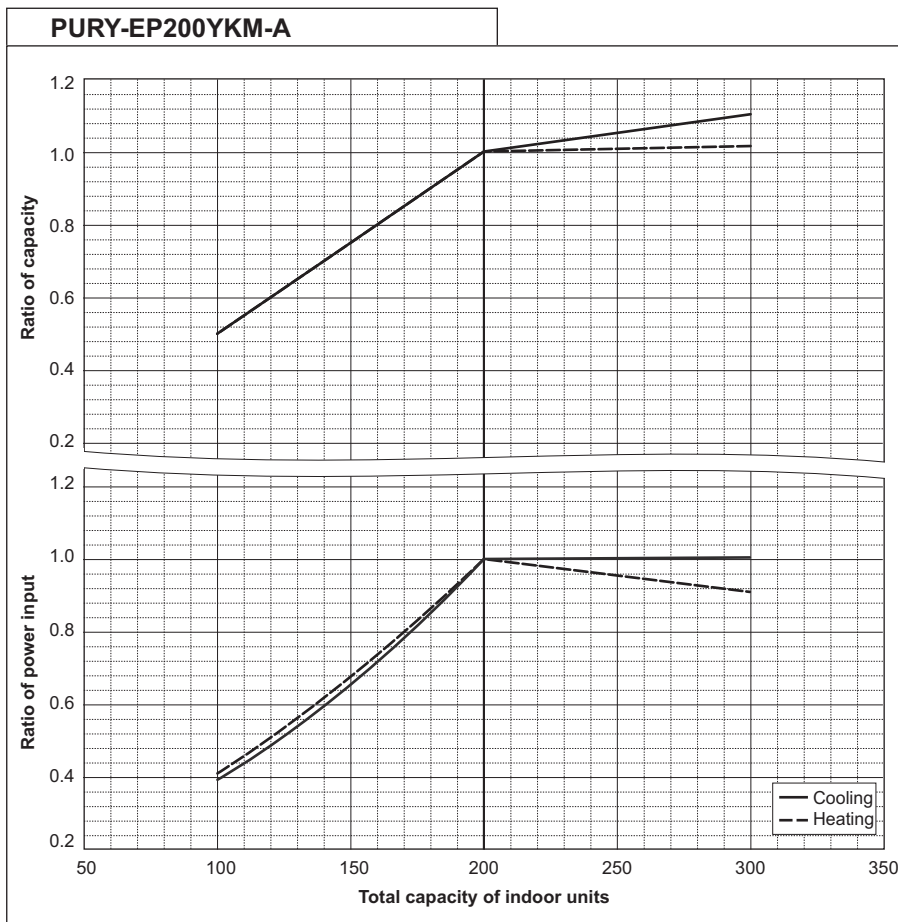
## 6-2. Correction by total indoor

CITY MULTI system have different capacities and inputs when many combinations of indoor units with different total capacities are connected. Using following tables, the maximum capacity can be found to ensure the system is installed with enough capacity for a particular application.

R2 (HIGH COP)

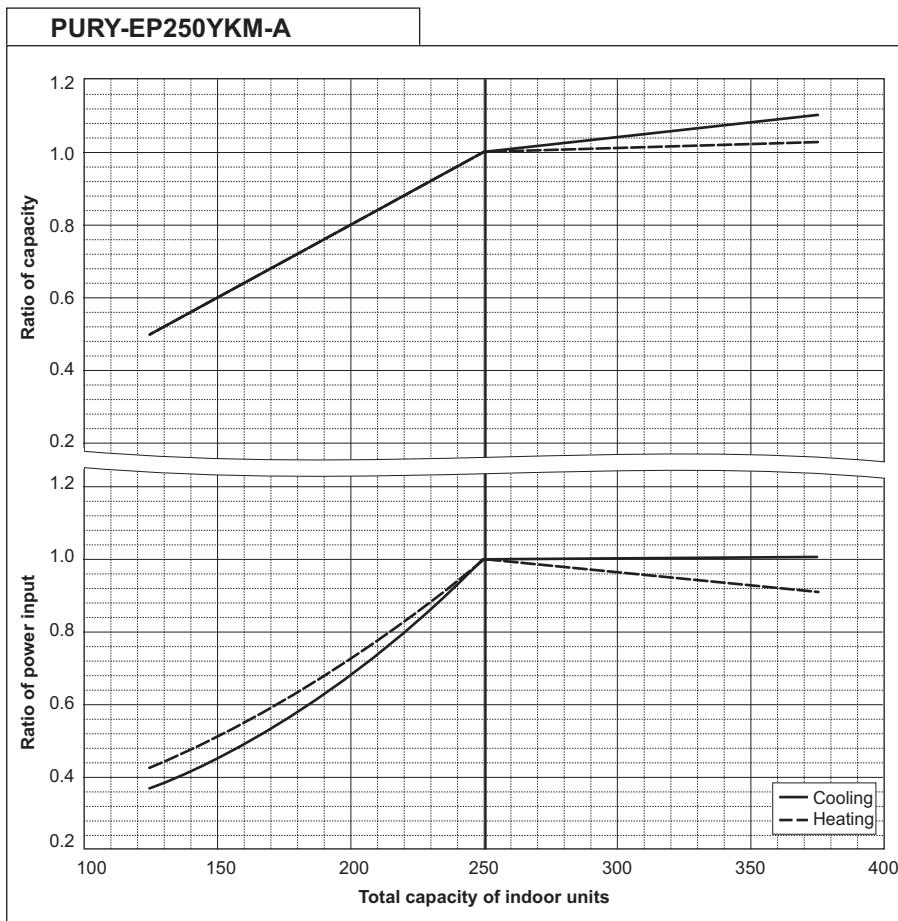
PURY-EP200YKM-A		
Nominal Cooling Capacity	kW	22.4
	BTU/h	76,400
Input	kW	5.51

PURY-EP200YKM-A		
Nominal Heating Capacity	kW	25.0
	BTU/h	85,300
Input	kW	6.31



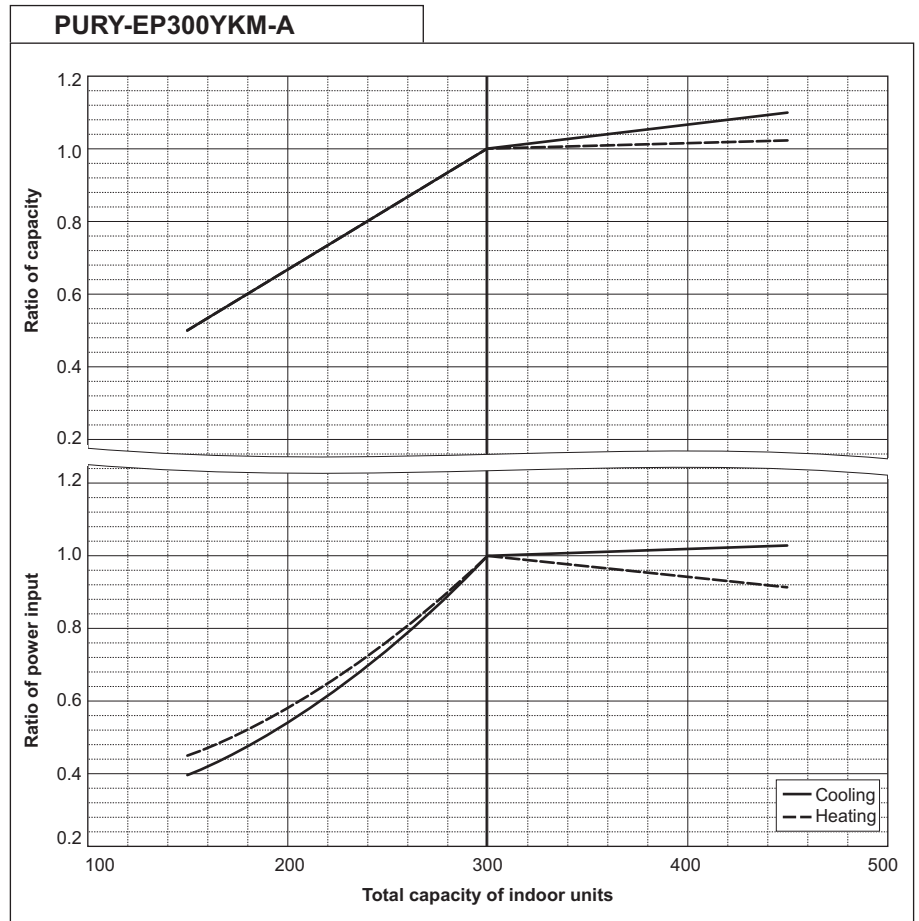
PURY-EP250YKM-A		
Nominal Cooling Capacity	kW	28.0
	BTU/h	95,500
Input	kW	7.05

PURY-EP250YKM-A		
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	8.07



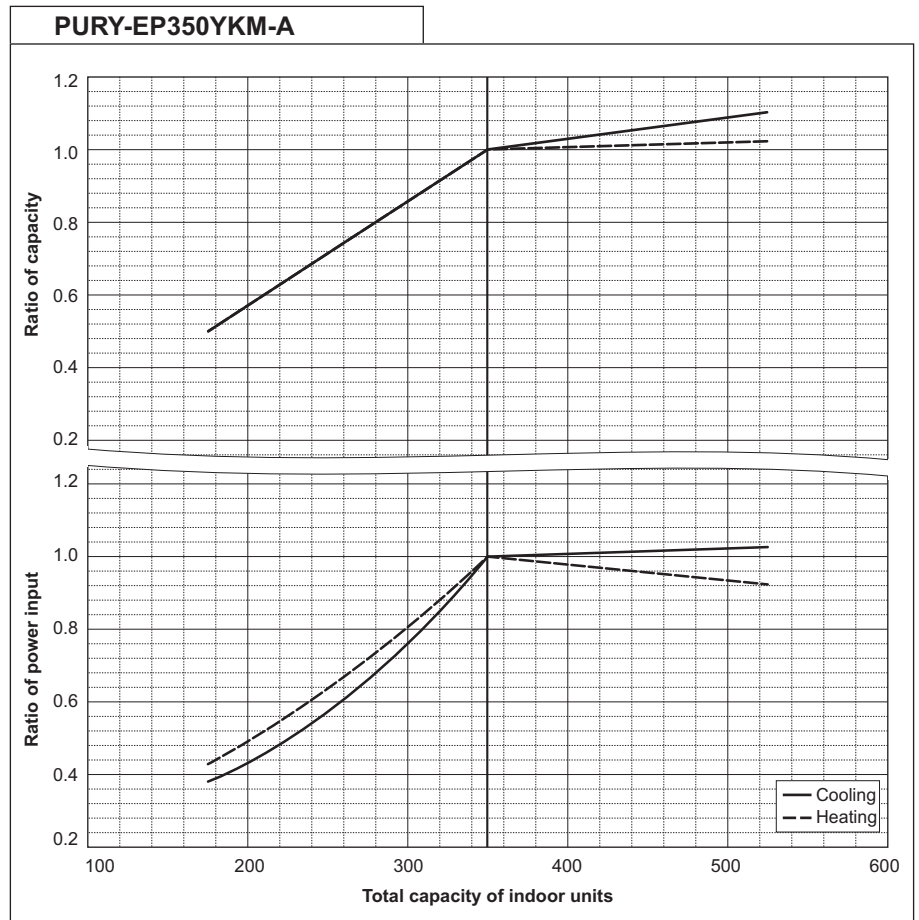
PURY-EP300YKM-A		
Nominal Cooling Capacity	kW	33.5
	BTU/h	114,300
Input	kW	8.03

PURY-EP300YKM-A		
Nominal Heating Capacity	kW	37.5
	BTU/h	128,000
Input	kW	9.56



PURY-EP350YKM-A		
Nominal Cooling Capacity	kW	40.0
	BTU/h	136,500
Input	kW	10.55

PURY-EP350YKM-A		
Nominal Heating Capacity	kW	45.0
	BTU/h	153,500
Input	kW	11.81



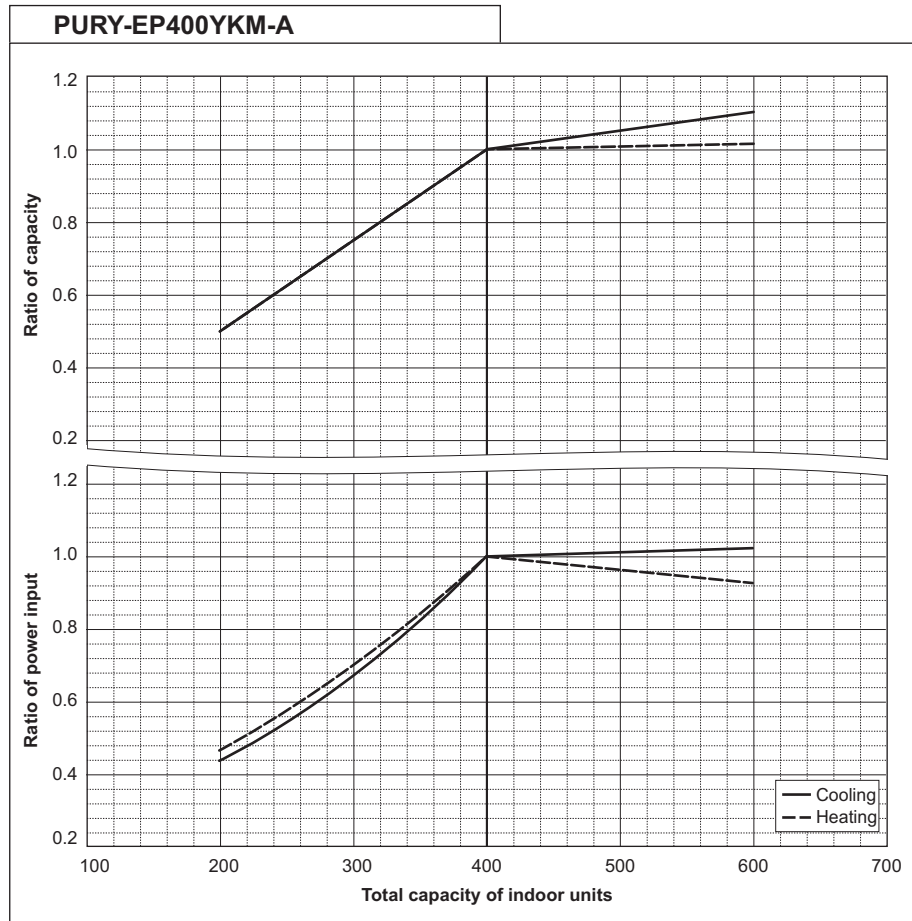
# 6. CAPACITY TABLES

EP-YKM

R2 (HIGH COP)

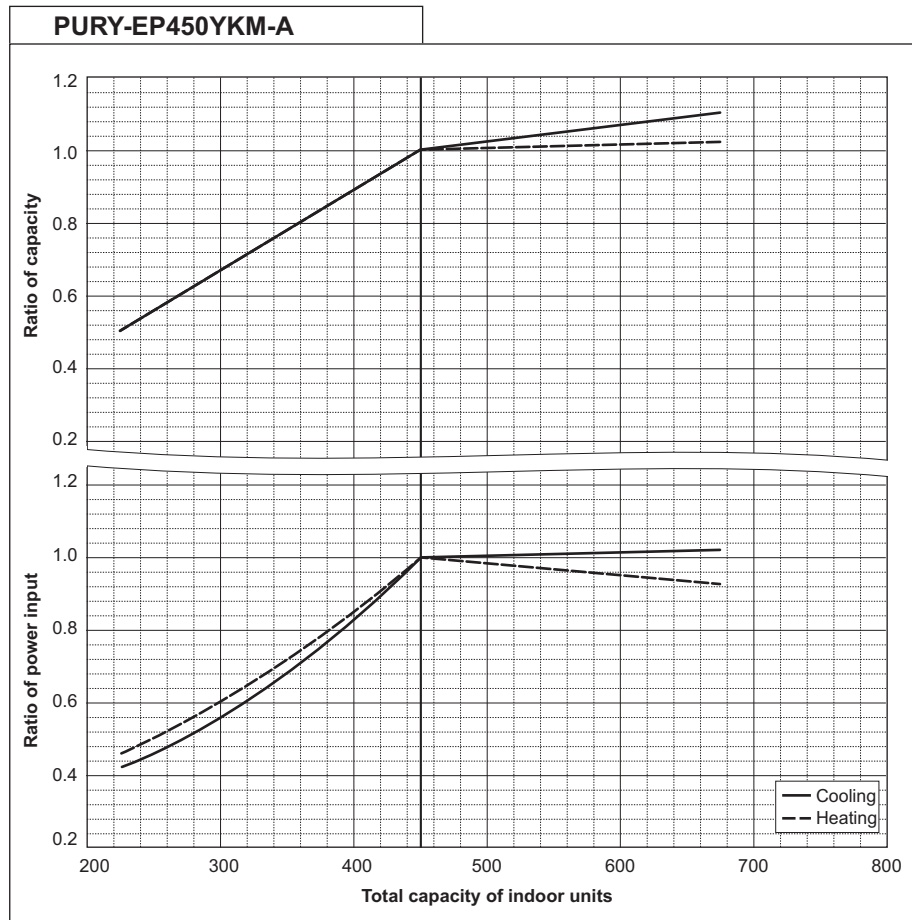
PURY-EP400YKM-A		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	12.39

PURY-EP400YKM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	13.81



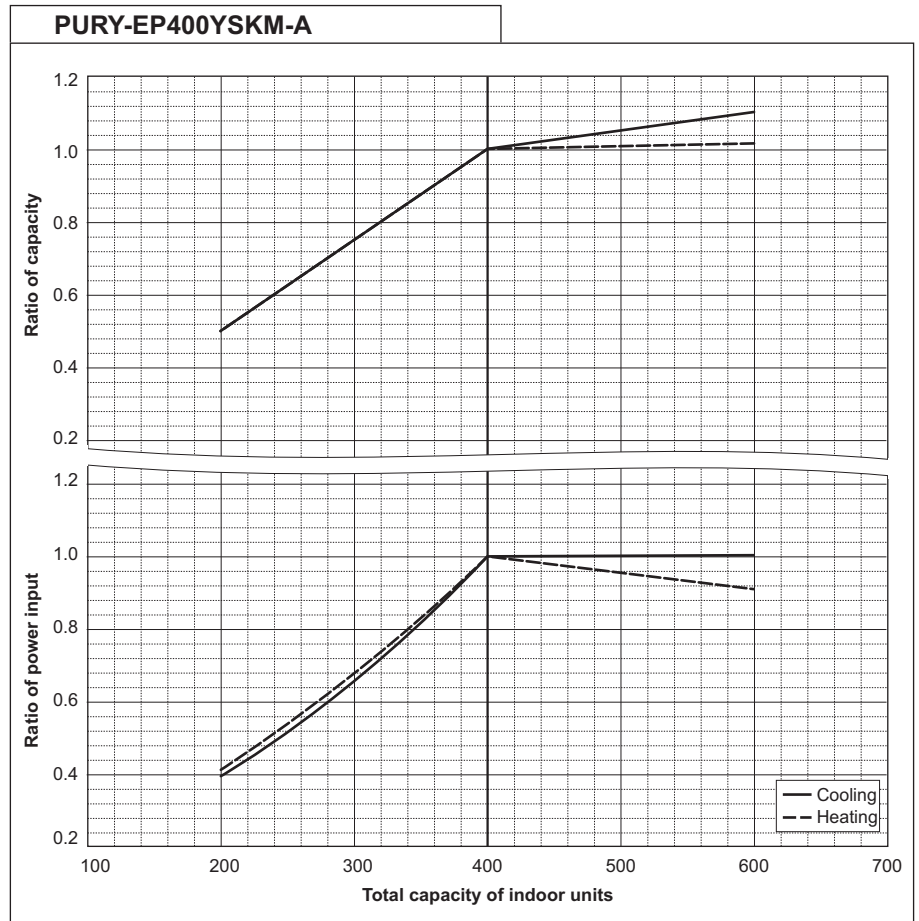
PURY-EP450YKM-A		
Nominal Cooling Capacity	kW	50.0
	BTU/h	170,600
Input	kW	14.66

PURY-EP450YKM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	13.66



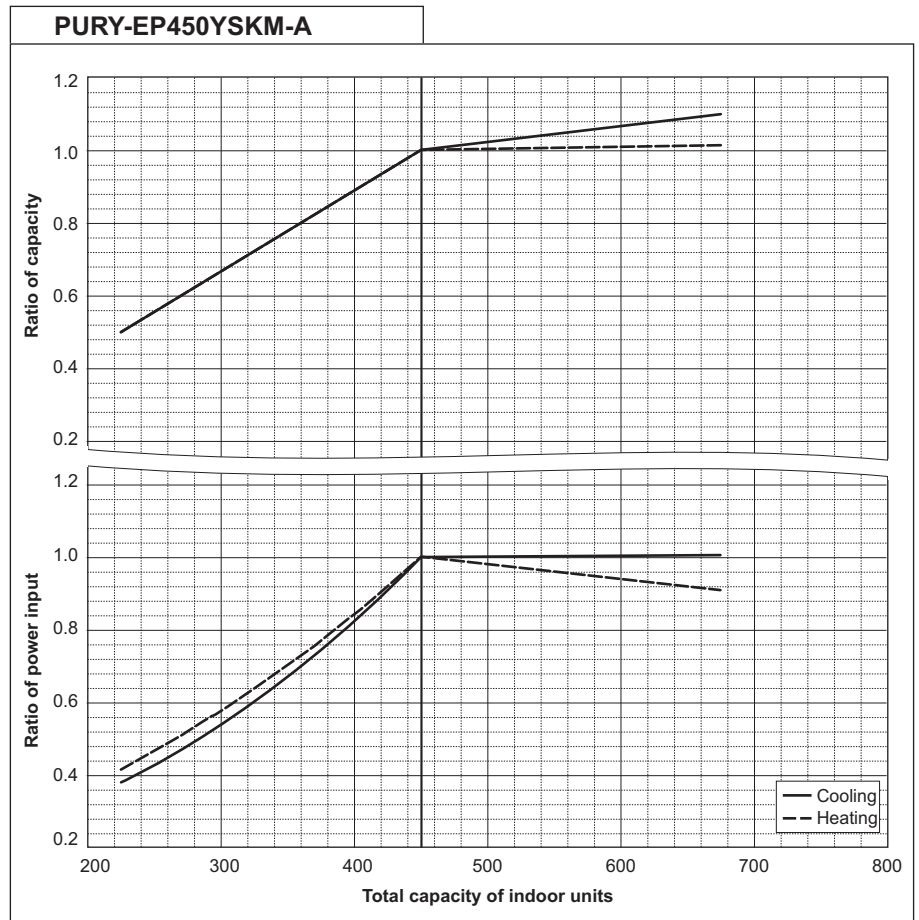
PURY-EP400YSKM-A		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	11.45

PURY-EP400YSKM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	12.62



PURY-EP450YSKM-A		
Nominal Cooling Capacity	kW	50.0
	BTU/h	170,600
Input	kW	12.85

PURY-EP450YSKM-A		
Nominal Heating Capacity	kW	56.0
	BTU/h	191,100
Input	kW	14.24



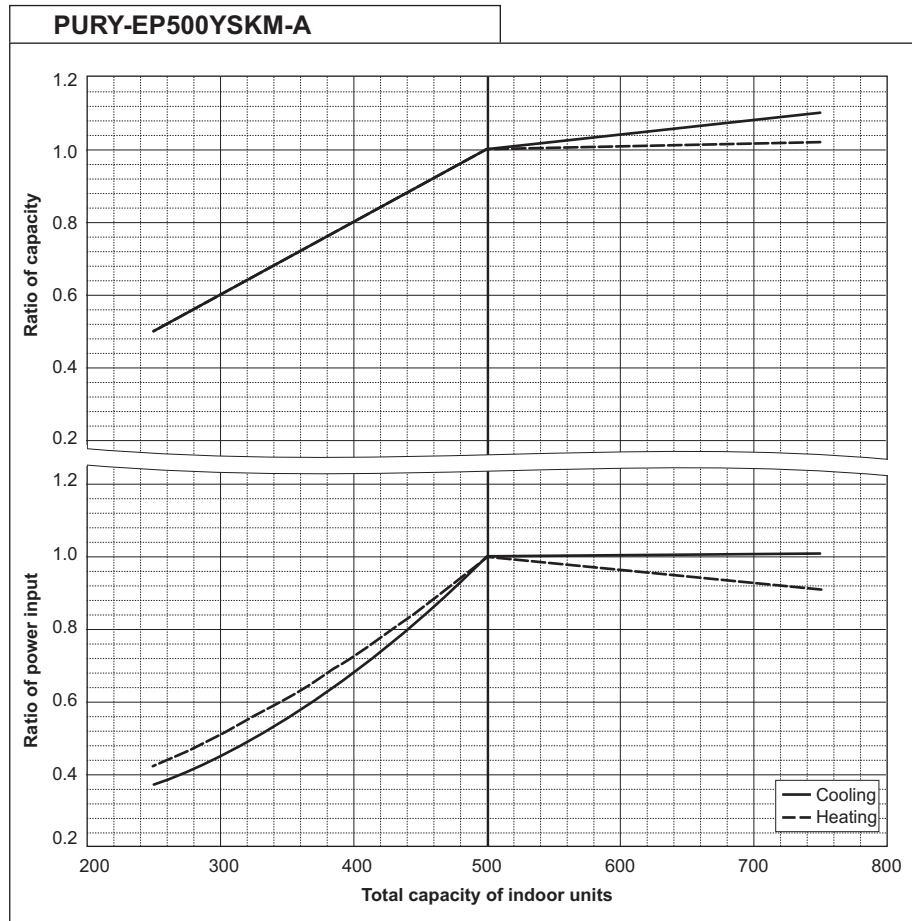
# 6. CAPACITY TABLES

EP-YKM

R2 (HIGH COP)

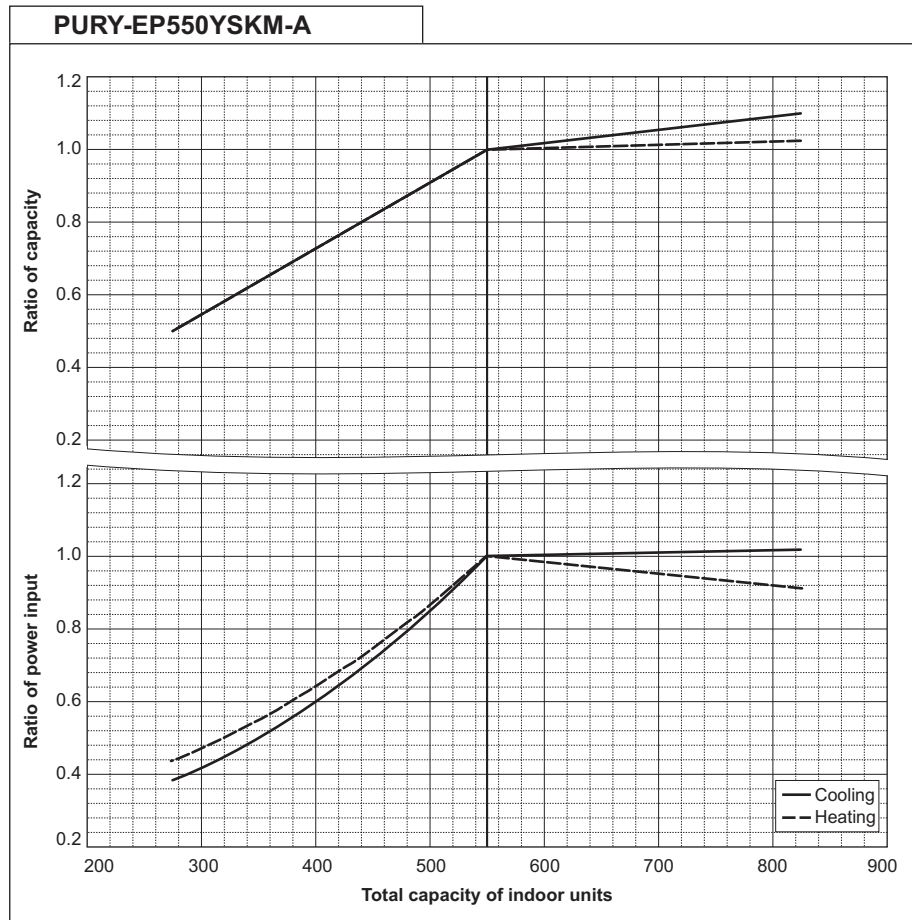
PURY-EP500YSKM-A		
Nominal Cooling Capacity	kW	56.0
	BTU/h	191,100
Input	kW	14.54

PURY-EP500YSKM-A		
Nominal Heating Capacity	kW	63.0
	BTU/h	215,000
Input	kW	16.15



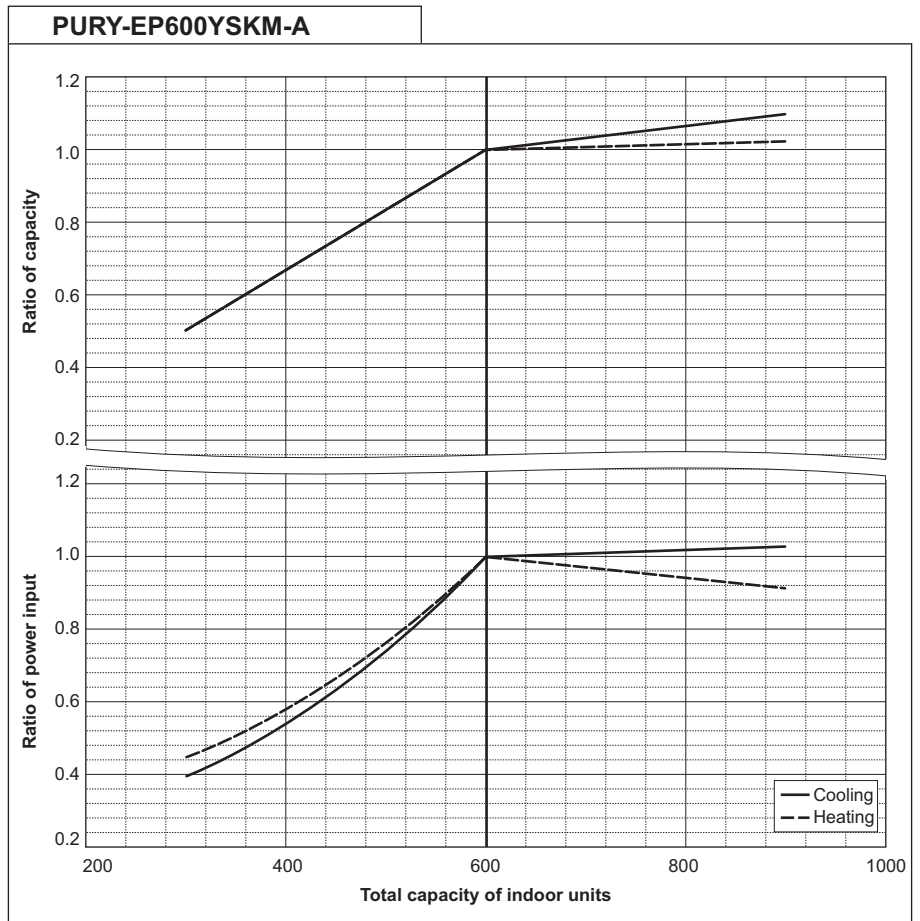
PURY-EP550YSKM-A		
Nominal Cooling Capacity	kW	63.0
	BTU/h	215,000
Input	kW	15.98

PURY-EP550YSKM-A		
Nominal Heating Capacity	kW	69.0
	BTU/h	235,400
Input	kW	17.64



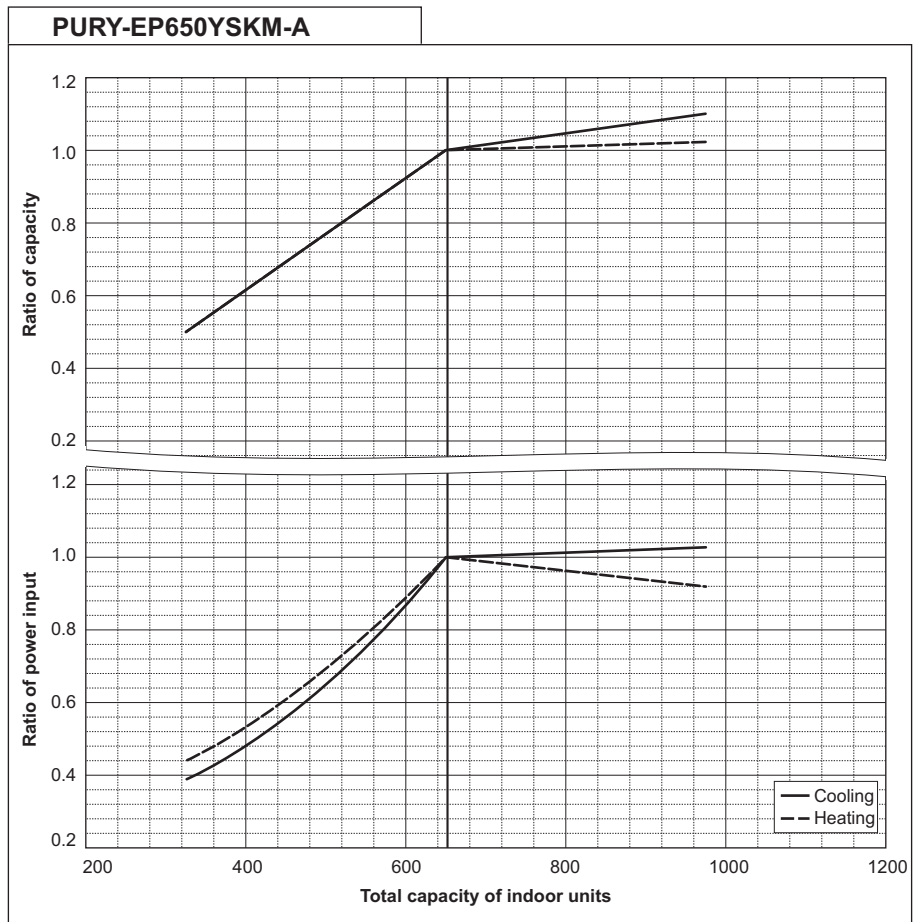
PURY-EP600YSKM-A		
Nominal Cooling Capacity	kW	69.0
	BTU/h	235,400
Input	kW	17.07

PURY-EP600YSKM-A		
Nominal Heating Capacity	kW	76.5
	BTU/h	261,000
Input	kW	19.51



PURY-EP650YSKM-A		
Nominal Cooling Capacity	kW	73.0
	BTU/h	249,100
Input	kW	18.91

PURY-EP650YSKM-A		
Nominal Heating Capacity	kW	81.5
	BTU/h	278,100
Input	kW	21.16

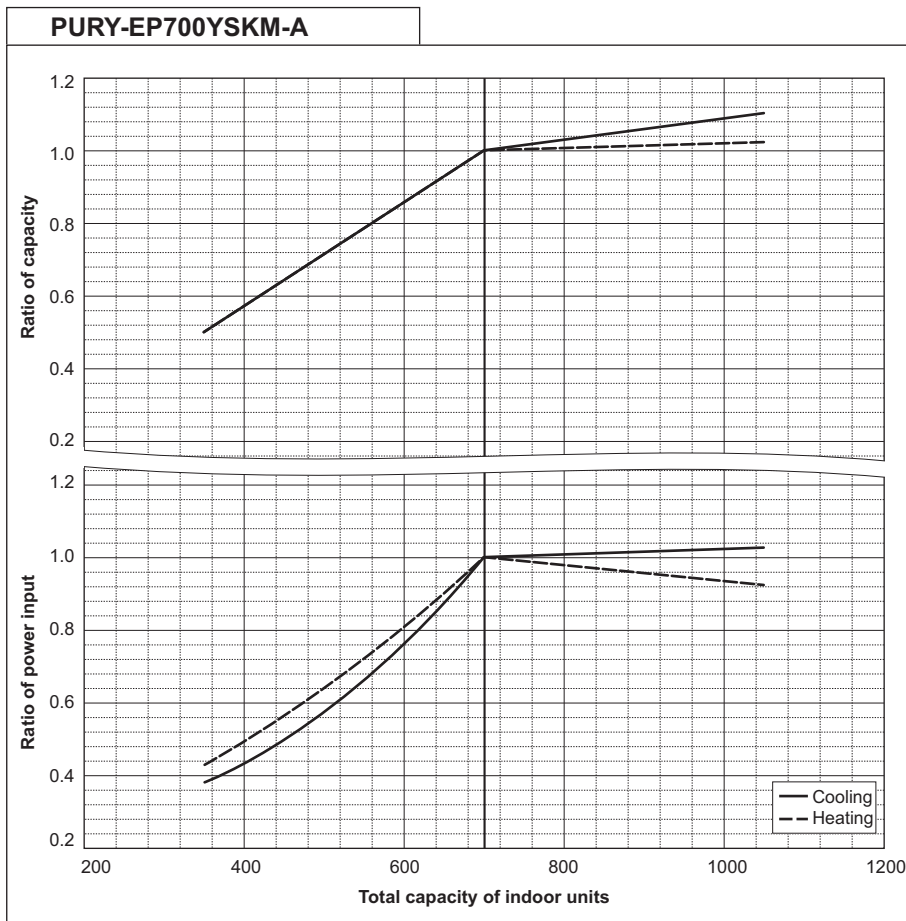


# 6. CAPACITY TABLES

R2 (HIGH COP)

PURY-EP700YSKM-A		
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	21.79

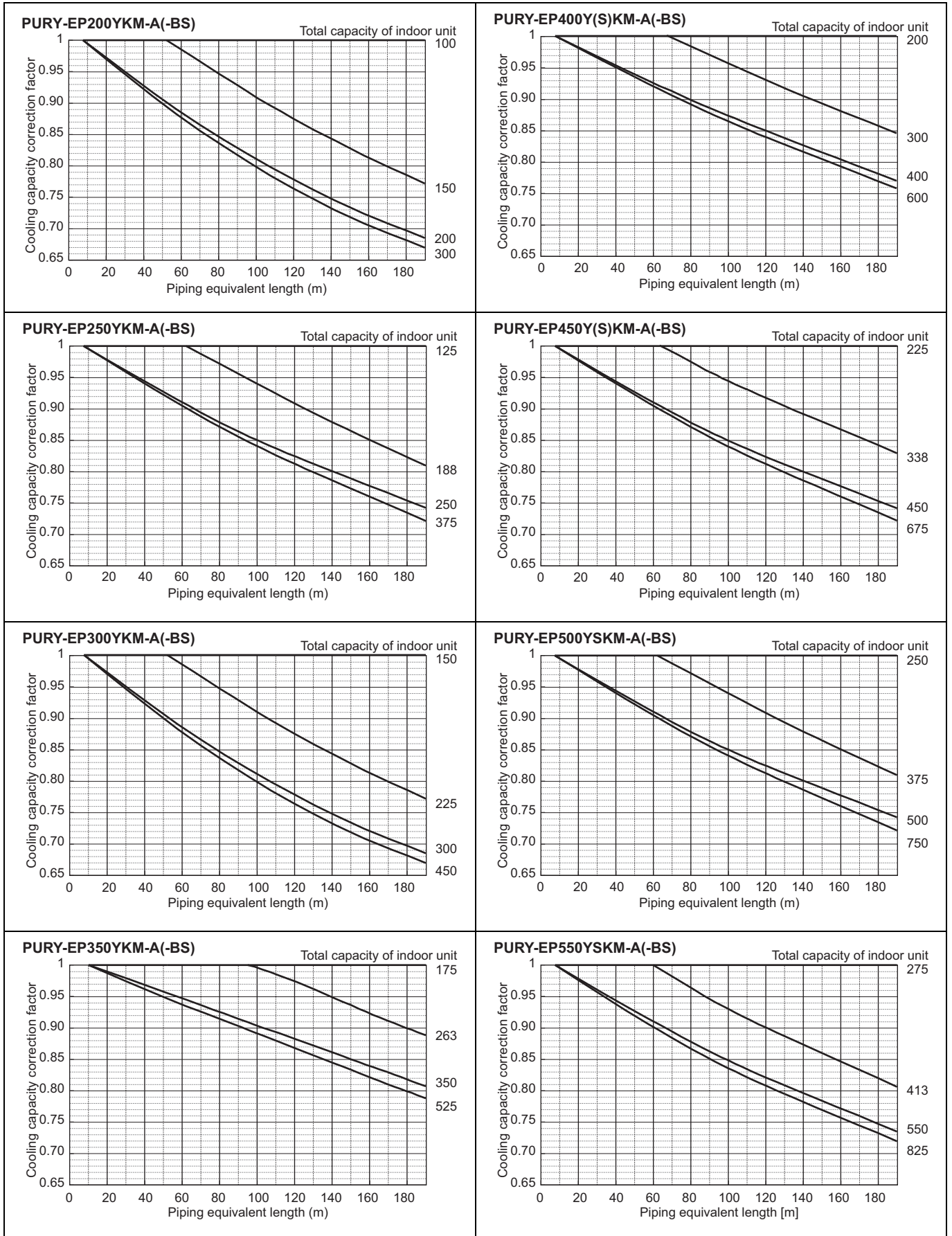
PURY-EP700YSKM-A		
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	23.28



6-3. 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 6-3-1 and 6-3-2, the capacity can be observed. 6-3-3 shows how to obtain the equivalent length of piping.

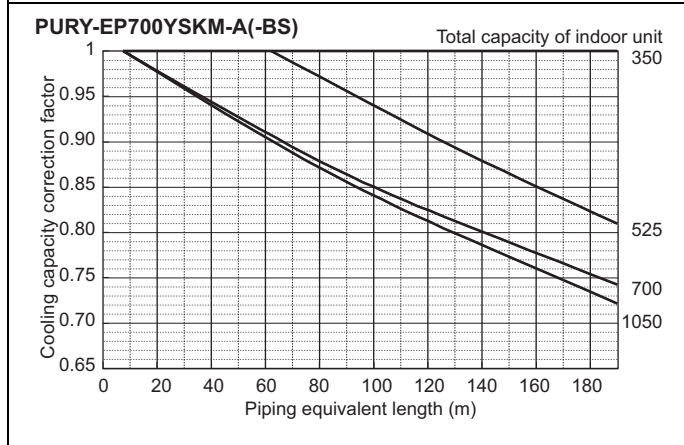
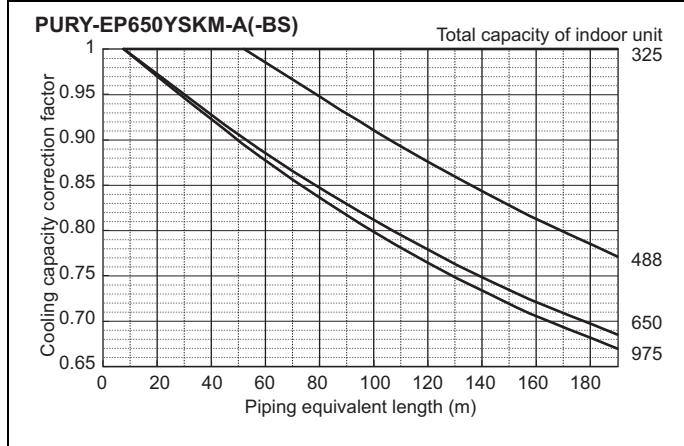
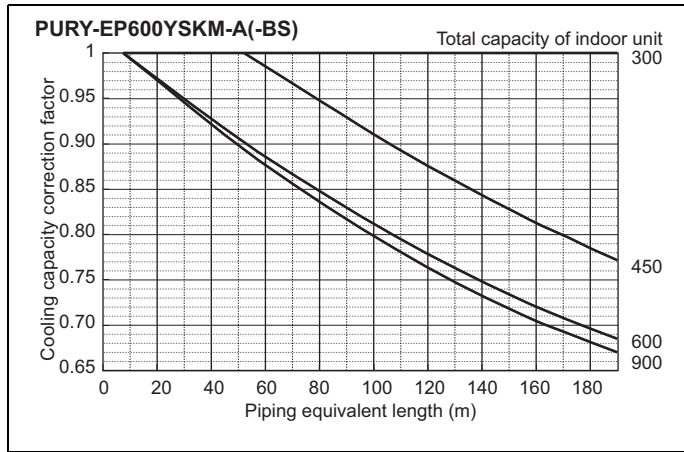
6-3-1. Cooling capacity correction



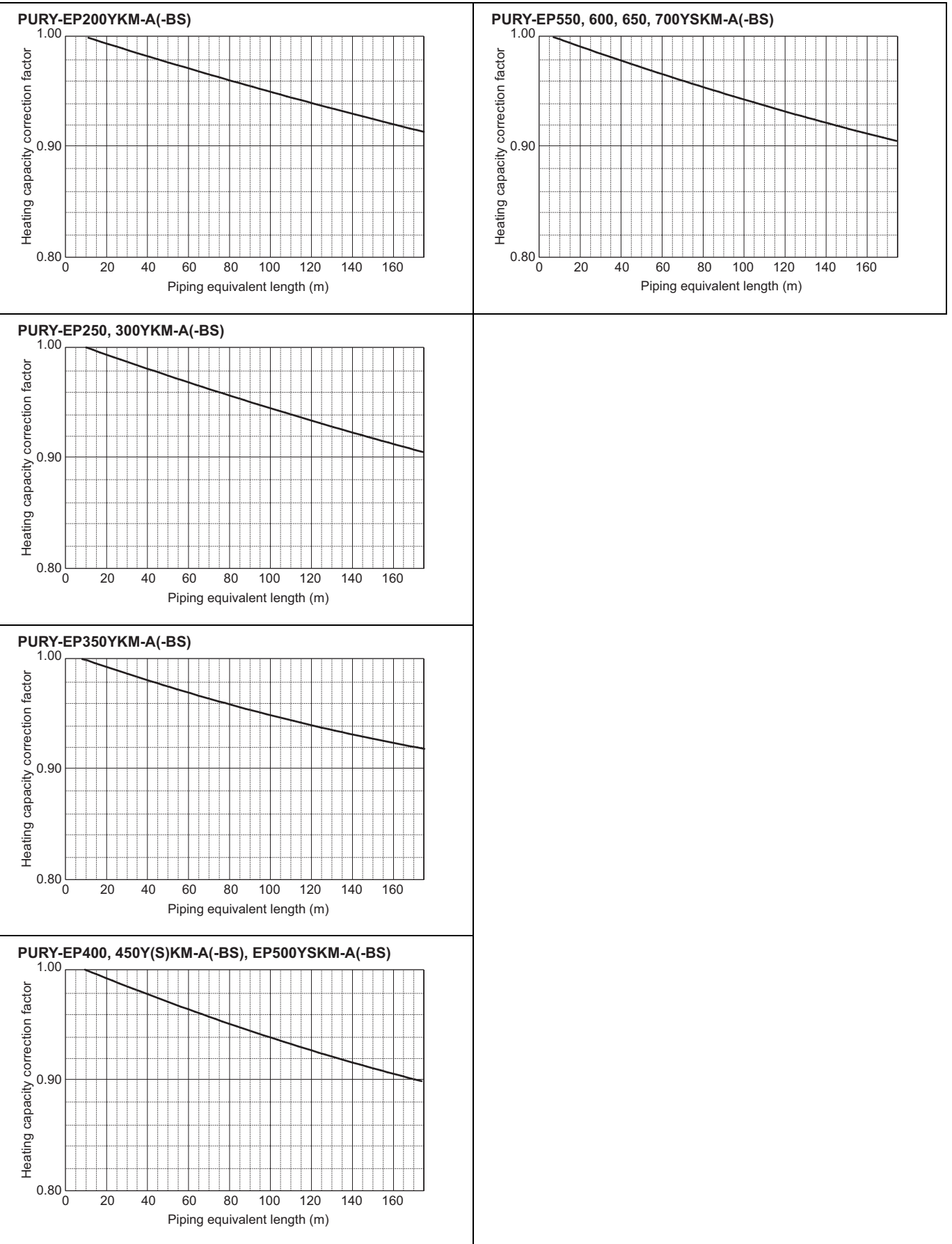


# 6. CAPACITY TABLES

R2 (HIGH COP)



6-3-2. Heating capacity correction



R2 (HIGH COP)

### 6-3-3. How to obtain the equivalent piping length

- 1 **PURY-EP200YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bends in the piping) m
- 2 **PURY-EP250, 300YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) m
- 3 **PURY-EP350YKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bends in the piping) m
- 4 **PURY-EP400, 450Y(S)KM-A(-BS), EP500, 550, 600, 650YSKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bends in the piping) m
- 5 **PURY-EP700YSKM-A(-BS)**  
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bends in the piping) m

### 6-4. Correction by port counts of the BC controller

Indoor unit sizes P200 and P250 must be connected to 2 ports on the BC controller.

Indoor unit sizes from P100 to P140 should normally be connected to 2 ports on the BC controller (set BC controller DIP-SW 4-6 to its ON position).

In cases whereby indoor unit sizes from P100 to P140 are connected to only 1port on the BC controller (set BC controller DIP-SW 4-6 to its OFF position), the cooling capacity of the indoor unit should be multiplied by a correction factor of **0.97**.

### 6-5. Correction at frost and defrost

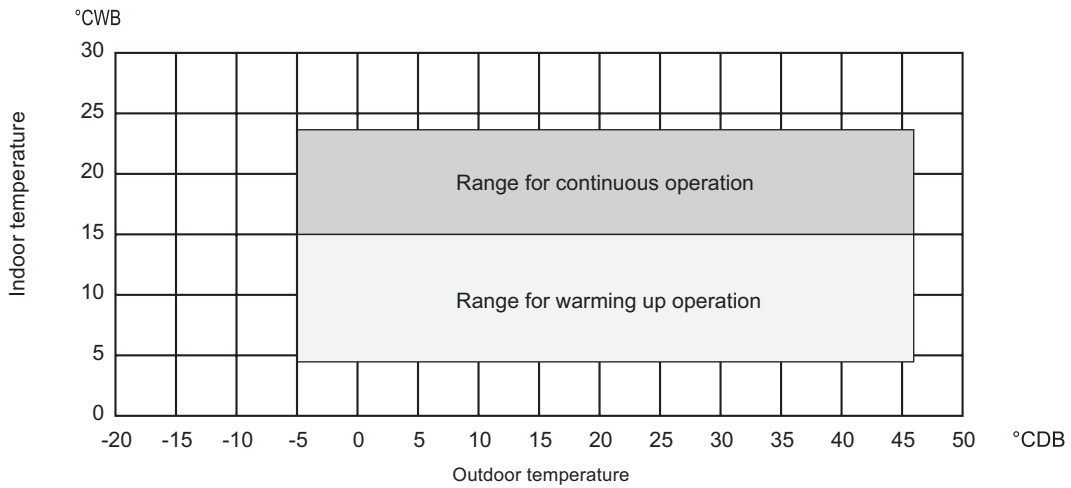
Due to frost at the outdoor heat exchanger and the automatic defrost operation, the heating capacity of the outdoor unit can be calculated by multiplying the correction factor shown in the table below.

Table of correction factor at frosting and defrosting

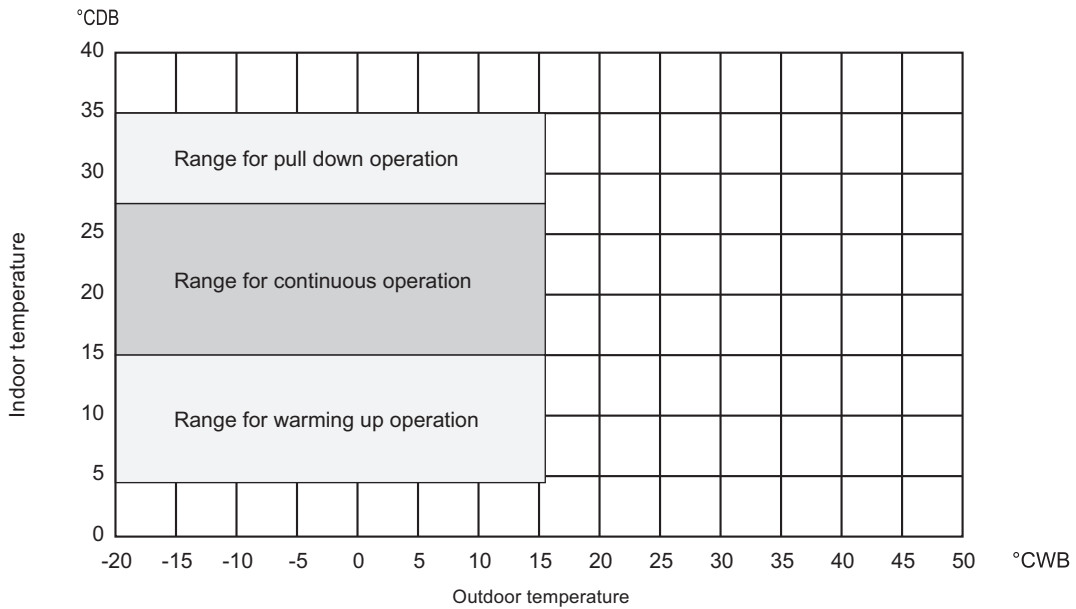
Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PURY-EP200YKM-A(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-EP250YKM-A(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-EP300YKM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PURY-EP350YKM-A(-BS)	1.00	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95
PURY-EP400Y(S)KM-A(-BS)	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95
PURY-EP450Y(S)KM-A(-BS)	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP500YSKM-A(-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP550YSKM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-EP600YSKM-A(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-EP650YSKM-A(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-EP700YSKM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95

6-6. Operation temperature range

• Cooling only



• Heating only



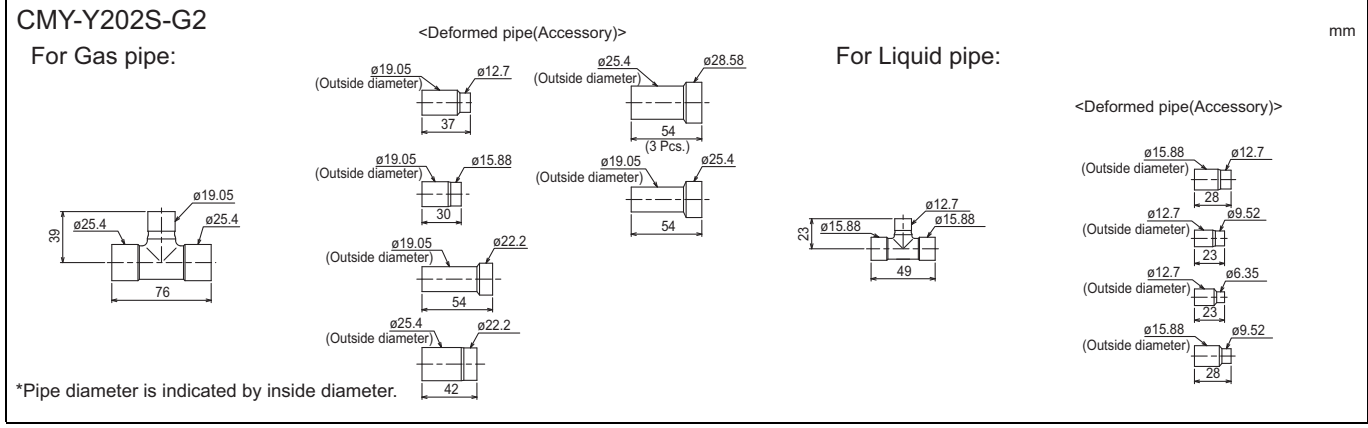
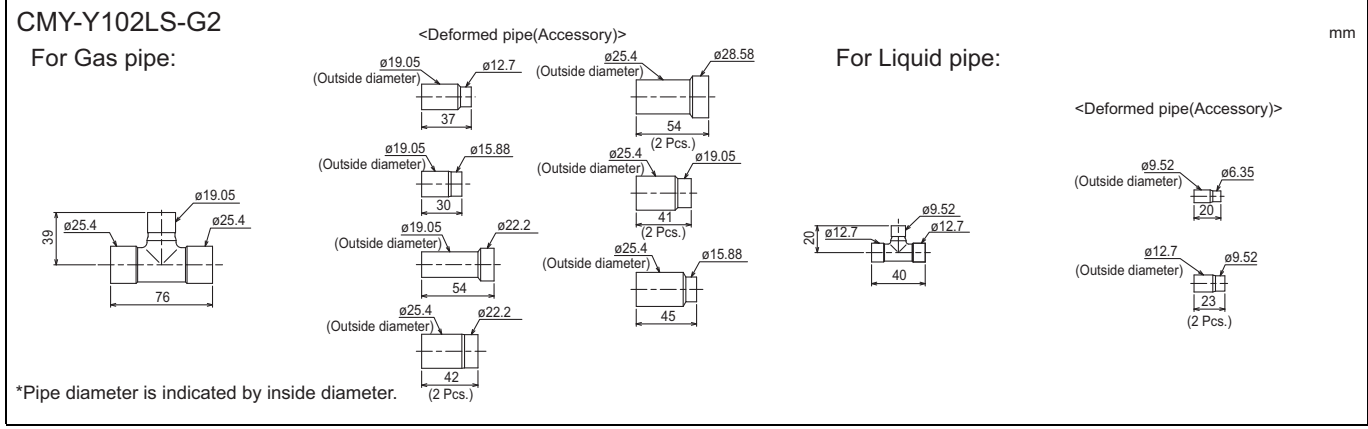
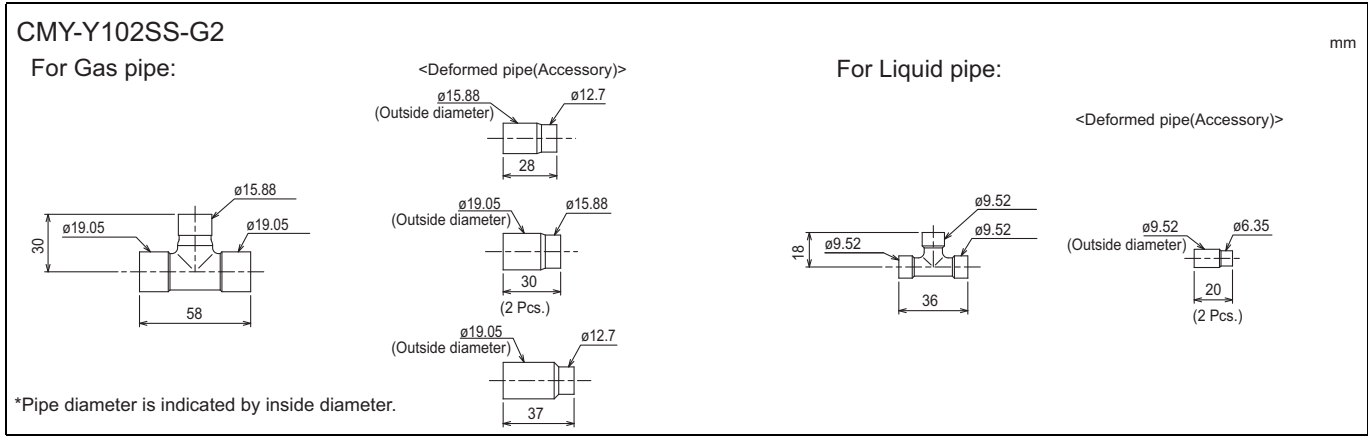
• Combination of cooling/heating operation (Cooling main or Heating main)

Outdoor temperature	Indoor temperature	
	Cooling	Heating
-10 to 21°CDB (14 to 70°FDB)	—	15 to 27°CDB (59 to 81°FDB)
-11 to 15.5°CWB (12.2 to 60°FWB)	15 to 24°CWB (59 to 75°FWB)	—

## 7-1. JOINT

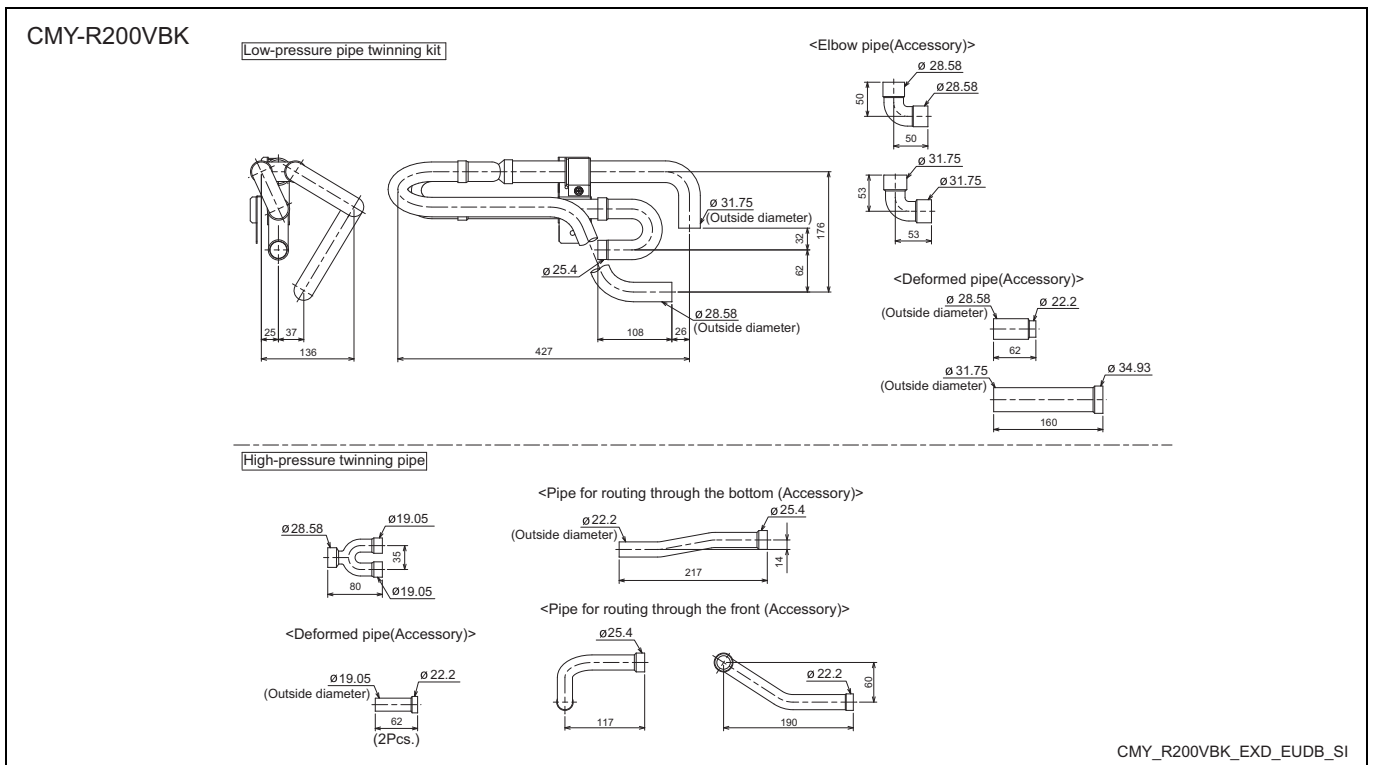
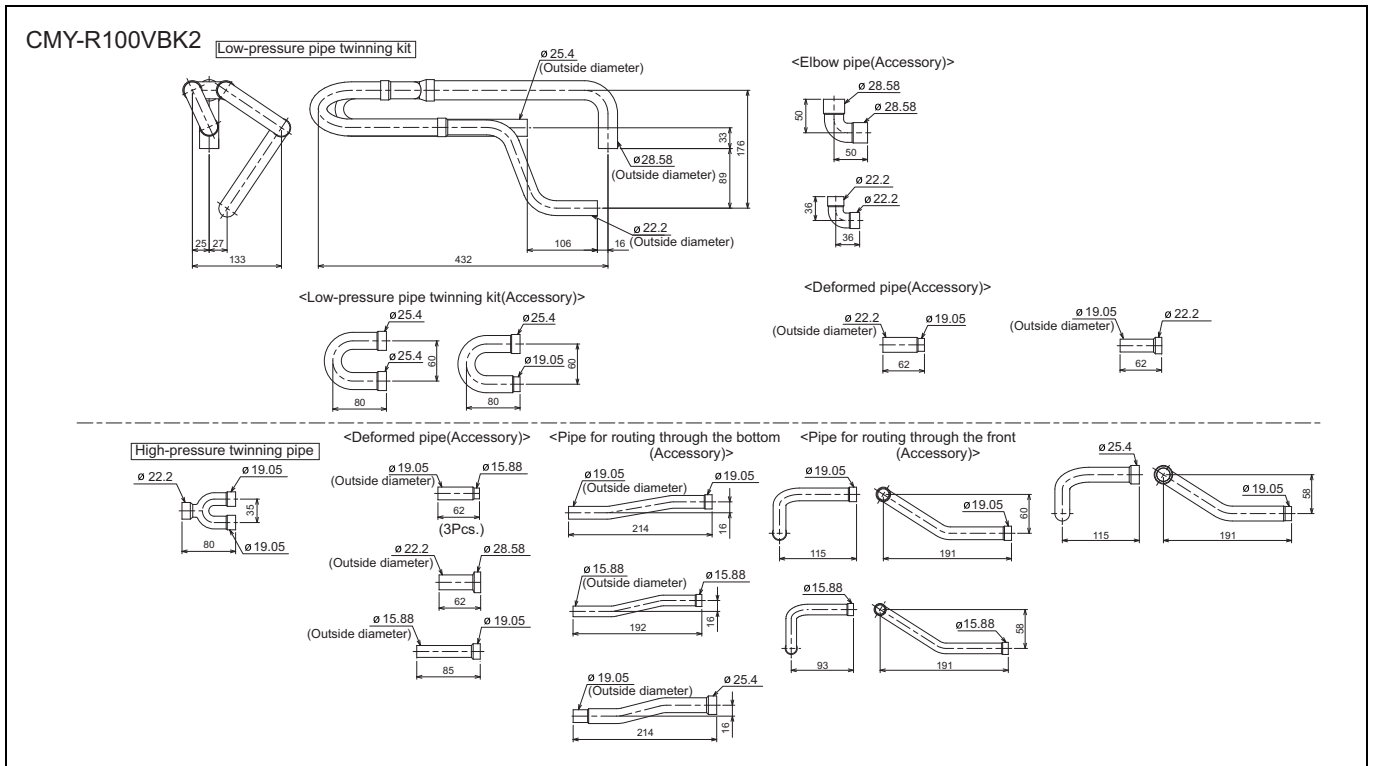
CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Three kinds of Joint sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Joint set for how to install the Joint set.

R2 (HIGH COP)



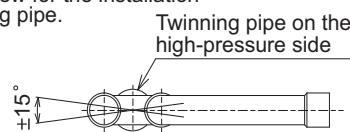
## 7-2. OUTDOOR TWINNING KIT

For PURY series, following optional Outdoor Twinning Kit is needed to use to combine to refrigerant flows of its PURY series. Details of selecting the proper kit should be referred to the System Design Section.



CMY\_R200VBK\_EXD\_EUDB\_SI

Note 1. Refer to the figure below for the installation position of the twinning pipe.

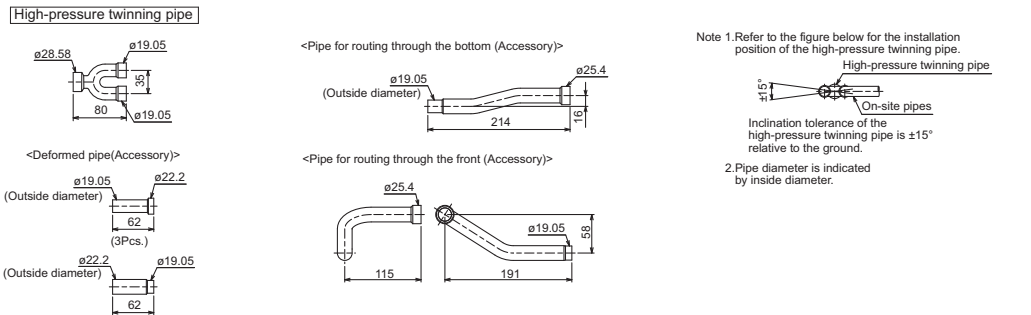
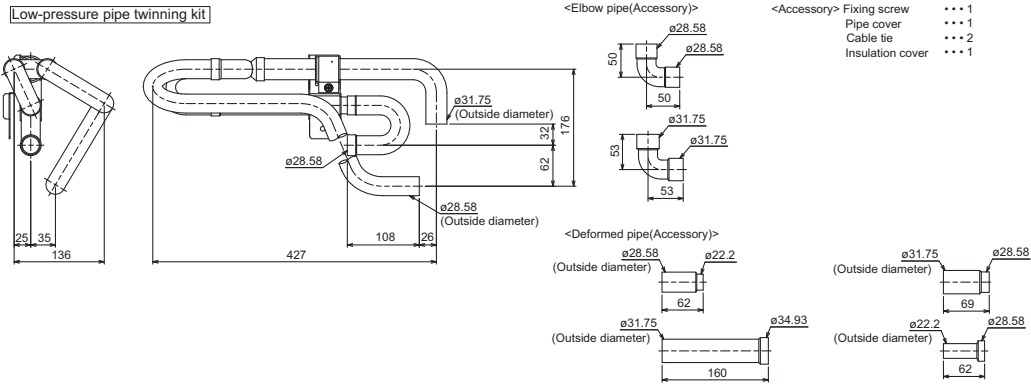


Slope of the twinning pipe is at an angle within  $\pm 15^\circ$  to the horizontal plane.

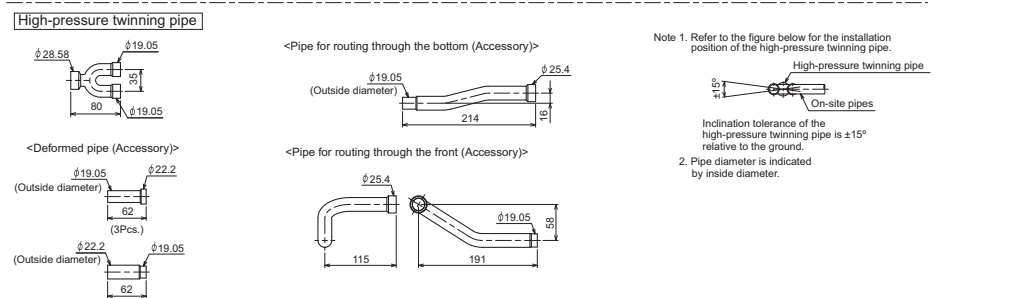
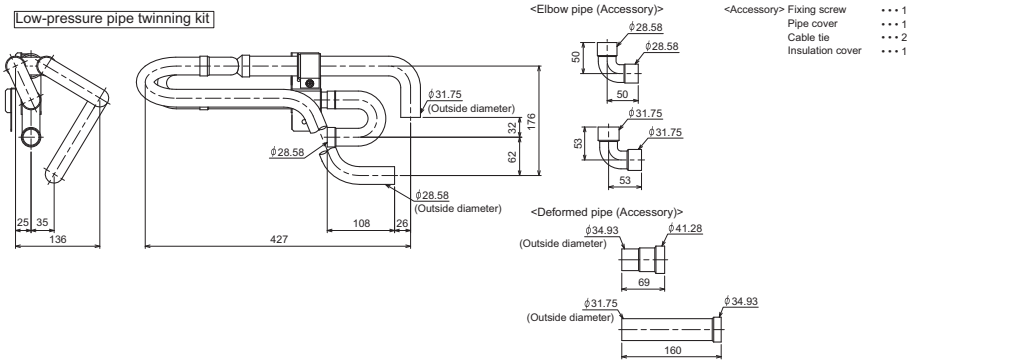
2. Use the attached pipe to braze the port-opening of the distributor.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts) .

R2 (HIGH COP)

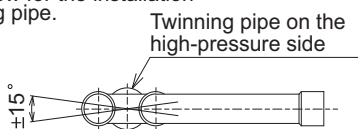
## CMY-R100XLVBK



## CMY-R200XLVBK



Note 1. Refer to the figure below for the installation position of the twinning pipe.







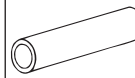
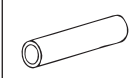
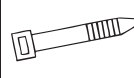

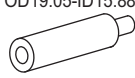
Slope of the twinning pipe is at an angle within  $\pm 15^\circ$  to the horizontal plane.

2. Use the attached pipe to braze the port-opening of the distributor.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts).

7-3. JOINT KIT CMY-R160-J1 FOR BC CONTROLLER

Joint kit "CMY-R160-J1" for BC controller is used to combine 2 ports of the BC controller at a PURY-EP-Y(S)KM-A system so as to enable down-stream Indoor capacity above P80 as shown in Fig. 1.

The Joint kit include following items:

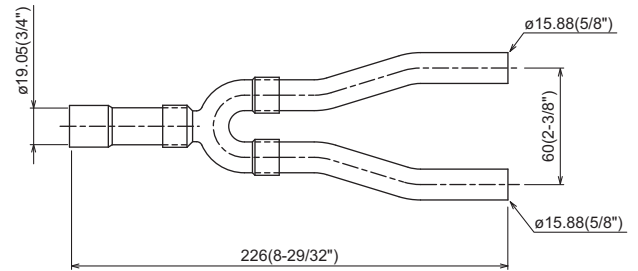
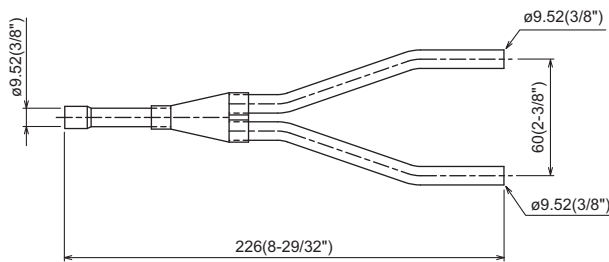
① Instruction	② Joint pipe (Small)	③ Joint pipe (Large)	④ Cover 1	⑤ Cover 2	⑥ Cover 3	⑦ Band	⑧ Reducer 1	⑨ Reducer 2
								
This sheet 1pc	1pc	1pc	2pcs	1pc for gas side	1pc for liquid side	8pcs	OD19.05-ID22.2 1pc	OD19.05-ID15.88 1pc

Please prepare the following items in the field. ① Tape for insulation material sealing ② Extension pipe for refrigerant circuit Ref.: WT05840X01\_01

② Joint pipe (for liquid side)

③ Joint pipe (for gas side)

mm(in.)



1. Designing CMY-R160-J1 to a PURY-EP-Y(S)KM-A system

The maximum down-stream Indoor capacity for 1 port of BC controller is P80. When the down-stream Indoor capacity is above P80, Joint kit CMY-R160-J1 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-J1.

When connecting Indoor units to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J1 or CMY-Y102SS-G2 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.

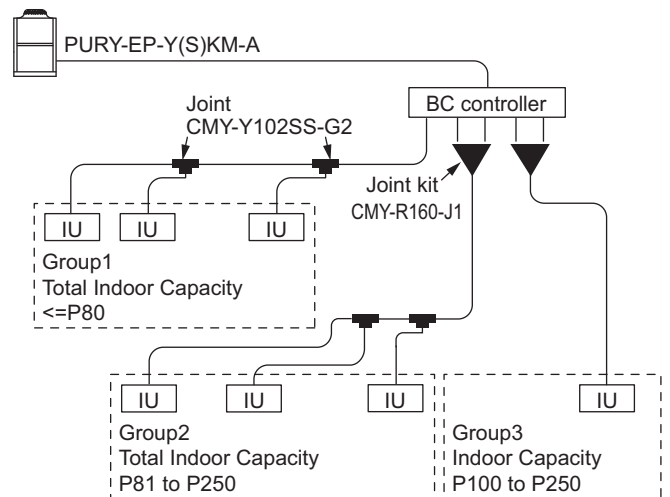


Fig.1. CMY-R160-J1 applying scheme

Ref.: WT05840X01\_02

2. Piping at the installation site

The connection of CMY-R160-J1 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.

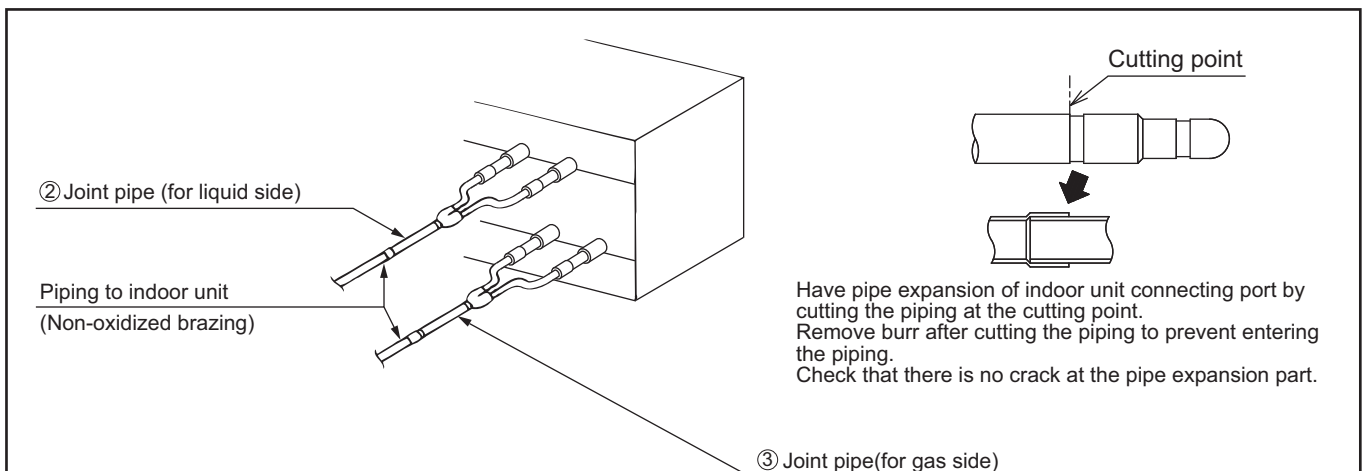


Fig.2. Connecting CMY-R160-J1

Ref.: WT05840X01\_03

Ref: CMY\_R160\_J\_DOC\_EUDB





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# CITY MULTI

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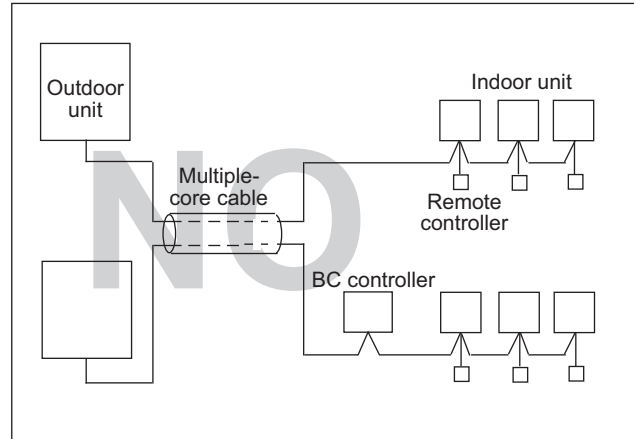
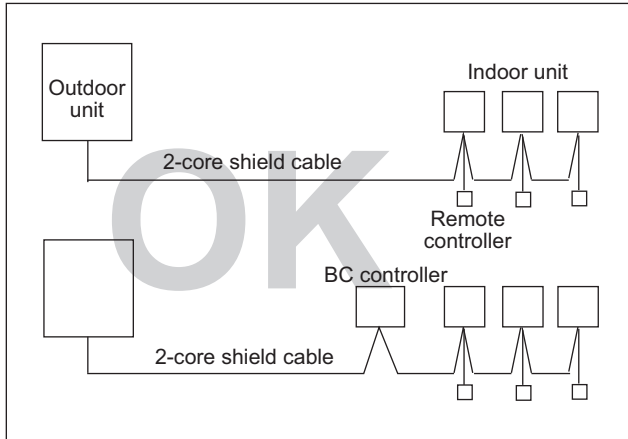


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## 1-1. General cautions

- 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 cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable 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 cable. If connected, electrical parts will be damaged.
- ⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.
- ⑦ When extending the transmission line, make sure to extend the shield cable as well.



1-2. Power supply for Indoor unit and Outdoor unit

1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps  
IFM :Indoor Fan Motor Output : Fan motor rated output

PMFY-P-VBM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	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-VCM-E2	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PLFY-P15VCM-E2	220-240V / 50Hz	Max.: 264V Min.: 198V	0.24	0.008	0.19
PLFY-P20VCM-E2			0.29	0.011	0.23
PLFY-P25VCM-E2			0.29	0.015	0.23
PLFY-P32VCM-E2			0.35	0.020	0.28
PLFY-P40VCM-E2			0.35	0.020	0.28

PLFY-P-VBM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PLFY-P32VBM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.28	0.050	0.22
PLFY-P40VBM-E			0.36	0.050	0.29
PLFY-P50VBM-E			0.36	0.050	0.29
PLFY-P63VBM-E			0.45	0.050	0.36
PLFY-P80VBM-E			0.64	0.050	0.51
PLFY-P100VBM-E			1.25	0.120	1.00
PLFY-P125VBM-E			1.34	0.120	1.07

PLFY-P-VLMD-E	Power supply			IFM	
	Volts / Hz	Range +-10%	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	0.078x2	1.35 / 1.35

PEFY-P-VMR-E-L/R	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PEFY-P20VMR-E-L/R	220-240V / 50Hz 220-230V / 60Hz	Max.: 264V Min.: 198V	0.37 / 0.37	0.018	0.29 / 0.29
PEFY-P25VMR-E-L/R			0.37 / 0.37	0.018	0.29 / 0.29
PEFY-P32VMR-E-L/R			0.43 / 0.48	0.023	0.34 / 0.38

PEFY-P-VMS1-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PEFY-P15VMS1-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.63 / 0.63	0.096	0.50 / 0.50
PEFY-P20VMS1-E			0.70 / 0.70	0.096	0.56 / 0.56
PEFY-P25VMS1-E			0.75 / 0.75	0.096	0.60 / 0.60
PEFY-P32VMS1-E			0.75 / 0.75	0.096	0.60 / 0.60
PEFY-P40VMS1-E			0.83 / 0.82	0.096	0.66 / 0.65
PEFY-P50VMS1-E			1.02 / 1.00	0.096	0.81 / 0.80
PEFY-P63VMS1-E			1.08 / 1.07	0.096	0.86 / 0.85

# 1. Electrical work

EP-YKM

System Y

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

PEFY-P-VMS1L-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PEFY-P15VMS1L-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.46 / 0.46	0.096	0.37 / 0.37
PEFY-P20VMS1L-E			0.54 / 0.54	0.096	0.43 / 0.43
PEFY-P25VMS1L-E			0.59 / 0.59	0.096	0.47 / 0.47
PEFY-P32VMS1L-E			0.59 / 0.59	0.096	0.47 / 0.47
PEFY-P40VMS1L-E			0.68 / 0.68	0.096	0.54 / 0.54
PEFY-P50VMS1L-E			0.84 / 0.84	0.096	0.67 / 0.67
PEFY-P63VMS1L-E			0.91 / 0.91	0.096	0.73 / 0.73

PEFY-P-VMH(S)-E	Power supply			IFM	
	Volts / Hz	Range +-10%	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	0.76	1.62 / 1.86
PEFY-P250VMH-E	380-415V / 60Hz	Min.: 342V	2.50 / 2.88	1.08	2.00 / 2.30
PEFY-P200VMHS-E	220-240V / 50Hz	Max.: 264V	7.00	0.87	5.60
PEFY-P250VMHS-E	220-240V / 60Hz	Min.: 198V	7.50	0.87	6.00

PEFY-P-VMA-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMA-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	1.03	0.085	0.82
PEFY-P25VMA-E			1.03	0.085	0.82
PEFY-P32VMA-E			1.18	0.085	0.95
PEFY-P40VMA-E			1.43	0.085	1.14
PEFY-P50VMA-E			1.54	0.085	1.23
PEFY-P63VMA-E			2.22	0.121	1.78
PEFY-P71VMA-E			2.46	0.121	1.97
PEFY-P80VMA-E			2.47	0.121	1.98
PEFY-P100VMA-E			3.30	0.244	2.64
PEFY-P125VMA-E			3.39	0.244	2.71
PEFY-P140VMA-E			3.29	0.244	2.63

PEFY-P-VMAL-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMAL-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.92	0.085	0.74
PEFY-P25VMAL-E			0.92	0.085	0.74
PEFY-P32VMAL-E			1.07	0.085	0.86
PEFY-P40VMAL-E			1.32	0.085	1.06
PEFY-P50VMAL-E			1.40	0.085	1.12
PEFY-P63VMAL-E			2.08	0.121	1.67
PEFY-P71VMAL-E			2.32	0.121	1.86
PEFY-P80VMAL-E			2.36	0.121	1.89
PEFY-P100VMAL-E			3.19	0.244	2.55
PEFY-P125VMAL-E			3.27	0.244	2.62
PEFY-P140VMAL-E			3.17	0.244	2.53

# 1. Electrical work

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps  
 IFM :Indoor Fan Motor Output : Fan motor rated output

PEFY-P-VMH-E-F	Power supply			IFM	
	Volts / Hz	Range +-10%	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

PKFY-P-VBM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P15VBM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.25	0.017	0.20
PKFY-P20VBM-E			0.25	0.017	0.20
PKFY-P25VBM-E			0.25	0.017	0.20

PKFY-P-VHM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P32VHM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.38	0.030	0.30
PKFY-P40VHM-E			0.38	0.030	0.30
PKFY-P50VHM-E			0.38	0.030	0.30

PKFY-P-VKM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P63VKM-E	220-240V / 50Hz	Max.: 264V	0.36	0.056	0.29
PKFY-P100VKM-E	220V / 60Hz	Min.: 198V	0.63	0.056	0.50

PCFY-P-VKM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PCFY-P40VKM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.35	0.090	0.28
PCFY-P63VKM-E			0.41	0.095	0.33
PCFY-P100VKM-E			0.81	0.160	0.65
PCFY-P125VKM-E			0.95	0.160	0.76

PFFY-P-VKM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PFFY-P20VKM-E	220-240V / 50Hz	Max.: 264V Min.: 198V	0.25	0.03x2	0.20
PFFY-P25VKM-E			0.25	0.03x2	0.20
PFFY-P32VKM-E			0.25	0.03x2	0.20
PFFY-P40VKM-E			0.30	0.03x2	0.24

PFFY-P-VLEM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PFFY-P20VLEM-E	220-240V / 50Hz 208-230V / 60Hz	Max.: 264V Min.: 187V	0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P25VLEM-E			0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P32VLEM-E			0.36 / 0.38	0.018	0.29 / 0.30
PFFY-P40VLEM-E			0.40 / 0.41	0.030	0.32 / 0.33
PFFY-P50VLEM-E			0.50 / 0.51	0.035	0.40 / 0.41
PFFY-P63VLEM-E			0.58 / 0.59	0.050	0.46 / 0.47



Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor      Output : Fan motor rated output

PFFY-P-VLRM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PFFY-P20VLRM-E	220-240V / 50Hz 208-230V / 60Hz	Max.: 264V Min.: 187V	0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P25VLRM-E			0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P32VLRM-E			0.36 / 0.38	0.018	0.29 / 0.30
PFFY-P40VLRM-E			0.40 / 0.41	0.030	0.32 / 0.33
PFFY-P50VLRM-E			0.50 / 0.51	0.035	0.40 / 0.41
PFFY-P63VLRM-E			0.58 / 0.59	0.050	0.46 / 0.47

PFFY-P-VLRMM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PFFY-P20VLRMM-E	220-240V / 50Hz	Max.: 264V Min.: 198V	0.59 / 0.58	0.096	0.47 / 0.46
PFFY-P25VLRMM-E			0.59 / 0.58	0.096	0.47 / 0.46
PFFY-P32VLRMM-E			0.69 / 0.69	0.096	0.55 / 0.55
PFFY-P40VLRMM-E			0.78 / 0.76	0.096	0.62 / 0.61
PFFY-P50VLRMM-E			0.80 / 0.79	0.096	0.64 / 0.63
PFFY-P63VLRMM-E			0.93 / 0.93	0.096	0.74 / 0.74

GUF-RDH3	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
GUF-50RD(H)3	220-240V / 50Hz	Max.: 264V	1.85 / 1.85	0.081x2	1.48 / 1.48
GUF-100RD(H)3	220V / 60Hz	Min.: 198V	3.49 / 3.49	0.16x2	2.79 / 2.79

## 1-2-2. Electrical characteristics of Outdoor unit

Symbols: MCA : Max Circuit Amps

RLA : Rated Load Amps SC : Starting Current

PUHY-EP-YKM	Unit Combination	Units			Power supply	Compressor		FAN	RLA(A)(50/60Hz)				
		Hz	Volts	Voltage range	MCA(A)	Output(kW)	SC(A)	Output (kW)	Cooling	Heating			
PUHY-EP200YKM-A(-BS)	-	50/60	380 400 415	Max:456V Min:342V	16.1	5.5	8	0.92	9.2 / 8.8 / 8.5	9.7 / 9.2 / 8.9			
PUHY-EP250YKM-A(-BS)	-				17.7	6.9	8	0.92	11.6 / 11.0 / 10.6	12.6 / 12.0 / 11.5			
PUHY-EP300YKM-A(-BS)	-				21.9	8.1	8	0.92+0.92	13.7 / 13.1 / 12.6	15.6 / 14.9 / 14.3			
PUHY-EP350YKM-A(-BS)	-				28.7	10.4	8	0.92+0.92	18.4 / 17.5 / 16.8	20.5 / 19.5 / 18.7			
PUHY-EP400YKM-A(-BS)	-				32.2	10.8	8	0.92+0.92	21.8 / 20.7 / 19.9	23.0 / 21.9 / 21.1			
PUHY-EP450YKM-A(-BS)	-				36.2	12.4	8	0.92+0.92	25.8 / 24.5 / 23.6	22.8 / 21.6 / 20.8			
PUHY-EP400YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)				50/60	380 400 415	Max:456V Min:342V	28.6	5.5	8	0.92	19.6 / 18.6 / 18.0	20.4 / 19.4 / 18.7
	PUHY-EP200YKM-A(-BS)								5.5	8	0.92		
PUHY-EP450YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)							32.7	5.5	8	0.92	21.8 / 20.7 / 20.0	23.3 / 22.1 / 21.3
	PUHY-EP250YKM-A(-BS)								6.9	8	0.92		
PUHY-EP500YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)							37.4	5.5	8	0.92	24.3 / 23.1 / 22.3	26.7 / 25.4 / 24.5
	PUHY-EP300YKM-A(-BS)								8.1	8	0.92+0.92		
PUHY-EP550YSKM-A(-BS)	PUHY-EP250YKM-A(-BS)							41.8	6.9	8	0.92	27.4 / 26.0 / 25.1	29.8 / 28.3 / 27.3
	PUHY-EP300YKM-A(-BS)								8.1	8	0.92+0.92		
PUHY-EP600YSKM-A(-BS)	PUHY-EP300YKM-A(-BS)							47.2	8.1	8	0.92+0.92	29.9 / 28.4 / 27.4	33.7 / 32.1 / 30.9
	PUHY-EP300YKM-A(-BS)								8.1	8	0.92+0.92		
PUHY-EP650YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)							47.2	5.5	8	0.92	31.9 / 30.3 / 29.2	33.7 / 32.1 / 30.9
	PUHY-EP200YKM-A(-BS)								5.5	8	0.92		
	PUHY-EP250YKM-A(-BS)								6.9	8	0.92		
PUHY-EP700YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)							51.7	5.5	8	0.92	34.8 / 33.1 / 31.9	36.9 / 35.1 / 33.8
	PUHY-EP200YKM-A(-BS)								5.5	8	0.92		
	PUHY-EP300YKM-A(-BS)								8.1	8	0.92+0.92		
PUHY-EP750YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)							56.3	5.5	8	0.92	37.0 / 35.2 / 33.9	40.2 / 38.2 / 36.8
	PUHY-EP250YKM-A(-BS)								6.9	8	0.92		
	PUHY-EP300YKM-A(-BS)	8.1	8	0.92+0.92									
PUHY-EP800YSKM-A(-BS)	PUHY-EP200YKM-A(-BS)	60.2	5.5	8				0.92	39.1 / 37.1 / 35.8	43.0 / 40.9 / 39.4			
	PUHY-EP300YKM-A(-BS)		8.1	8				0.92+0.92					
	PUHY-EP300YKM-A(-BS)		8.1	8				0.92+0.92					
PUHY-EP850YSKM-A(-BS)	PUHY-EP250YKM-A(-BS)	65.7	6.9	8				0.92	41.7 / 39.6 / 38.2	46.9 / 44.6 / 43.0			
	PUHY-EP300YKM-A(-BS)		8.1	8				0.92+0.92					
	PUHY-EP300YKM-A(-BS)		8.1	8	0.92+0.92								
PUHY-EP900YSKM-A(-BS)	PUHY-EP300YKM-A(-BS)	69.9	8.1	8	0.92+0.92	43.8 / 41.6 / 40.1	49.9 / 47.4 / 45.7						
	PUHY-EP300YKM-A(-BS)		8.1	8	0.92+0.92								
	PUHY-EP300YKM-A(-BS)		8.1	8	0.92+0.92								

## 1-3. Power cable specifications

### Thickness of wire for main power supply, capacities of the switch and system impedance

	Model	Minimum wire thickness (mm <sup>2</sup> )			Ground-fault interrupter *1	Local switch (A)		Breaker for wiring (A) (Non-fuse breaker)	Max. Permissible System Impedance
		Main cable	Branch	Ground		Capacity	Fuse		
Outdoor unit	PUHY-EP200YKM	4.0	-	4.0	30A 100mA 0.1sec. or less	25	25	30	*2
	PUHY-EP250YKM	4.0	-	4.0	30A 100mA 0.1sec. or less	32	32	30	*2
	PUHY-EP300YKM	4.0	-	4.0	30A 100mA 0.1sec. or less	32	32	30	*2
	PUHY-EP350YKM	6.0	-	6.0	40A 100mA 0.1sec. or less	40	40	40	0.25Ω
	PUHY-EP400YKM	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60	0.22Ω
	PUHY-EP450YKM	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60	0.19Ω
Total operating current of the indoor unit	F0 = 16A or less *3	1.5	1.5	1.5	20A current sensitivity *4	16	16	20	(apply to IEC61000-3-3)
	F0 = 25A or less *3	2.5	2.5	2.5	30A current sensitivity *4	25	25	30	(apply to IEC61000-3-3)
	F0 = 32A or less *3	4.0	4.0	4.0	40A current sensitivity *4	32	32	40	(apply to IEC61000-3-3)

\*1 The Ground-fault interrupter should support Inverter circuit.

The Ground-fault interrupter should combine using of local switch or wiring breaker.

\*2 Meet technical requirements of IEC61000-3-3

\*3 Please take the larger of F1 or F2 as the value for F0.

F1 = Total operating maximum current of the indoor units × 1.2

F2 = {V1 × (Quantity of Type1)/C} + {V1 × (Quantity of Type2)/C} + {V1 × (Quantity of Type3)/C} + {V1 × (Quantity of Others)/C}

Indoor unit		V1	V2
Type1	PLFY-VBM, PMFY-VBM, PEFY-VMS, PCFY-VKM, PKFY-VHM, PKFY-VKM, PFFY-VKM, PFFY-VLRMM	18.6	2.4
Type2	PEFY-VMA	38	1.6
Type3	PEFY-VMHS	13.8	4.8
Others	Other indoor unit	0	0

C : Multiple of tripping current at tripping time 0.01s

Please pick up "C" from the tripping characteristic of the breaker.

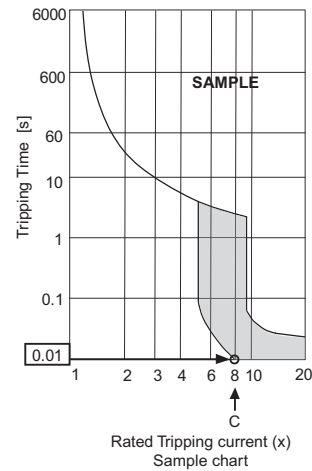
<Example of "F2" calculation>

\*Condition PEFY-VMS × 4 + PEFY-VMA × 1, C = 8 (refer to right sample chart)

F2 = 18.6 × 4/8 + 38 × 1/8

= 14.05

→16 A breaker (Tripping current = 8 × 16 A at 0.01s)



\*4 Current sensitivity is calculated using the following formula.

G1 = (V2 × Quantity of Type1) + (V2 × Quantity of Type2) + (V2 × Quantity of Type3) + (V2 × Quantity of Others) + (V3 × Wire length [km])

G1	Current sensitivity
30 or less	30 mA 0.1sec or less
100 or less	100 mA 0.1sec or less

Wire thickness	V3
1.5 mm <sup>2</sup>	48
2.5 mm <sup>2</sup>	56
4.0 mm <sup>2</sup>	66

- Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
- Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
- The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%. Make sure that the voltage imbalance between the phases is 2% or less.
- Specific wiring requirements should adhere to the wiring regulations of the region.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57). For example, use wiring such as YZW.
- A switch with at least 3 mm contact separation in each pole shall be provided by the Air conditioner installation.

### ⚠ WARNING

- Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

### ⚠ CAUTION

- The breakers for current leakage should support Inverter circuit. (e.g. Mitsubishi Electric's NV-S series or equivalent). If no earth leakage breaker is installed, it may cause an electric shock.
- Breakers for current leakage should combine using of switch.
- Do not use anything other than a breaker with the correct capacity. Using a breaker of too large capacity may cause malfunction or fire.
- If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the upstream side of the power supply system may both operate. Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

### Note

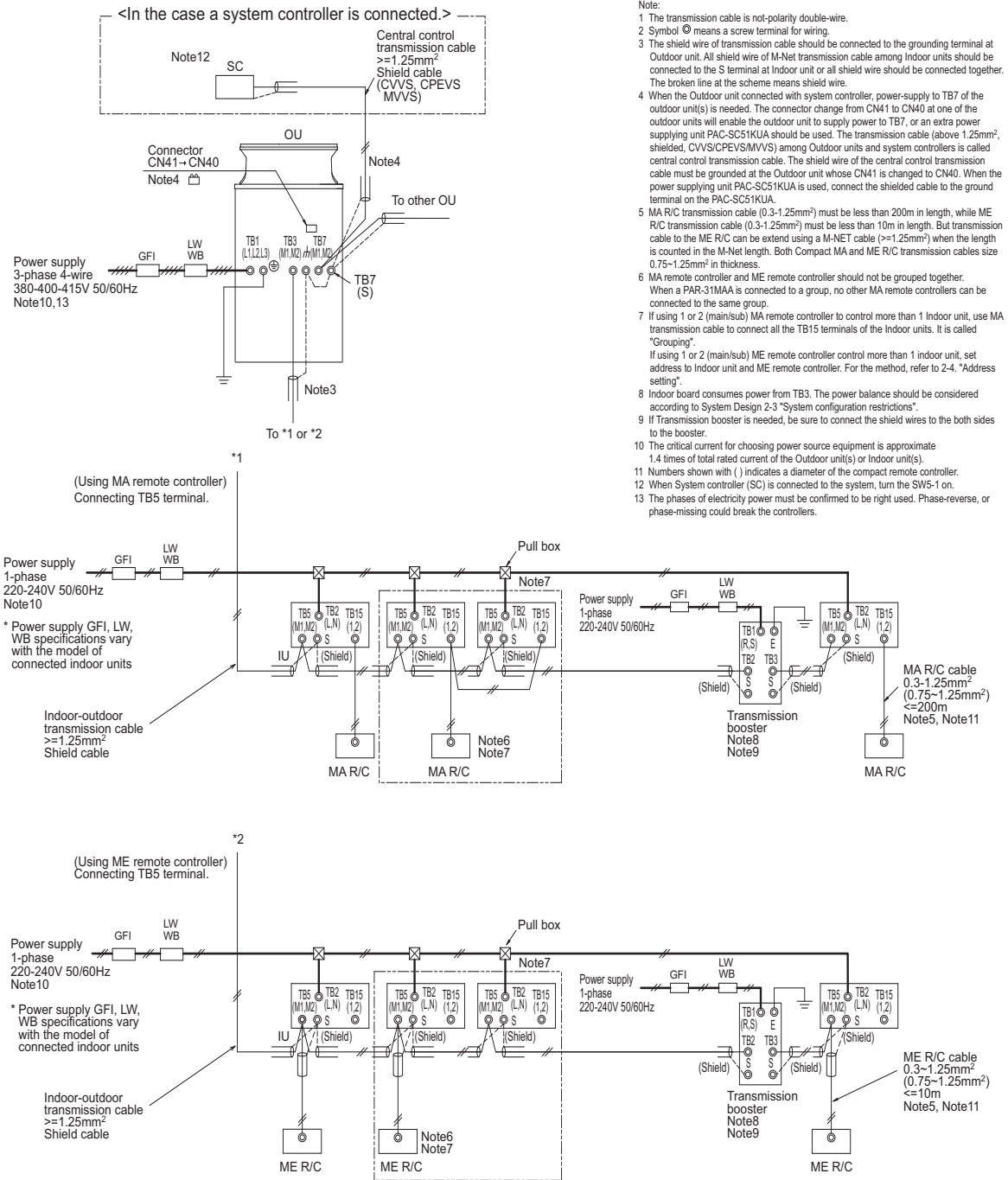
- This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- The user must ensure that this device is connected only to a power supply system which fulfils the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.
- This equipment complies with IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to Ssc (\*2) at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power Ssc greater than or equal to Ssc (\*2).

Ssc(\*2)

Model	PUHY-EP200YKM	PUHY-EP250YKM	PUHY-EP300YKM	PUHY-EP350YKM	PUHY-EP400YKM	PUHY-EP450YKM
Ssc(MVA)	1.25	1.37	1.70	2.23	2.50	2.81

## 1-4. Power supply examples

The local standards and/or regulations is applicable at a higher priority.  
 1-4-1. PUHY-EP200, 250, 300, 350, 400, 450YKM



Symbol	Model	Ground-fault interrupter *1, *2, *4	Local switch		Wiring breaker*4 (NFB) <A>	Minimum Wire thickness		
			BKC <A>	OCP*3, *4 <A>		Power wire <mm <sup>2</sup> >	Earth wire <mm <sup>2</sup> >	
GFI	Ground-fault interrupter	PUHY-EP200YKM	30A 100mA 0.1sec. or less	25	25	30	4	4
LW	Local switch	PUHY-EP250YKM	30A 100mA 0.1sec. or less	32	32	30	4	4
BKC	Breaker capacity	PUHY-EP300YKM	40A 100mA 0.1sec. or less	32	32	40	4	4
OCP	Over-current protector	PUHY-EP350YKM	40A 100mA 0.1sec. or less	40	40	40	6	6
WB	Wiring breaker	PUHY-EP400YKM	60A 100mA 0.1sec. or less	63	63	60	10	10
NFB	Non-fuse breaker	PUHY-EP450YKM	60A 100mA 0.1sec. or less	63	63	60	10	10

\*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-S series or equivalent).

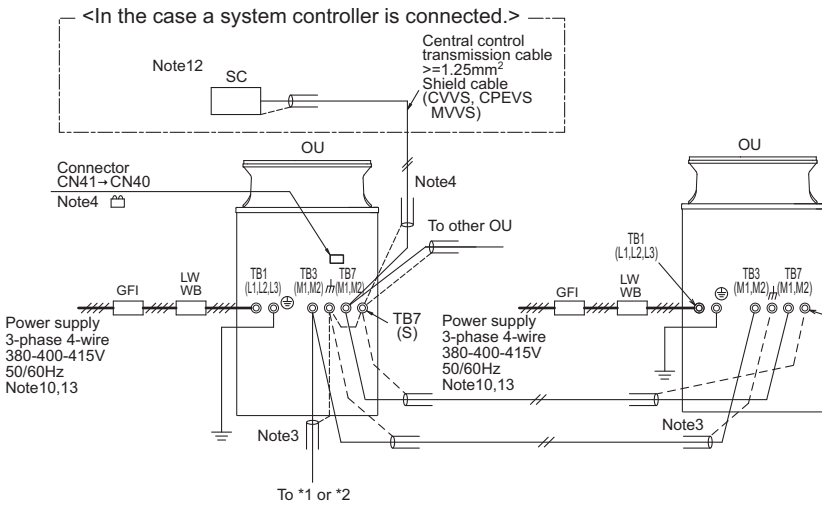
\*2 Ground-fault interrupter should combine using of local switch or wiring breaker.

\*3 It shows data for B-type fuse of the breaker for current leakage.

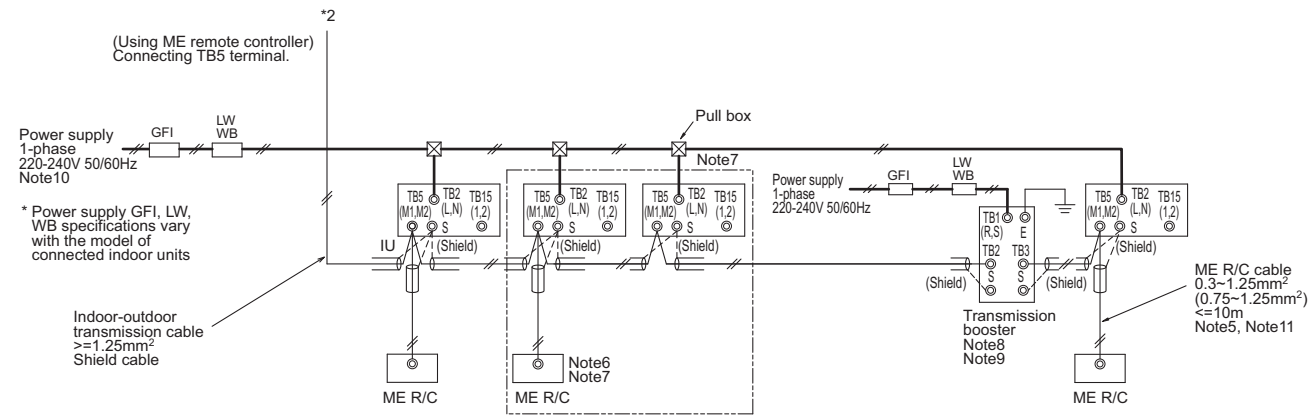
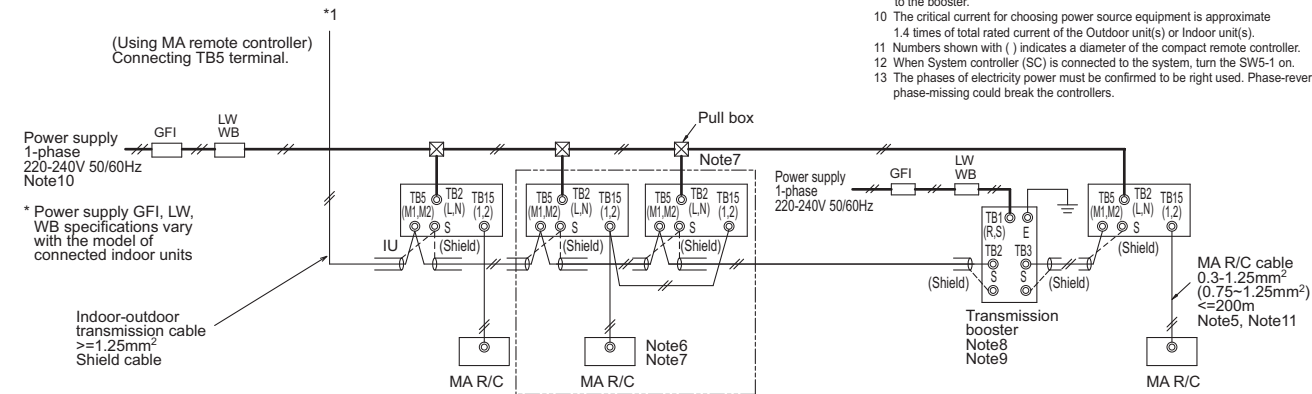
\*4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate.

Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

The local standards and/or regulations is applicable at a higher priority.  
 1-4-2. PUHY-EP400, 450, 500, 550, 600YSKM-A



- Note:
- The transmission cable is not-polarity double-wire.
  - Symbol Ⓞ means a screw terminal for wiring.
  - The shield wire of transmission cable should be connected to the grounding terminal at Outdoor unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected together. The broken line at the scheme means shield wire.
  - When the Outdoor unit connected with system controller, power-supply to TB7 of the outdoor unit(s) is needed. The connector change from CN41 to CN40 at one of the outdoor units will enable the outdoor unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm<sup>2</sup>, shielded, CVVS/CPEVS/MVVS) among Outdoor units and system controllers is called central control transmission cable. The shield wire of the central control transmission cable must be grounded at the Outdoor unit whose CN41 is changed to CN40. When the power supplying unit PAC-SC51KUA is used, connect the shielded cable to the ground terminal on the PAC-SC51KUA.
  - MA R/C transmission cable (0.3-1.25mm<sup>2</sup>) must be less than 200m in length, while ME R/C transmission cable (0.3-1.25mm<sup>2</sup>) must be less than 10m in length. But transmission cable to the ME R/C can be extended using a M-NET cable (>=1.25mm<sup>2</sup>) when the length is counted in the M-Net length. Both Compact MA and ME R/C transmission cables size 0.75-1.25mm<sup>2</sup> in thickness.
  - MA remote controller and ME remote controller should not be grouped together. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.
  - If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping". If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 2-4. "Address setting".
  - Indoor board consumes power from TB3. The power balance should be considered according to System Design 2-3 "System configuration restrictions".
  - If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.
  - The critical current for choosing power source equipment is approximate 1.4 times of total rated current of the Outdoor unit(s) or Indoor unit(s).
  - Numbers shown with ( ) indicates a diameter of the compact remote controller.
  - When System controller (SC) is connected to the system, turn the SW5-1 on.
  - The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.

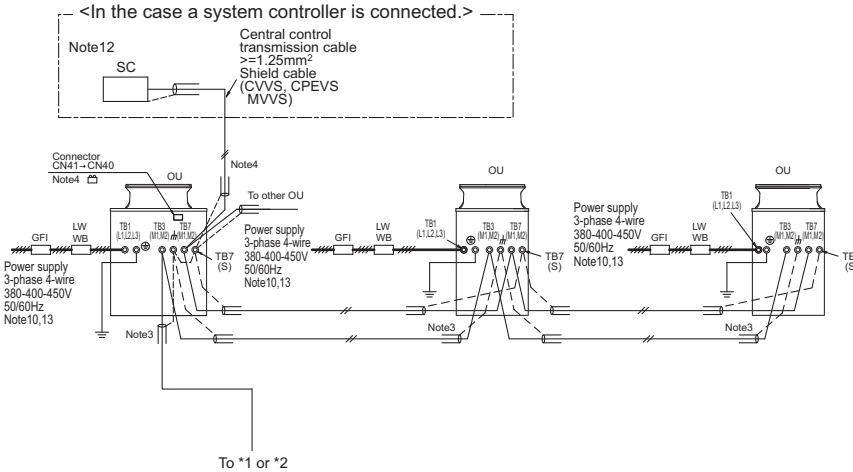


Symbol	Model	Ground-fault interrupter *1, *2, *4	Local switch		Wiring breaker*4 (NFB) <A>	Minimum Wire thickness			
			BKC <A>	OCP*3, *4 <A>		Power wire <mm²>	Earth wire <mm²>		
GFI	Ground-fault interrupter	PUHY-EP200YKM	30A	100mA 0.1sec. or less	25	25	30	4	4
LW	Local switch	PUHY-EP250YKM	30A	100mA 0.1sec. or less	32	32	30	4	4
BKC	Breaker capacity	PUHY-EP300YKM	40A	100mA 0.1sec. or less	32	32	30	4	4
OCP	Over-current protector	PUHY-EP350YKM	40A	100mA 0.1sec. or less	40	40	40	6	6
WB	Wiring breaker	PUHY-EP400YKM	60A	100mA 0.1sec. or less	63	63	60	10	10
NFB	Non-fuse breaker	PUHY-EP450YKM	60A	100mA 0.1sec. or less	63	63	60	10	10

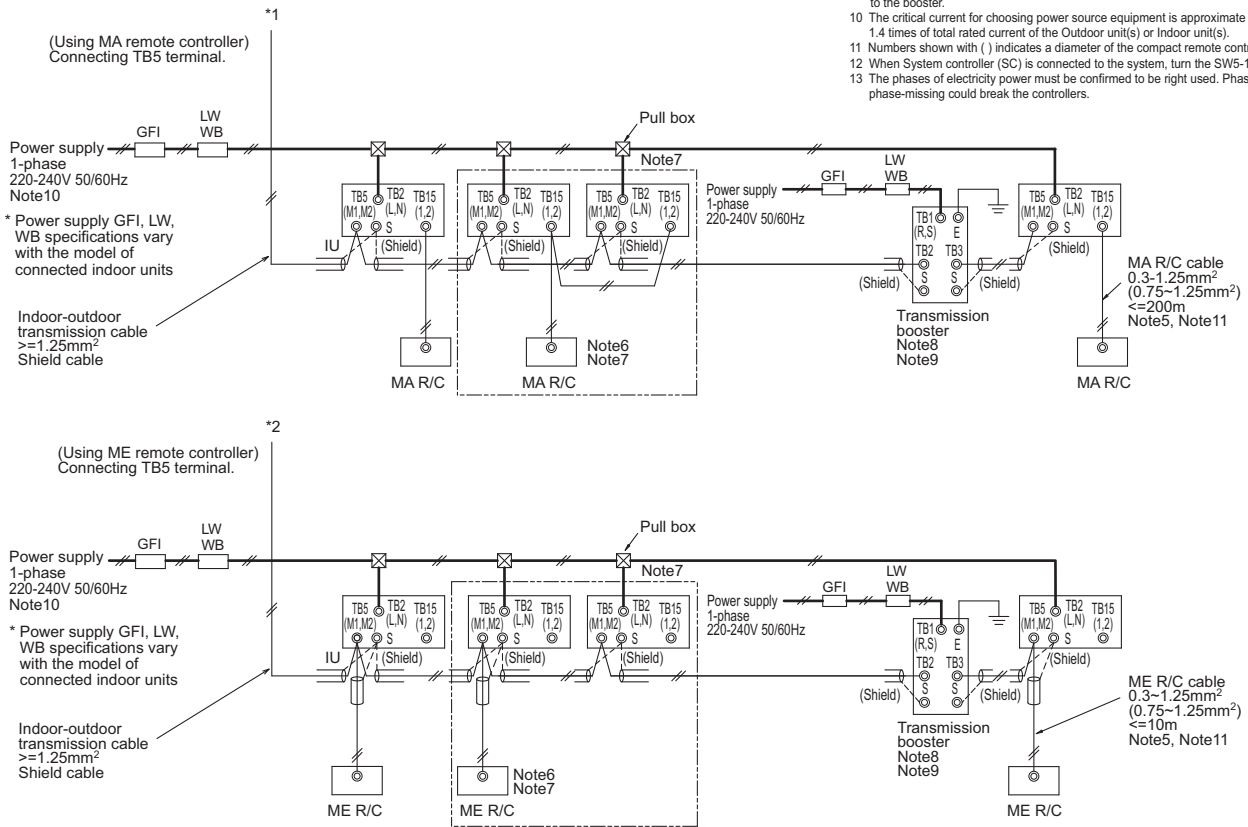
Outdoor unit  
 IU Indoor unit  
 SC System controller  
 MA R/C MA remote controller  
 ME R/C ME remote controller

\*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-S series or equivalent).  
 \*2 Ground-fault interrupter should combine using of local switch or wiring breaker.  
 \*3 It shows data for B-type fuse of the breaker for current leakage.  
 \*4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate.  
 Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

The local standards and/or regulations is applicable at a higher priority.  
 1-4-3. PUHY-EP650, 700, 750, 800, 850, 900YSKM-A



- Note:
- The transmission cable is not-polarity double-wire.
  - Symbol  $\odot$  means a screw terminal for wiring.
  - The shield wire of transmission cable should be connected to the grounding terminal at Outdoor unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected together. The broken line at the scheme means shield wire.
  - When the Outdoor unit connected with system controller, power-supply to TB7 of the outdoor unit(s) is needed. The connector change from CN41 to CN40 at one of the outdoor units will enable the outdoor unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm<sup>2</sup>, shielded, CVVS/CPEVS/MVVS) among Outdoor units and system controllers is called central control transmission cable. The shield wire of the central control transmission cable must be grounded at the Outdoor unit whose CN41 is changed to CN40. When the power supplying unit PAC-SC51KUA is used, connect the shielded cable to the ground terminal on the PAC-SC51KUA.
  - MA R/C transmission cable (0.3-1.25mm<sup>2</sup>) must be less than 200m in length, while ME R/C transmission cable (0.3-1.25mm<sup>2</sup>) must be less than 10m in length. But transmission cable to the ME R/C can be extended using a M-NET cable (>=1.25mm<sup>2</sup>) when the length is counted in the M-Net length. Both Compact MA and ME R/C transmission cables size 0.75-1.25mm<sup>2</sup> in thickness.
  - MA remote controller and ME remote controller should not be grouped together. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.
  - If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping".  
 If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 2-4. "Address setting".
  - Indoor board consumes power from TB3. The power balance should be considered according to System Design 2-3 "System configuration restrictions".
  - If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.
  - The critical current for choosing power source equipment is approximate 1.4 times of total rated current of the Outdoor unit(s) or Indoor unit(s).
  - Numbers shown with ( ) indicates a diameter of the compact remote controller.
  - When System controller (SC) is connected to the system, turn the SW5-1 on.
  - The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.



Symbol	Model	Ground-fault interrupter *1, *2, *4	Local switch		Wiring breaker*4 (NFB)	Minimum Wire thickness		
			BKC <A>	OCP*3, *4 <A>		Power wire <mm <sup>2</sup> >	Earth wire <mm <sup>2</sup> >	
GFI	Ground-fault interrupter	PUHY-EP200YKM	30A 100mA 0.1sec. or less	25	25	30	4	4
LW	Local switch	PUHY-EP250YKM	30A 100mA 0.1sec. or less	32	32	30	4	4
BKC	Breaker capacity	PUHY-EP300YKM	40A 100mA 0.1sec. or less	32	32	30	4	4
OCP	Over-current protector	PUHY-EP350YKM	40A 100mA 0.1sec. or less	40	40	40	6	6
WB	Wiring breaker	PUHY-EP400YKM	60A 100mA 0.1sec. or less	63	63	60	10	10
NFB	Non-fuse breaker	PUHY-EP450YKM	60A 100mA 0.1sec. or less	63	63	60	10	10

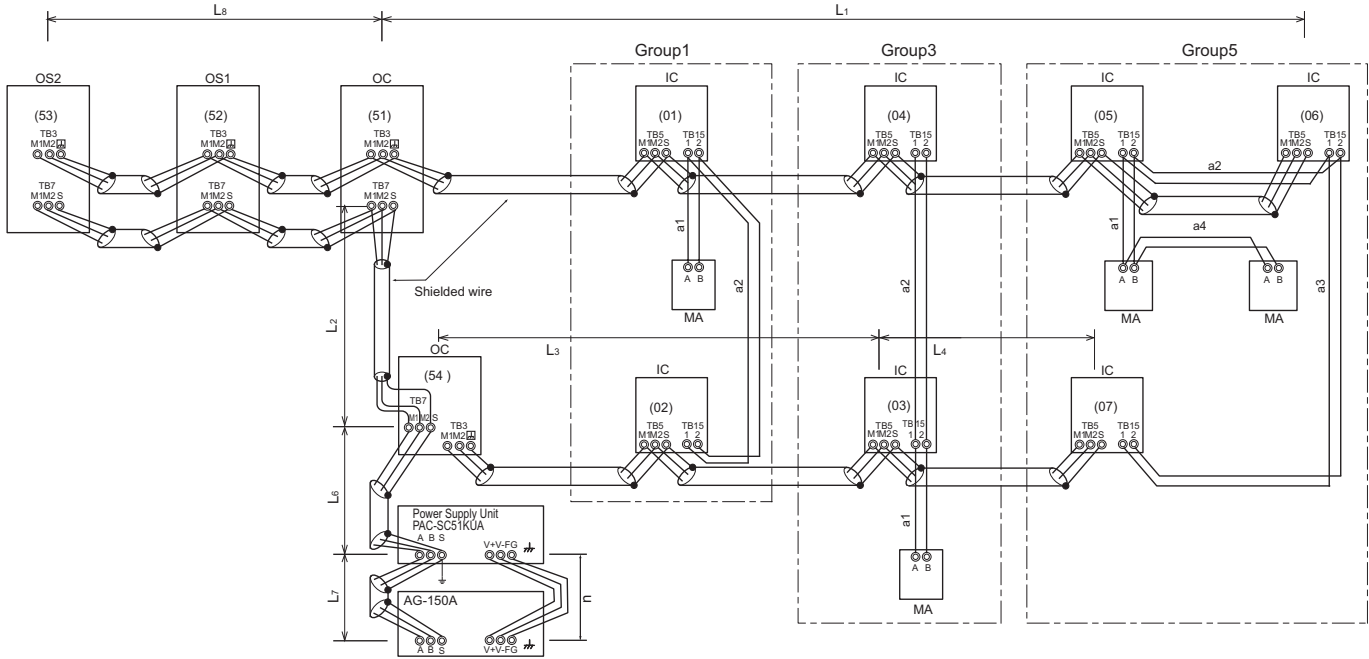
- \*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-S series or equivalent).
- \*2 Ground-fault interrupter should combine using of local switch or wiring breaker.
- \*3 It shows data for B-type fuse of the breaker for current leakage.
- \*4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate.  
 Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

## 2-1. Transmission cable length limitation

### 2-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	$L1+L2+L3+L4, L1+L2+L6+L7, L3+L4+L6+L7$	$\leq 500\text{m}[1640\text{ft.}]$	$1.25\text{mm}^2$ [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	$L1+L8, L3+L4, L6, L2+L6+L8, L7$	$\leq 200\text{m}[656\text{ft.}]$	$1.25\text{mm}^2$ [AWG16] or thicker
Max. length from MA to Indoor	$a1+a2, a1+a2+a3+a4$	$\leq 200\text{m}[656\text{ft.}]$	$0.3\text{-}1.25\text{mm}^2$ [AWG22-16]
24VDC to AG-150A	$n$	$\leq 50\text{m}[164\text{ft.}]$	$0.75\text{-}2.0\text{mm}^2$ [AWG18-14]



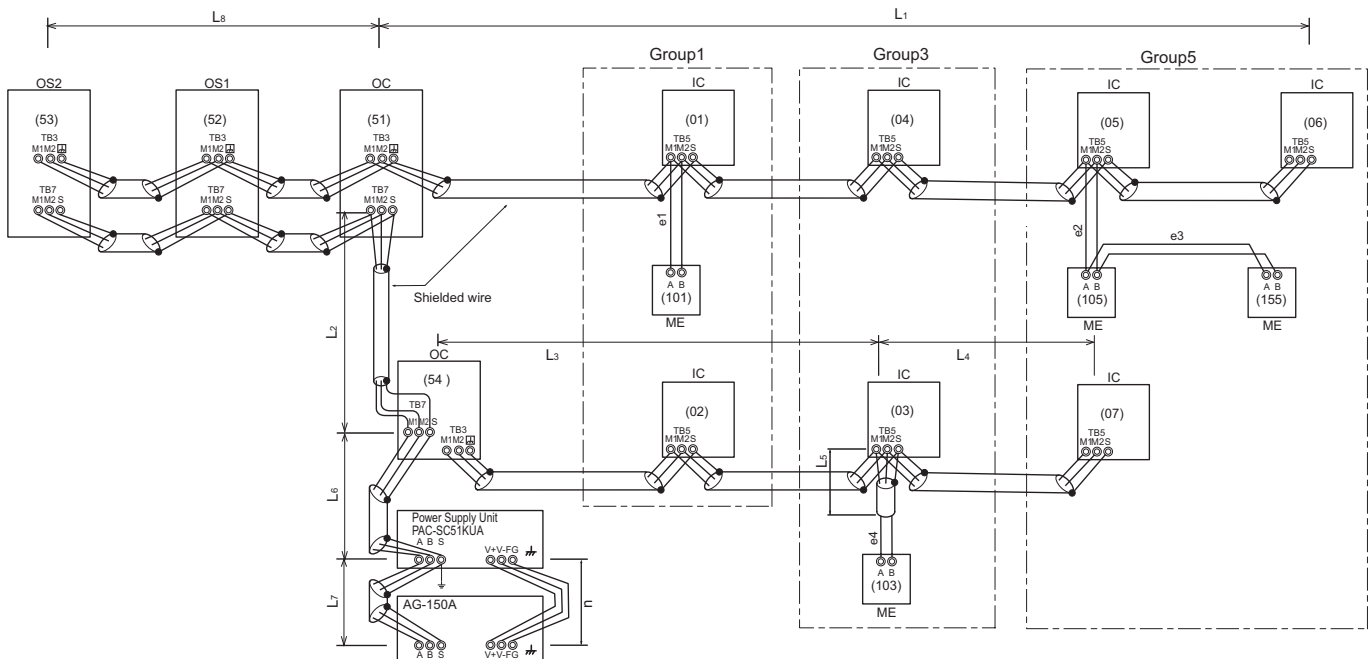
OC, OS1, OS2 : Outdoor unit controller; IC: Indoor unit controller; MA: MA remote controller

### 2-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	$L1+L2+L3+L4, L1+L2+L6+L7, L1+L2+L3+L5, L3+L4+L6+L7$	$\leq 500\text{m}[1640\text{ft.}]$	$1.25\text{mm}^2$ [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	$L1+L8, L3+L4, L6, L2+L6+L8, L7, L3+L5$	$\leq 200\text{m}[656\text{ft.}]$	$1.25\text{mm}^2$ [AWG16] or thicker
Max. length from ME to Indoor	$e1, e2+e3, e4$	$\leq 10\text{m}[32\text{ft.}]^*1$	$0.3\text{-}1.25\text{mm}^2$ [AWG22-16] *1
24VDC to AG-150A	$n$	$\leq 50\text{m}[164\text{ft.}]$	$0.75\text{-}2.0\text{mm}^2$ [AWG18-14]

\*1. If the length from ME to Indoor exceed 10m, use  $1.25\text{mm}^2$  [AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC, OS1, OS2: Outdoor unit controller; IC: Indoor unit controller; ME: ME remote controller

### 2-2. Transmission cable specifications

	Transmission cables (Li)	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 size	More than 1.25mm <sup>2</sup> [AWG16]	0.3 ~ 1.25mm <sup>2</sup> [AWG22~16] (0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1	0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]*2 (0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1
Remarks	—	When 10m [32ft] is exceeded, use cables with the same specification as transmission cables.	Max length : 200m [656ft] *3

\*1 Connected with simple remote controller.

\*2 To wire PAR-31MAA, simple MA remote controller use a wire with a diameter of 0.3 mm<sup>2</sup> [AWG22]

\*3 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable



2-3. System configuration restrictions

2-3-1. Common restrictions for the CITYMULTI 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;  
\*MA/ME remote controllers cannot be present together in 1group.  
\*When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same 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-SC51KUA. 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 P15-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

Indoor, OA unit	Indoor unit	BC controller	MA RC. LOSSNAY	ME Remote Contr.	System Contr.		ON/OFF Contr.	MN Converter		Outdoor unit
Sized P15-P140 GUF-50, 100	Sized P200,P250	CMB	PAR-31MAA PAR-21MAA PAC-YT52CRA PAR-FA32MA LGH-RX-E PZ-60DR-E	PAR-F27MEA PAC-SE51CRA PZ-52SF-E	AG-150A	AT-50A	PAC-YT40ANRA	CMS -MNF-B	CMS -MNG-E	TB7 power consumption
1	7	2	0	1/4	1/2	4	1	1/2	2	0

\*RC : Remote Controller

Table 2-3-2 The equivalent power supply

Transmission Booster	Power supply unit	Expansion controller	BM ADAPTER	System Controller	Outdoor unit	
PAC-SF46EPA	PAC-SC51KUA	PAC-YG50ECA	BAC-HD150	GB-50ADA	Connector TB3 and TB7 total *	Connector TB7 only
25	5	6	6	6	32	6

\*If PAC-SC51KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32. Not applicable to the PUMY model.

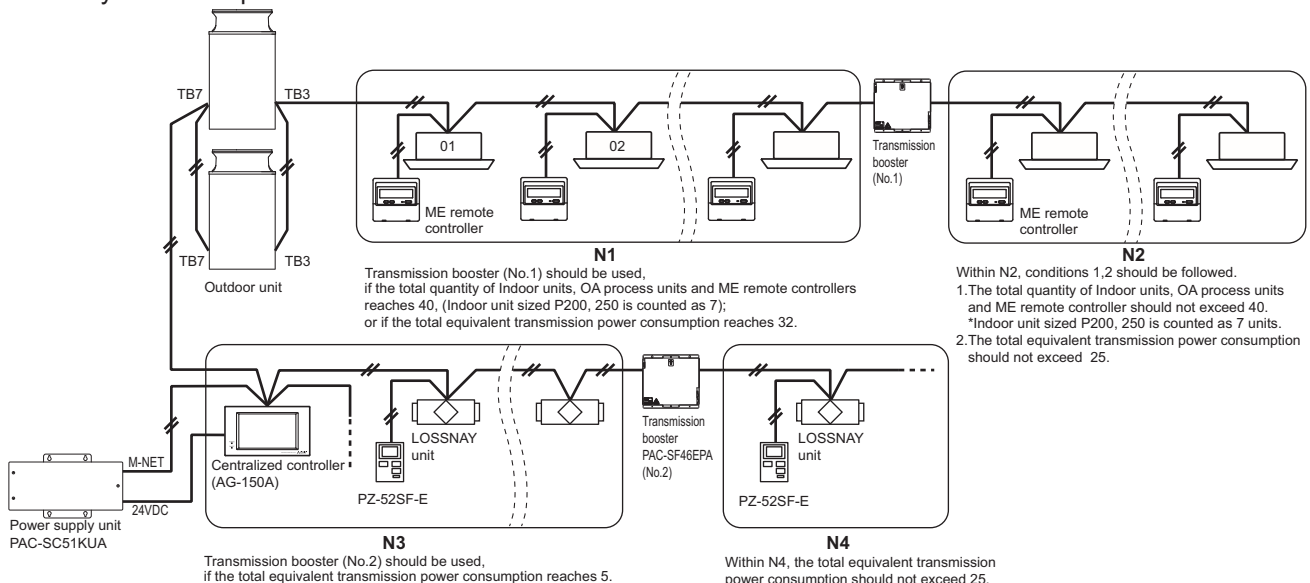
With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA processing units, ME remote controller, 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 7 Indoor units, but MA remote controller(s), LOSSNAY, and PZ-60DR-E are 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-SC51KUA 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



### 2-3-3. Ensuring proper power supply to System controller

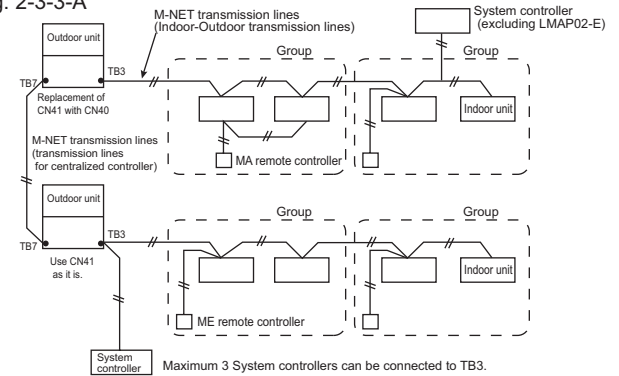
The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

- 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-SC51KUA.

#### 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.

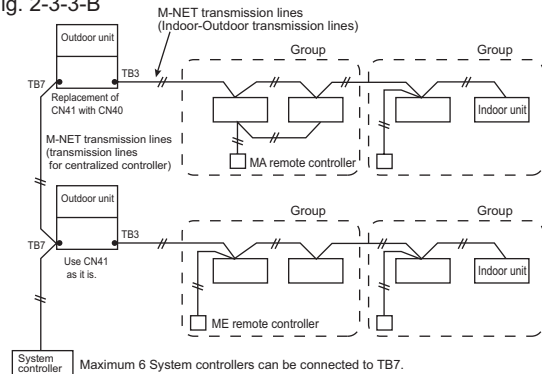
Fig. 2-3-3-A



#### 2-3-3-B. When connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 6 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



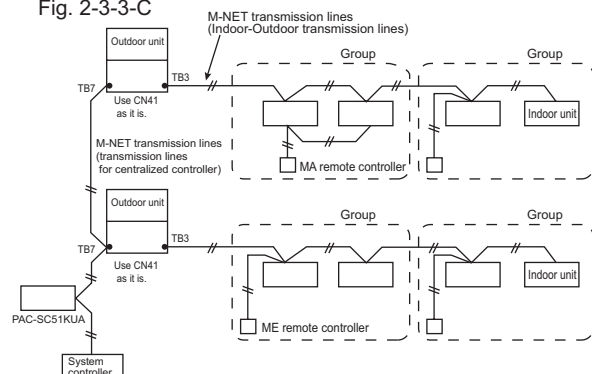
#### 2-3-3-C. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC51KUA.

When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor units should be kept as it is. It is also a factory setting. 1 PAC-SC51KUA supports maximum 1 AG-150A unit due to the limited power 24VDC at its TB3.

However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2-3-2.

If PZ-52SF-E, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-C



### CAUTION

AG-150A\*1 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, AG-150A receiving transmission power through TB7 on one of the Outdoor units would have a risk that the connected Outdoor unit failure would stop power supply to AG-150A, and disrupt the whole system.

When applying apportioned electric power function, AG-150A is necessary to connected to TB7 and has its own power supply unit PAC-SC51KUA.\*2

\*1: AG-150A is an example model of system controllers.

\*2: Power supply unit PAC-SC51KUA is for AG-150A.

### 2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240VAC power supply is needed.

The power supply unit PAC-SC51KUA 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.

### 2-3-5. Power supply to expansion controller

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

The expansion controller supplies power through TB3, which equals 6 indoor units. (refer to Table 2-3-2)

### 2-3-6. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.

Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

### 2-3-7. Power supply to GB-50ADA

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

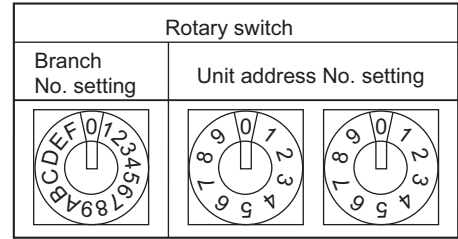
GB-50ADA supplies power through TB3, which equals 6 indoor units. (refer to Table 2-3-2)

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".

PAR-21MAA

The MA remote controller does not have the switches listed above. Refer to the installation manual for the function setting.

PAC-YT52CRA

Setting the dip switches

There are switches on the back of the top case. 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 ON for SW1, 2, and 3 and OFF for SW4.)

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 "ON".
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "OFF".
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 "OFF".
4	Indoor temperature display	Yes	No	When you want to display the indoor temperature, set to "ON".

## 2-4-2. Rule of setting address

Unit	Address setting	Example	Note	
Indoor unit	01 ~ 50		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 (Note1)		The smallest address of indoor unit in same refrigerant system + 50 Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC, OS1 and OS2 are automatically detected. (Note 2) * Please reset one of them to an address between 51 and 99 when two addresses overlap. * The address automatically becomes "100" if it is set as "01~ 50"	
BC controller (Main)	52 ~ 99, 100		The address of outdoor unit + 1 * Please reset one of them to an address between 51 and 99 when two addresses overlap. * The address automatically becomes "100" if it is set as "01~ 50"	
BC controller (Sub)	52 ~ 99, 100		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 	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 	The address of main remote controller + 50 * The address automatically becomes "200" if it is set as "00"
System controller	ON/OFF remote controller	000, 201 ~ 250		The smallest group No. to be managed + 200 * The smallest group No. to be managed is changeable.
	AG-150A GB-50ADA AT-50A	000, 201 ~ 250		
	PAC-YG50ECA	000, 201 ~ 250		* Settings are made on the initial screen of AG-150A.
	BAC-HD150	000, 201 ~ 250		* Settings are made with setting tool of BM ADAPTER.
	LMAP02-E	201 ~ 250	2 Fixed 	

Note1: To set the address to "100", set it to "50"

Note2: Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.

OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.

### 2-4-3. System examples

#### Factory setting

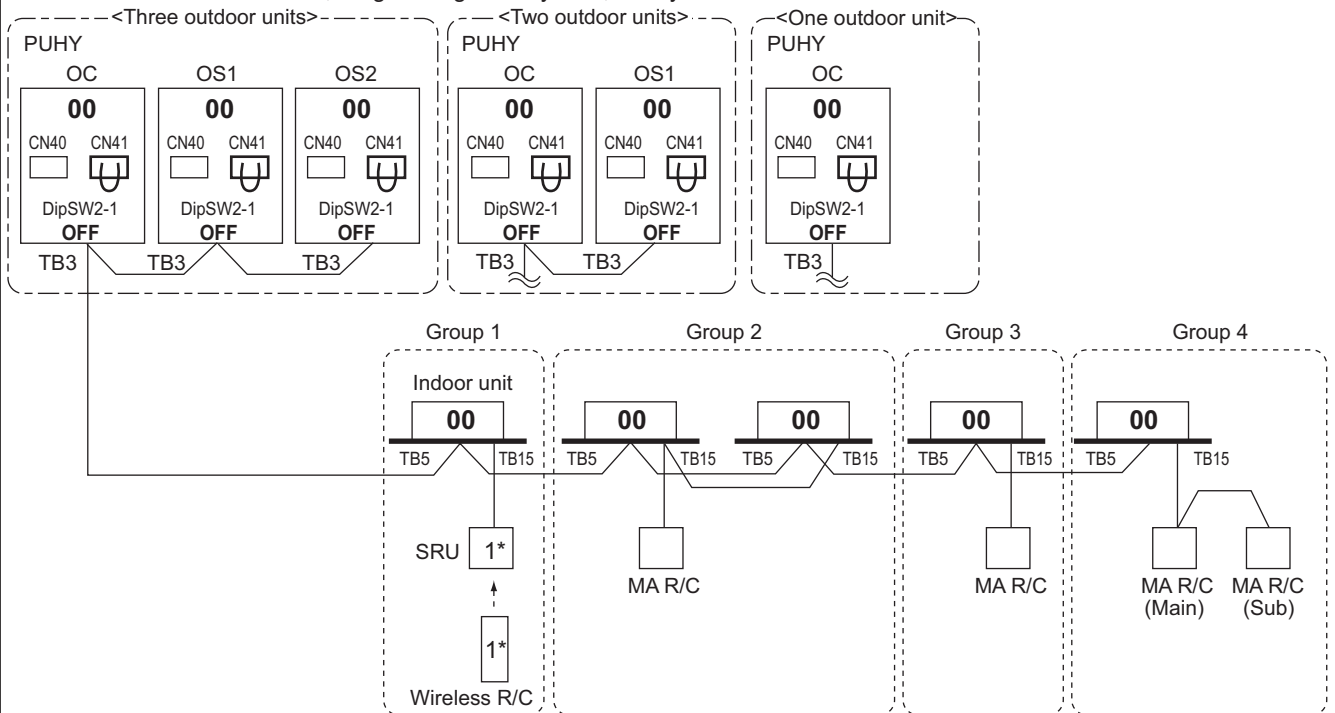
Original switch setting of the outdoors, indoors, controllers, LMAP and BM ADAPTER at shipment is as follows.

- Outdoor unit : Address: 00, CN41: U (Jumper), DipSW2-1: OFF
- Indoor unit : Address: 00
- ME remote controller : Address: 101
- LMAP : Address: 247, CN41: U (Jumper), DipSW1-2: OFF
- BM ADAPTER : Address: 00

#### Setting at the site

- DipSW2-1(Outdoor) : When the System Controller is used, all the Dip SW2-1 at the outdoor units should be set to "ON". \* Dip SW2-1 remains OFF when only LMAP02-E is used.
- DipSW1-2(LMAP) : When the LMAP is used together with System Controller, DipSW1-2 at the LMAP should be set to "ON".
- CN40/CN41 : Change jumper from CN41 to CN 40 at outdoor control board will activate central transmission power supply to TB7;  
(Change jumper at only one outdoor unit when activating the transmission power supply without using a power supply unit.)  
Change jumper from CN41 to CN 40 at LMAP will activate transmission power supply to LMAP itself;  
Power supply unit is recommended to use for a system having more than 1 outdoor unit, because the central transmission power supply from TB7 of one of outdoor units is risking that the outdoor unit failure may let down the whole system controller system.

#### 2-4-3-1. MA remote controller, Single-refrigerant-system, No System Controller

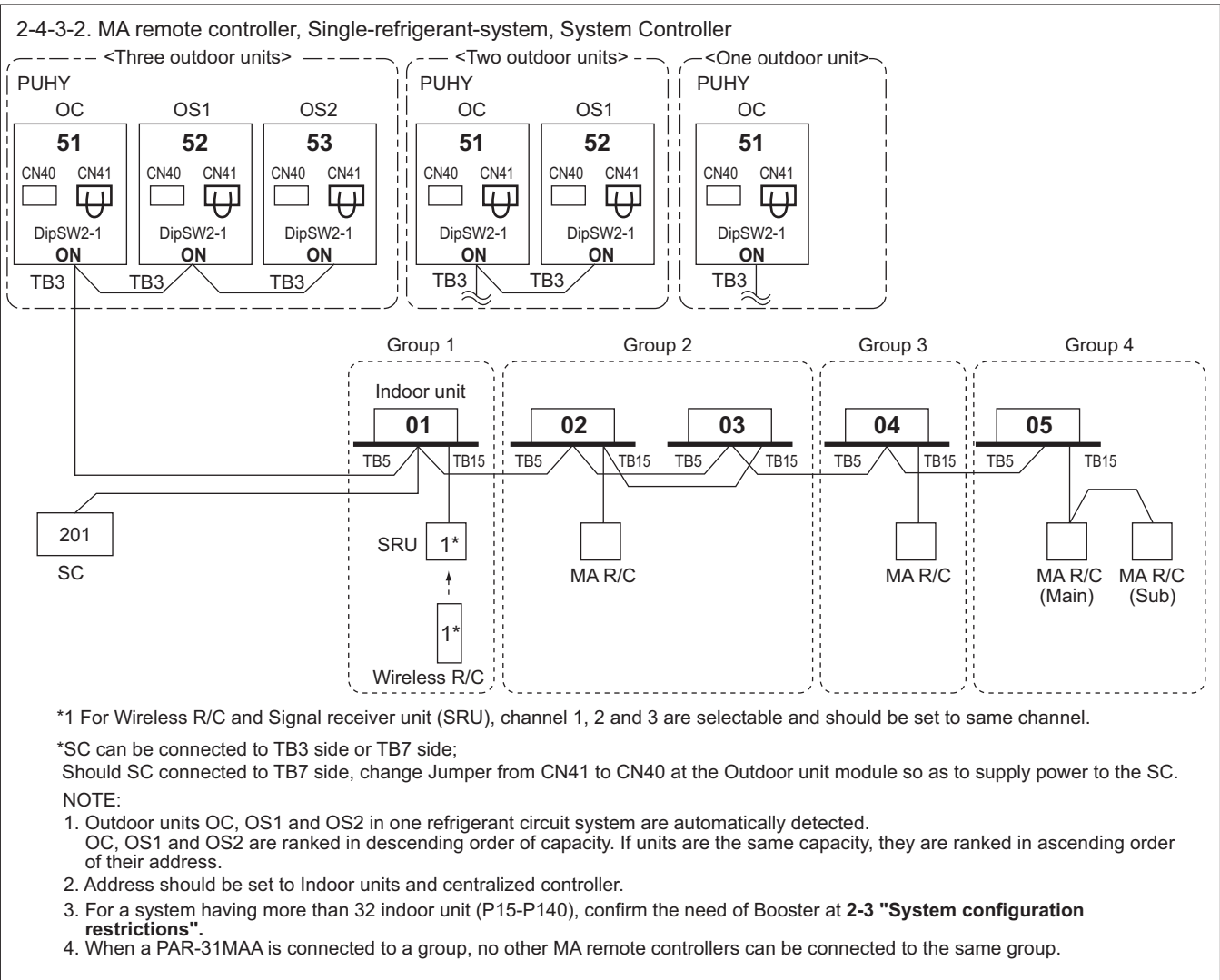


\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

#### NOTE:

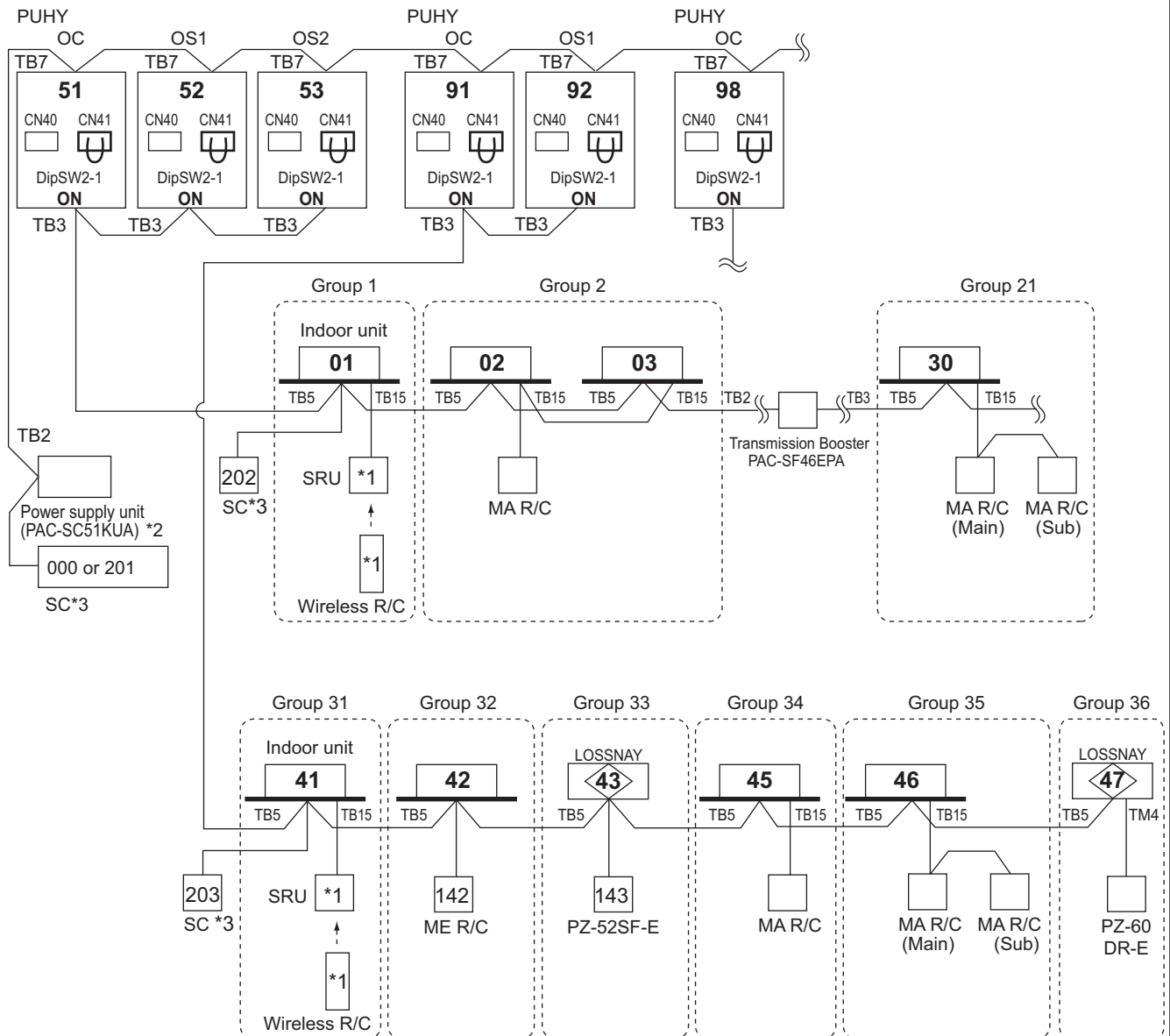
1. Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. No address setting is needed.
3. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".
4. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

## 2-4-3. System examples



## 2-4-3. System examples

2-4-3-3. MA remote controller, Multi-refrigerant-system, System Controller at TB7/TB3 side, Booster for long M-NET wiring



\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*2 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System. For AG-150A, 24V DC should be used with the PAC-SC51KUA.

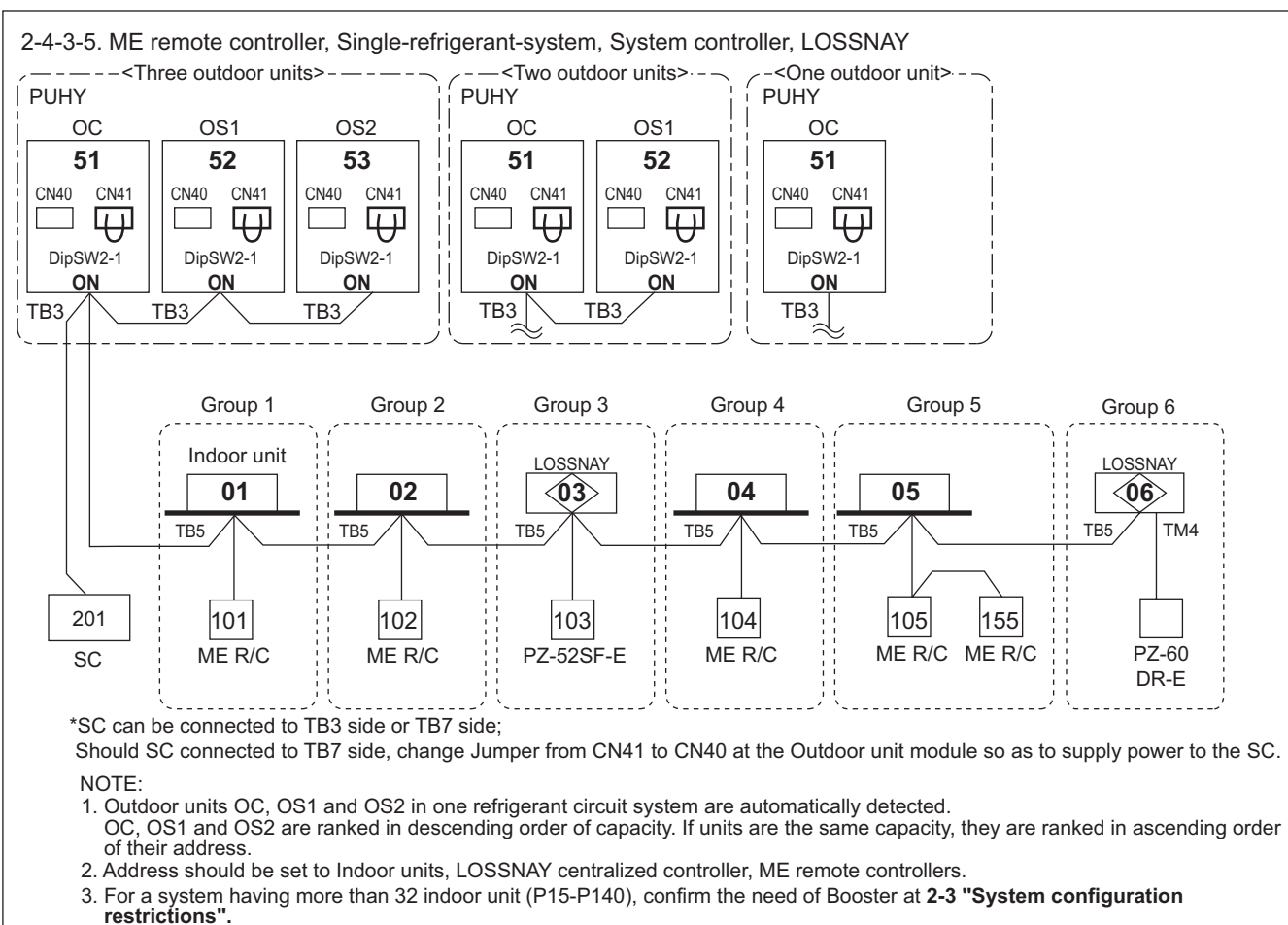
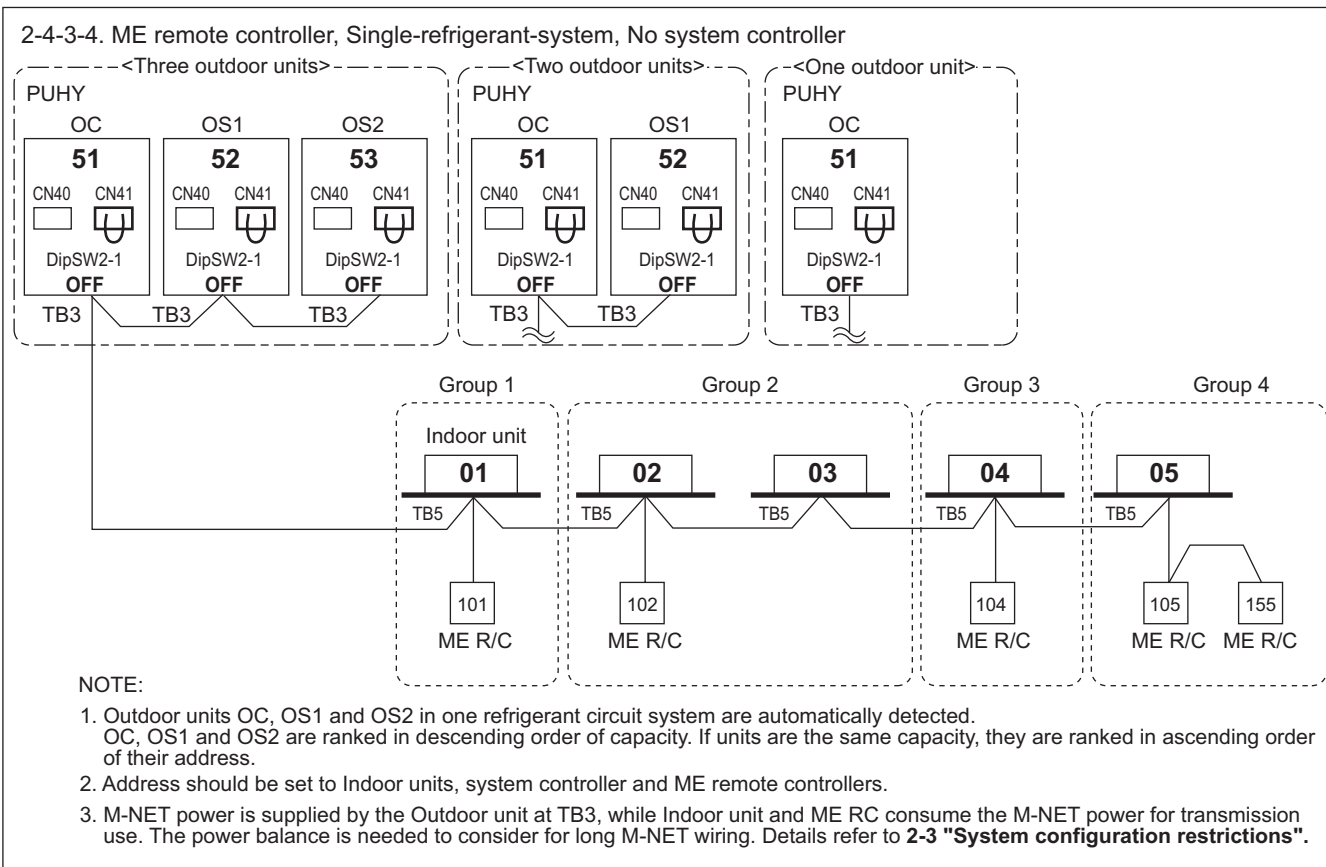
\*3 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".  
AG-150A and GB-50ADA are for exclusive use as a "main" system controller and cannot be used as a "sub" system controller. Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

**NOTE:**

1. Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units, LOSSNAY and system controller.
3. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".
4. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

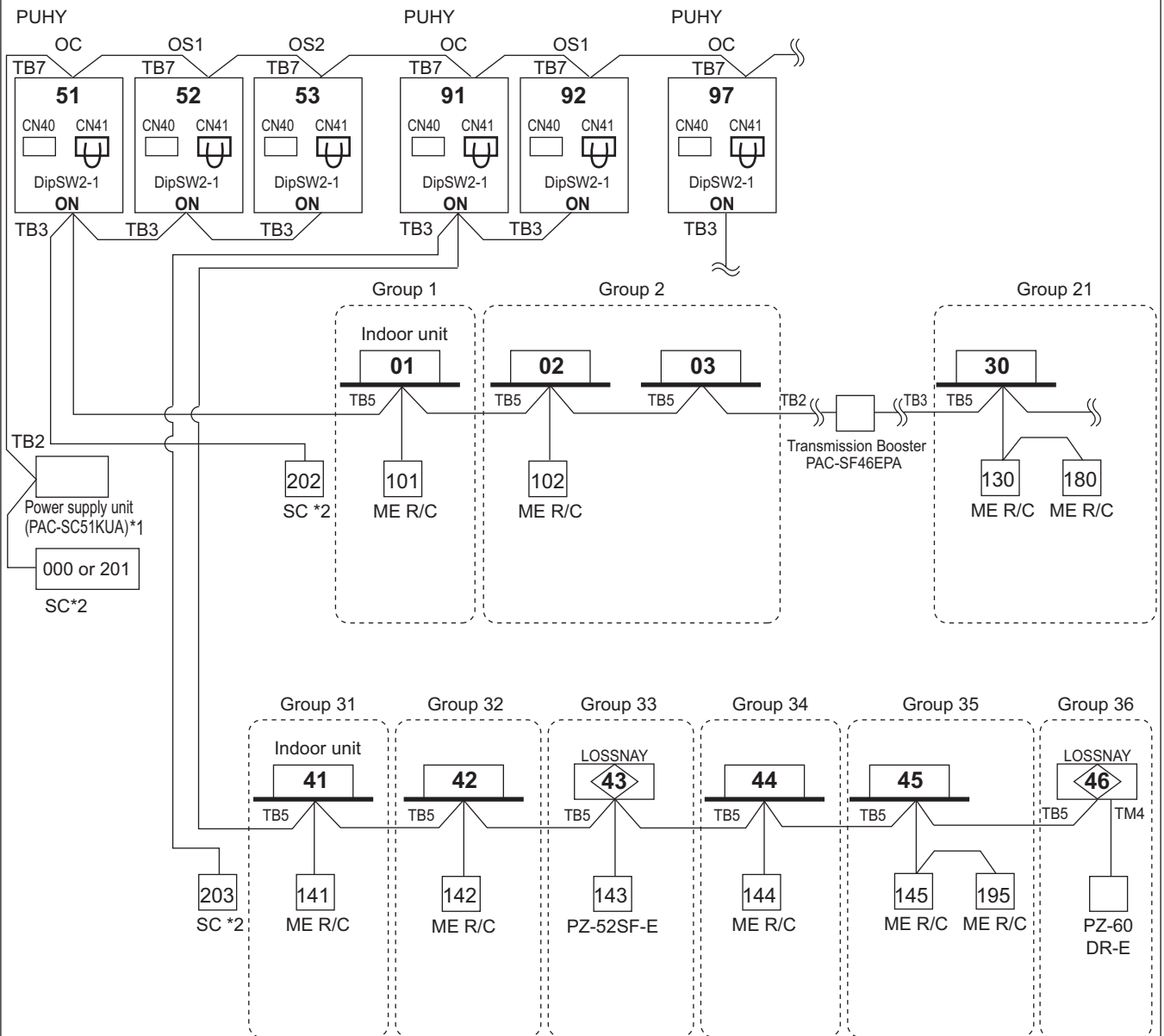


## 2-4-3. System examples



2-4-3. System examples

2-4-3-6. ME remote controller, Multi-refrigerant-system, System Controller at TB 7side, LOSSNAY, Booster for long M-NET wiring



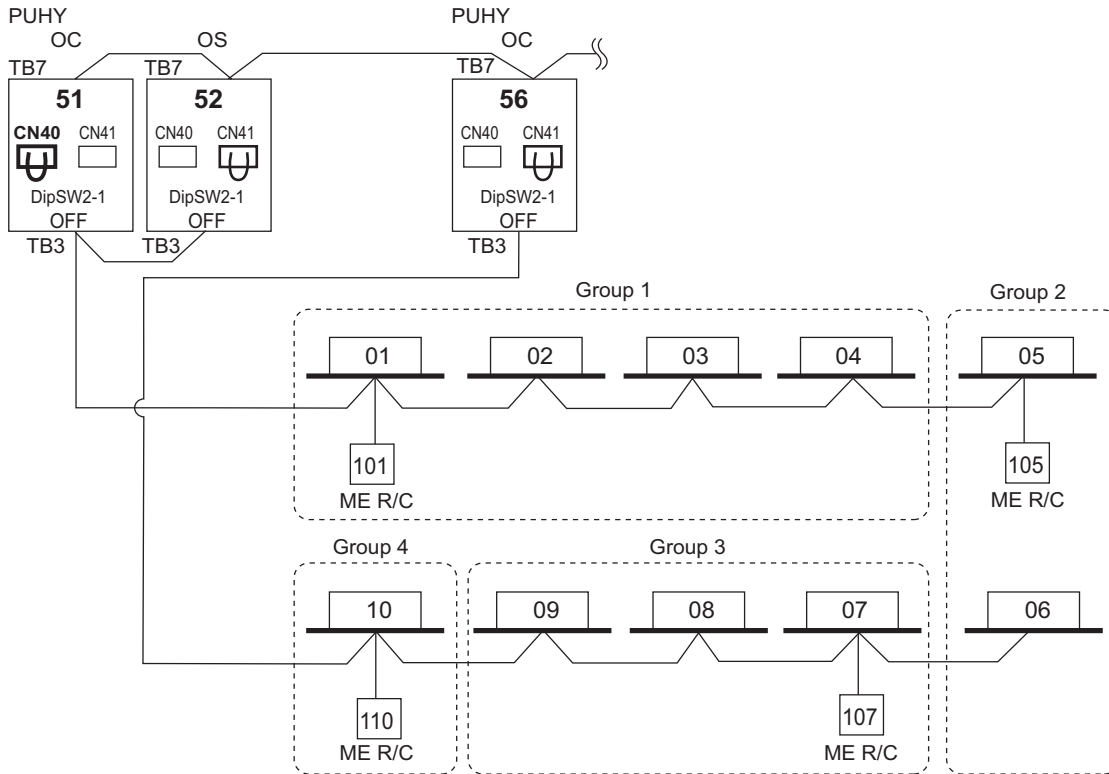
\*1 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System. For AG-150A, 24V DC should be used with the PAC-SC51KUA.

\*2 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub". AG-150A and GB-50ADA are for exclusive use as a "main" system controller and cannot be used as a "sub" system controller. Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

NOTE:

- Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
- M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".

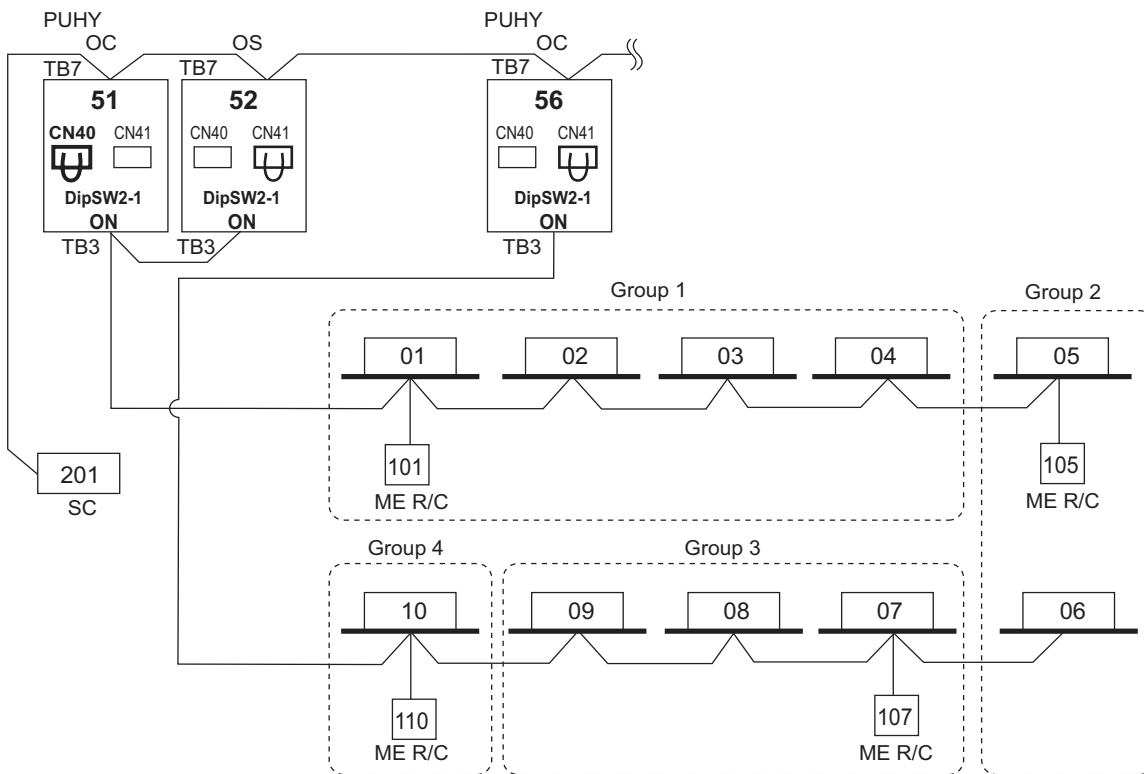
2-4-3-7. ME remote controller, Multi-refrigerant-system, No Power supply unit



**NOTE**

- It is necessary to change the connector to CN40 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.

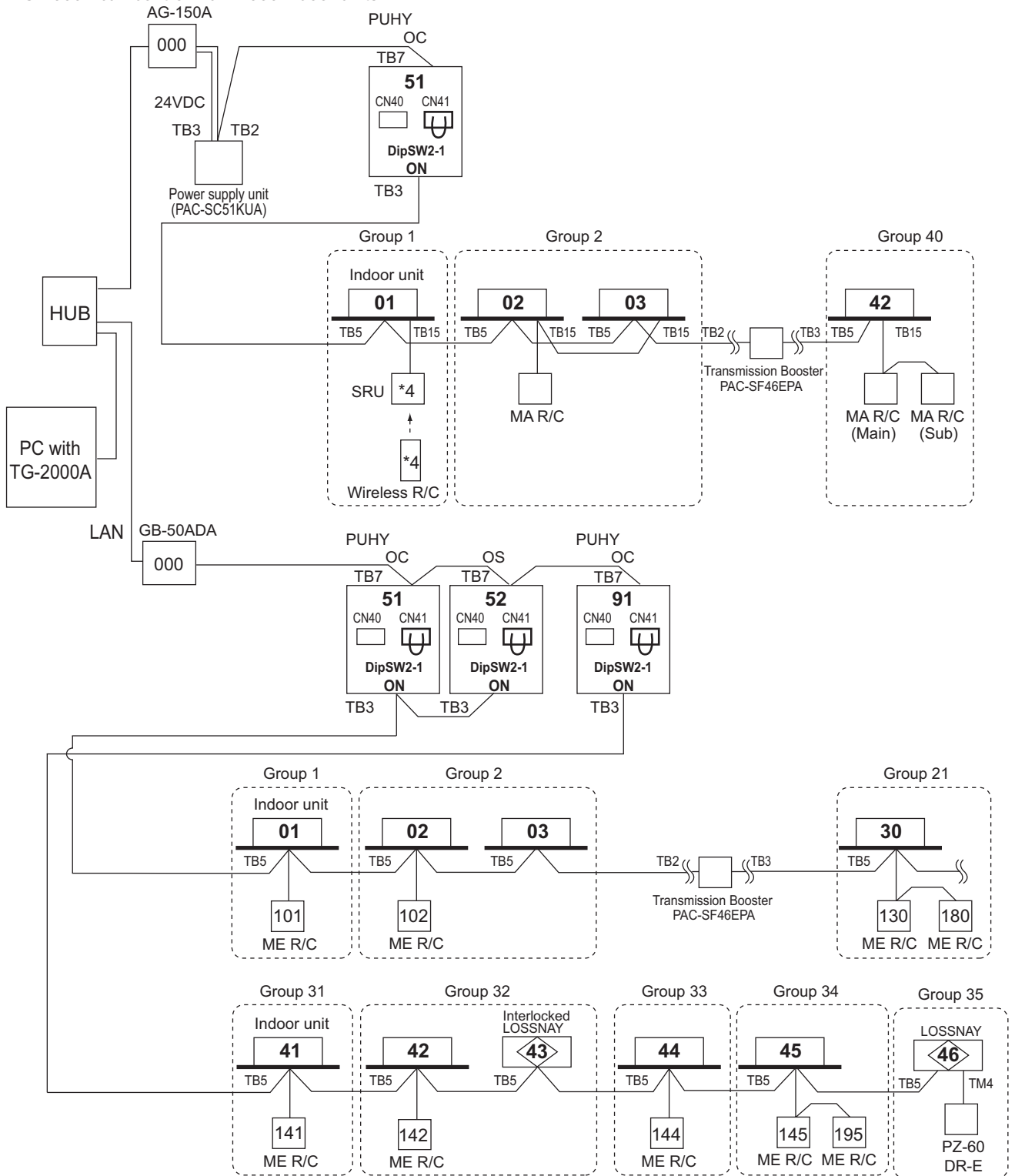
2-4-3-8. ME remote controller, Multi-refrigerant-system, System Controller at TB7 side, No Power supply unit



**NOTE**

- It is necessary to change the connector to CN40 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.

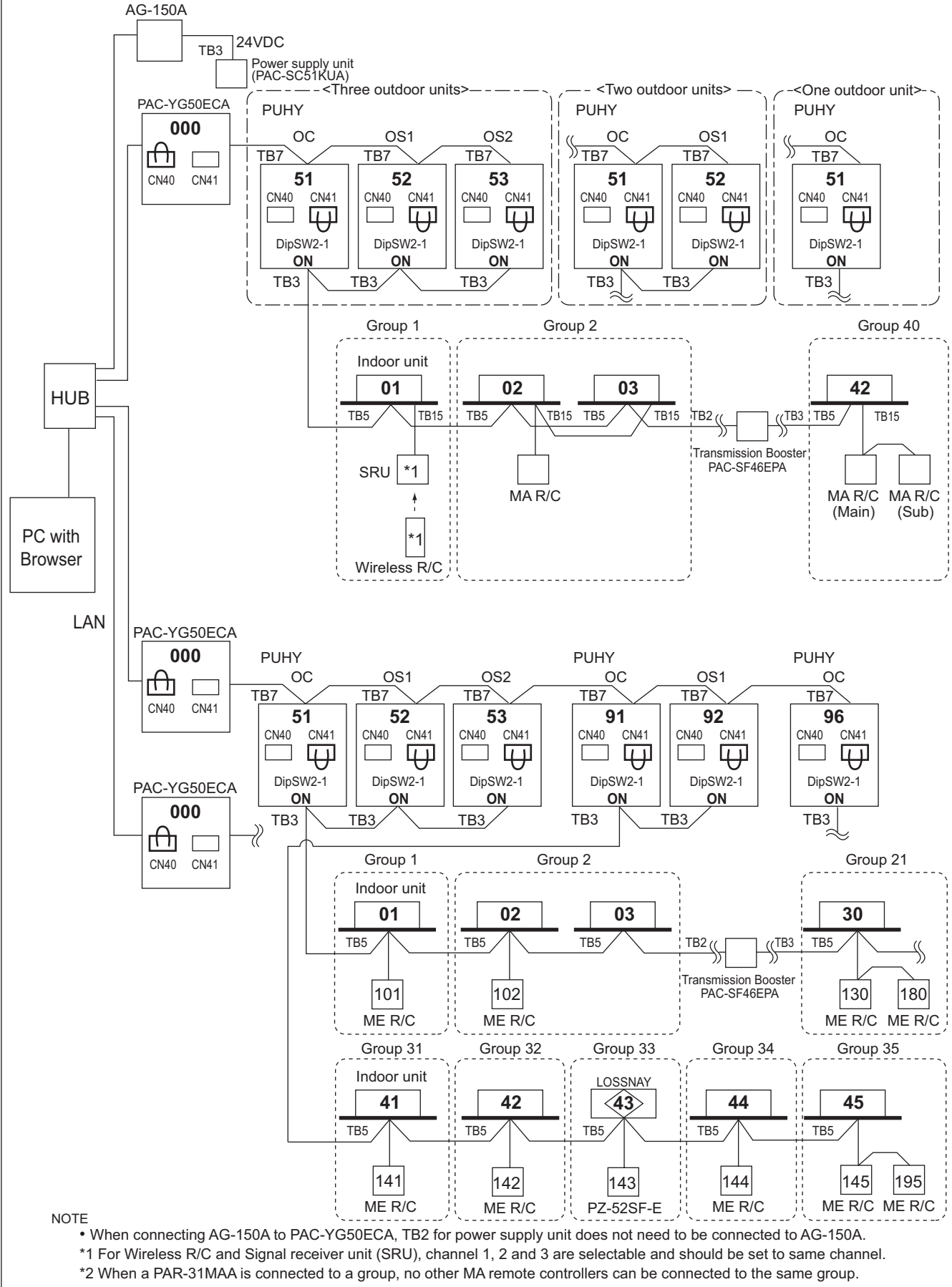
2-4-3-9. TG-2000A(\*1)+AG-150A\*2,GB-50ADA  
 AG-150A can control max. 50 indoor units;  
 GB-50ADA can control max. 50 indoor units;  
 TG-2000A can control max. 40 of AG-150A and GB-50ADA;\*3  
 TG-2000A can control max. 2000 indoor units.



\*1 TG-2000A (Ver.5.5 or later) supports AG-150A (Ver.1 series).  
 TG-2000A (Ver. 6.1 or later) supports AG-150A (Ver. 2.1 or later) connected with the expansion controller (EC).  
 TG-2000A (Ver. 6.3 or later) supports GB-50ADA.  
 \*2 AG-150A (Ver.1 series) does not support the expansion controller (EC).  
 \*3 When AG-150A connected with the expansion controller (EC) is connected, the number of EC will be the maximum controllable number.  
 TG-2000A can control up to 40 EC or AG-150A without EC connection.  
 \*4 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.  
 \*5 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

## 2-4-3. System examples

2-4-3-10. AG-150A + PAC-YG50ECA (Expansion controller)  
 AG-150A can control max. 150 indoor units/ via expansion controllers.

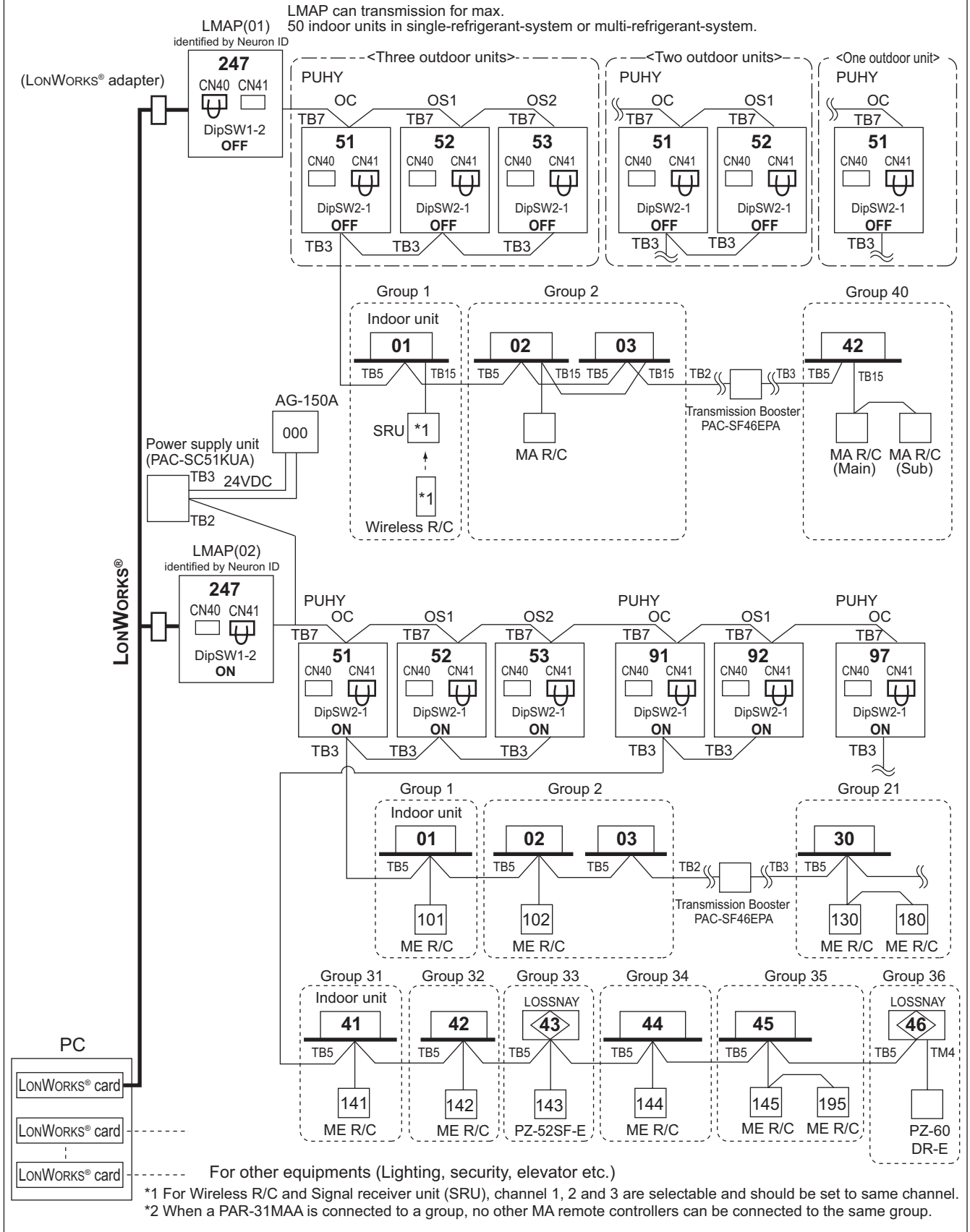


2-4-3. System examples

2-4-3-11. LMAP

LMAP can transmission for max. 50 indoor units;  
 If system controller (SC) is used, DipSW1-2 at LMAP and DipSW2-1 at Outdoor unit should set to "ON".  
 Change Jumper from CN41 to CN40 to activate power supply to LMAP itself for those LMAP connected without system controller (SC).

LMAP can transmission for max. 50 indoor units in single-refrigerant-system or multi-refrigerant-system.

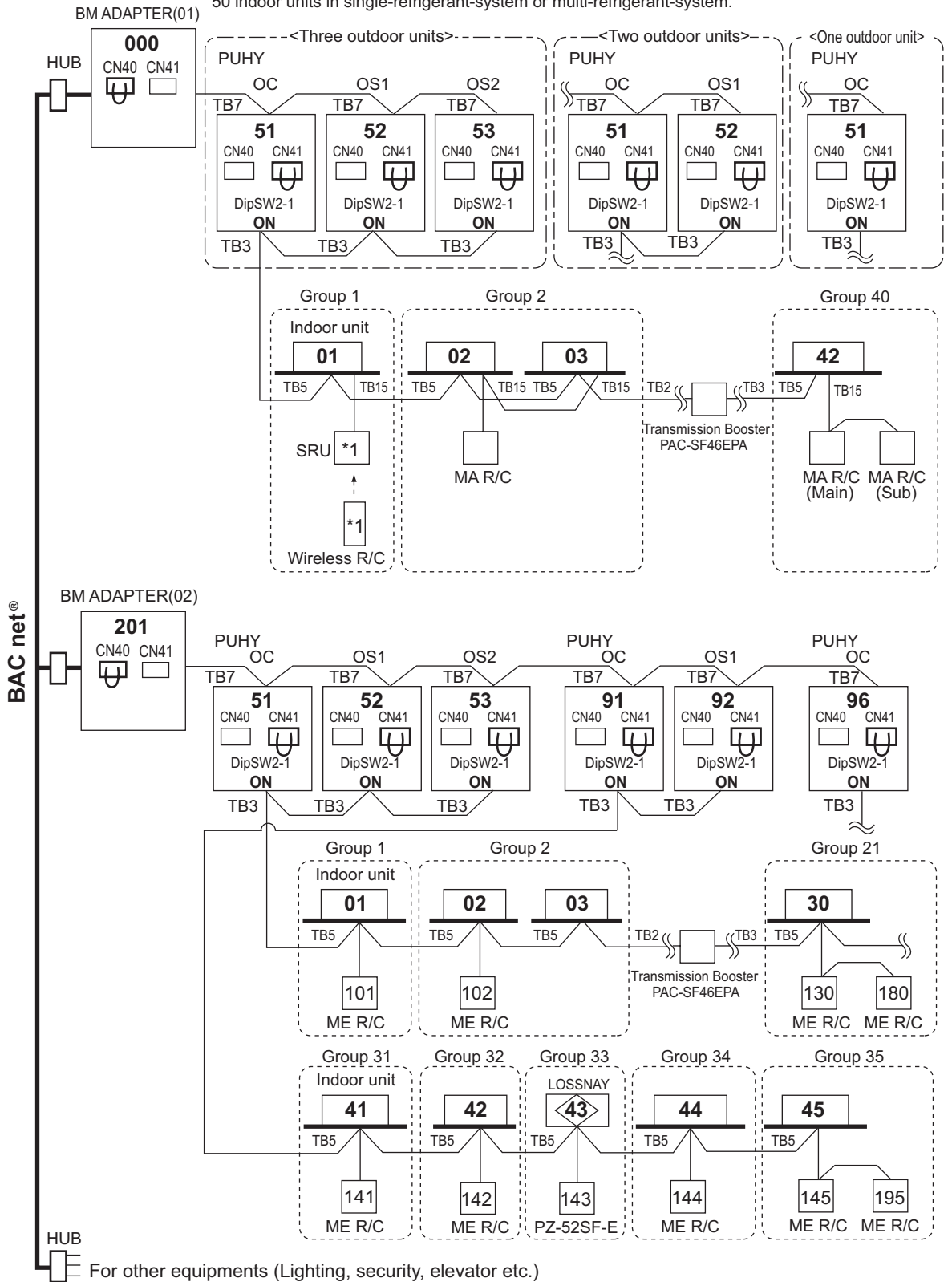


2-4-3. System examples

2-4-3-12. BM ADAPTER

BM ADAPTER can transmission for max. 50 indoor units;  
 Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.

BM ADAPTER can transmission for max. 50 indoor units in single-refrigerant-system or multi-refrigerant-system.

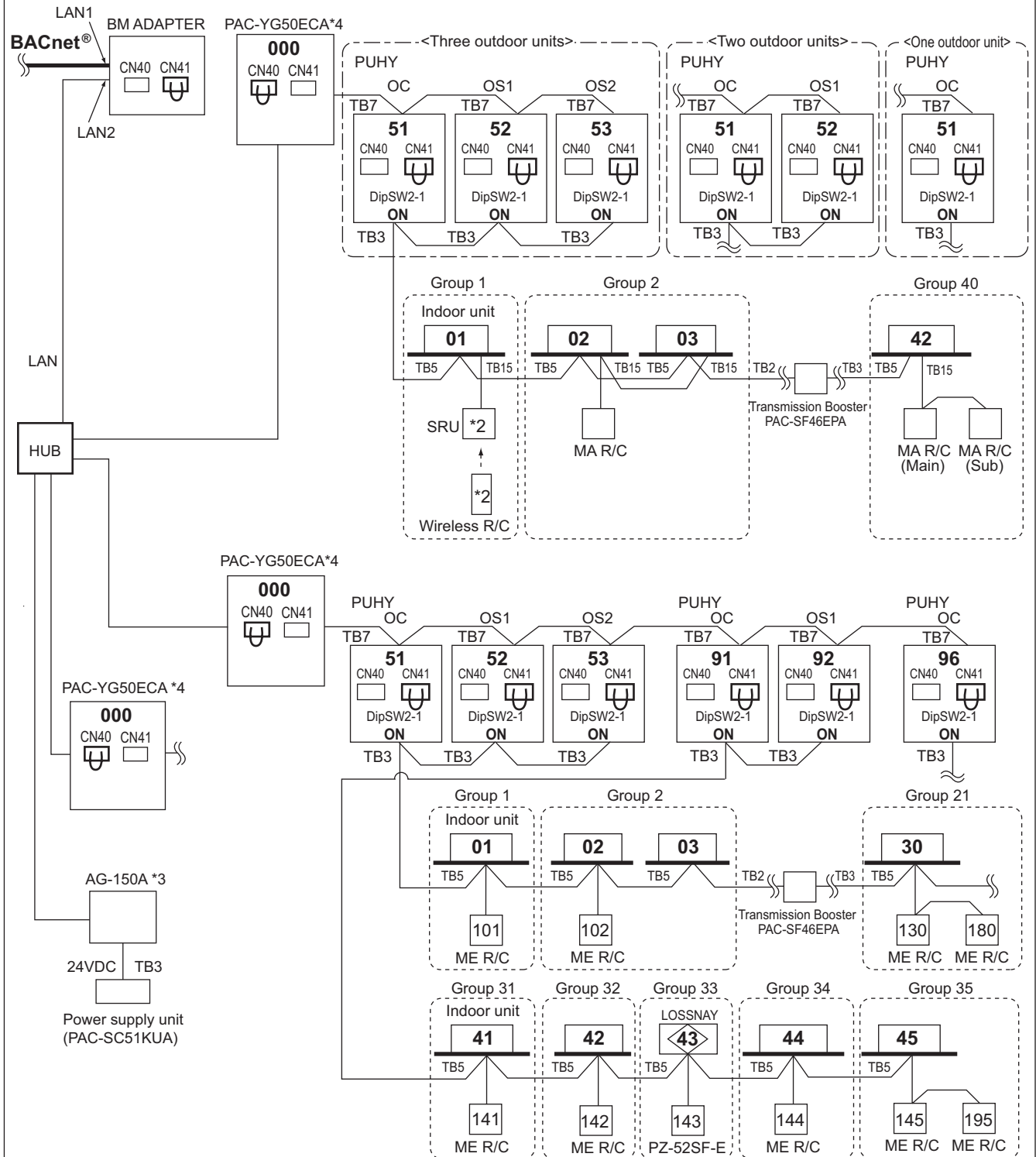


\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.  
 \*2 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3. System examples

2-4-3-13. BM ADAPTER+PAC-YG50ECA (Expansion controller)

BM ADAPTER(\*1) can transmission for max. 150 indoor units/via expansion controllers (PAC-YG50ECA).



NOTE

•It is not necessary to connect the M-NET transmission line to the TB3 on BM ADAPTER. Leave the power jumper of BM ADAPTER connected to CN41.

\*1 BM ADAPTER (Ver.2.00 or later) supports the expansion controller.

\*2 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*3 AG-150A (Ver.2.30 or later) supports the BM ADAPTER.

\*4 PAC-YG50ECA (Ver.1.30 or later) supports the BM ADAPTER.

\*5 Consult your dealer for restrictions when connecting both AG-150A and BM ADAPTER to PAC-YG50ECA.

\*6 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.



#### 3-1. R410A 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 [623psi]. 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.

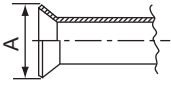
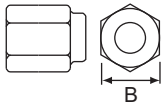
Size (mm)	Size (inch)	Radial thickness (mm)	Radial thickness (mil)	Pipe type
ø6.35	ø1/4"	0.8	[32]	Type-O
ø9.52	ø3/8"	0.8	[32]	Type-O
ø12.7	ø1/2"	0.8	[32]	Type-O
ø15.88	ø5/8"	1.0	[40]	Type-O
ø19.05	ø3/4"	1.2	[48]	Type-O
ø19.05	ø3/4"	1.0	[40]	Type-1/2H or H
ø22.2	ø7/8"	1.0	[40]	Type-1/2H or H
ø25.4	ø1"	1.0	[40]	Type-1/2H or H
ø28.58	ø1-1/8"	1.0	[40]	Type-1/2H or H
ø31.75	ø1-1/4"	1.1	[44]	Type-1/2H or H
ø34.93	ø1-3/8"	1.2	[48]	Type-1/2H or H
ø41.28	ø1-5/8"	1.4	[56]	Type-1/2H or H

\* For pipe sized ø19.05 (3/4") for R410A air conditioner, choice of pipe type is up to you.

\* The figures in the radial thickness column are based on the Japanese standards and provided only as a reference. Use pipes that meet the local standards.

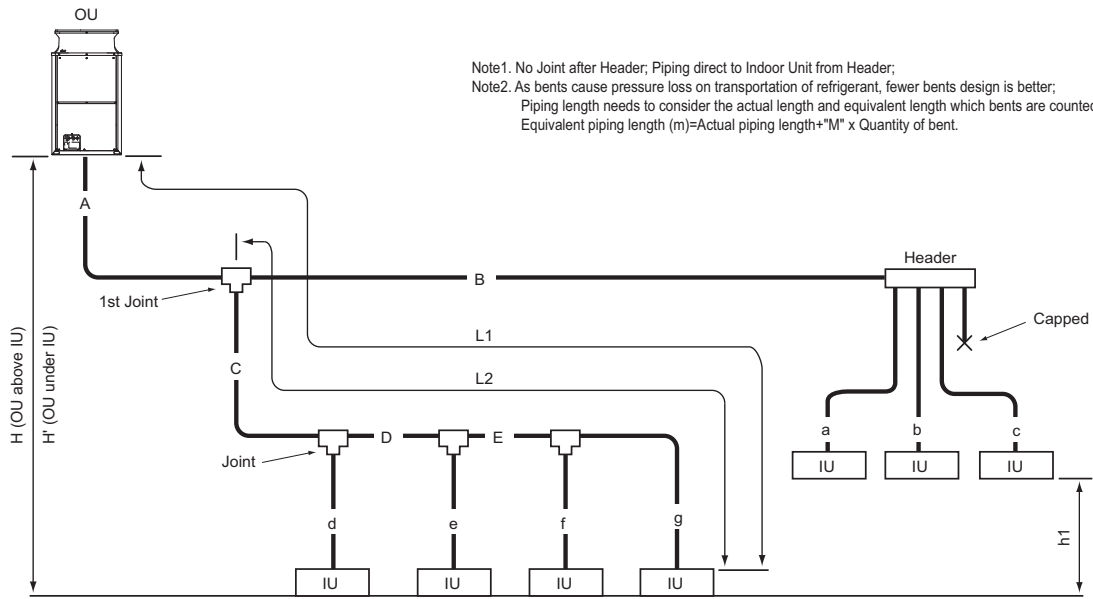
#### Flare

Due to the relative higher operation pressure of R410A compared to R22, the flare connection should follow dimensions mentioned below so as to achieve enough the air-tightness.

Flare pipe	Pipe size	A (For R410A)	(mm[in.])	Flare nut	Pipe size	B (For R410A)	(mm[in.])
	ø6.35 [1/4"]	9.1			ø6.35 [1/4"]	17.0	
	ø9.52 [3/8"]	13.2			ø9.52 [3/8"]	22.0	
	ø12.70 [1/2"]	16.6			ø12.70 [1/2"]	26.0	
	ø15.88 [5/8"]	19.7			ø15.88 [5/8"]	29.0	
	ø19.05 [3/4"]	24.0			ø19.05 [3/4"]	36.0	

## 3-2. Piping Design

### 3-2-1. PUHY-EP200-450YKM-A Piping



Note1. No Joint after Header; Piping direct to Indoor Unit from Header;  
 Note2. 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. 3-2-1A Piping scheme

IU : Indoor unit , OU : Outdoor unit

Piping length		(m [ft.])		Bent equivalent length "M"	
Item	Piping in the figure	Max. length	Max. equivalent length	Outdoor unit model	M (m/bent [ft./bent])
Total piping length	A+B+C+D+E+a+b+c+d+e+f+g	1000 [3280']	-	PUHY-EP200YKM-A	0.42 [1.38]
Farthest IU from OU (L1)	A+C+D+E+g / A+B+c	165 [541']	190 [623']	PUHY-EP250YKM-A	0.42 [1.38]
Farthest IU from first Joint (L2)	C+D+E+g / B+c	40 [131'] *3	40 [131']	PUHY-EP300YKM-A	0.47 [1.54]
Height between OU and IU (OU above IU)	H	50 [164'] *1	-	PUHY-EP350YKM-A	0.47 [1.54]
Height between OU and IU (OU under IU)	H'	40 [131'] *2	-	PUHY-EP400YKM-A	0.50 [1.64]
Height between IU and IU	h1	15 [49'] *4	-	PUHY-EP450YKM-A	0.50 [1.64]

OU: Outdoor Unit, IU: Indoor Unit

\*1 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*2 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*3 90m is available. When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the joint.

\*4 30m is available. When the height difference is 15m or greater, use the one size larger liquid pipe between the indoor unit and the first joint.

Piping "A" size selection rule			(mm [in.])		Joint selection rule	
Outdoor and the first Joint	Pipe(Liquid)	Pipe(Gas)	Total down-stream Indoor capacity	Joint		
PUHY-EP200YKM=CMY-Y102LS-G2,Y102SS-G2	ø9.52 [3/8"]	ø22.20 [7/8"]	~ P200	CMY-Y102SS-G2		
PUHY-EP250YKM=CMY-Y102LS-G2	ø9.52 [3/8"] *1	ø22.20 [7/8"]	P201 ~ P400	CMY-Y102LS-G2		
PUHY-EP300YKM=CMY-Y102LS-G2	ø9.52 [3/8"] *2	ø28.58 [1-1/8"]	P401 ~ P650	CMY-Y202S-G2		
PUHY-EP350YKM=CMY-Y102LS-G2	ø12.70 [1/2"]	ø28.58 [1-1/8"]	P651 ~	CMY-Y302S-G2		
PUHY-EP400YKM=CMY-Y202S-G2	ø12.70 [1/2"]	ø28.58 [1-1/8"]	*PUHY-EP450YKM's first Joint is always CMY-Y202S-G2;			
PUHY-EP450YKM=CMY-Y202S-G2	ø15.88 [5/8"]	ø28.58 [1-1/8"]	*Concerning detailed usage of Joint parts, refer to its Installation Manual.			

\*1. L1>=90m [295ft.], ø12.70mm [1/2in.]; L1<90m [295ft.], ø9.52mm [3/8in.]

\*2. L1>=40m [131ft.], ø12.70mm [1/2in.]; L1<40m [131ft.], ø9.52mm [3/8in.]

Piping "B", "C", "D", "E" size selection rule			(mm [in.])		Header selection rule		
Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)	4-branch Header	8-branch Header	10-branch Header		
~ P140	ø9.52 [3/8"]	ø15.88 [5/8"]	CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G		
P141 ~ P200	ø9.52 [3/8"]	ø19.05 [3/4"]	Total down-stream Indoor capacity	<=P200	<=P400	<=P650	
P201 ~ P300	ø9.52 [3/8"]	ø22.20 [7/8"]	* CMY-Y104-G can directly connect PUHY-EP200YKM, but can NOT directly connect PUHY-EP250YKM or above;				
P301 ~ P400	ø12.70 [1/2"]	ø28.58 [1-1/8"]	* CMY-Y108-G can directly connect PUHY-EP200-450YKM, but can NOT directly connect PUHY-EP500YKM or above;				
P401 ~ P650	ø15.88 [5/8"]	ø28.58 [1-1/8"]	* CMY-Y1010-G can directly connect PUHY-EP200-600Y(S)KM;				
P651 ~ P800	ø19.05 [3/4"]	ø34.93 [1-3/8"]	* CMY-Y104-G can NOT connect P200,P250 Indoor, but CMY-Y108, Y1010-G can do;				
P801 ~	ø19.05 [3/4"]	ø41.28 [1-5/8"]	* Concerning detailed usage of Header parts, refer to its Installation Manual.				

Note3. Indoor capacity is described as its model size;  
 For example, PEFY-P32VMA-E, its capacity is P32;  
 Note4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.  
 For example, PEFY-P25VMA-E+PEFY-P32VMA-E: Total Indoor capacity=P25+P32=P57  
 Note5. Piping sized 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

Piping "a","b","c","d","e","f","g" size selection rule			(mm [in.])	
Indoor Unit size	Pipe(Liquid)	Pipe(Gas)		
P20,P25,P32,P40,P50,GUF-50RD(H)	ø6.35 [1/4"]	ø12.70 [1/2"]		
P63,P71,P80,P100,P125,P140,GUF-100RD(H)	ø9.52 [3/8"]	ø15.88 [5/8"]		
P200	ø9.52 [3/8"]	ø19.05 [3/4"]		
P250	ø9.52 [3/8"]	ø22.20 [7/8"]		

## 3-2-2. PUHY-EP400-600YSKM-A Piping

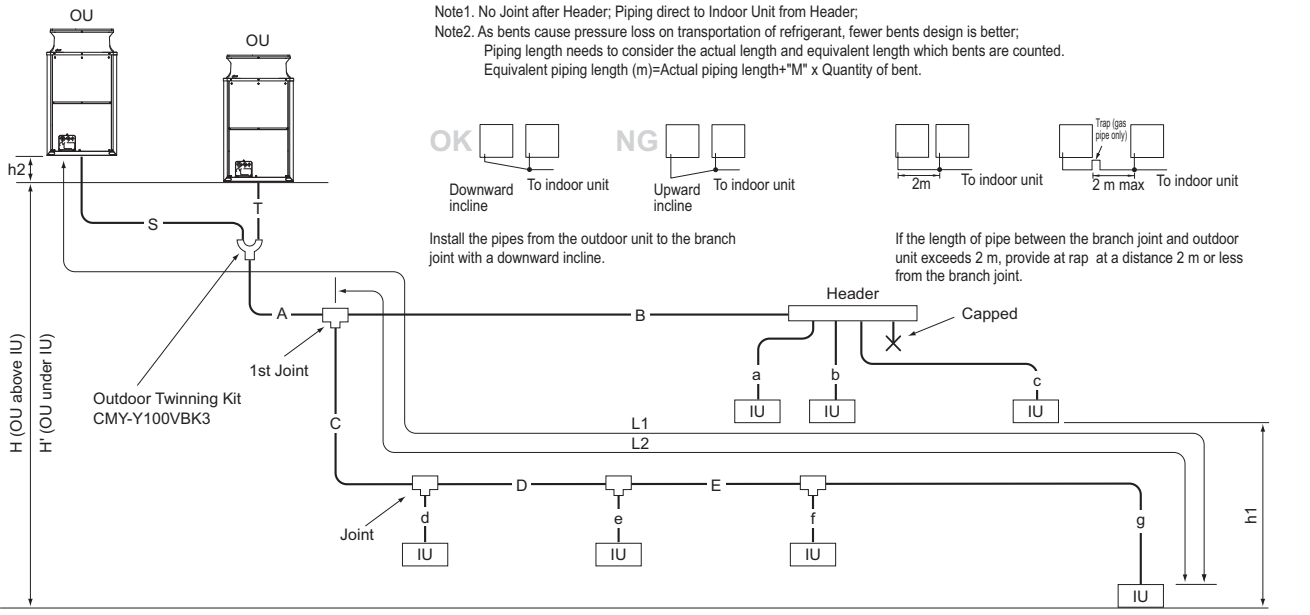


Fig. 3-2-1B Piping scheme

Piping length		(m [ft.])		Bent equivalent length "M"	
Item	Piping in the figure	Max. length	Max. equivalent length	Outdoor unit model	M (m/bent [ft./bent])
Total piping length	S+T+A+B+C+D+E+a+b+c+d+e+f+g	1000 [3280']	-	PUHY-EP400YSKM-A	0.50 [1.64]
Distance between OU and OU	S+T	10[32']	-	PUHY-EP450YSKM-A	0.50 [1.64]
Height between OU and OU	h2	0.1[0.3']	-	PUHY-EP500YSKM-A	0.50 [1.64]
Farthest IU from OU (L1)	S(T)+A+C+D+E+g / S(T)+A+B+c	165 [541']	190 [623']	PUHY-EP550YSKM-A	0.50 [1.64]
Farthest IU from the first Joint (L2)	C+D+E+g / B+c	40 [131'] *3	40 [131']	PUHY-EP600YSKM-A	0.50 [1.64]
Height between OU and IU (OU above IU)	H	50 [164'] *1	-		
Height between OU and IU (OU under IU)	H'	40 [131'] *2	-		
Height between IU and IU	h1	15 [49'] *4	-		

OU: Outdoor Unit, IU: Indoor Unit

- \*1 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
- \*2 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
- \*3 90m is available. When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the joint.
- \*4 30m is available. When the height difference is 15m or greater, use the one size larger liquid pipe between the indoor unit and the first joint.

Piping "A" size selection rule		(mm [in.])	
Outdoor and the first Joint	Pipe(Liquid)	Pipe(Gas)	Joint selection rule
CMY-Y100VBK3=CMY-Y202S-G2	ø12.70 [1/2"]	ø28.58 [1-1/8"]*1	Total down-stream Indoor capacity ~ P200
	ø15.88 [5/8"]	ø28.58 [1-1/8"]*2	P201 ~ P400

CMY-Y100VBK3; \*1 PUHY-EP400YSKM; \*2 EP450-600YSKM  
 For Piping size "S", "T", please refer to specification of the Twinning kit CMY-Y100VBK3 at the Outdoor unit's external drawing.

P401 ~ P650	CMY-Y202S-G2
P651 ~	CMY-Y302S-G2

- \*PUHY-EP450-600YSKM's first Joint is always CMY-Y202S-G2;
- \*Concerning detailed usage of Joint parts, refer to its Installation Manual.
- \*The total capacity of the units in the downstream of the branch joint on at least one of the piping lines that are connected to the branch joint should be 650 or below.
- If the total capacity of the units in the downstream of the branch joints on both lines is 650 or above use two branch joints (CMY-Y302S-G2).

Piping "B", "C", "D", "E" size selection rule		(mm [in.])	
Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)	Header selection rule
~ P140	ø9.52 [3/8"]	ø15.88 [5/8"]	4-branch Header
P141 ~ P200	ø9.52 [3/8"]	ø19.05 [3/4"]	8-branch Header
P201 ~ P300	ø9.52 [3/8"]	ø22.20 [7/8"]	10-branch Header
P301 ~ P400	ø12.70 [1/2"]	ø28.58 [1-1/8"]	CMY-Y104-G
P401 ~ P650	ø15.88 [5/8"]	ø28.58 [1-1/8"]	CMY-Y108-G
P651 ~ P800	ø19.05 [3/4"]	ø34.93 [1-3/8"]	CMY-Y1010-G
P801 ~	ø19.05 [3/4"]	ø41.28 [1-5/8"]	

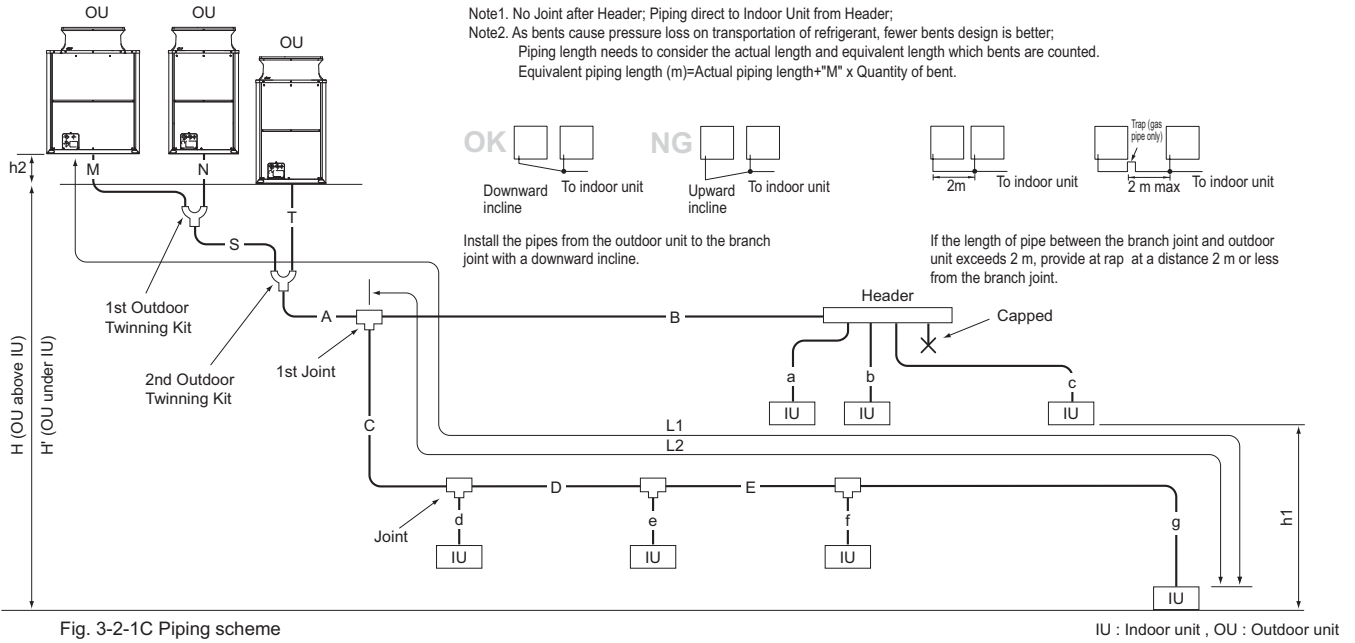
Total down-stream Indoor capacity <=P200	<=P400	<=P650
--	--------	--------

- \* CMY-Y104-G can directly connect PUHY-EP200YSKM, but can NOT directly connect PUHY-EP250YSKM or above;
- \* CMY-Y108-G can directly connect PUHY-EP200-450YSKM, but can NOT directly connect PUHY-EP500YSKM or above;
- \* CMY-Y1010-G can directly connect PUHY-EP200-600YSKM;
- \* 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.

- Note3. Indoor capacity is described as its model size; For example, PEFY-P32VMA-E, its capacity is P32;
- Note4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream. For example, PEFY-P25VMA-E+PEFY-P32VMA-E: Total Indoor capacity=P25+P32=P57
- Note5. Piping sized 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

Piping "a", "b", "c", "d", "e", "f", "g" size selection rule		(mm [in.])	
Indoor Unit size	Pipe(Liquid)	Pipe(Gas)	
P20, P25, P32, P40, P50, GUF-50RD(H)	ø6.35 [1/4"]	ø12.70 [1/2"]	
P63, P71, P80, P100, P125, P140, GUF-100RD(H)	ø9.52 [3/8"]	ø15.88 [5/8"]	
P200	ø9.52 [3/8"]	ø19.05 [3/4"]	
P250	ø9.52 [3/8"]	ø22.20 [7/8"]	

## 3-2-3. PUHY-EP650-900YSKM-A Piping



Piping length	Item	Piping in the figure	(m [ft.])		Bent equivalent length "M"	
			Max. length	Max. equivalent length	Outdoor unit model	M (m/bent [ft./bent])
Total piping length		S+T+M+N+A+B+C+D+E+a+b+c+d+e+f+g	1000[3280]	-	PUHY-EP650YSKM-A	0.50 [1.64]
Distance between OU and OU		M+N+S+T	10[32]	-	PUHY-EP700YSKM-A	0.70 [2.29]
Height between OU and OU		h2	0.1[0.3]	-	PUHY-EP750YSKM-A	0.70 [2.29]
Farthest IU from OU (L1)		M(N)+S+A+C+D+E+g / M(N)+S+A+B+c	165[541]	190[623]	PUHY-EP800YSKM-A	0.70 [2.29]
Farthest IU from the first Joint (L2)		C+D+E+g / B+c	40[131] *3	40[131]	PUHY-EP850YSKM-A	0.80 [2.62]
Height between OU and IU (OU above IU)		H	50[164] *1	-	PUHY-EP900YSKM-A	0.80 [2.62]
Height between OU and IU (OU under IU)		H'	40[131] *2	-		
Height between IU and IU		h1	15[49] *4	-		

OU: Outdoor Unit, IU: Indoor Unit

- \*1 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
- \*2 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
- \*3 90m is available. When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the joint.
- \*4 30m is available. When the height difference is 15m or greater, use the one size larger liquid pipe between the indoor unit and the first joint.

Piping "A" size selection rule	(mm [in.])	
Outdoor and the first Joint	Pipe(Liquid)	Pipe(Gas)
CMY-Y300VBK3=CMY-Y302S-G2	ø15.88[5/8"]	ø28.58[1-1/8"]*1
	ø19.05[3/4"]	ø34.93[1-3/8"]*2
	ø19.05[3/4"]	ø41.28[1-5/8"]*3

For Piping size "M", "N", "S", "T", please refer to specification of the Twining kit CMY-Y300VBK3 at the Outdoor unit's external drawing.

- \*1 PUHY-EP650YSKM
- \*2 PUHY-EP700-800YSKM
- \*3 PUHY-EP850, 900YSKM

Joint selection rule	Joint
Total down-stream Indoor capacity	
~ P200	CMY-Y102SS-G2
P201 ~ P400	CMY-Y102LS-G2
P401 ~ P650	CMY-Y202S-G2
P651 ~	CMY-Y302S-G2

- \*PUHY-EP650YSKM's first Joint is always CMY-Y202S-G2;
- \*PUHY-EP700-900YSKM's first Joint is always CMY-Y302S-G2;
- \*The total capacity of the units in the downstream of the branch joint on at least one of the piping lines that are connected to the branch joint should be 650 or below.
- If the total capacity of the units in the downstream of the branch joints on both lines is 650 or above use two branch joints (CMY-Y302S-G2).
- \*Concerning detailed usage of Joint parts, refer to its Installation Manual.

Piping "B", "C", "D", "E" size selection rule	(mm [in.])	
Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
~ P140	ø9.52 [3/8"]	ø15.88 [5/8"]
P141 ~ P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P201 ~ P300	ø9.52 [3/8"]	ø22.20 [7/8"]
P301 ~ P400	ø12.70 [1/2"]	ø28.58 [1-1/8"]
P401 ~ P650	ø15.88 [5/8"]	ø28.58 [1-1/8"]
P651 ~ P800	ø19.05 [3/4"]	ø34.93 [1-3/8"]
P801 ~	ø19.05 [3/4"]	ø41.28 [1-5/8"]

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 PUHY-EP200YKM, but can NOT directly connect PUHY-EP250YKM or above;
- \* CMY-Y108-G can directly connect PUHY-EP200-450YKM, but can NOT directly connect PUHY-EP500YKM or above;
- \* CMY-Y1010-G can directly connect, PUHY-EP200-600Y(S)KM;
- \* 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.

Piping "a", "b", "c", "d", "e", "f", "g" size selection rule	(mm [in.])	
Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P20, P25, P32, P40, P50, GUF-50RD(H)	ø6.35 [1/4"]	ø12.70 [1/2"]
P63, P71, P80, P100, P125, P140, GUF-100RD(H)	ø9.52 [3/8"]	ø15.88 [5/8"]
P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P250	ø9.52 [3/8"]	ø22.20 [7/8"]

- Note3. Indoor capacity is described as its model size;  
 For example, PEFY-P32VMA-E, its capacity is P32;
- Note4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.  
 For example, PEFY-P25VMA-E+PEFY-P32VMA-E: Total Indoor capacity=P25+P32=P57
- Note5. Piping sized 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

## 3-3. Refrigerant charging calculation

At the time of shipping, the outdoor unit is charged with the refrigerant. As this charge does not include the amount needed for extended piping, additional charging for each refrigerant line will be required on site. In order that future servicing may be properly provided, always keep a record of the size and length of each refrigerant line and the amount of additional charge by writing it in the space provided on the outdoor unit.

### (1) Calculation of additional refrigerant charge

- Calculate the amount of additional charge based on the length of the piping extension and the size of the refrigerant line.
- Use the table to the below as a guide to calculating the amount of additional charging and charge the system accordingly.
- If the calculation results in a fraction of less than 0.1kg[4oz], round up to the next 0.1kg[4oz]. For example, if the result of the calculation was 12.38kg[436.4oz], round the result up to 12.4kg[437oz].

<Additional Charge>

$$\begin{matrix} \text{Additional} \\ \text{refrigerant} \\ \text{charge} \\ \text{(kg)} \end{matrix} = \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 19.05 \text{ [3/4"} \\ \text{(m)} \times 0.29 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 15.88 \text{ [5/8"} \\ \text{(m)} \times 0.20 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 12.7 \text{ [1/2"} \\ \text{(m)} \times 0.12 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 9.52 \text{ [3/8"} \\ \text{(m)} \times 0.06 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 6.35 \text{ [1/4"} \\ \text{(m)} \times 0.024 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Additional charge} \\ \text{Outdoor unit model} & \text{Charged amount} \\ \text{EP250} & 2\text{kg} \\ \text{EP300} & 8\text{kg} \\ \text{EP350} & 8\text{kg} \\ \text{EP400} & 8\text{kg} \\ \text{EP450} & 8\text{kg} \end{matrix} + \alpha$$

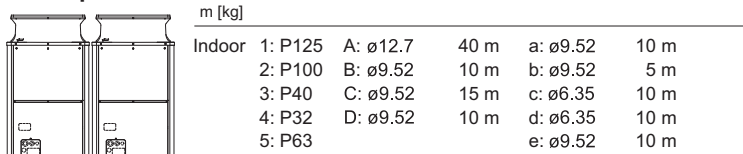
Table3-2-4-1. Value of  $\alpha$

Total capacity of connecting indoor units	$\alpha$
Models ~ 80	2.0 kg
Models 81 ~160	2.5 kg
Models 161 ~330	3.0 kg
Models 331 ~390	3.5 kg
Models 391 ~480	4.5 kg
Models 481 ~630	5.0 kg
Models 631 ~710	6.0 kg
Models 711 ~800	8.0 kg
Models 801 ~890	9.0 kg
Models 891 ~1070	10.0 kg
Models 1071~ 1250	12.0 kg
Models 1251~	14.0 kg

■ Amount of factory charged refrigerant

Outdoor unit model	Charged amount
EP200	9.0kg
EP250	11.5kg
EP300	11.8kg
EP350	11.8kg
EP400	11.8kg
EP450	11.8kg

### Example: PUHY-EP300YKM



The total length of liquid pipe of each size is as follows:  
 $\phi 12.7$  : A = 40 = 40 m  
 $\phi 9.52$  : B + C + D + a + b + e = 10 + 15 + 10 + 10 + 5 + 10 = 60 m  
 $\phi 6.35$  : c + d = 10 + 10 = 20 m

Total capacity of connecting Indoor units Pt :  
 Pt = P125 + P100 + P40 + P32 + P63 = P360, therefore  $\alpha = 3.5\text{kg}$

$$\begin{matrix} \text{m [kg]} \\ \text{Additional} \\ \text{refrigerant} \\ \text{charge} \\ \text{(kg)} \end{matrix} = \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 19.05 \\ \times 0.29 \text{ (kg/m)} \\ \text{0 (m)} \times 0.29 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 15.88 \\ \times 0.20 \text{ (kg/m)} \\ \text{0 (m)} \times 0.20 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 12.7 \\ \times 0.12 \text{ (kg/m)} \\ \text{40 (m)} \times 0.12 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 9.52 \\ \times 0.06 \text{ (kg/m)} \\ \text{60 (m)} \times 0.06 \text{ (kg/m)} \end{matrix} + \begin{matrix} \text{Total length of liquid} \\ \text{pipe sized } \phi 6.35 \\ \times 0.024 \text{ (kg/m)} \\ \text{20 (m)} \times 0.024 \text{ (kg/m)} \end{matrix} + 8 + 3.5$$

$$= 0 + 0 + 40 \times 0.12 + 60 \times 0.06 + 20 \times 0.024 + 8 + 3.5 = 20.4 \text{ kg}$$

### ■ Maximum refrigerant charge

There is a limit to the amount of refrigerant that can be charged into a unit. Regardless of the amount yielded by the formula above, observe the maximum refrigerant charge in the table below.

Total index of the outdoor units	EP200YKM	EP250YKM	EP300YKM	EP350YKM	EP400YKM	EP450YKM	EP400YSKM	EP450YSKM	EP500YSKM	EP550YSKM	EP600YSKM	EP650YSKM	EP700YSKM
Maximum *1 refrigerant charge	32.7kg	41.7kg	49.5kg	50.0kg	50.0kg	56.0kg	54.2kg	58.7kg	66.0kg	101.9kg	109.2kg	107.9kg	115.2kg

Total index of the outdoor units	EP750YSKM	EP800YSKM	EP850YSKM	EP900YSKM
Maximum *1 refrigerant charge	137.1kg	144.6kg	197.9kg	197.9kg

\*1 Maximum refrigerant charge: the amount of factory-charged refrigerant and the amount of refrigerant to be added on site

### 4-1. Requirement on installation site

1. No direct thermal radiation to the unit.
2. No possibility of annoying the neighbors by the sound of the unit.

**Valves and refrigerant flow on the outdoor unit may generate noise.**

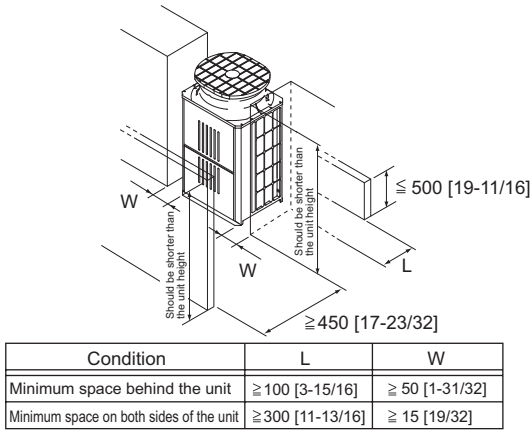
3. Avoid the sites where strong winds blow.
4. With strength to bear the weight of the unit.
5. Drain flow from the unit is cared at heating mode.
6. Enough space for installation and service as shown at 4-2.
7. Avoid the sites where acidic solutions or chemical sprays (sulfur series) are used frequently.
8. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.

## 4-2. Spacing

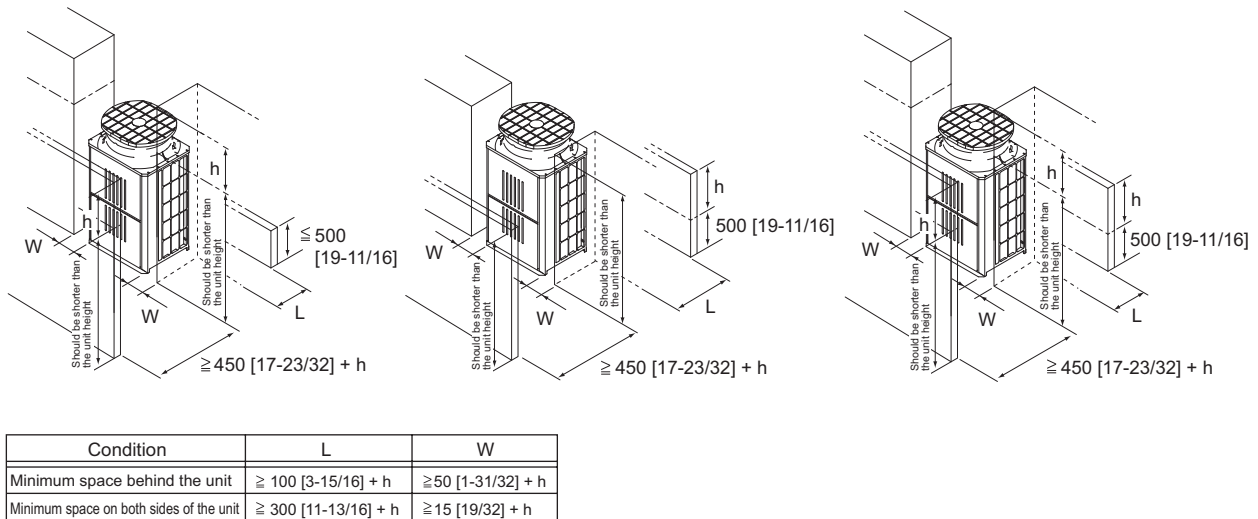
### In case of single installation

- Secure enough space around the unit as shown in the figure.
- If the wall height exceeds the height limit, widen the space labeled "L" and "W" by the amount that exceeds the limit (labeled <math>h</math> in the figure).

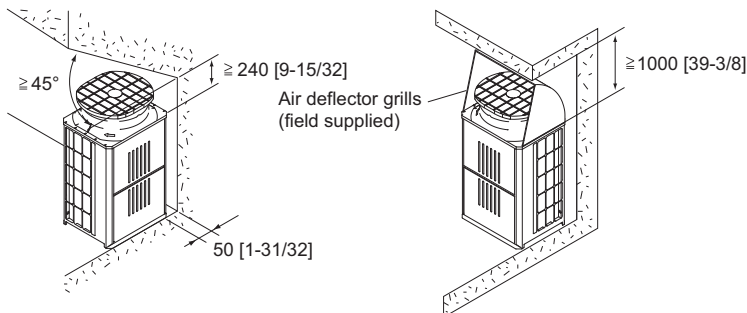
#### (1) Walls are lower than the height limit.



#### (2) If the wall height (H) of the front, rear or side exceeds the wall height restriction



#### (3) If there are obstacles at the upper part of the unit



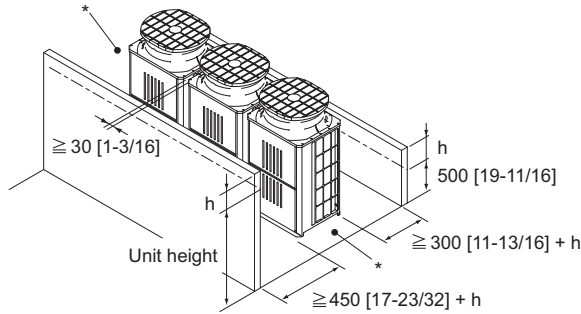
(Unit : mm [in.])

### In case of collective installation and continuous installation

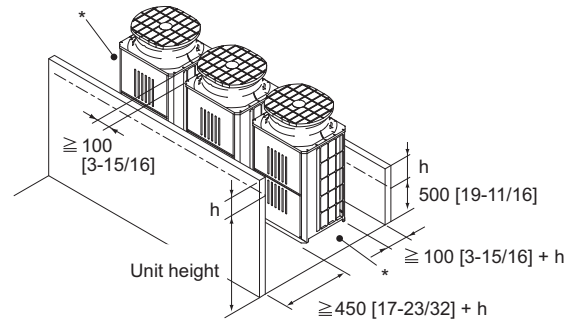
- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and passageways between groups of units as shown in the figures.  
\* Leave both sides of each group of units open.
- As with single installation, if the wall height exceeds the height limit, widen the space in the front and the back of a given group of units by the amount that exceeds the limit (labeled <math>h</math> in the figure).
- If there is a wall at both the front and the rear of the unit, install up to six units (three units: EP300, 350, 400, 450) consecutively in the side direction and provide a space of 1000mm or more as inlet space/passage space for each six units (three units: EP300, 350, 400, 450).

#### (1) Side-by-side installation

<The space on both sides of a given group of units is minimum.>

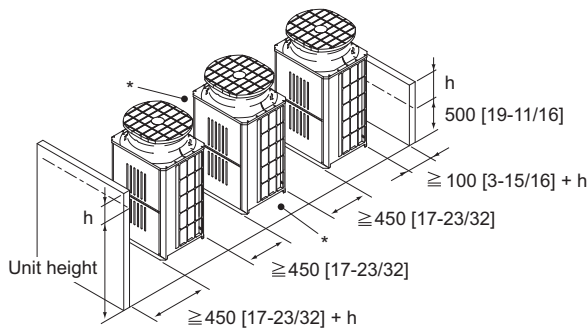


<The space on both sides of a given group of units is minimum.>

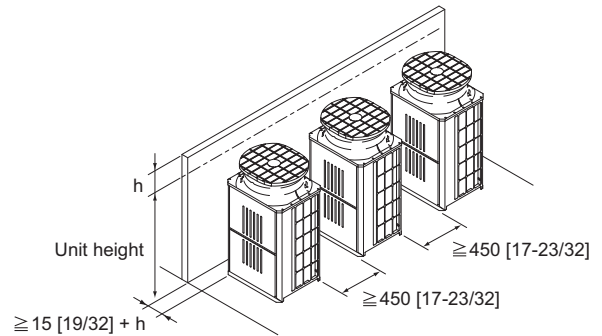


#### (2) Face-to-face installation

<There are walls in the front and the back of a given group of units.>

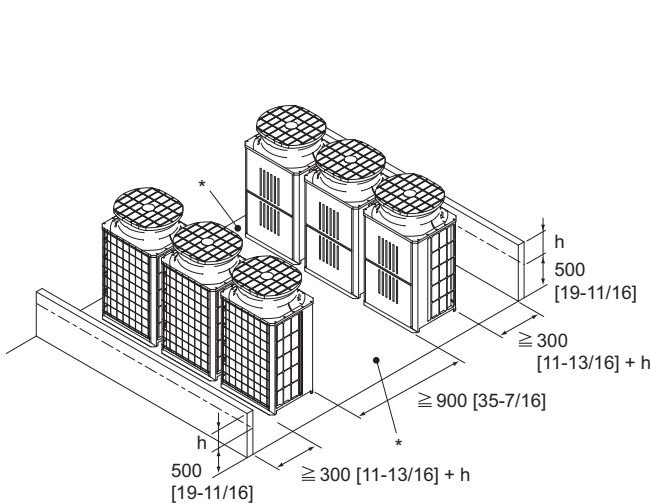


<There is a wall on one side.>

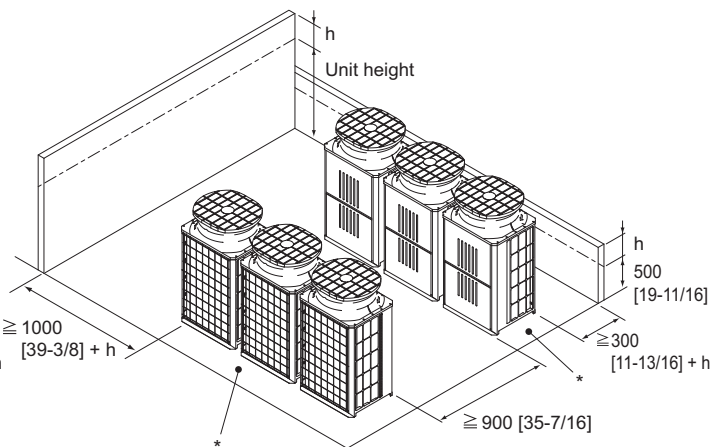


#### (3) Combination of face-to-face and side-by-side installations

<There are walls in the front and the back of a given group of units.>



<There is a wall on one side and either the front or the back of a given group of unit.>



(Unit : mm [in.])

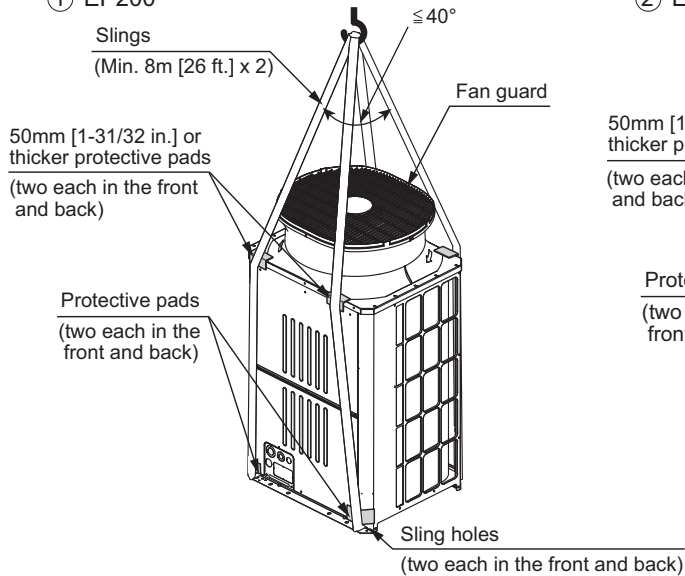


## 4-3. Piping direction

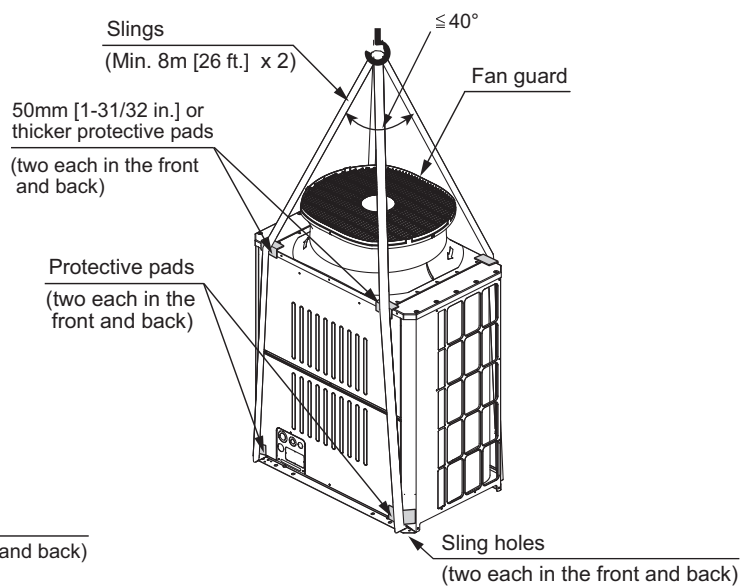
### 4-3-1. Lifting method

- When lifting the unit with ropes, run the ropes under the unit and use the lifting hole.
- Support the unit at four points with two ropes, and avoid giving mechanical shock.
- Suspension rope angle must be  $40^\circ$  or less, so as to avoid compressing fan guard.
- Use two ropes, each at least 8m [26 ft.] in length
- Use ropes strong enough to support the weight of the unit.
- Always suspend the unit from four corners. (It is dangerous to suspend a unit from two corners and must not be attempted.)
- Use protective pads to keep the ropes from scratching the panels on the unit.
- Use a 50mm [1-31/32 in.] or thicker cardboard or cloth as a protective pad on the top of the unit to prevent contact between the fan guard and slings.

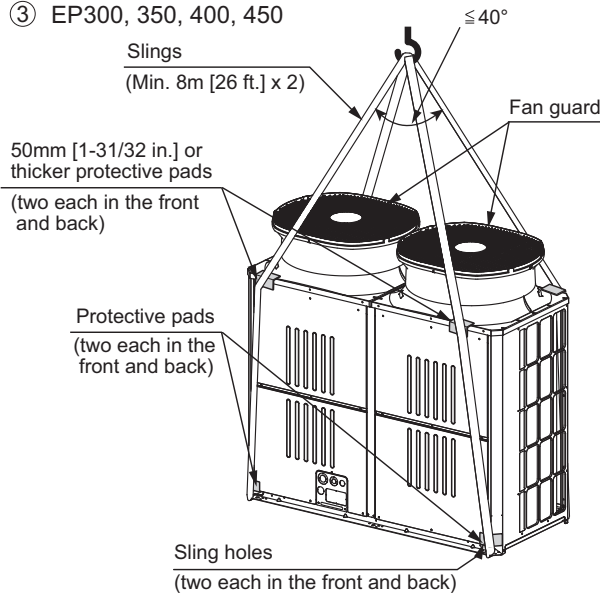
① EP200



② EP250



③ EP300, 350, 400, 450



### ⚠ CAUTION

#### Exercise caution when transporting products.

- Products weighing more than 20 kg [45 LBS] should not be carried alone.
- Do not carry the product by the PP bands.
- To avoid the risk of injury, do not touch the heat exchanger fins.
- Plastic bags may pose a risk of choking hazard to children. Tear plastic bags into pieces before disposing of them.
- When lifting and transporting outdoor units with ropes, run the ropes through lifting hole at the unit base. Securely fix the unit so that the ropes will not slide off, and always lift the unit at four points to prevent the unit from falling.

## 4-3-2. Installation

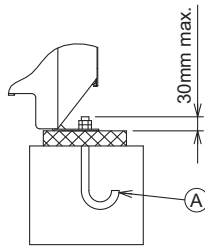
- Secure the unit with anchor bolts as shown in the figure below so that the unit will not topple over with strong wind or during an earthquake.
- Install the unit on a durable base made of such materials as concrete or angle steel.
- Take appropriate anti-vibration measures (e.g., vibration damper pad, vibration isolation base) to keep vibrations and noise from being transmitted from the unit through walls and floors.
- When using a rubber cushion, install it so that the cushion covers the entire width of the unit leg.
- Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure below is securely supported.
- Install the anchor bolt in such a way that the top end of the anchor bolt do not stick out more than 30 mm [1-3/16 in.].
- This unit is not designed to be anchored with post-installation-type anchor bolts, although by adding fixing brackets anchoring with such type of anchor bolts becomes possible.

- (A) : M10 anchor bolt procured at the site.
- (B) : Corner is not seated.
- (C) : Fixing bracket for hole-in anchor bolt (3 locations to fix with screws).
- (D) : Detachable leg

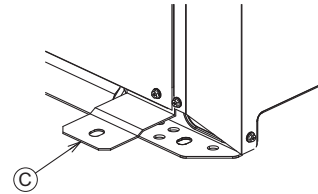
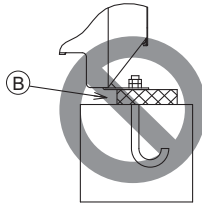
**! WARNING**  
 Properly install the unit on a surface that can withstand the weight of the unit. Unit installed on an unstable surface may fall and cause injury.

**! WARNING**  
 Take appropriate safety measures against strong winds and earthquakes to prevent the unit from falling.

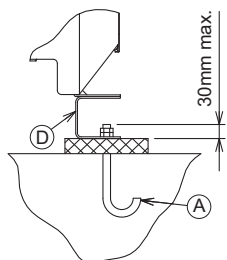
<Without detachable leg>



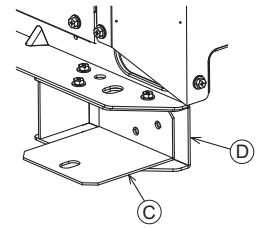
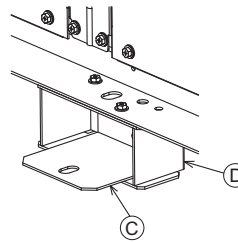
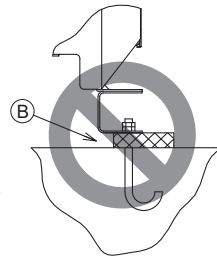
Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.



<With detachable leg>



Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.

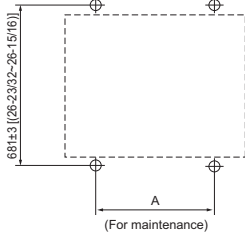


Take into consideration the durability of the base, water drainage route (Drain water is discharged from outdoor units during operation.), piping route, and wiring route when performing foundation work.

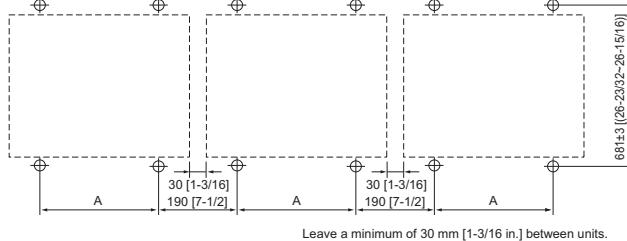
## 4-3-3. Anchor bolt positions

<EP200, 250>

• Individual installation



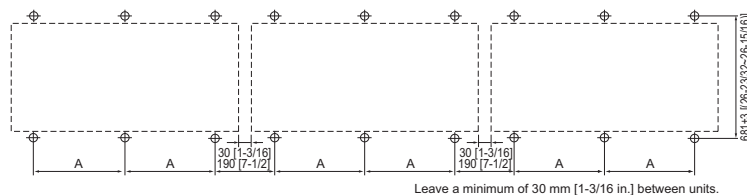
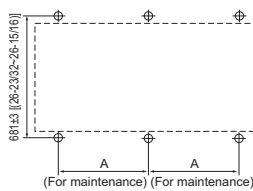
• Collective installation



PUHY	EP200
A	760±2 [29-15/16(29-27/32~30)]

PUHY	EP250
A	1060±2 [41-3/4(41-21/32~41-13/16)]

<EP300, 350, 400, 450>



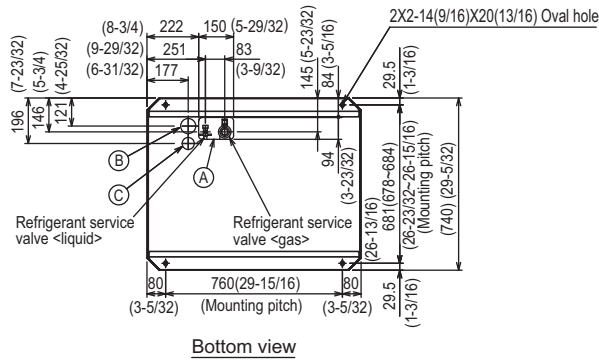
PUHY	EP300, 350, 400, 450
A	795±2 [31-5/16(31-1/4~31-13/32)]

## 4-3-4. Installation

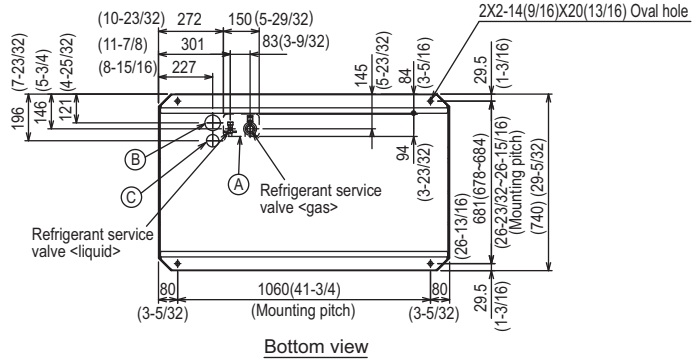
When the pipes and/or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.

When the pipes are routed at the bottom of the unit, the base should be at least 100 mm [3-15/16 in.] in height.

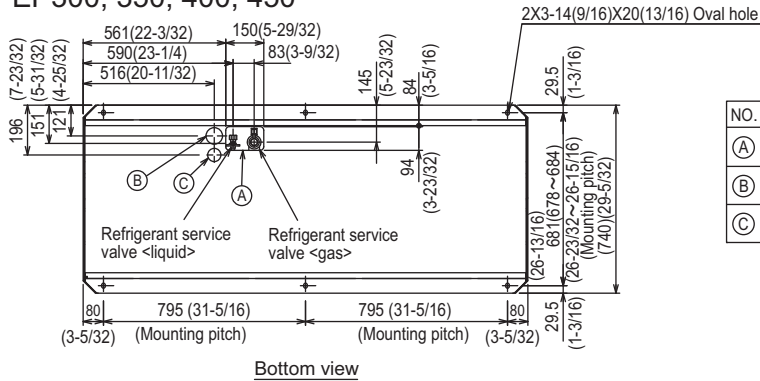
### · EP200



### · EP250



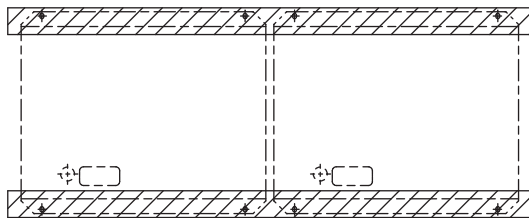
### · EP300, 350, 400, 450



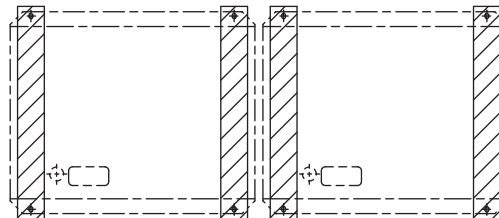
(Unit : mm [in.])

NO.	Usage	Specifications
(A)	For pipes	Bottom through hole 150 × 94 Knockout hole (5-29/32) (3-23/32)
(B)	For wires	Bottom through hole Ø65 Knockout hole (2-9/16)
(C)		Bottom through hole Ø52 Knockout hole (2-1/16)

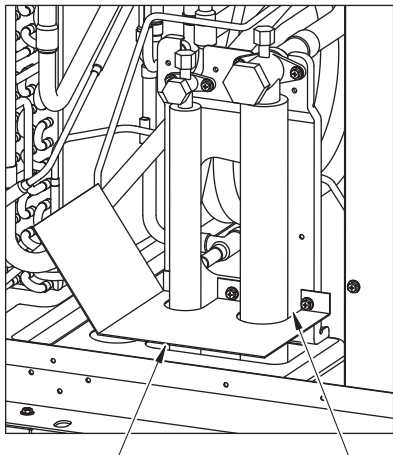
Installation base parallel to the unit's front panel



Installation base perpendicular to the unit's front panel



## 4-3-5. Refrigerant pipe routing



Example of closure materials (field supply) Fill the gap at the site

The gaps around the edges of through holes for pipes and wires on the unit allow water or mice to enter the unit and damage its parts. Close these gaps with filler plates.

This unit allows two types of pipe routing:

- Bottom piping
- Front piping

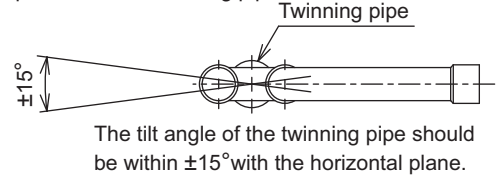
### ⚠ CAUTION

To prevent small animals, water and snow from entering the unit and damage its parts, close the gap around the edges of through holes for pipes and wires with filler plates.

## 4-3-6. Twinning on the outdoor unit side

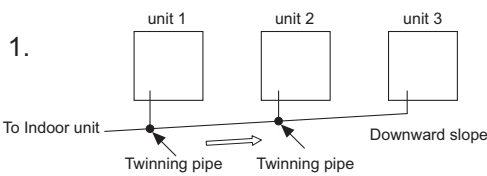
- The tilt angle of the twinning pipe
  - The tilt angle of the twinning pipe must be within  $\pm 15^\circ$  with the horizontal plane.
  - Tilting the twinning pipe more than specified will cause damage to the unit.
- The length of the straight part of the pipe before the branching
  - For the twinning kit, always use the accessory piping parts.
  - The length of the straight part of pipe connected in front of the twinning pipe must be 500 mm [19-11/16 in.] or longer.
  - (Connect the field piping so that the length of the straight part of pipe connected in front of the twinning pipe can be 500 mm [19-11/16 in.] or longer.)
  - If the length is less than 500 mm [19-11/16 in.], it will cause damage to the unit.

Note: See the following drawing for the fitting position of the twinning pipe.

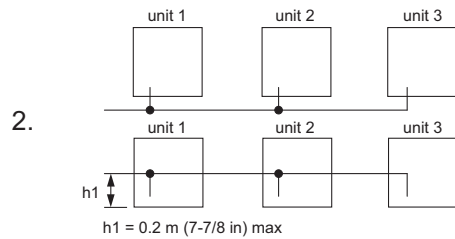
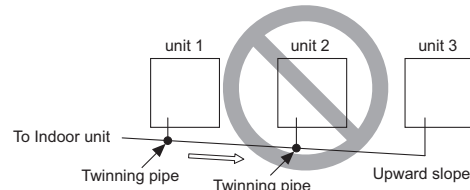


### • Precautions for outdoor unit combinations

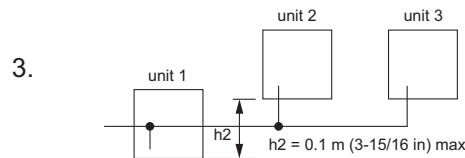
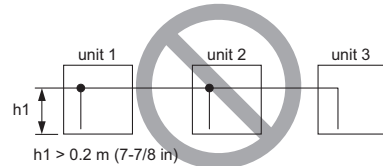
<A> Install the piping so that oil will not accumulate in the stopped outdoor unit.



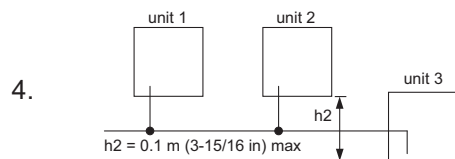
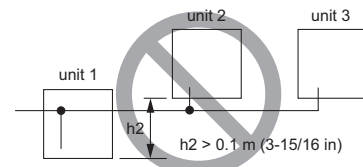
The NG example shows that oil accumulates because the units are installed on a reverse gradient while unit 1 is in operation, and unit 3 is stopped.



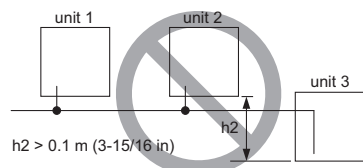
The NG example shows that oil accumulates into units 1 and 2 while unit 3 is in operation, and units 1 and 2 are stopped. Vertical pipe height (h) should be 0.2 m (7-7/8 in) or below.



The NG example shows that oil accumulates into unit 1 while unit 3 is in operation, and unit 1 is stopped. Vertical pipe height (h) should be 0.2 m (7-7/8 in) or below.



The NG example shows that oil accumulates into unit 3 while unit 1 is in operation, and unit 3 is stopped. Vertical pipe height (h) should be 0.2 m (7-7/8 in) or below.

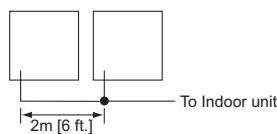


<B> When the piping on the outdoor unit side (from the twinning pipe) exceeds 2 m [6 ft.], ensure a trap (gas pipe only) within 2 m [6 ft.].

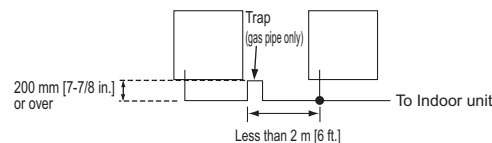
Make sure the height of the trap is 200 mm [7-7/8 in] or more.

If there is no trap, oil can accumulate inside the pipe, causing a shortage of oil and may damage the compressor.

<2 m [6 ft.] or less>



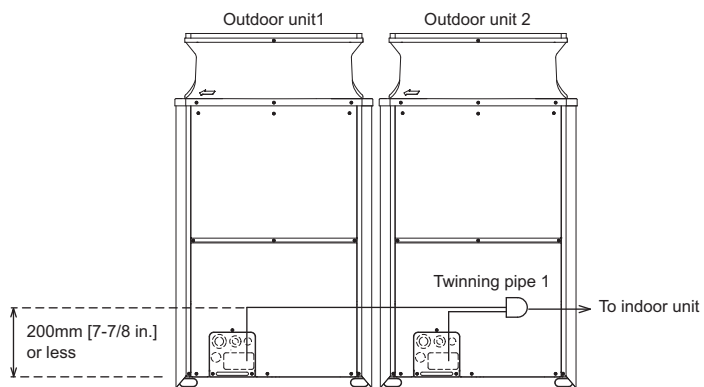
<More than 2 m [6 ft.]>



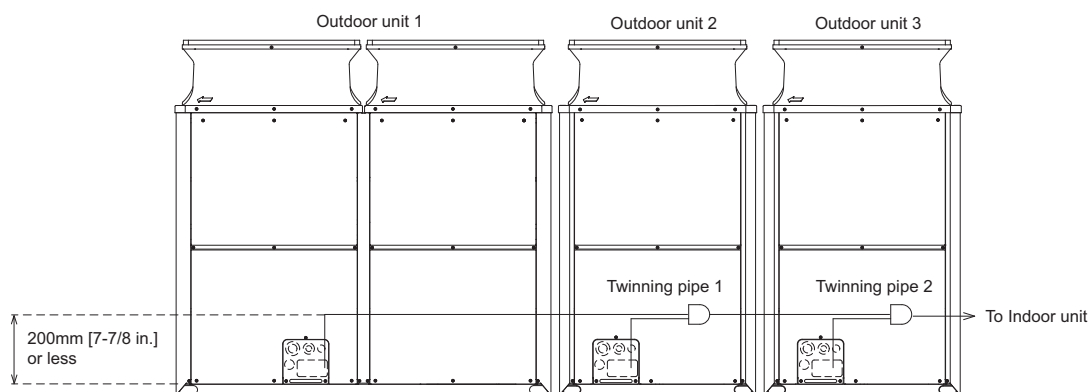
### ⚠ Caution:

- Do not install traps other than the ones between outdoor units described on a separate sheet to prevent oil backflow and compressor start-up failure.
  - Do not install solenoid valves to prevent oil backflow and compressor start-up failure.
  - Do not install a sight glass because it may show improper refrigerant flow.
- If a sight glass is installed, inexperienced technicians that use the glass may overcharge the refrigerant.

<PUHY-EP400YSKM-A>



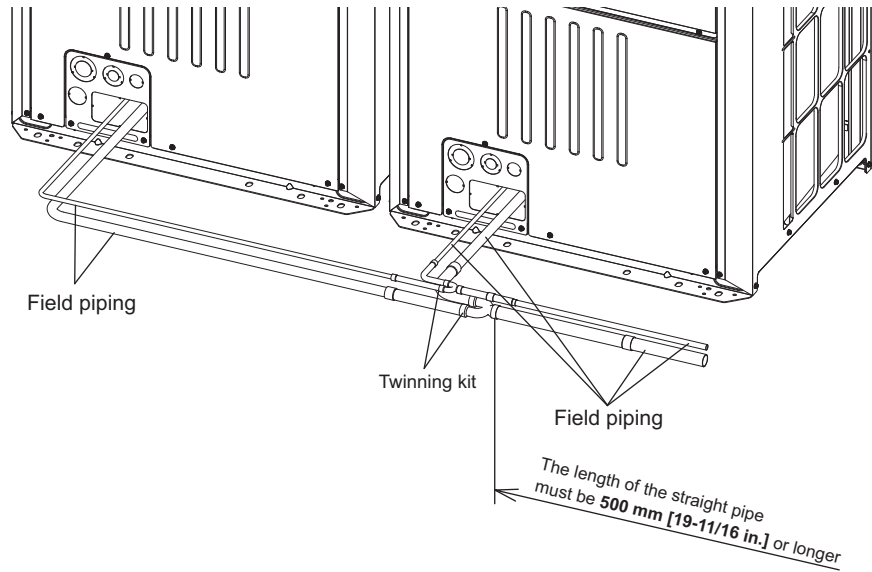
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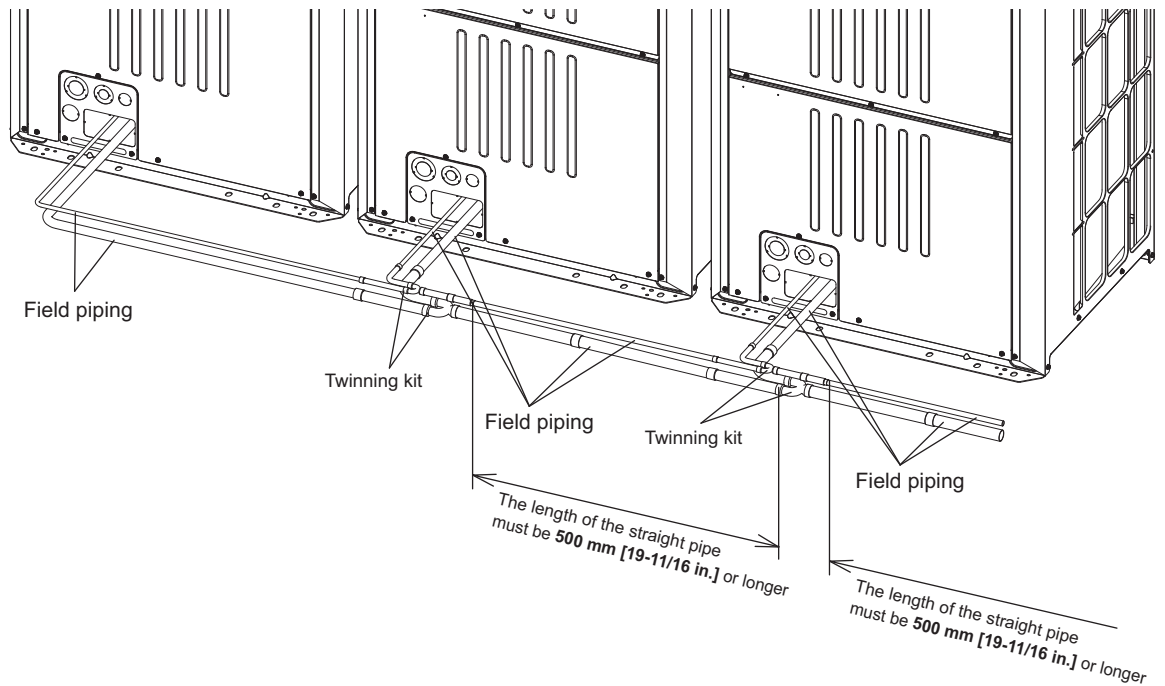
## 4-3-7. Twinning on the outdoor unit side

See the following drawing for connecting the pipes between the outdoor units.

<In case of 2units combination>



<In case of 3units combination>



### CAUTION

The length of the straight pipe must be 500mm[19-11/16 in.] or longer. If not, it may cause improper operation.

## 4-4. Weather countermeasure

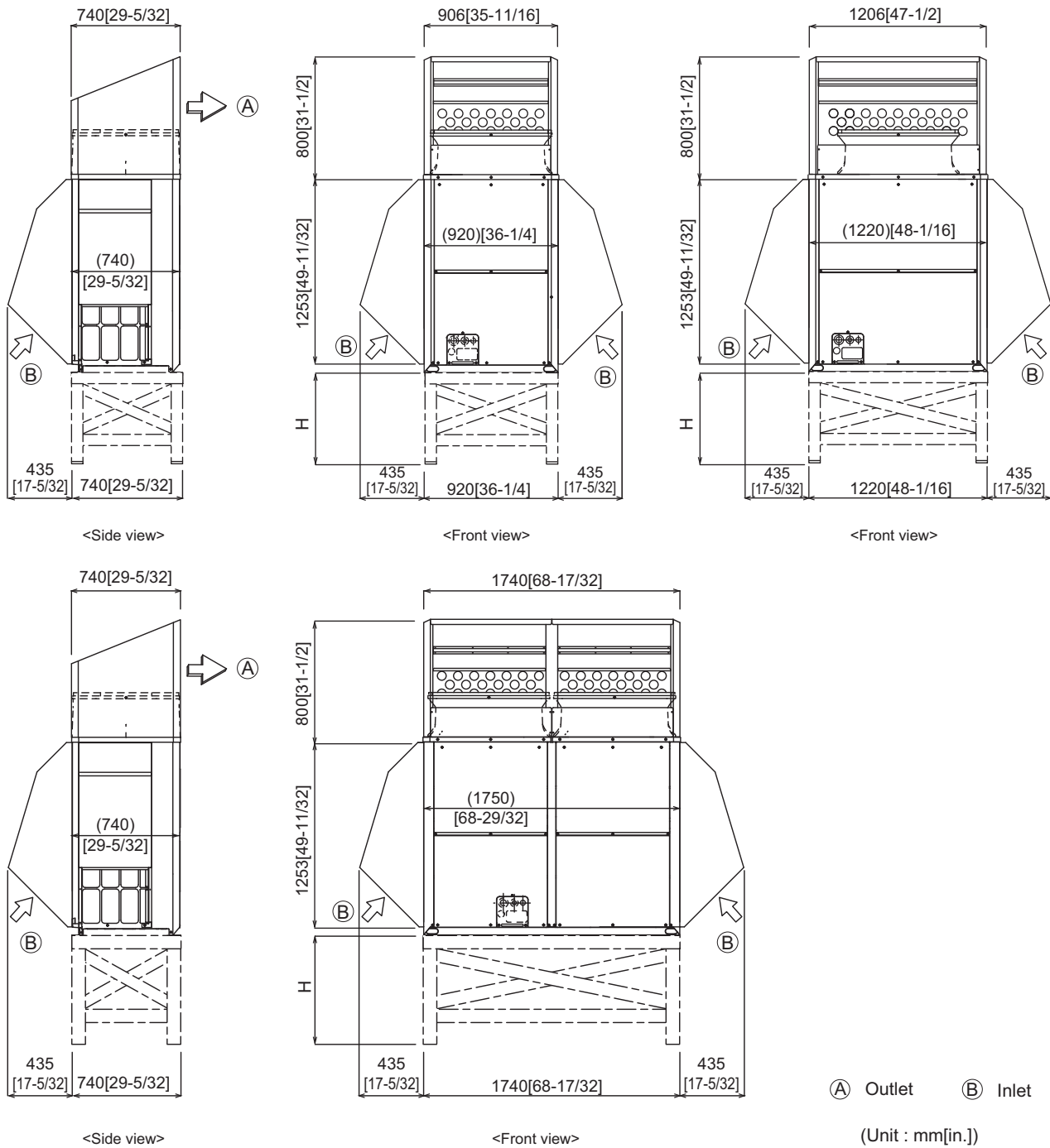
In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Surround the units with snow nets or fences to protect them from snow. Even in the other areas, full consideration is required for installation 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 operations in 10 or less degrees centigrade outdoor air (50 or less degrees fahrenheit outdoor air) , mount inlet and outlet ducts on unit for assuring stable operations.**

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.

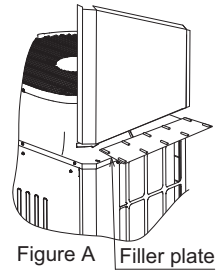
\*Do not use a snow hood made of stainless steel, which may cause the unit to rust. If the use of a stainless snow hood is the only option, contact the sales office before installing it.

- Snow hood



Note:

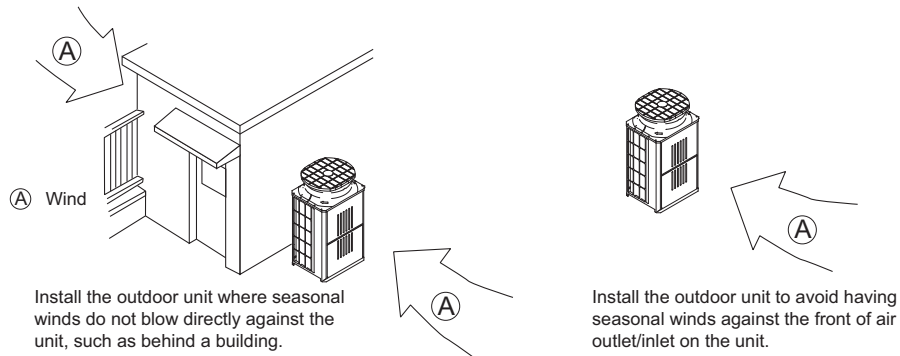
1. Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow 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 [1/16 in. T]  
 Painting : Overall painting with polyester powder  
 Color : Munsell 5Y8/1 (same as that of unit)
4. To install units side by side, install a filler plate between the fan guard and the outlet-side snow food as shown in Figure A.  
 (The filler plate provided accommodates the installation pitch of between 30-80 mm [1-3/16~3-5/32 in.] )
5. 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. A unit installed alone is vulnerable to strong winds. Select the installation site carefully to minimize the effect of winds.

To install a unit in a place where the wind always blows from the same direction, install the unit so that the outlet faces away from the direction of the wind.





### 4-5. Caution on selecting outdoor units

Consult your dealer when the following issues on Y system are the key concern.

- **Warm air** may flow out from the indoor unit during heating Thermo-OFF.
- **Refrigerant flow sound** may occur in the rooms with low background noise such as hotel rooms, hospital rooms, bedrooms, or conference rooms.

To avoid the above issues on Y system, changing board settings on the indoor and outdoor units is required.

Ask AC&R Works for details.

## 5-1. General precautions

### 5-1-1. Usage

- The air-conditioning system described in this Data Book is designed for human comfort.
- This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

### 5-1-2. Installation environment

- Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- Do not install the unit in acidic or alkaline environment.
- Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

### 5-1-3. Backup system

- In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

### 5-1-4. Unit characteristics

- Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrost process.
- Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" for the measurement location.
- The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However, when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.
- When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

### 5-1-5. Relevant equipment

- Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.
- Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

### 5-1-6. Unit installation

- Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- Ensure there is enough space around each unit.

### 5-1-7. Optional accessories

- Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- Some optional accessories may not be compatible with the air conditioning unit to be used or may not be suitable for the installation conditions. Check the compatibility when considering any accessories.
- Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

### 5-1-8. Operation/Maintenance

- Read the Instruction Book that is provided with each unit carefully prior to use.
- Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety. Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

## 5-2. Precautions for Indoor unit

### 5-2-1. Operating environment

- The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.
- If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the indoor units.

### 5-2-2. Unit characteristics

- The return air temperature display on the remote controller may differ from the ones on the other thermometers.
- The clock on the remote controller may be displayed with a time lag of approximately one minute every month.
- The temperature using a built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed on or in the ceiling operate the automatic cooling/heating switchover.
- The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is large such as computer rooms.
- Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the operation noise may increase.
- The room temperature may rise over the preset temperature in the environment where the heating air conditioning load is small.

### 5-2-3. Unit installation

- For simultaneous cooling/heating operation type air conditioners (R2, WR2 series), the G-type BC controller cannot be connected to the EP400 outdoor unit model or above, and the G- and GA-type BC controllers cannot be connected to the EP700 model or above. The GB- and HB-type BC controllers (sub) cannot be connected to the outdoor unit directly, and be sure to use them with GA- and HA-type BC controllers (main).
- The insulation for low pressure pipe between the BC controller and outdoor unit shall be at least 20 mm thick. If the unit is installed on the top floor or in a high-temperature, high-humidity environment, thicker insulation may be necessary.
- Do not have any branching points on the downstream of the refrigerant pipe header.
- When a field-supplied external thermistor is installed or when a device for the demand control is used, abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor for details.
- When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from the air.
- The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" for the available range for fresh air intake volume.
- Operating fresh air intake on the indoor unit may increase the sound pressure level.

### 5-3. Precautions for Fresh air intake type indoor unit

#### 5-3-1. Usage

- This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

#### 5-3-2. Unit characteristics

- This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- Outside air temperature ranges for the operation must be as follows:  
Cooling: 21°C D.B./15.5°C W.B. ~ 43°C D.B./35°C W.B.  
Heating: -10°C D.B. ~ 20°C D.B.  
The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.  
Cooling: 21°C D.B. or below; Heating: 20°C D.B. or above
- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

### 5-4. Precautions for Outdoor unit/Heat source unit

#### 5-4-1. Installation environment

- Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA (JRA9002).
- Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge air may occur.
- Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units. Provide water-proof protection to the floor when installing the units on the rooftop.
- In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow guard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0°C, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not applicable to the PUMY-P-NHMU series)
- Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.
- Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- Interlock the heat source unit and water circuit pump.
- Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place where the ambient temperature can be 0°C or below.
  - Keep the water circulating to prevent it from freezing when the ambient temperature is 0°C or below.
  - Before a long period of non use, be sure to purge the water out of the unit.

#### 5-4-2. Circulating water

- Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

**5-4-3. Unit characteristics**

- When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

**5-4-4. Relevant equipment**

- Provide grounding in accordance with the local regulations.

**5-5. Precautions for Control-related items****5-5-1. Product specification**

- To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- Billing calculation for AG-150A, GB-50ADA, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- In the apportioned billing function for AG-150A and GB-50ADA, use separate watt-hour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watt-hour meter for the large-capacity indoor unit (with two or more addresses).
- When using the peak cut function on the AG-150A or GB-50ADA, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AG-150A or GB-50ADA malfunctions or stops. Provide a back-up remedy as necessary.
- The controllers cannot operate while the indoor unit is OFF. (No error)  
Turn ON the power to the indoor unit when operating the controllers.
- When using the interlocked control function on the AG-150A, GB-50ADA, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

**5-5-2. Installation environment**

- The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- Install the wired remote controller (switch box) to the place where the following conditions are met.
  - Where installation surface is flat
  - Where the remote controller can detect an accurate room temperature  
The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
    - Install the controller in a place where it is not subject to the heat source.  
(If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
    - Install the controller in a place where an average room temperature can be detected.
    - Install the controller in a place where no other wires are present around the temperature sensor.  
(If other wires are present, the remote controller cannot detect an accurate room temperature.)
- To prevent unauthorized access, always use a security device such as a VPN router when connecting AG-150A, GB-50ADA, or TG-2000A to the Internet.

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.

## 6-1. Refrigerant property

R410A refrigerant is harmless and incombustible. The R410A is 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: 0.44kg/m<sup>3</sup>**  
**(The weight of refrigeration gas per 1 m<sup>3</sup> air conditioning space.);**

\* 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.

## 6-2. Confirm the Critical concentration and take countermeasure

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.6-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.

The additional charge is calculated according to "3-3 .Refrigerant charging calculation" and shall not be over charged at the site.

Procedure 6-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.

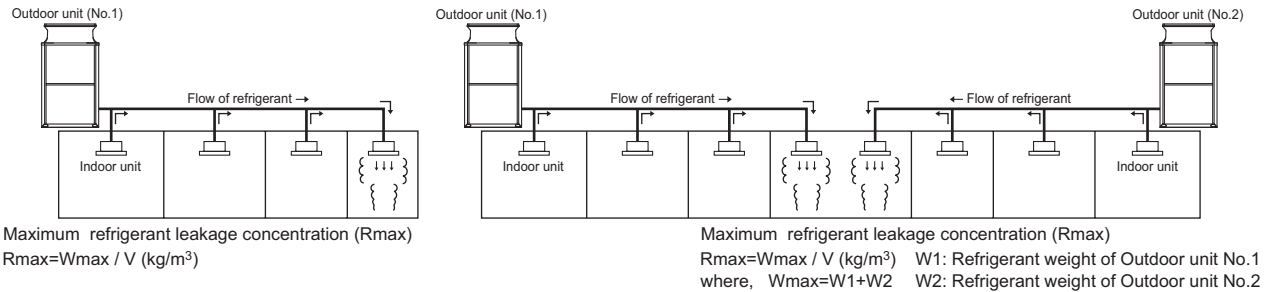


Fig. 6-1 The maximum refrigerant leakage concentration

### 6-2-1. 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.

### 6-2-2. 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.

### 6-2-3. Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).

### 6-2-4. Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.44kg/m<sup>3</sup>.

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.6-2~4.

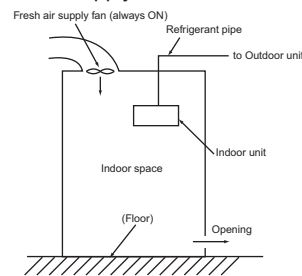


Fig.6-2. Fresh air supply always ON

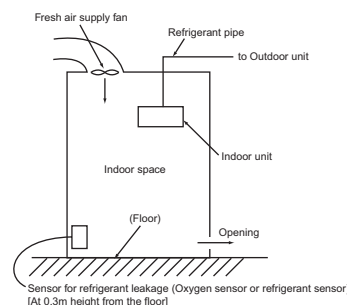


Fig.6-3. Fresh air supply upon sensor action

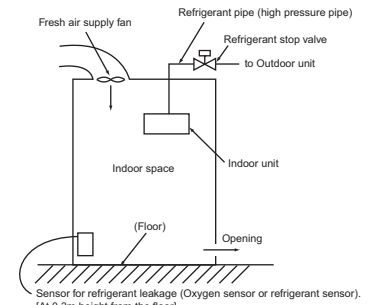


Fig.6-4. Fresh air supply and refrigerant shut-off upon sensor action

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.



# CITY MULTI

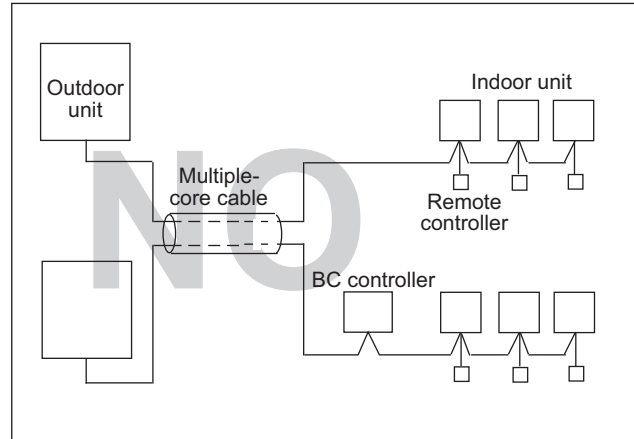
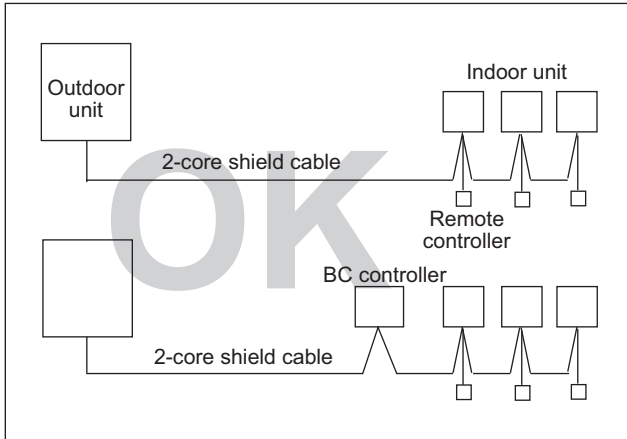
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## 1-1. General cautions

- 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 cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable 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 cable. If connected, electrical parts will be damaged.
- ⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.
- ⑦ When extending the transmission line, make sure to extend the shield cable as well.



1-2. Power supply for Indoor unit and Outdoor unit

1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps  
IFM :Indoor Fan Motor Output : Fan motor rated output

PMFY-P-VBM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	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-VCM-E2	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PLFY-P15VCM-E2	220-240V / 50Hz	Max.: 264V Min.: 198V	0.24	0.008	0.19
PLFY-P20VCM-E2			0.29	0.011	0.23
PLFY-P25VCM-E2			0.29	0.015	0.23
PLFY-P32VCM-E2			0.35	0.020	0.28
PLFY-P40VCM-E2			0.35	0.020	0.28

PLFY-P-VBM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PLFY-P32VBM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.28	0.050	0.22
PLFY-P40VBM-E			0.36	0.050	0.29
PLFY-P50VBM-E			0.36	0.050	0.29
PLFY-P63VBM-E			0.45	0.050	0.36
PLFY-P80VBM-E			0.64	0.050	0.51
PLFY-P100VBM-E			1.25	0.120	1.00
PLFY-P125VBM-E			1.34	0.120	1.07

PLFY-P-VLMD-E	Power supply			IFM	
	Volts / Hz	Range +-10%	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	0.078x2	1.35 / 1.35

PEFY-P-VMR-E-L/R	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PEFY-P20VMR-E-L/R	220-240V / 50Hz 220-230V / 60Hz	Max.: 264V Min.: 198V	0.37 / 0.37	0.018	0.29 / 0.29
PEFY-P25VMR-E-L/R			0.37 / 0.37	0.018	0.29 / 0.29
PEFY-P32VMR-E-L/R			0.43 / 0.48	0.023	0.34 / 0.38

PEFY-P-VMS1-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PEFY-P15VMS1-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.63 / 0.63	0.096	0.50 / 0.50
PEFY-P20VMS1-E			0.70 / 0.70	0.096	0.56 / 0.56
PEFY-P25VMS1-E			0.75 / 0.75	0.096	0.60 / 0.60
PEFY-P32VMS1-E			0.75 / 0.75	0.096	0.60 / 0.60
PEFY-P40VMS1-E			0.83 / 0.82	0.096	0.66 / 0.65
PEFY-P50VMS1-E			1.02 / 1.00	0.096	0.81 / 0.80
PEFY-P63VMS1-E			1.08 / 1.07	0.096	0.86 / 0.85

# 1. Electrical work

EP-YKM

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps  
IFM :Indoor Fan Motor Output : Fan motor rated output

System R2

PEFY-P-VMS1L-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PEFY-P15VMS1L-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.46 / 0.46	0.096	0.37 / 0.37
PEFY-P20VMS1L-E			0.54 / 0.54	0.096	0.43 / 0.43
PEFY-P25VMS1L-E			0.59 / 0.59	0.096	0.47 / 0.47
PEFY-P32VMS1L-E			0.59 / 0.59	0.096	0.47 / 0.47
PEFY-P40VMS1L-E			0.68 / 0.68	0.096	0.54 / 0.54
PEFY-P50VMS1L-E			0.84 / 0.84	0.096	0.67 / 0.67
PEFY-P63VMS1L-E			0.91 / 0.91	0.096	0.73 / 0.73

PEFY-P-VMH(S)-E	Power supply			IFM	
	Volts / Hz	Range +-10%	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	0.76	1.62 / 1.86
PEFY-P250VMH-E	380-415V / 60Hz	Min.: 342V	2.50 / 2.88	1.08	2.00 / 2.30
PEFY-P200VMHS-E	220-240V / 50Hz	Max.: 264V	7.00	0.87	5.60
PEFY-P250VMHS-E	220-240V / 60Hz	Min.: 198V	7.50	0.87	6.00

PEFY-P-VMA-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMA-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	1.03	0.085	0.82
PEFY-P25VMA-E			1.03	0.085	0.82
PEFY-P32VMA-E			1.18	0.085	0.95
PEFY-P40VMA-E			1.43	0.085	1.14
PEFY-P50VMA-E			1.54	0.085	1.23
PEFY-P63VMA-E			2.22	0.121	1.78
PEFY-P71VMA-E			2.46	0.121	1.97
PEFY-P80VMA-E			2.47	0.121	1.98
PEFY-P100VMA-E			3.30	0.244	2.64
PEFY-P125VMA-E			3.39	0.244	2.71
PEFY-P140VMA-E			3.29	0.244	2.63

PEFY-P-VMAL-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PEFY-P20VMAL-E	220-240V / 50Hz 220-240V / 60Hz	Max.: 264V Min.: 198V	0.92	0.085	0.74
PEFY-P25VMAL-E			0.92	0.085	0.74
PEFY-P32VMAL-E			1.07	0.085	0.86
PEFY-P40VMAL-E			1.32	0.085	1.06
PEFY-P50VMAL-E			1.40	0.085	1.12
PEFY-P63VMAL-E			2.08	0.121	1.67
PEFY-P71VMAL-E			2.32	0.121	1.86
PEFY-P80VMAL-E			2.36	0.121	1.89
PEFY-P100VMAL-E			3.19	0.244	2.55
PEFY-P125VMAL-E			3.27	0.244	2.62
PEFY-P140VMAL-E			3.17	0.244	2.53

# 1. Electrical work

EP-YKM

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps  
IFM :Indoor Fan Motor Output : Fan motor rated output

System R2

PEFY-P-VMH-E-F	Power supply			IFM	
	Volts / Hz	Range +-10%	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

PKFY-P-VBM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P15VBM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.25	0.017	0.20
PKFY-P20VBM-E			0.25	0.017	0.20
PKFY-P25VBM-E			0.25	0.017	0.20

PKFY-P-VHM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P32VHM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.38	0.030	0.30
PKFY-P40VHM-E			0.38	0.030	0.30
PKFY-P50VHM-E			0.38	0.030	0.30

PKFY-P-VKM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PKFY-P63VKM-E	220-240V / 50Hz	Max.: 264V	0.36	0.056	0.29
PKFY-P100VKM-E	220V / 60Hz	Min.: 198V	0.63	0.056	0.50

PCFY-P-VKM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PCFY-P40VKM-E	220-240V / 50Hz 220V / 60Hz	Max.: 264V Min.: 198V	0.35	0.090	0.28
PCFY-P63VKM-E			0.41	0.095	0.33
PCFY-P100VKM-E			0.81	0.160	0.65
PCFY-P125VKM-E			0.95	0.160	0.76

PFFY-P-VKM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A)	Output(kW)	FLA(A)
PFFY-P20VKM-E	220-240V / 50Hz	Max.: 264V Min.: 198V	0.25	0.03x2	0.20
PFFY-P25VKM-E			0.25	0.03x2	0.20
PFFY-P32VKM-E			0.25	0.03x2	0.20
PFFY-P40VKM-E			0.30	0.03x2	0.24

PFFY-P-VLEM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PFFY-P20VLEM-E	220-240V / 50Hz 208-230V / 60Hz	Max.: 264V Min.: 187V	0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P25VLEM-E			0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P32VLEM-E			0.36 / 0.38	0.018	0.29 / 0.30
PFFY-P40VLEM-E			0.40 / 0.41	0.030	0.32 / 0.33
PFFY-P50VLEM-E			0.50 / 0.51	0.035	0.40 / 0.41
PFFY-P63VLEM-E			0.58 / 0.59	0.050	0.46 / 0.47

Symbols: MCA : Max.Circuit Amps (=1.25xFLA) FLA : Full Load Amps  
 IFM :Indoor Fan Motor Output : Fan motor rated output

System R2

PFFY-P-VLRM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PFFY-P20VLRM-E	220-240V / 50Hz 208-230V / 60Hz	Max.: 264V Min.: 187V	0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P25VLRM-E			0.24 / 0.31	0.015	0.19 / 0.25
PFFY-P32VLRM-E			0.36 / 0.38	0.018	0.29 / 0.30
PFFY-P40VLRM-E			0.40 / 0.41	0.030	0.32 / 0.33
PFFY-P50VLRM-E			0.50 / 0.51	0.035	0.40 / 0.41
PFFY-P63VLRM-E			0.58 / 0.59	0.050	0.46 / 0.47

PFFY-P-VLRMM-E	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
PFFY-P20VLRMM-E	220-240V / 50Hz	Max.: 264V Min.: 198V	0.59 / 0.58	0.096	0.47 / 0.46
PFFY-P25VLRMM-E			0.59 / 0.58	0.096	0.47 / 0.46
PFFY-P32VLRMM-E			0.69 / 0.69	0.096	0.55 / 0.55
PFFY-P40VLRMM-E			0.78 / 0.76	0.096	0.62 / 0.61
PFFY-P50VLRMM-E			0.80 / 0.79	0.096	0.64 / 0.63
PFFY-P63VLRMM-E			0.93 / 0.93	0.096	0.74 / 0.74

GUF-RDH3	Power supply			IFM	
	Volts / Hz	Range +-10%	MCA(A) (50 / 60Hz)	Output(kW)	FLA(A) (50 / 60Hz)
GUF-50RD(H)3	220-240V / 50Hz	Max.: 264V	1.85 / 1.85	0.081x2	1.48 / 1.48
GUF-100RD(H)3	220V / 60Hz	Min.: 198V	3.49 / 3.49	0.16x2	2.79 / 2.79

1-2-2. Electrical characteristics of Outdoor unit at cooling mode

Symbols: MCA: Max Circuit Amps

RLA: Rated Load Amps SC: Starting Current

PURY-EP-YKM	Unit Combination	Units			Power supply	Compressor		FAN	RLA(A)(50/60Hz)	
		Hz	Volts	Voltage range	MCA(A)	Output (kW)	SC(A)	Output(kW)	Cooling	Heating
PURY-EP200YKM-A(-BS)	-	50/60	380 400 415	Max:456V Min:342V	16.1	5.6	8	0.92	9.3/8.8/8.5	10.6/10.1/9.7
PURY-EP250YKM-A(-BS)	-				19.1	6.9	8	0.92	11.9/11.3/10.8	13.6/12.9/12.4
PURY-EP300YKM-A(-BS)	-				22.6	8.1	8	0.92	13.5/12.8/12.4	16.1/15.3/14.7
PURY-EP350YKM-A(-BS)	-				27.9	10.5	8	0.92	17.8/16.9/16.3	19.9/18.9/18.2
PURY-EP400YKM-A(-BS)	-				32.7	10.9	8	0.92	20.9/19.8/19.1	23.3/22.1/21.3
PURY-EP450YKM-A(-BS)	-				34.6	12.4	8	0.92	24.7/23.5/22.6	24.2/23.0/22.1
PURY-EP400YSKM-A(-BS)	PURY-EP200YKM-A(-BS)				32.2	5.6	8	0.92	19.3/18.3/17.6	21.3/20.2/19.5
	PURY-EP200YKM-A(-BS)									
PURY-EP450YSKM-A(-BS)	PURY-EP250YKM-A(-BS)				35.2	6.9	8	0.92	21.6/20.6/19.8	24.0/22.8/22.0
	PURY-EP200YKM-A(-BS)									
PURY-EP500YSKM-A(-BS)	PURY-EP250YKM-A(-BS)				38.2	6.9	8	0.92	24.5/23.3/22.4	27.2/25.9/24.9
	PURY-EP250YKM-A(-BS)									
PURY-EP550YSKM-A(-BS)	PURY-EP300YKM-A(-BS)				41.7	8.1	8	0.92	26.9/25.6/24.7	29.7/28.2/27.2
	PURY-EP250YKM-A(-BS)									
PURY-EP600YSKM-A(-BS)	PURY-EP300YKM-A(-BS)				45.2	8.1	8	0.92	28.8/27.3/26.3	32.9/31.2/30.1
	PURY-EP300YKM-A(-BS)									
PURY-EP650YSKM-A(-BS)	PURY-EP350YKM-A(-BS)				50.5	10.5	8	0.92	31.9/30.3/29.2	35.7/33.9/32.7
	PURY-EP300YKM-A(-BS)									
PURY-EP700YSKM-A(-BS)	PURY-EP350YKM-A(-BS)				55.8	10.5	8	0.92	36.7/34.9/33.6	39.3/37.3/35.9
	PURY-EP350YKM-A(-BS)									

System R2

## 1-2-3. Electrical characteristics of BC controller

Symbols: MCA : Max. Circuit Amps, MFA : Max. Fuse Amps, RLA : Rated Load Amps

BC controller	Power supply					RLA(A)
	Hz	Volts	Range±10%	MCA(A)	MFA(A)	
CMB-P104V-G1	50/60	220	Max.: 264V Min.: 198V	0.45	15	0.31
		230				0.34
		240				0.36
CMB-P105V-G1		220				0.38
		230				0.41
		240				0.44
CMB-P106V-G1		220				0.45
		230				0.48
		240				0.52
CMB-P108V-G1		220				0.58
		230				0.63
		240				0.68
CMB-P1010V-G1		220				0.71
		230				0.77
		240				0.83
CMB-P1013V-G1		220				0.92
		230				1.00
		240				1.07
CMB-P1016V-G1	220	1.12				
	230	1.22				
	240	1.30				
CMB-P108V-GA1	220	0.58				
	230	0.63				
	240	0.68				
CMB-P1010V-GA1	220	0.71				
	230	0.77				
	240	0.83				
CMB-P1013V-GA1	220	0.92				
	230	1.00				
	240	1.07				
CMB-P1016V-GA1	220	1.12				
	230	1.22				
	240	1.30				
CMB-P1016V-HA1	220	1.12				
	230	1.22				
	240	1.30				
CMB-P104V-GB1	220	0.28				
	230	0.30				
	240	0.32				
CMB-P108V-GB1	220	0.55				
	230	0.59				
	240	0.63				
CMB-P1016V-HB1	220	1.08				
	230	1.17				
	240	1.26				

1-3. Power cable specifications

Thickness of wire for main power supply, capacities of the switch and system impedance

	Model	Minimum wire thickness(mm <sup>2</sup> )			Ground-fault interrupter *1	Local switch (A)		Breaker for wiring (A) (Non-fuse breaker)	Max. Permissible System Impedance
		Main cable	Branch	Ground		Capacity	Fuse		
Outdoor unit	PURY-EP200YKM	4.0	-	4.0	30A 100mA 0.1sec. or less	25	25	30	*2
	PURY-EP250YKM	4.0	-	4.0	30A 100mA 0.1sec. or less	32	32	30	*2
	PURY-EP300YKM	4.0	-	4.0	30A 100mA 0.1sec. or less	32	32	30	*2
	PURY-EP350YKM	6.0	-	6.0	40A 100mA 0.1sec. or less	40	40	40	0.25Ω
	PURY-EP400YKM	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60	0.22Ω
	PURY-EP450YKM	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60	0.18Ω
Total operating current of the indoor unit	F0 = 20A or less *3	1.5	1.5	1.5	Current sensitivity *4	16	16	20	(apply to IEC61000-3-3)
	F0 = 30A or less *3	2.5	2.5	2.5	Current sensitivity *4	25	25	30	(apply to IEC61000-3-3)
	F0 = 40A or less *3	4.0	4.0	4.0	Current sensitivity *4	32	32	40	(apply to IEC61000-3-3)

\*1 The Ground-fault interrupter should support Inverter circuit. The Ground-fault interrupter should combine using of local switch or wiring breaker.

\*2 Meet technical requirements of IEC61000-3-3

\*3 Please take the larger of F1 or F2 as the value for F0.

F1 = Total operating maximum current of the indoor units × 1.2

F2 = {V1 × (Quantity of Type1)/C} + {V1 × (Quantity of Type2)/C} + {V1 × (Quantity of Type3)/C} + {V1 × (Quantity of Others)/C}

Indoor unit		V1	V2
Type1	PLFY-VBM, PMFY-VBM, PEFY-VMS, PCFY-VKM, PKFY-VHM, PKFY-VKM, PFFY-VKM, PFFY-VLRMM	18.6	2.4
Type2	PEFY-VMA	38	1.6
Type3	PEFY-VMHS	13.8	4.8
Others	Other indoor unit	0	0

C : Multiple of tripping current at tripping time 0.01s

Please pick up "C" from the tripping characteristic of the breaker.

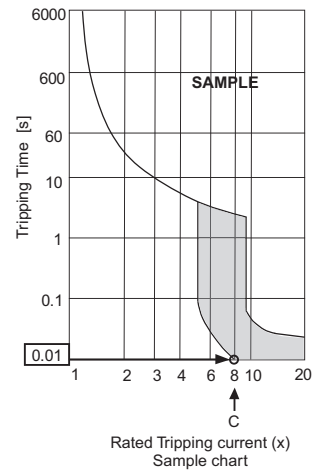
<Example of "F2" calculation>

\*Condition PEFY-VMS × 4 + PEFY-VMA × 1, C = 8 (refer to right sample chart)

F2 = 18.6 × 4/8 + 38 × 1/8

= 14.05

→16 A breaker (Tripping current = 8 × 16 A at 0.01s)



\*4 Current sensitivity is calculated using the following formula.

G1 = (V2 × Quantity of Type1) + (V2 × Quantity of Type2) + (V2 × Quantity of Type3) + (V2 × Quantity of Others) + (V3 × Wire length [km])

G1	Current sensitivity	Wire thickness	V3
30 or less	30 mA 0.1sec or less	1.5 mm <sup>2</sup>	48
100 or less	100 mA 0.1sec or less	2.5 mm <sup>2</sup>	56
		4.0 mm <sup>2</sup>	66

1. Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
3. The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%. Make sure that the voltage imbalance between the phases is 2% or less.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57). For example, use wiring such as YZW.
6. A switch with at least 3 mm contact separation in each pole shall be provided when the Air Conditioner is installed.

**⚠ WARNING**

- ◆ Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- ◆ Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

**⚠ CAUTION**

- ◆ The breakers for current leakage should support Inverter circuit. (e.g. Mitsubishi Electric's NV-S series or equivalent). If no earth leakage breaker is installed, it may cause an electric shock.
- ◆ Breakers for current leakage should combine using of switch.
- ◆ Do not use anything other than a breaker with the correct capacity. Using a breaker of too large capacity may cause malfunction or fire.
- ◆ If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the upstream side of the power supply system may both operate. Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

**Note**

- ◆ This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- ◆ The user must ensure that this device is connected only to a power supply system which fulfils the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.
- ◆ This equipment complies with IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to Ssc (\*2) at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power Ssc greater than or equal to Ssc (\*2).

Ssc(\*2)

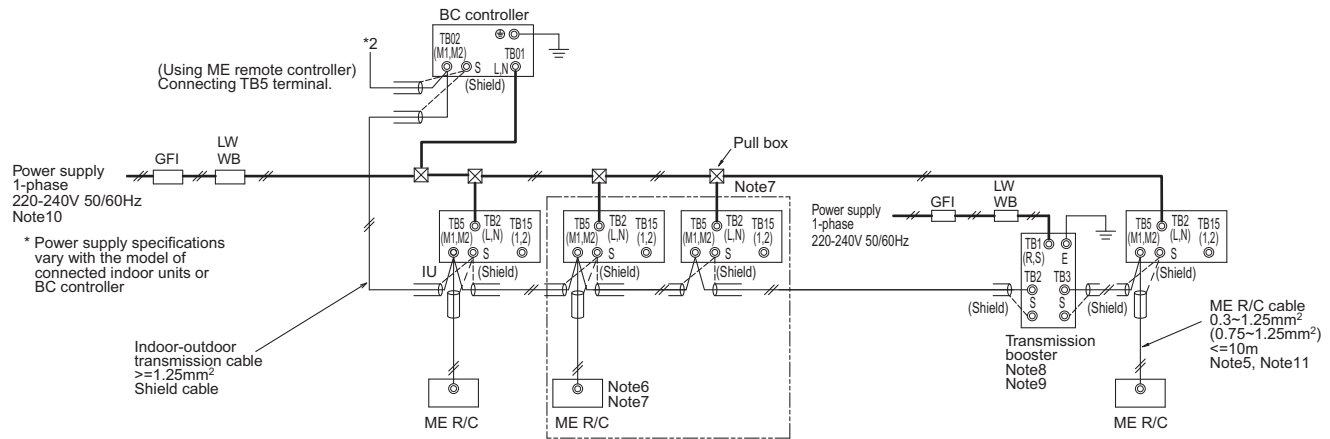
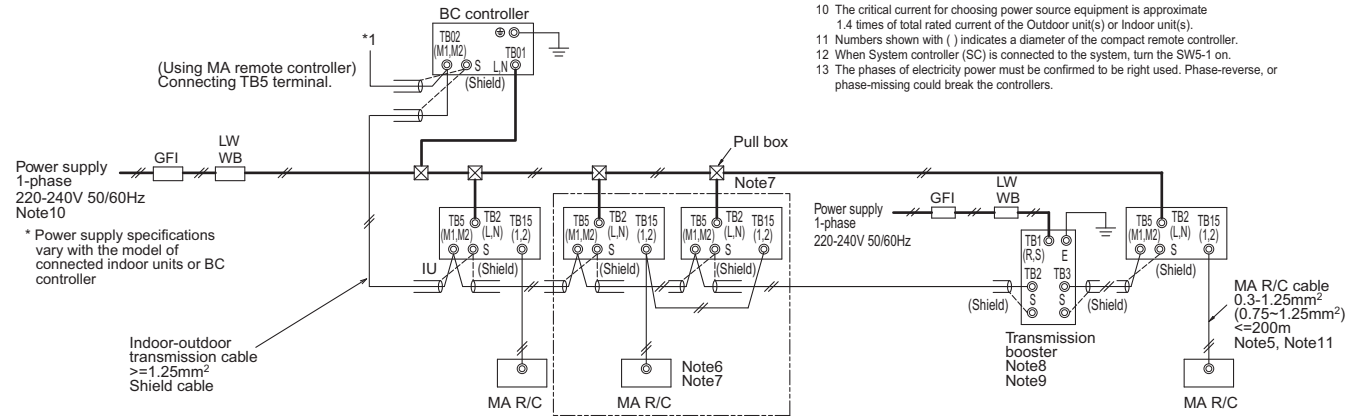
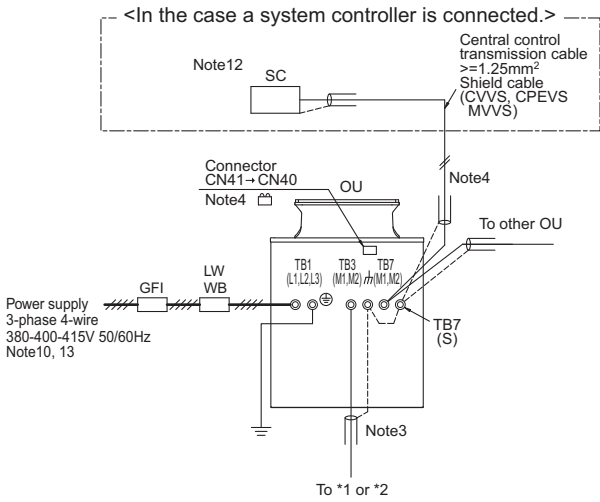
Model	Ssc(MVA)
PURY-EP200YKM	1.25
PURY-EP250YKM	1.48
PURY-EP300YKM	1.75
PURY-EP350YKM	2.17
PURY-EP400YKM	2.54
PURY-EP450YKM	3.07



1-4. Power supply examples

The local standards and/or regulations is applicable at a higher priority.  
 1-4-1. PURY-EP200, 250, 300, 350, 400, 450YKM-A

System R2



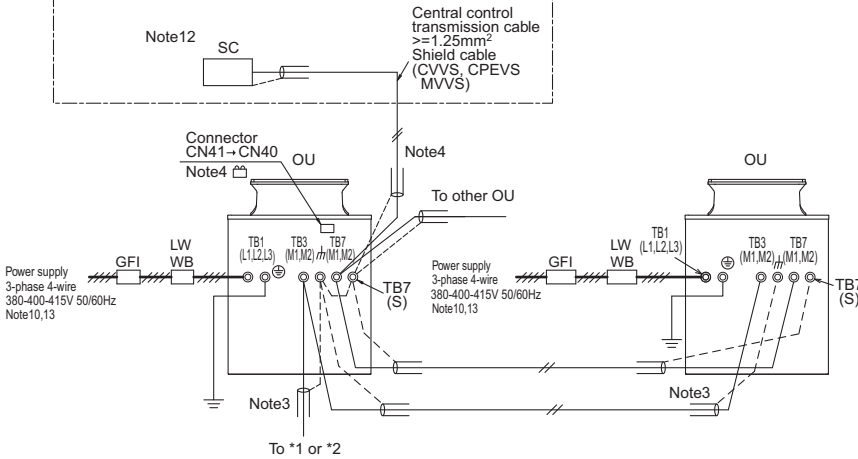
Symbol	Model	Ground-fault interrupter *1, *2, *4	Local switch			Wiring breaker *4		Minimum Wire thickness		
			BKC <A>	OCP*3, *4 <A>	(NFB) <A>	Power wire <mm²>	Earth wire <mm²>			
GFI	Ground-fault interrupter	PURY-EP200YKM	30A	100mA	0.1sec. or less	25	25	30	4	4
LW	Local switch	PURY-EP250YKM	30A	100mA	0.1sec. or less	32	32	30	4	4
BKC	Breaker capacity	PURY-EP300YKM	30A	100mA	0.1sec. or less	32	32	30	4	4
OCP	Over-current protector	PURY-EP350YKM	40A	100mA	0.1sec. or less	40	40	40	6	6
WB	Wiring breaker	PURY-EP400YKM	60A	100mA	0.1sec. or less	63	63	60	10	10
NFB	Non-fuse breaker	PURY-EP450YKM	60A	100mA	0.1sec. or less	63	63	60	10	10

- \*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-C series or equivalent).
- \*2 Ground-fault interrupter should combine using of local switch or wiring breaker.
- \*3 It shows data for B-type fuse of the breaker for current leakage.
- \*4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate.  
Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

- Note:
- 1 The transmission cable is not-polarity double-wire.
  - 2 Symbol Ⓞ means a screw terminal for wiring.
  - 3 The shield wire of transmission cable should be connected to the grounding terminal at Outdoor unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected together.  
The broken line at the scheme means shield wire.
  - 4 When the Outdoor unit connected with system controller, power-supply to TB7 of the outdoor unit(s) is needed. The connector change from CN41 to CN40 at one of the outdoor units will enable the outdoor unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm², shielded, CVVS/CPEVS/MVVS) among Outdoor units and system controllers is called central control transmission cable. The shield wire of the central control transmission cable must be grounded at the Outdoor unit whose CN41 is changed to CN40.  
When the power supplying unit PAC-SC51KUA is used, connect the shielded cable to the ground terminal on the PAC-SC51KUA.
  - 5 MA R/C transmission cable (0.3-1.25mm²) must be less than 200m in length, while ME R/C transmission cable (0.3-1.25mm²) must be less than 10m in length. But transmission cable to the ME R/C can be extend using a M-NET cable (>=1.25mm²) when the length is counted in the M-Net length. Both Compact MA and ME R/C transmission cables size 0.75-1.25mm² in thickness.
  - 6 MA remote controller and ME remote controller should not be grouped together.  
When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.
  - 7 If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping".  
If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 2-4. "Address setting".
  - 8 Indoor board consumes power from TB3. The power balance should be considered according to System Design 2-3 "System configuration restrictions".
  - 9 If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.
  - 10 The critical current for choosing power source equipment is approximate 1.4 times of total rated current of the Outdoor unit(s) or Indoor unit(s).
  - 11 Numbers shown with ( ) indicates a diameter of the compact remote controller.
  - 12 When System controller (SC) is connected to the system, turn the SW5-1 on.
  - 13 The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.

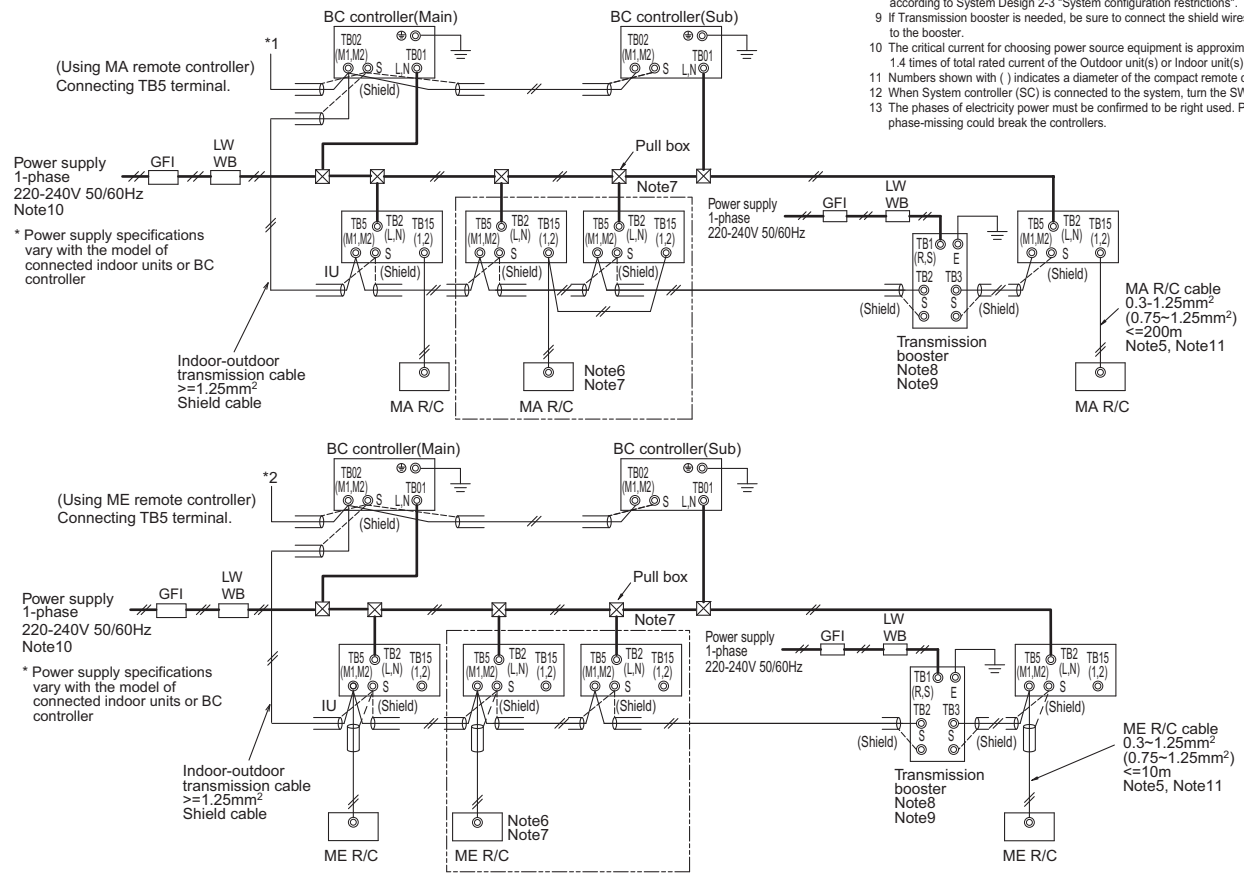
The local standards and/or regulations is applicable at a higher priority.  
 1-4-2. PURY-EP400, 450, 500, 550, 600, 650, 700YSKM-A

<In the case a system controller is connected.>



Note:

- The transmission cable is not-polarity double-wire.
- Symbol ⊙ means a screw terminal for wiring.
- The shield wire of transmission cable should be connected to the grounding terminal at Outdoor unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected together.  
The broken line at the scheme means shield wire.
- When the Outdoor unit connected with system controller, power-supply to TB7 of the outdoor unit(s) is needed. The connector change from CN41 to CN40 at one of the outdoor units will enable the outdoor unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm², shielded, CVVS/CPEVS/MVVS) among Outdoor units and system controllers is called central control transmission cable. The shield wire of the central control transmission cable must be grounded at the Outdoor unit whose CN41 is changed to CN40. When the power supplying unit PAC-SC51KUA is used, connect the shielded cable to the ground terminal on the PAC-SC51KUA.
- MA R/C transmission cable (0.3-1.25mm²) must be less than 200m in length, while ME R/C transmission cable (0.3-1.25mm²) must be less than 10m in length. But transmission cable to the ME R/C can be extended using a M-NET cable (>=1.25mm²) when the length is counted in the M-Net length. Both Compact MA and ME R/C transmission cables size 0.75-1.25mm² in thickness.
- MA remote controller and ME remote controller should not be grouped together. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.
- If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping".  
If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 2-4. "Address setting".
- Indoor board consumes power from TB3. The power balance should be considered according to System Design 2-3 "System configuration restrictions".
- If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.
- The critical current for choosing power source equipment is approximate 1.4 times of total rated current of the Outdoor unit(s) or Indoor unit(s).
- Numbers shown with ( ) indicates a diameter of the compact remote controller.
- When System controller (SC) is connected to the system, turn the SW5-1 on.
- The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.



Symbol	Model	Ground-fault interrupter *1, *2, *4	Local switch		Wiring breaker *4 (NFB) <A>	Minimum Wire thickness				
			BKC <A>	OCP*3, *4 <A>		Power wire <mm²>	Earth wire <mm²>			
GFI	Ground-fault interrupter	PURY-EP200YKM	30A	100mA	0.1sec. or less	25	25	30	4	4
LW	Local switch	PURY-EP250YKM	30A	100mA	0.1sec. or less	32	32	30	4	4
BKC	Breaker capacity	PURY-EP300YKM	30A	100mA	0.1sec. or less	32	32	30	4	4
OCP	Over-current protector	PURY-EP350YKM	40A	100mA	0.1sec. or less	40	40	40	6	6
WB	Wiring breaker	PURY-EP400YKM	60A	100mA	0.1sec. or less	63	63	60	10	10
NFB	Non-fuse breaker	PURY-EP450YKM	60A	100mA	0.1sec. or less	63	63	60	10	10
OU	Outdoor unit									
IU	Indoor unit									
SC	System controller									
MA R/C	MA remote controller									
ME R/C	ME remote controller									

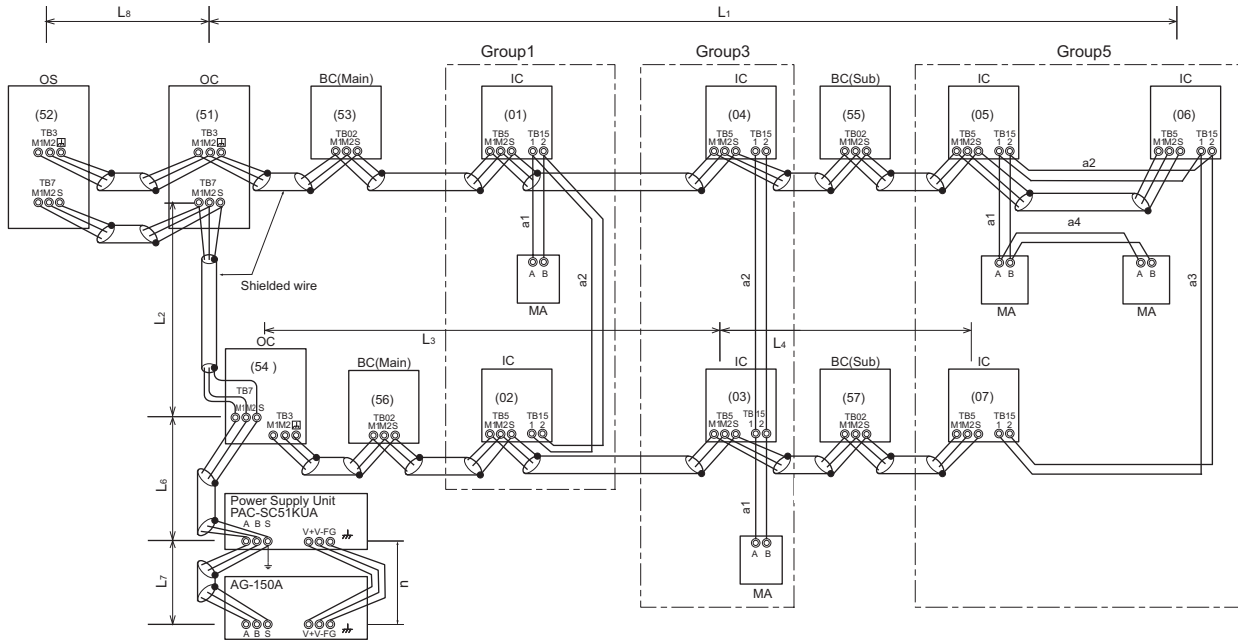
\*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-C series or equivalent).  
 \*2 Ground-fault interrupter should combine using of local switch or wiring breaker.  
 \*3 It shows data for B-type fuse of the breaker for current leakage.  
 \*4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate.  
 Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

2-1. Transmission cable length limitation

2-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	$L_1+L_2+L_3+L_4, L_1+L_2+L_6+L_7, L_3+L_4+L_6+L_7$	$\leq 500\text{m}[1640\text{ft.}]$	1.25mm <sup>2</sup> [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	$L_1+L_8, L_3+L_4, L_6, L_2+L_6+L_8, L_7$	$\leq 200\text{m}[656\text{ft.}]$	1.25mm <sup>2</sup> [AWG16] or thicker
Max. length from MA to Indoor	$a_1+a_2, a_1+a_2+a_3+a_4$	$\leq 200\text{m}[656\text{ft.}]$	0.3-1.25 mm <sup>2</sup> [AWG22-16]
24VDC to AG-150A	n	$\leq 50\text{m}[164\text{ft.}]$	0.75-2.0 mm <sup>2</sup> [AWG18-14]



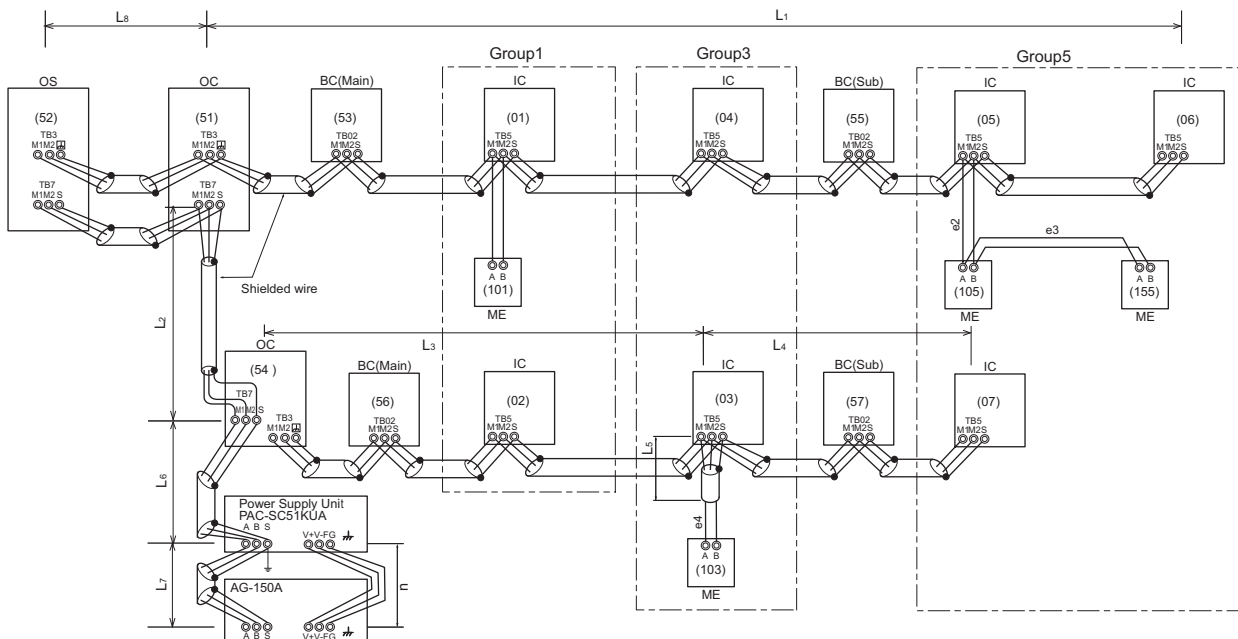
OC, OS : Outdoor unit controller; IC: Indoor unit controller; MA: MA remote controller

2-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	$L_1+L_2+L_3+L_4, L_1+L_2+L_6+L_7, L_1+L_2+L_3+L_5, L_3+L_4+L_6+L_7$	$\leq 500\text{m}[1640\text{ft.}]$	1.25mm <sup>2</sup> [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	$L_1+L_8, L_3+L_4, L_6, L_2+L_6+L_8, L_7, L_3+L_5$	$\leq 200\text{m}[656\text{ft.}]$	1.25mm <sup>2</sup> [AWG16] or thicker
Max. length from ME to Indoor	$e_1, e_2+e_3, e_4$	$\leq 10\text{m}[32\text{ft.}] * 1$	0.3-1.25 mm <sup>2</sup> [AWG22-16] * 1
24VDC to AG-150A	n	$\leq 50\text{m}[164\text{ft.}]$	0.75-2.0 mm <sup>2</sup> [AWG18-14]

\*1. If the length from ME to Indoor exceed 10m, use 1.25 mm<sup>2</sup> [AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC, OS: Outdoor unit controller; IC: Indoor unit controller; ME: ME remote controller

### 2-2. Transmission cable specifications

	Transmission cables (Li)	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 size	More than 1.25mm <sup>2</sup> [AWG16]	0.3 ~ 1.25mm <sup>2</sup> [AWG22~16] (0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1	0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]*2 (0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1
Remarks	—	When 10m [32ft] is exceeded, use cables with the same specification as transmission cables.	Max length : 200m [656ft] *3

\*1 Connected with simple remote controller.

\*2 To wire PAR-31MAA, simple MA remote controller use a wire with a diameter of 0.3 mm<sup>2</sup> [AWG22]

\*3 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable

CPEVS : PE insulated PVC jacketed shielded communication cable

CVV : PV insulated PVC sheathed control cable

2-3. System configuration restrictions

2-3-1. Common restrictions for the CITYMULTI 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;  
\*MA/ME remote controllers cannot be present together in 1group.  
\*When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same 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-SC51KUA. 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 P15-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

Indoor, OA unit	Indoor unit	BC controller	MA RC. LOSSNAY	ME Remote Contr.	System Contr.		ON/OFF Contr.	MN Converter		Outdoor unit
Sized P15-P140 GUF-50, 100	Sized P200,P250	CMB	PAR-31MAA PAR-21MAA PAC-YT52CRA PAR-FA32MA LGH-RX-E PZ-60DR-E	PAR-F27MEA PAC-SE51CRA PZ-52SF-E	AG-150A	AT-50A	PAC-YT40ANRA	CMS -MNF-B	CMS -MNG-E	TB7 power consumption
1	7	2	0	1/4	1/2	4	1	1/2	2	0

\*RC : Remote Controller

Table 2-3-2 The equivalent power supply

Transmission Booster	Power supply unit	Expansion controller	BM ADAPTER	System Controller	Outdoor unit	
PAC-SF46EPA	PAC-SC51KUA	PAC-YG50ECA	BAC-HD150	GB-50ADA	Connector TB3 and TB7 total *	Connector TB7 only
25	5	6	6	6	32	6

\*If PAC-SC51KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32. Not applicable to the PUMY model.

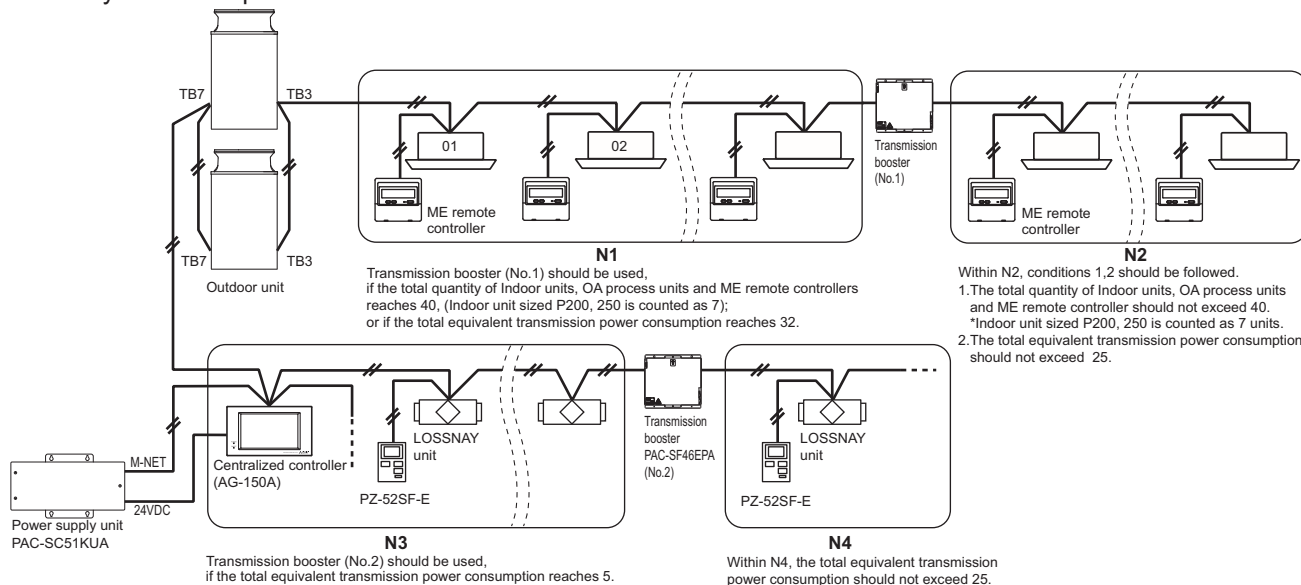
With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA processing units, ME remote controller, 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 7 Indoor units, but MA remote controller(s), LOSSNAY, and PZ-60DR-E are 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-SC51KUA 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



2-3-3. Ensuring proper power supply to System controller

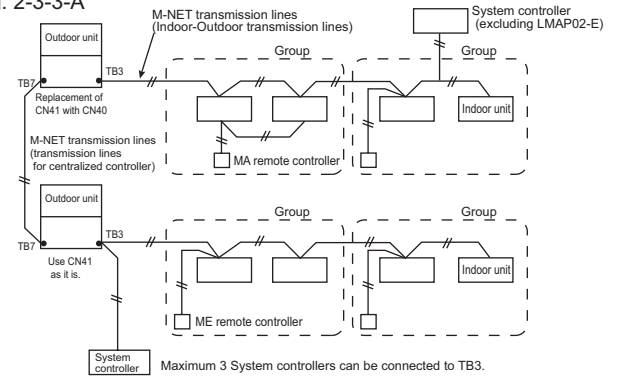
The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

- 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-SC51KUA.

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.

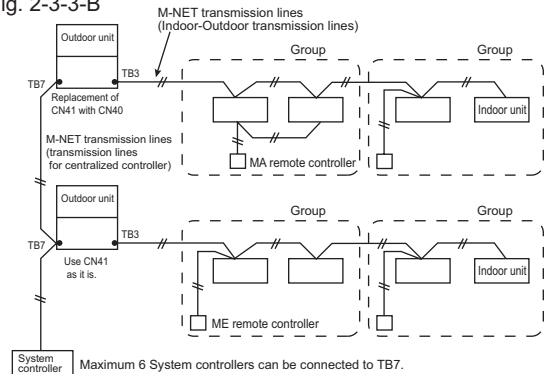
Fig. 2-3-3-A



2-3-3-B. When connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 6 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.

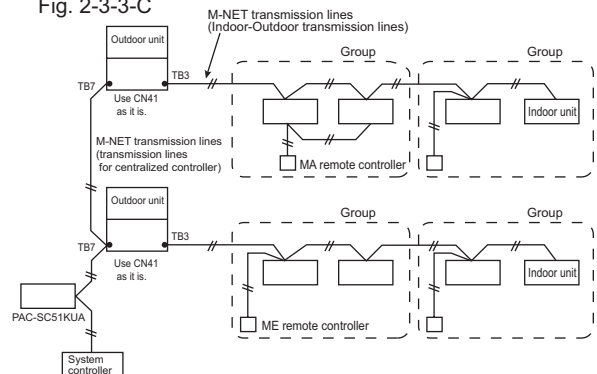
Fig. 2-3-3-B



2-3-3-C. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC51KUA.

When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor units should be kept as it is. It is also a factory setting. 1 PAC-SC51KUA supports maximum 1 AG-150A unit due to the limited power 24VDC at its TB3. However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2-3-2. If PZ-52SF-E, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-C



**CAUTION**

AG-150A\*1 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, AG-150A receiving transmission power through TB7 on one of the Outdoor units would have a risk that the connected Outdoor unit failure would stop power supply to AG-150A, and disrupt the whole system.

When applying apportioned electric power function, AG-150A is necessary to connected to TB7 and has its own power supply unit PAC-SC51KUA.\*2

\*1: AG-150A is an example model of system controllers.

\*2: Power supply unit PAC-SC51KUA is for AG-150A.

### 2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240VAC power supply is needed.

The power supply unit PAC-SC51KUA 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.

### 2-3-5. Power supply to expansion controller

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

The expansion controller supplies power through TB3, which equals 6 indoor units. (refer to Table 2-3-2)

### 2-3-6. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.

Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

### 2-3-7. Power supply to GB-50ADA

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

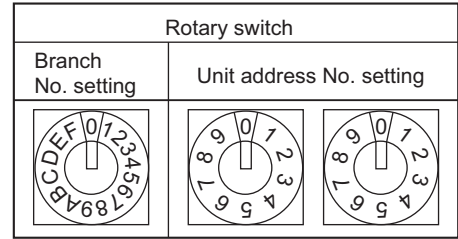
GB-50ADA supplies power through TB3, which equals 6 indoor units. (refer to Table 2-3-2)

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".

PAR-21MAA

The MA remote controller does not have the switches listed above. Refer to the installation manual for the function setting.

PAC-YT52CRA



























Setting the dip switches

There are switches on the back of the top case. 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 ON for SW1, 2, and 3 and OFF for SW4.)

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 "ON".
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "OFF".
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 "OFF".
4	Indoor temperature display	Yes	No	When you want to display the indoor temperature, set to "ON".



## 2-4-2. Rule of setting address

Unit	Address setting	Example	Note	
Indoor unit	01 ~ 50	 	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 (Note1)	 	The smallest address of indoor unit in same refrigerant system + 50 Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC, OS1 and OS2 are automatically detected. (Note 2) * Please reset one of them to an address between 51 and 99 when two addresses overlap. * The address automatically becomes "100" if it is set as "01~ 50"	
BC controller (Main)	52 ~ 99, 100	 	The address of outdoor unit + 1 * Please reset one of them to an address between 51 and 99 when two addresses overlap. * The address automatically becomes "100" if it is set as "01~ 50"	
BC controller (Sub)	52 ~ 99, 100	 	Lowest address within the indoor units connected to the BC controller (Sub) plus 50.	
Local remote controller	ME, LOSSNAY Remote controller (Main)	101 ~ 150 Fixed	 	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 Fixed	 	The address of main remote controller + 50 * The address automatically becomes "200" if it is set as "00"
System controller	ON/OFF remote controller	000, 201 ~ 250	  	The smallest group No. to be managed + 200 * The smallest group No. to be managed is changeable.
	AG-150A GB-50ADA AT-50A	000, 201 ~ 250	  	
	PAC-YG50ECA	000, 201 ~ 250	  	* Settings are made on the initial screen of AG-150A.
	BAC-HD150	000, 201 ~ 250	  	* Settings are made with setting tool of BM ADAPTER.
	LMAPO2-E	201 ~ 250 Fixed	 	

Note1: To set the address to "100", set it to "50"

Note2: Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.

OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.

### 2-4-3. System examples

#### Factory setting

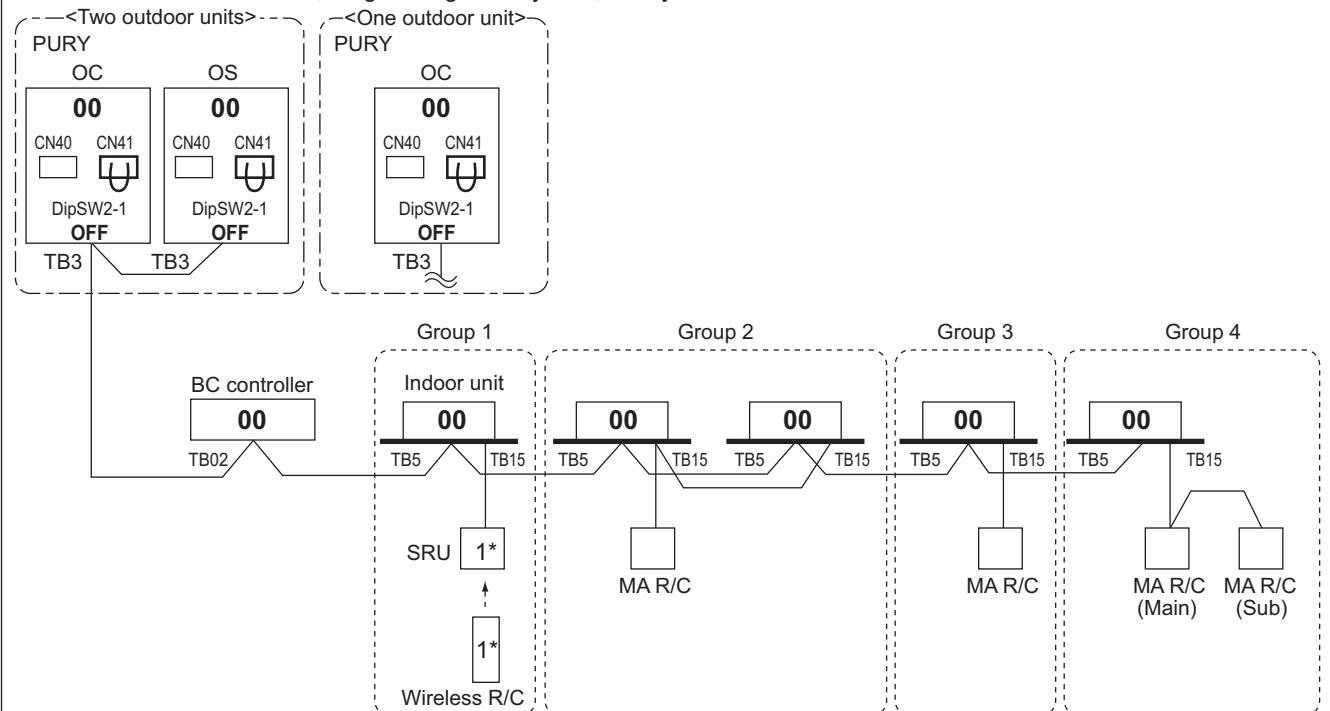
Original switch setting of the outdoors, indoors, controllers, LMAP and BM ADAPTER at shipment is as follows.

- Outdoor unit : Address: 00, CN41: U (Jumper), DipSW2-1: OFF
- Indoor unit : Address: 00
- BC controller : Address: 00
- ME remote controller : Address: 101
- LMAP : Address: 247, CN41: U (Jumper), DipSW1-2: OFF
- BM ADAPTER : Address: 00

#### Setting at the site

- DipSW5-1(Outdoor) : When the System Controller is used, all the Dip SW5-1 at the outdoor units should be set to "ON". \* Dip SW5-1 remains OFF when only LMAP02-E is used.
- DipSW4-6(BC controller) : Set DipSW 4-6 to ON at BC controller, in case of connected Indoor unit sized P100-P140 with 2 ports. It is also possible to connect Indoor unit sized P100-P140 with 1 port (set DipSW 4-6 to OFF).
- DipSW1-2(LMAP) : When the LMAP is used together with System Controller, DipSW1-2 at the LMAP should be set to "ON".
- CN40/CN41 : Change jumper from CN41 to CN 40 at outdoor control board will activate central transmission power supply to TB7;  
(Change jumper at only one outdoor unit when activating the transmission power supply without using a power supply unit.)  
Change jumper from CN41 to CN 40 at LMAP will activate transmission power supply to LMAP itself;  
Power supply unit is recommended to use for a system having more than 1 outdoor unit, because the central transmission power supply from TB7 of one of outdoor units is risking that the outdoor unit failure may let down the whole system controller system.

#### 2-4-3-1. MA remote controller, Single-refrigerant-system, No System Controller

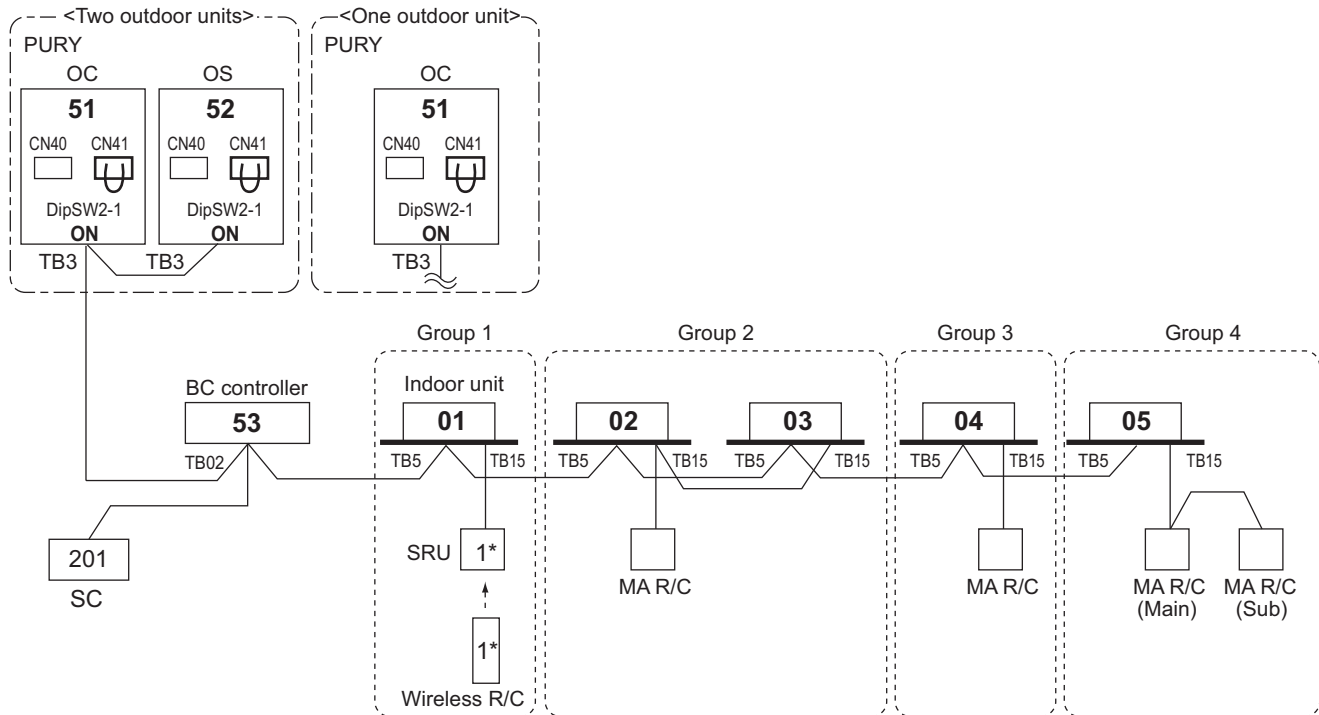


\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

#### NOTE:

1. Outdoor units OC and OS in one refrigerant circuit system are automatically detected. OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. No address setting is needed.
3. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".
4. Indoor units should be set with a branch number.
5. Address setting is required if a sub BC controller is connected.
6. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

### 2-4-3-2. MA remote controller, Single-refrigerant-system, System Controller



\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

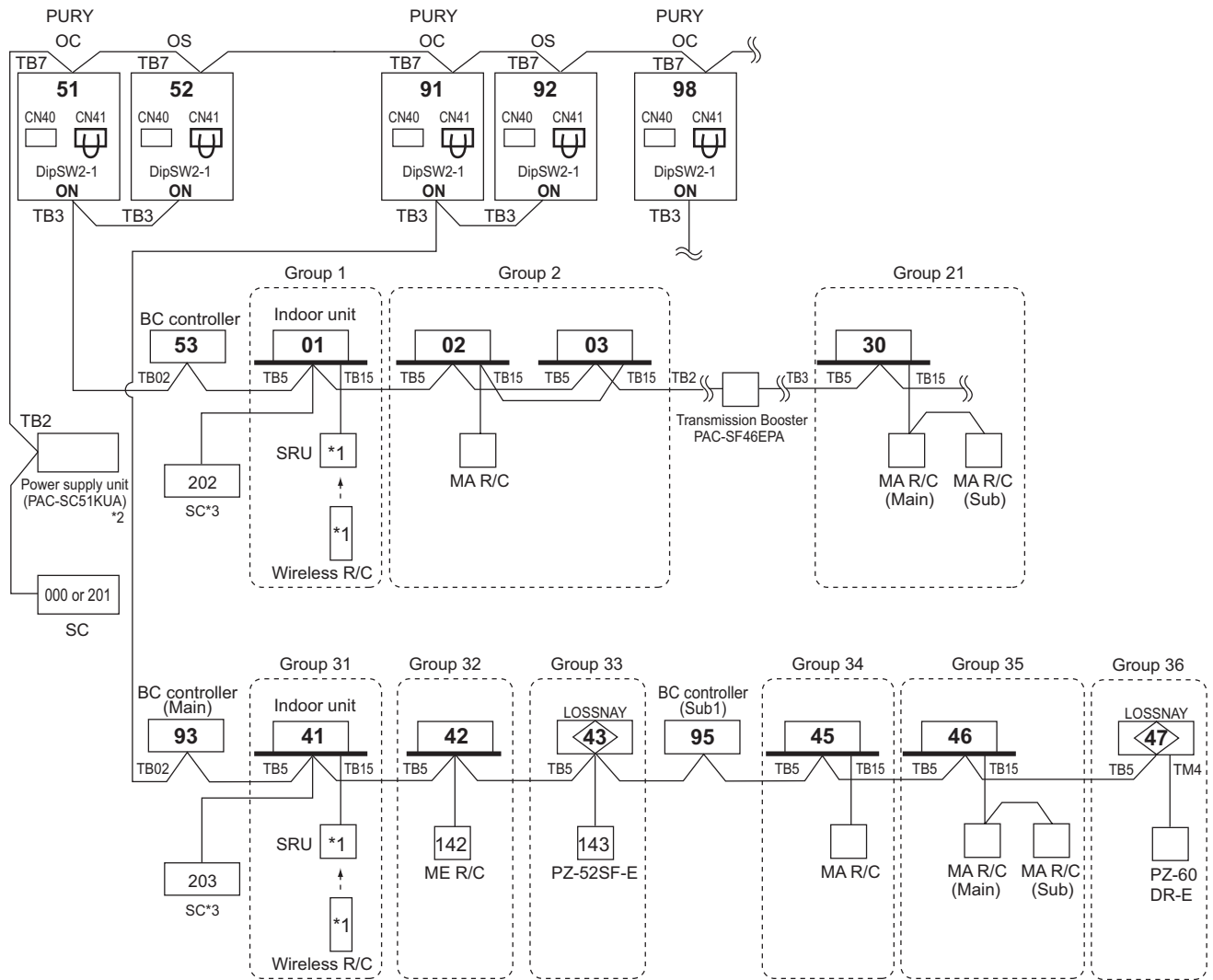
\*SC can be connected to TB3 side or TB7 side;

Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

#### NOTE:

1. Outdoor units OC and OS in one refrigerant circuit system are automatically detected. OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units and centralized controller.
3. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".
4. Indoor units should be set with a branch number.
5. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3-3. MA remote controller, Multi-refrigerant-system, System Controller at TB7/ TB3 side, Booster for long M-NET wiring



\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*2 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System.

For AG-150A, 24VDC should be used with the PAC-SC51KUA.

\*3 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".

AG-150A and GB-50ADA are for exclusive use as a "main" system controller and cannot be used as a "sub" system controller.

Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

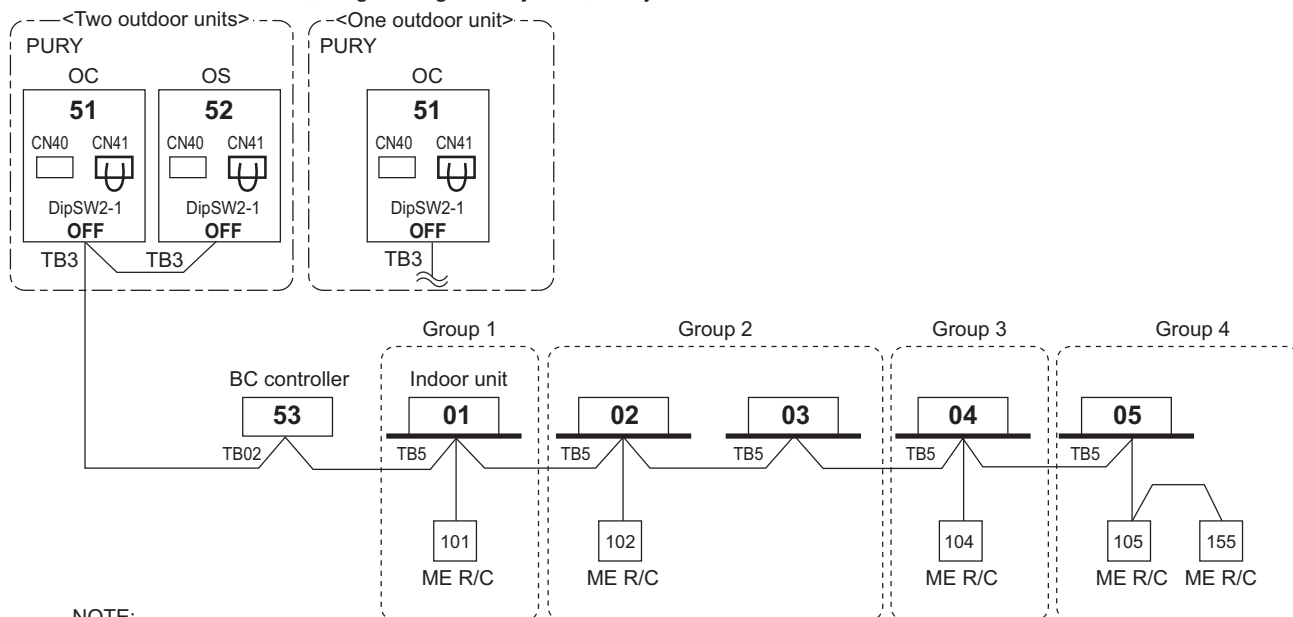
**NOTE:**

1. Outdoor units OC and OS in one refrigerant circuit system are automatically detected.  
OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units, LOSSNAY and system controller.
3. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to

**2-3 "System configuration restrictions".**

4. Indoor units should be set with a branch number.
5. Assign an address to each of the sub BC controllers which equals the sum of the smallest address of the indoor units that are connected to each sub BC controller and 50.
6. When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

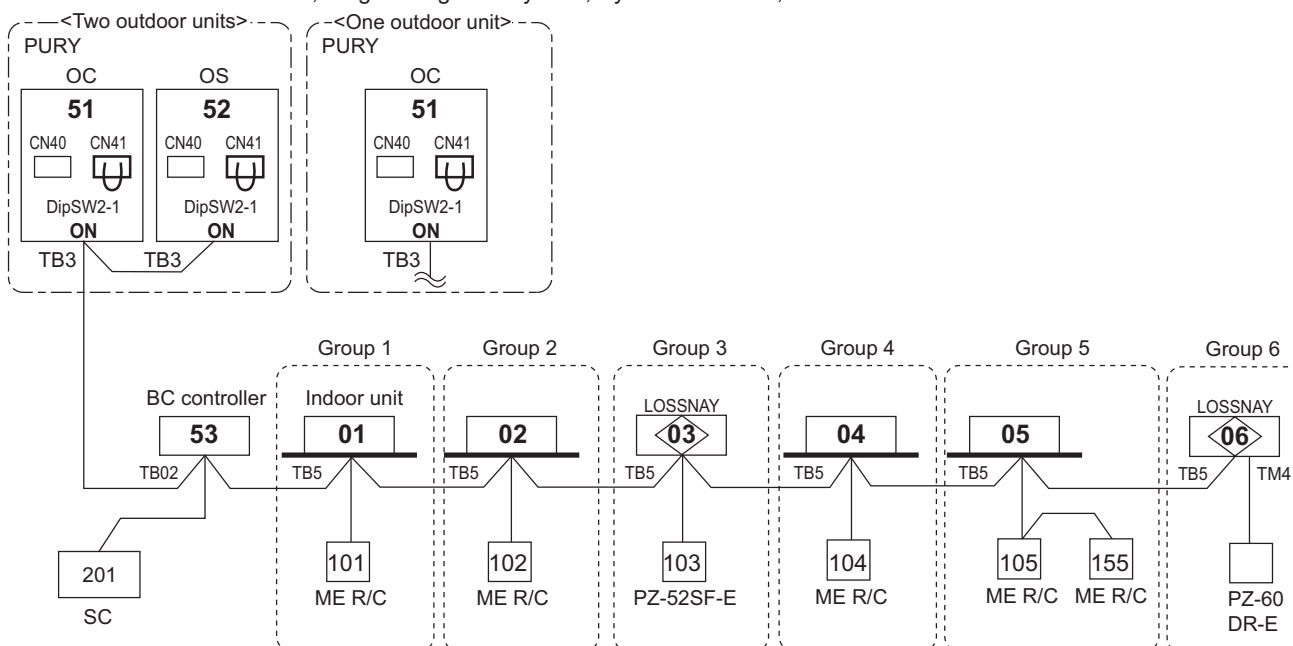
### 2-4-3-4. ME remote controller, Single-refrigerant-system, No system controller



**NOTE:**

1. Outdoor units OC and OS in one refrigerant circuit system are automatically detected. OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units, system controller and ME remote controllers.
3. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME RC consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".
4. Indoor units should be set with a branch number.

### 2-4-3-5. ME remote controller, Single-refrigerant-system, System controller, LOSSNAY



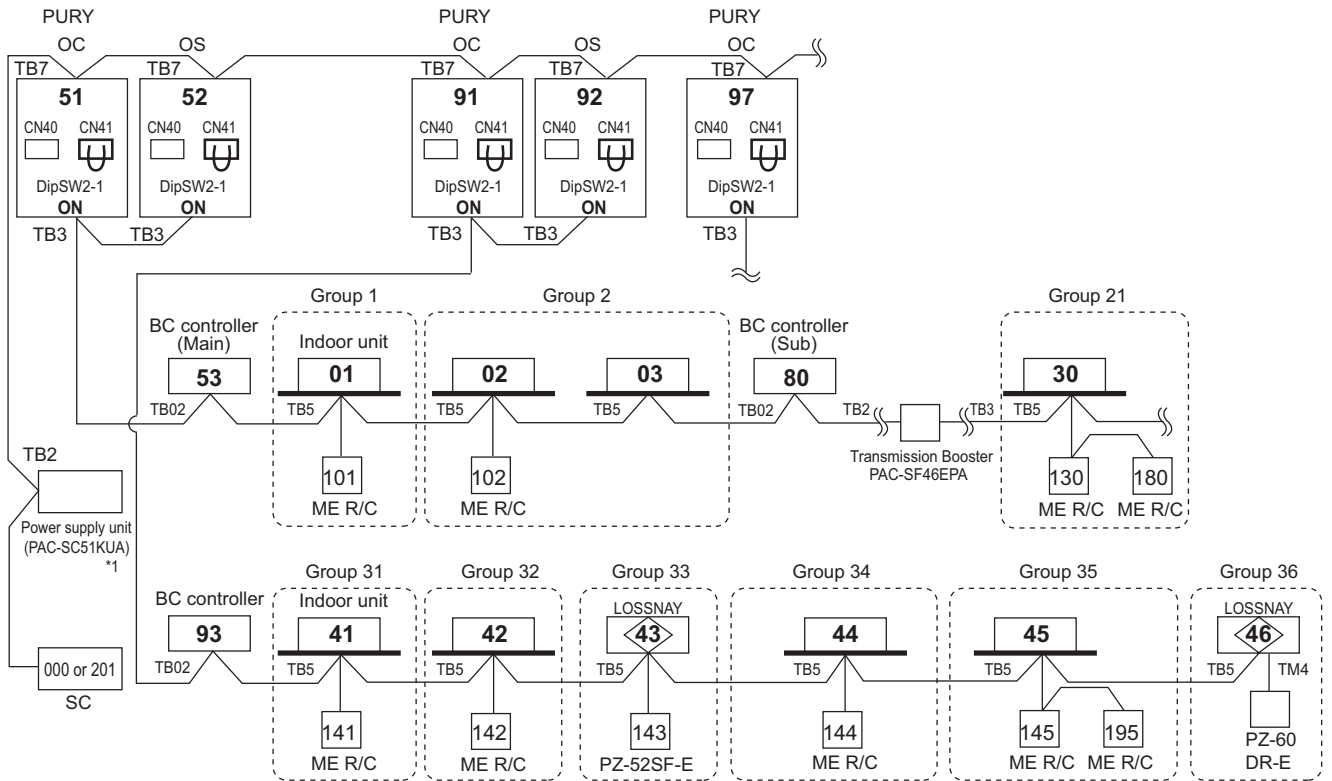
\*SC can be connected to TB3 side or TB7 side;

Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

**NOTE:**

1. Outdoor units OC and OS in one refrigerant circuit system are automatically detected. OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units, LOSSNAY centralized controller, ME remote controllers.
3. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".
4. Indoor units should be set with a branch number.

2-4-3-6. ME remote controller, Multi-refrigerant-system, System Controller at TB 7side, LOSSNAY, Booster for long M-NET wiring



\*1 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System. For AG-150A, 24VDC should be used with the PAC-SC51KUA.

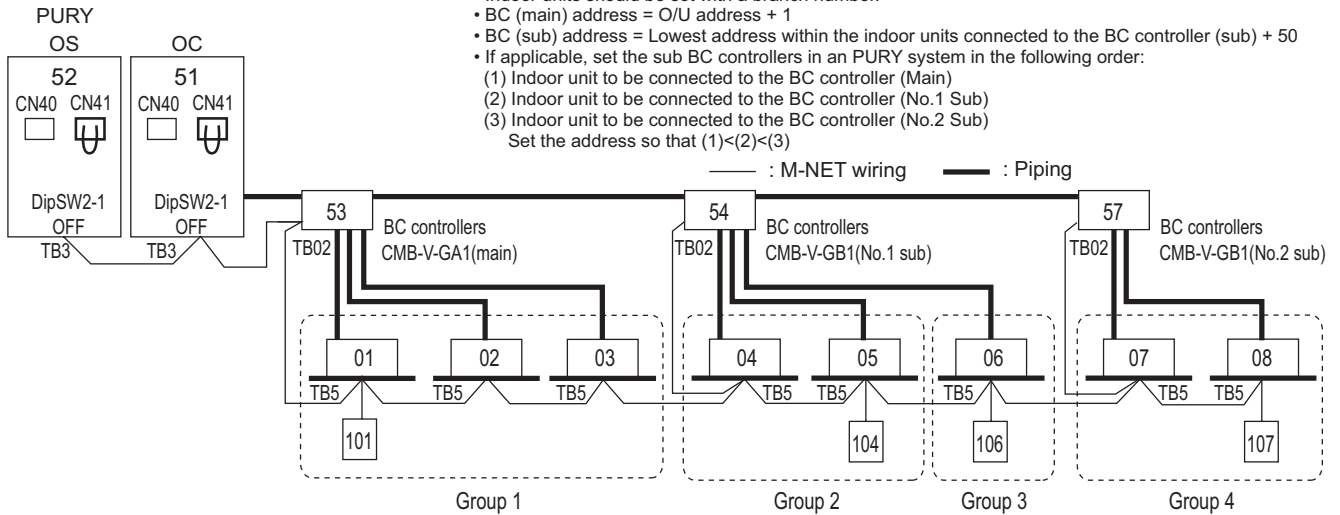
NOTE:

- Outdoor units OC and OS in one refrigerant circuit system are automatically detected. OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
- M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME RC consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".
- Indoor units should be set with a branch number.
- Assign an address to each of the sub BC controllers which equals the sum of the smallest address of the indoor units that are connected to each sub BC controller and 50. When the address assigned to sub BC controller overlaps those of any other units including outdoor units (OC/OS) or main BC controller, sub BC controller will be given priority to have the address.

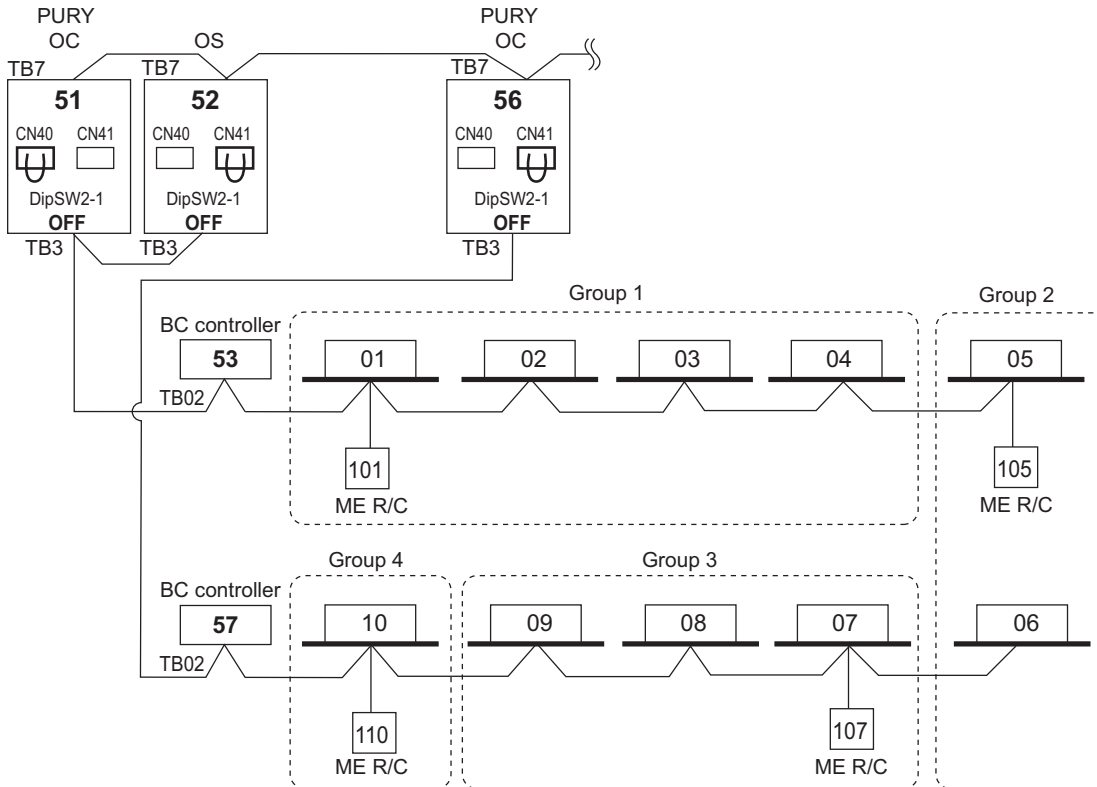
2-4-3-7. Example : BC, BC sub

NOTE

- Indoor units should be set with a branch number.
- BC (main) address = O/U address + 1
- BC (sub) address = Lowest address within the indoor units connected to the BC controller (sub) + 50
- If applicable, set the sub BC controllers in an PURY system in the following order:
  - Indoor unit to be connected to the BC controller (Main)
  - Indoor unit to be connected to the BC controller (No.1 Sub)
  - Indoor unit to be connected to the BC controller (No.2 Sub)
 Set the address so that (1)<(2)<(3)



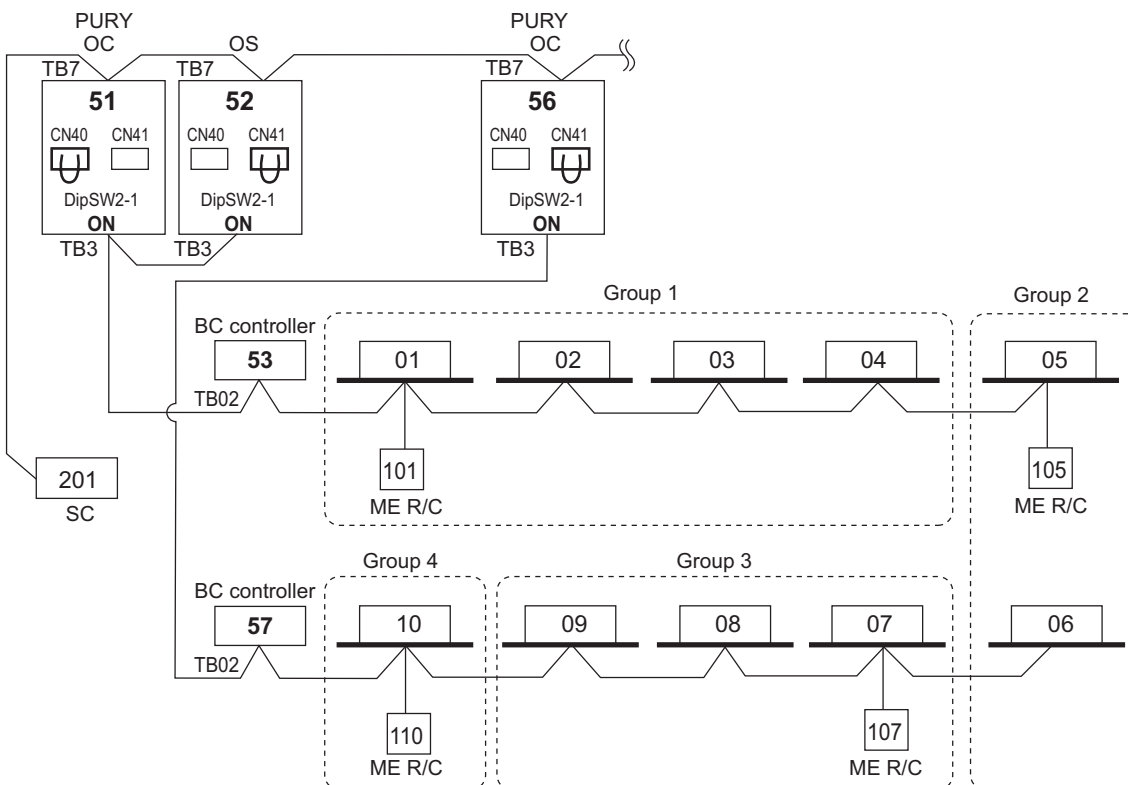
2-4-3-8. ME remote controller, Multi-refrigerant-system, No Power supply unit



NOTE

- It is necessary to change the connector to CN40 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.

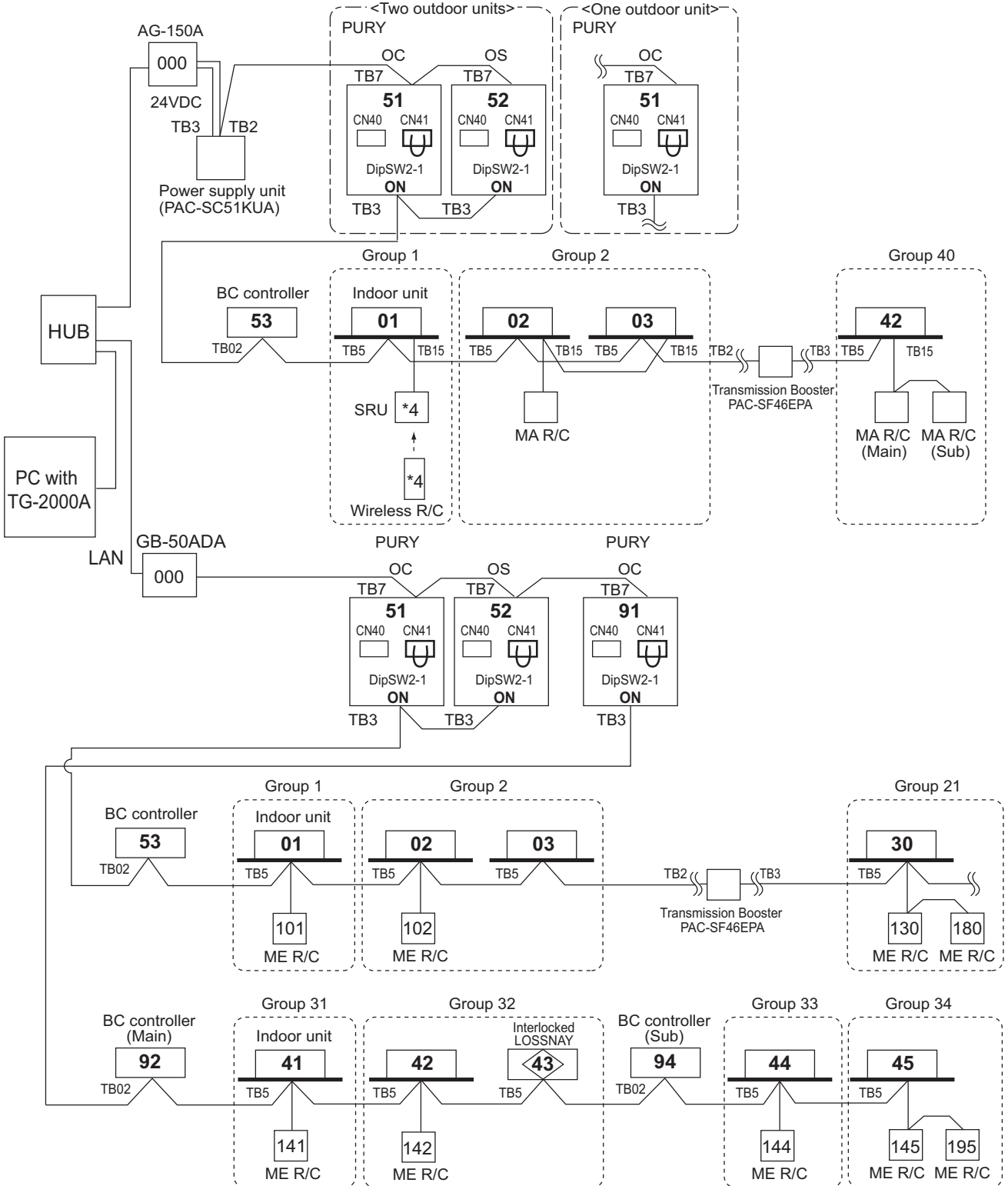
2-4-3-9. ME remote controller, Multi-refrigerant-system, System Controller at TB7 side, No Power supply unit



NOTE

- It is necessary to change the connector to CN40 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.

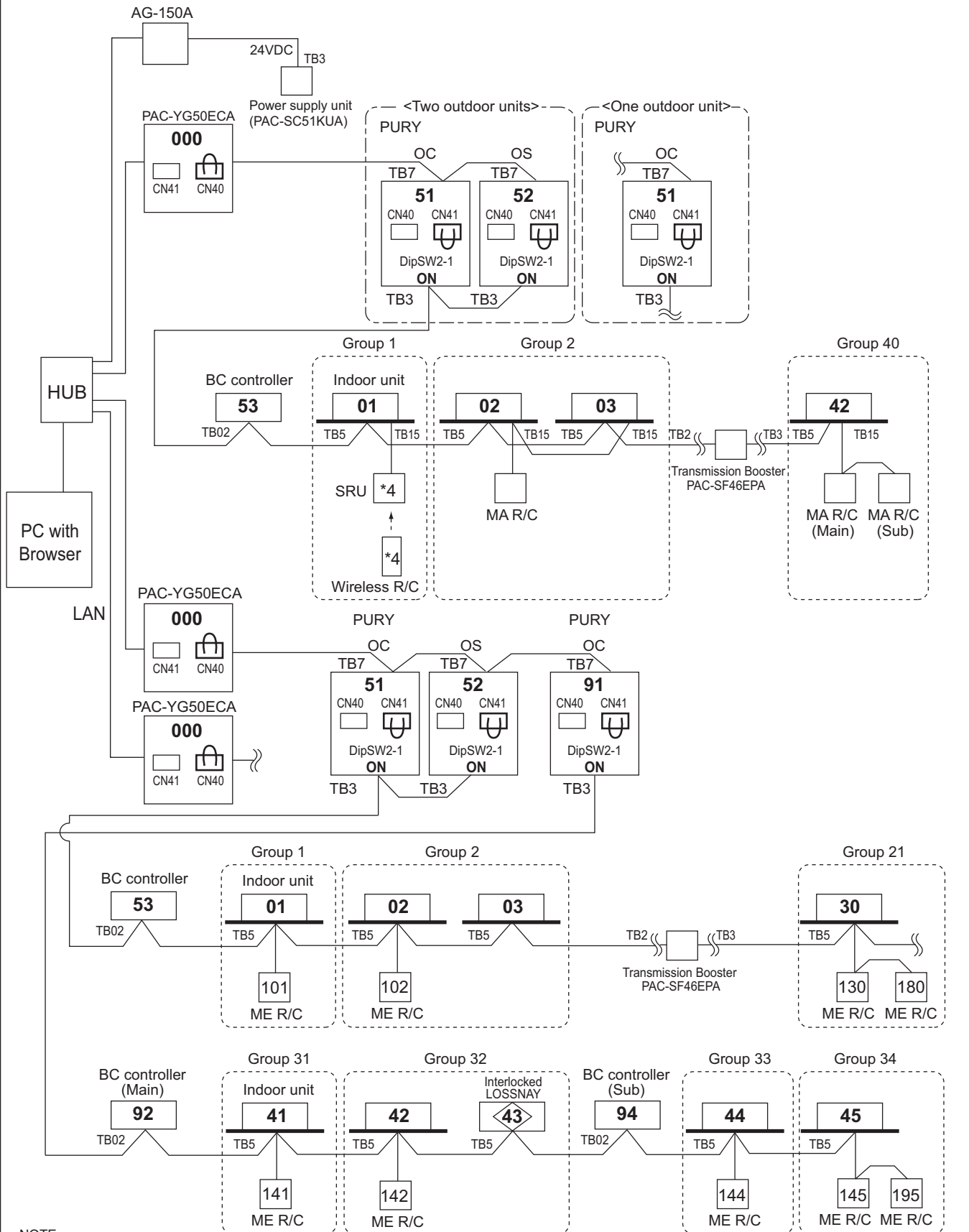
2-4-3-10. TG-2000A(\*1)+AG-150A(\*2),GB-50ADA  
 AG-150A can control max. 50 indoor units;  
 GB-50ADA can control max. 50 indoor units;  
 TG-2000A can control max. 40 AG-150A and GB-50ADA,\*3  
 TG-2000A can control max. 2000 indoor units.



\*1 TG-2000A (Ver.5.5 or later) supports AG-150A (Ver.1 series).  
 TG-2000A (Ver. 6.1 or later) supports AG-150A (Ver. 2.1 or later) connected with the expansion controller (EC).  
 TG-2000A (Ver. 6.3 or later) supports GB-50ADA.  
 \*2 AG-150A (Ver.1series) does not support the expansion controller (EC).  
 \*3 When AG-150A connected with the expansion controller (EC) is connected, the number of EC will be the maximum controllable number.  
 TG-2000A can control up to 40 EC or AG-150A without EC connection.  
 \*4 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.  
 \*5 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.



2-4-3-11. AG-150A+PAC-YG50ECA (Expansion controller)  
 AG-150A can control max. 150 indoor units/ via expansion controllers.

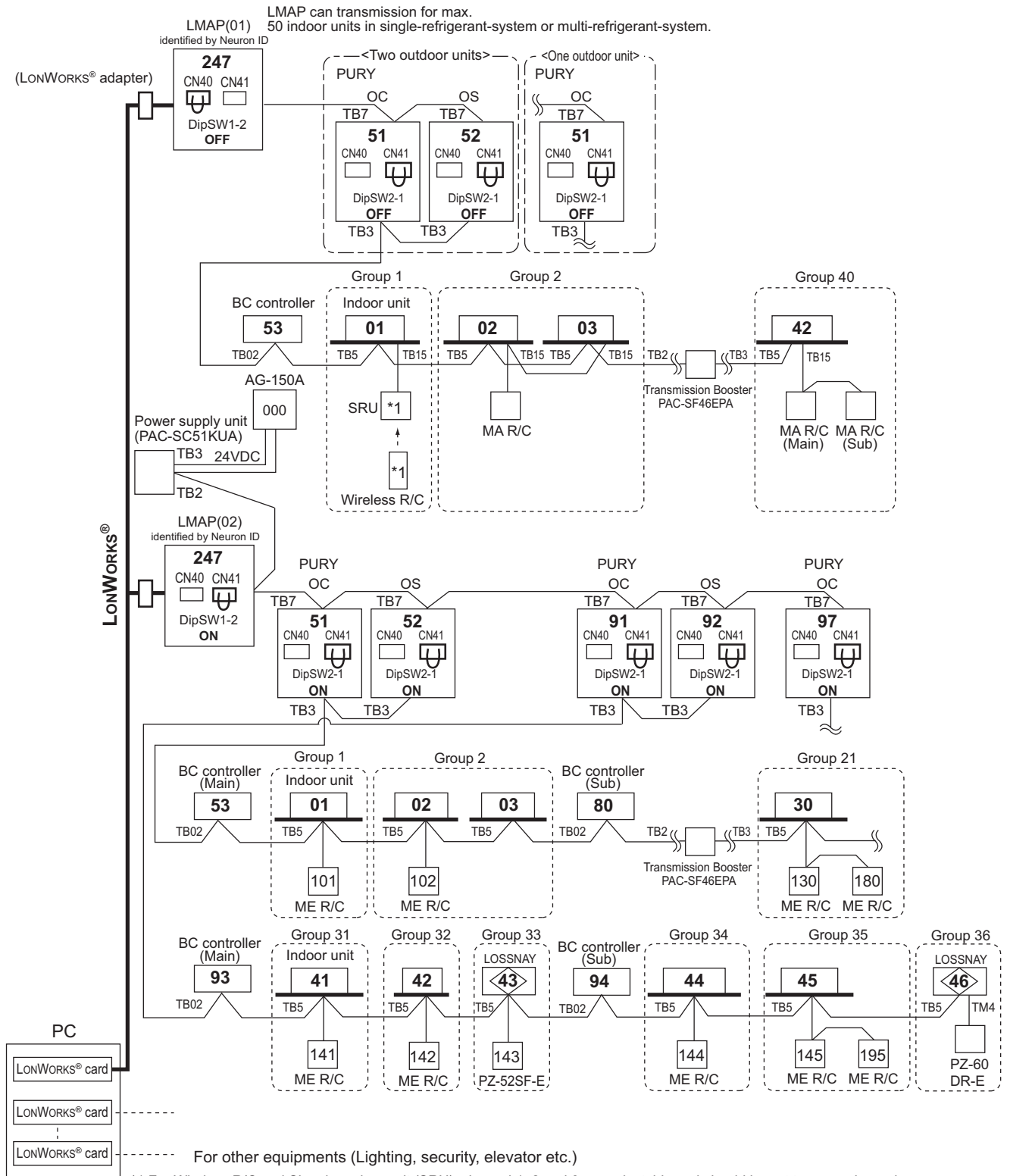


NOTE

- When connecting AG-150A to PAC-YG50ECA, TB2 for power supply unit does not need to be connected to AG-150A.
- \*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.
- \*2 AG-150A (Ver.1series) does not support the expansion controller (EC).
- \*3 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3-12. LMAP

LMAP can transmission for max. 50 indoor units;  
 If system controller (SC) is used, DipSW1-2 at LMAP and DipSW2-1 at Outdoor unit should set to "ON".  
 Change Jumper from CN41 to CN40 to activate power supply to LMAP itself for those LMAP connected without system controller (SC).

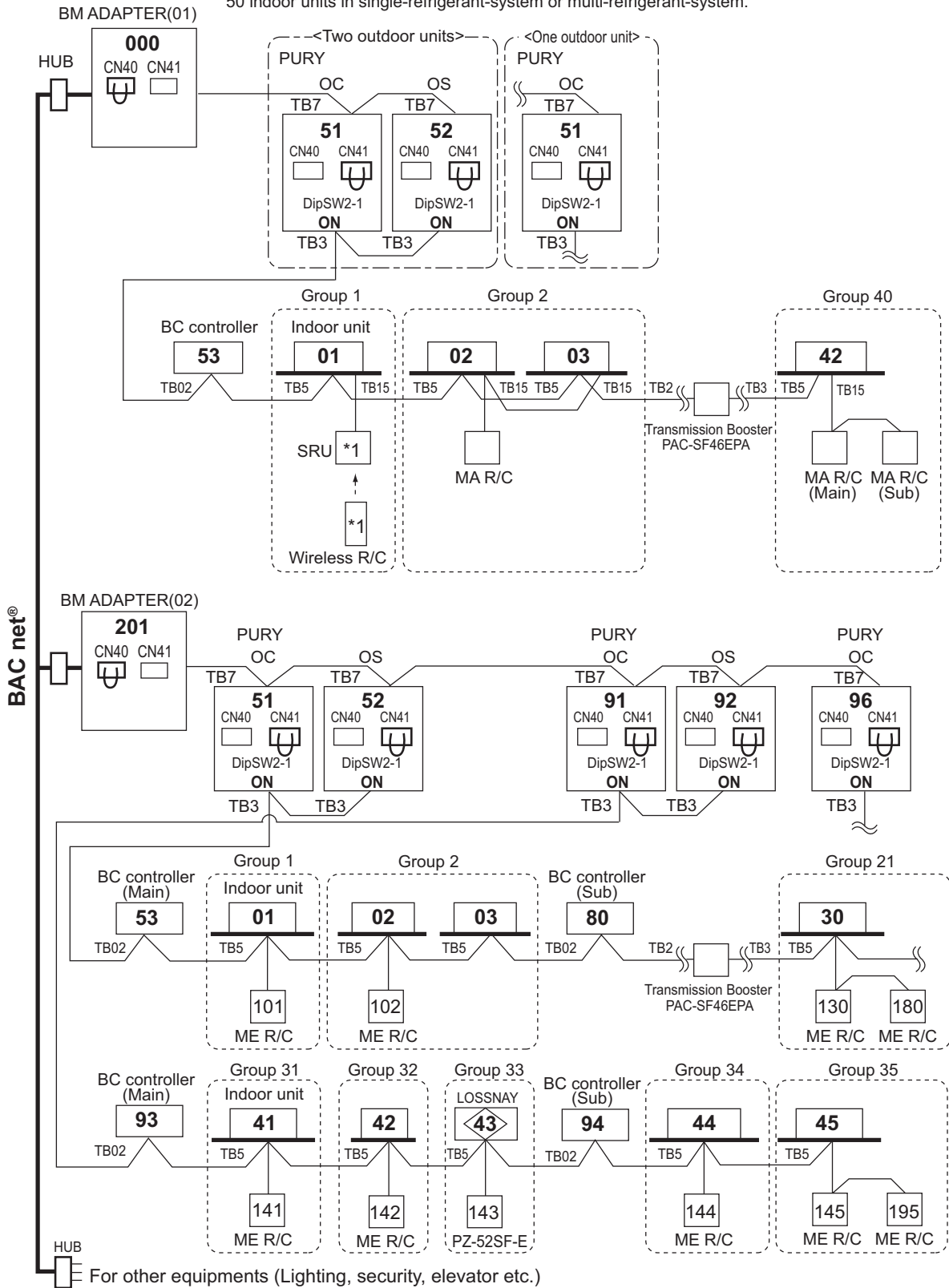


2-4-3-13. BM ADAPTER

BM ADAPTER can transmission for max. 50 indoor units;

Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.

BM ADAPTER can transmission for max. 50 indoor units in single-refrigerant-system or multi-refrigerant-system.



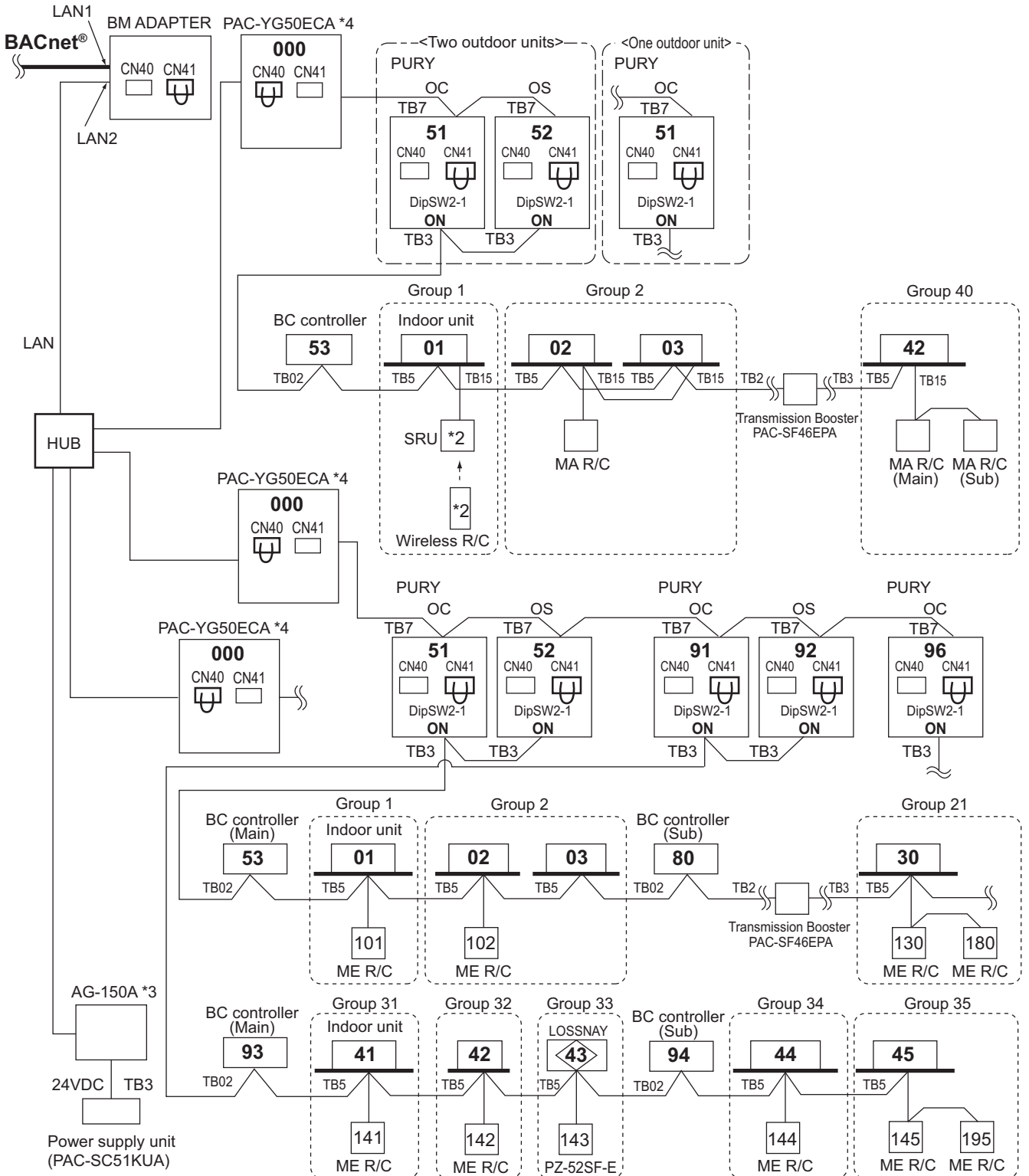
HUB For other equipments (Lighting, security, elevator etc.)

\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*2 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

2-4-3-14. BM ADAPTER+PAC-YG50ECA (Expansion controller)

BM ADAPTER(\*1) can transmission for max. 150 indoor units/via expansion controllers (PAC-YG50ECA).



NOTE

•It is not necessary to connect the M-NET transmission line to the TB3 on BM ADAPTER. Leave the power jumper of BM ADAPTER connected to CN41.

\*1 BM ADAPTER (Ver.2.00 or later) supports the expansion controller.

\*2 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*3 AG-150A (Ver.2.30 or later) supports the BM ADAPTER.

\*4 PAC-YG50ECA (Ver.1.30 or later) supports the BM ADAPTER.

\*5 Consult your dealer for restrictions when connecting both AG-150A and BM ADAPTER to PAC-YG50ECA.

\*6 When a PAR-31MAA is connected to a group, no other MA remote controllers can be connected to the same group.

#### 3-1. R410A 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 [623psi]. 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.

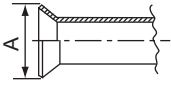
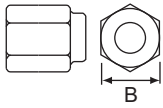
Size (mm)	Size (inch)	Radial thickness (mm)	Radial thickness (mil)	Pipe type
ø6.35	ø1/4"	0.8	[32]	Type-O
ø9.52	ø3/8"	0.8	[32]	Type-O
ø12.7	ø1/2"	0.8	[32]	Type-O
ø15.88	ø5/8"	1.0	[40]	Type-O
ø19.05	ø3/4"	1.2	[48]	Type-O
ø19.05	ø3/4"	1.0	[40]	Type-1/2H or H
ø22.2	ø7/8"	1.0	[40]	Type-1/2H or H
ø25.4	ø1"	1.0	[40]	Type-1/2H or H
ø28.58	ø1-1/8"	1.0	[40]	Type-1/2H or H
ø31.75	ø1-1/4"	1.1	[44]	Type-1/2H or H
ø34.93	ø1-3/8"	1.2	[48]	Type-1/2H or H
ø41.28	ø1-5/8"	1.4	[56]	Type-1/2H or H

\* For pipe sized ø19.05 (3/4") for R410A air conditioner, choice of pipe type is up to you.

\* The figures in the radial thickness column are based on the Japanese standards and provided only as a reference. Use pipes that meet the local standards.

#### Flare

Due to the relative higher operation pressure of R410A compared to R22, the flare connection should follow dimensions mentioned below so as to achieve enough the air-tightness.

Flare pipe	Pipe size	A (For R410A)	(mm[in.])	Flare nut	Pipe size	B (For R410A)	(mm[in.])
	ø6.35 [1/4"]	9.1			ø6.35 [1/4"]	17.0	
	ø9.52 [3/8"]	13.2			ø9.52 [3/8"]	22.0	
	ø12.70 [1/2"]	16.6			ø12.70 [1/2"]	26.0	
	ø15.88 [5/8"]	19.7			ø15.88 [5/8"]	29.0	
	ø19.05 [3/4"]	24.0			ø19.05 [3/4"]	36.0	

## 3-2. Piping Design

### 3-2-1. IF 16 ports or less are in use, i.e., if only one BC controller is in use with no sub BC controller

- Note1. No Header usable on PURY system.
- Note2. Indoor unit sized P100-P250 should be connected to BC controller via Y shape joint CMY-R160-J1 ;
- Note3. Indoor unit sized P100-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 + "M" x Quantity of bent.  
Equivalent piping length (m) = Actual length + "M" x Quantity of bent.
- Note5. Set DIP-SW 4-6 to ON of BC controller, in case of connected Indoor unit sized P100-P140 with 2 ports.
- Note6. It is also possible to connect Indoor unit sized P100-P140 with 1 port (set DIP-SW 4-6 to OFF).  
However, the cooling capacity decreases a little (For details, refer to the chapter OUTDOOR UNITS, R2 SERIES, 6-4. Correction by port counts of the BC controller).
- Note7. Individual indoor units grouped together to connect to the BC controller via one port cannot operate individually in heating and cooling modes at the same time. I.e., they must all function in either heating or cooling together.
- Note8. Indoor capacity is described as its model size. For example, PEFY-P63VML-E, its capacity is P63.
- Note9. Total down-stream Indoor capacity is the summary of the model size of Indoors down-stream.  
For example, PEFY-P63VML-E + PEFY-P32VML-E : Total Indoor capacity = P63 + P32 = P95.

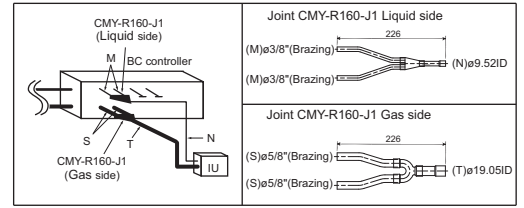


Fig. 3-2-1AA

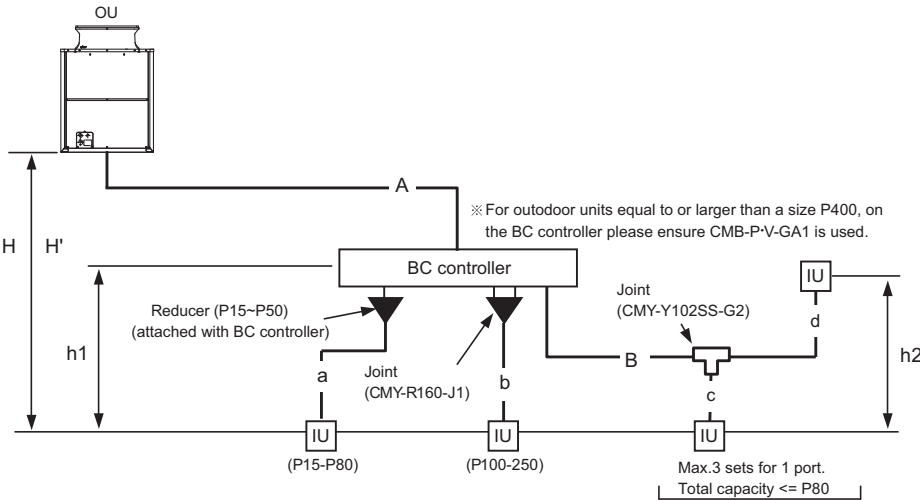


Fig. 3-2-1A Piping scheme

Table 3-2-1-1. Piping length limitation

Item	Piping in the figure	Max. length	Max. equivalent length
Total piping length	A+B+a+b+c+d	*1	-
Farthest IU from OU	A+B+d	165 [541']	190 [623']
Distance between OU and BC	A	110 [360'] *1	110 [360'] *1
Farthest IU from BC controller	B+d	40 [131'] *2*3	40 [131'] *3
Height between OU and IU (OU above IU)	H	50 [164'] *5	-
Height between OU and IU (OU under IU)	H'	40 [131'] *6	-
Height between IU and BC	h1	15 [49'] (10 [32']) *4	-
Height between IU and IU	h2	15 [49'] (10 [32']) *4	-

Table3-2-1-2. Bent equivalent length "M"

Outdoor Model	M (m/bent [ft./bent])
EP200YKM	0.35 [1.15']
EP250YKM	0.42 [1.38']
EP300YKM	0.42 [1.38']
EP350YKM	0.47 [1.54']
EP400YKM	0.50 [1.64']
EP450YKM	0.50 [1.64']

OU : Outdoor Unit ; IU : Indoor Unit ; BC : BC controller

\*1. Refer to the section 3-2-4.

\*2. Details refer to Fig.3-2-1-1

\*3. Farthest Indoor from BC controller "B+d" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig.3-2-1-1

\*4. Distance of Indoor sized P200, P250 from BC must be less than 10m, if any.

\*5. 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*6. 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

Fig. 3-2-1-1 Piping length and height between IU and BC controller

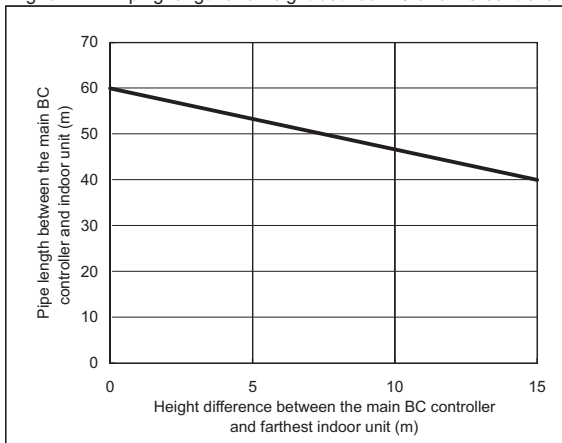


Table3-2-1-3. Piping "A" size selection rule (mm [in.])

Outdoor Model	Pipe(High pressure)	Pipe(Low pressure)
EP200YKM	ø15.88 [5/8"]	ø19.05 [3/4"]
EP250YKM	ø19.05 [3/4"]	ø22.20 [7/8"]
EP300YKM	ø19.05 [3/4"]	ø22.20 [7/8"]
EP350YKM	ø19.05 [3/4"]	ø28.58 [1-1/8"]
EP400YKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]
EP450YKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]

Table3-2-1-4. Piping "B" size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
P140 or less	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-1-5. Piping "a", "b", "c", "d" size selection rule (mm [in.])

Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P15 to P50, GUF-50RD(H)	ø6.35 [1/4"]	ø12.70 [1/2"]
P63 to P140, GUF-100RD(H)	ø9.52 [3/8"]	ø15.88 [5/8"]
P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P250	ø9.52 [3/8"]	ø22.20 [7/8"]

3-2-2. IF more than 16 ports are in use, or if there is more than one BC controller in use for one outdoor unit

- Note1. No Header usable on PURY system.
- Note2. Indoor unit sized P100-P250 should be connected to BC controller via Y shape joint CMY-R160-J1 ;
- Note3. Indoor unit sized P100-P250 does NOT share BC controller ports with other Indoor units ;
- Note4. As bends cause pressure loss on transportation of refrigerant, fewer bends design is better ;  
Piping length needs to consider the actual length and equivalent length which bends are counted.  
Equivalent piping length (m)=Actual piping length+“M” x Quantity of bent.
- Note5. Set DIP-SW 4-6 to ON of BC controller, in case of connected indoor unit sized P100-P140 with 2 ports.
- Note6. It is also possible to connect Indoor unit sized P100-P140 with 1 port (set DIP-SW 4-6 to OFF).  
However, the cooling capacity decreases a little (For details, refer to the chapter OUTDOOR UNITS, R2 SERIES, 6-4. Correction by port counts of the BC controller).
- Note7. Individual indoor units grouped together to connect to the BC controller via one port cannot operate individually in heating and cooling modes at the same time. I.e., they must all function in either heating or cooling together.
- Note8. For sub BC controller CMB-P-V-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P350 unit.  
For sub BC controller CMB-P1016V-HB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P450 unit.
- Note9. Indoor capacity is described as its model size. For example, PEFY-P63VML-E, its capacity is P63.
- Note10. Total down-stream Indoor capacity is the summary of the model size of Indoors down-stream.  
For example, PEFY-P63VML-E + PEFY-P32VML-E : Total Indoor capacity = P63 + P32 = P95.

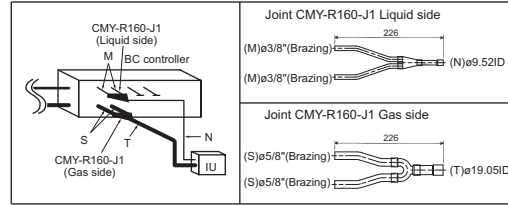


Fig. 3-2-2AA

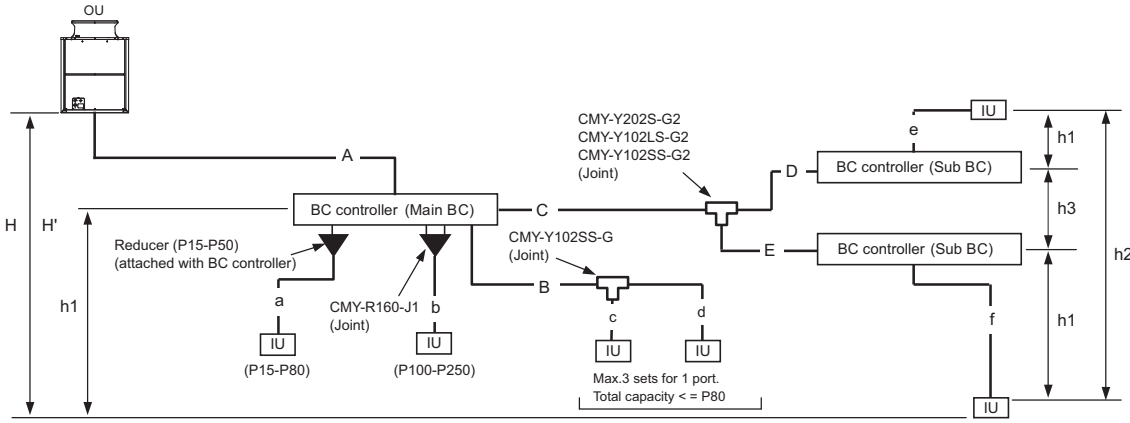


Fig. 3-2-2A Piping scheme

OU : Outdoor unit, IU : Indoor unit

Table 3-2-2-1. Piping length limitation

Item	Piping in the figure	Max. length	Max. equivalent length
Total piping length	A+B+C+D+E+a+b+c+d+e+f	*1	-
Farthest IU from OU	A+C+E+f	165 [541']	190 [623']
Distance between OU and BC	A	110 [360'] *1	110 [360'] *1
Farthest IU from BC controller	B+d or C+D+e or C+E+f	40 [131'] *2*3	40 [131'] *2*3
Height between OU and IU (OU above IU)	H	50 [164'] *6	-
Height between OU and IU (OU under IU)	H'	40 [131'] *7	-
Height between IU and BC	h1	15 [49'] (10 [32']) *4	-
Height between IU and IU	h2	15 [49'] (10 [32']) *4	-
Height between BC(Main or Sub) and BC(Sub)	h3	15 [49'] (10 [32']) *5	-

OU : Outdoor Unit ; IU : Indoor Unit ; BC : BC controller

\*1. Refer to the section 3-2-4.

\*2. Details refer to Fig.3-2-2-1

\*3. Farthest Indoor from BC controller "B+d or C+D+e or C+E+f" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig.3-2-2-1

\*4. Distance of Indoor sized P200, P250 from BC must be less than 10m, if any.

\*5. When using 2 Sub BC controllers, max. height "h3" should be considered.

\*6. 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*7. 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

Fig. 3-2-2-1 Piping length and height between IU and BC controller

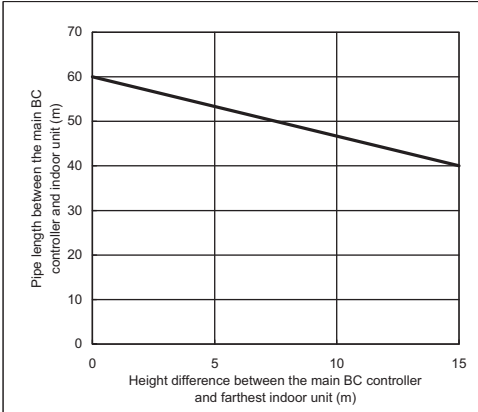


Table3-2-2-2. Bent equivalent length "M"

Outdoor Model	M (m/bent [ft./bent])
EP200YKM	0.35 [1.15']
EP250YKM	0.42 [1.38']
EP300YKM	0.42 [1.38']
EP350YKM	0.47 [1.54']
EP400YKM	0.50 [1.64']
EP450YKM	0.50 [1.64']

Table3-2-2-3. Piping "A" size selection rule (mm [in.])

Outdoor Model	Pipe(High pressure)	Pipe(Low pressure)
EP200YKM	ø15.88 [5/8"]	ø19.05 [3/4"]
EP250YKM	ø19.05 [3/4"]	ø22.20 [7/8"]
EP300YKM	ø19.05 [3/4"]	ø22.20 [7/8"]
EP350YKM	ø19.05 [3/4"]	ø28.58 [1-1/8"]
EP400YKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]
EP450YKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]

Table3-2-2-4. Piping "B" size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
P140 or less	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-2-5. Piping "C", "D", "E" size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(HP Gas)	Pipe(LP Gas)
P200 or less	ø9.52 [3/8"]	ø15.88 [5/8"]	ø19.05 [3/4"]
P201 to P300	ø9.52 [3/8"]	ø19.05 [3/4"]	ø22.20 [7/8"]
P301 to P350	ø12.70 [1/2"]	ø19.05 [3/4"]	ø28.58 [1-1/8"]
P351 to P400	ø12.70 [1/2"]	ø22.20 [7/8"]	ø28.58 [1-1/8"]
P401 to P450	ø15.88 [5/8"]	ø22.20 [7/8"]	ø28.58 [1-1/8"]

HP : High pressure, LP:Low pressure

Table3-2-2-6. Piping "a", "b", "c", "d", "e", "f" size selection rule (mm [in.])

Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P15 to P50, GUF-50RD(H)	ø6.35 [1/4"]	ø12.70 [1/2"]
P63 to P140, GUF-100RD(H)	ø9.52 [3/8"]	ø15.88 [5/8"]
P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P250	ø9.52 [3/8"]	ø22.20 [7/8"]

## 3-2-3. IF more than 16 ports are in use, or if there is more than one BC controller in use for two outdoor units

- Note1. No Header usable on PURY system.
- Note2. Indoor unit sized P100-P250 should be connected to BC controller via Y shape joint CMY-R160-J1 ;
- Note3. Indoor unit sized P100-P250 does NOT share BC controller ports with other Indoor units ;
- Note4. As bends cause pressure loss on transportation of refrigerant, fewer bends design is better ;
- Piping length needs to consider the actual length and equivalent length which bends are counted.
- Equivalent piping length (m)=Actual piping length+M x Quantity of bent.
- Note5. Set DIP-SW 4-6 to ON of BC controller, in case of connected indoor unit sized P100-P140 with 2 ports.
- Note6. It is also possible to connect indoor unit sized P100-P140 with 1 port (set DIP-SW 4-6 to OFF).
- However, the cooling capacity decreases a little (For details, refer to the chapter OUTDOOR UNITS, R2 SERIES, 6-4. Correction by port counts of the BC controller).
- Note7. Individual indoor units grouped together to connect to the BC controller via one port cannot operate individually in heating and cooling modes at the same time. I.e., they must all function in either heating or cooling together.
- Note8. For sub BC controller CMB-P-V-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P350 unit.
- For sub BC controller CMB-P1016V-HB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P450 unit.
- Note9. Indoor capacity is described as its model size. For example, PEFY-P63VML-E, its capacity is P63.
- Note10. Total down-stream indoor capacity is the summary of the model size of Indoors down-stream.
- For example, PEFY-P63VML-E + PEFY-P32VML-E : Total Indoor capacity = P63 + P32 = P95.

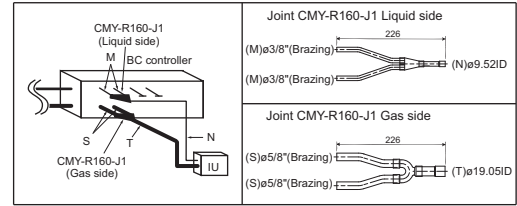


Fig. 3-2-3AA

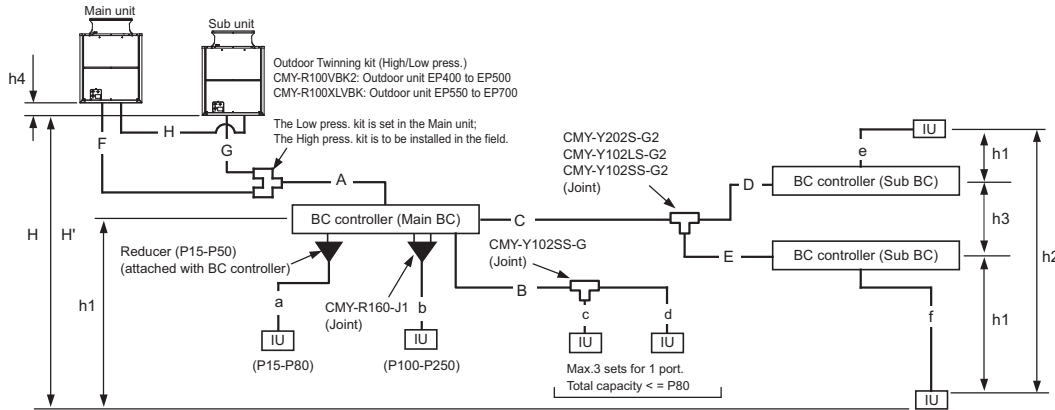


Fig. 3-2-3A Piping scheme

IU : Indoor unit

Table3-2-3-1. Piping length limitation

Item	Piping in the figure	Max. length	Max. equivalent length
Total piping length	F+G+H+A+B+C+D+E+a+b+c+d+e+f	*1	-
Farthest IU from OU	F(G)+A+C+E+f	165 [541]	190 [623]
Distance between OU and BC	F(G)+A	110 [360] *1	110 [360] *1
Farthest IU from BC controller	B+d or C+D+e or C+E+f	40 [131] *2*3	40 [131] *2*3
Height between OU and IU (OU above IU)	H	50 [164] *6	-
Height between OU and IU (OU under IU)	H'	40 [131] *7	-
Height between IU and BC	h1	15 [49] (10 [32]) *4	-
Height between IU and IU	h2	15 [49] (10 [32]) *4	-
Height between BC(Main or Sub) and BC(Sub)	h3	15 [49] (10 [32]) *5	-
Distance between Main unit and Sub unit	F+G or H	5 [16]	-
Height between Main unit and Sub unit	h4	0.1 [0.3]	-

Table3-2-3-2. Bent equivalent length "M"

Outdoor Model	M (m/bent [ft./bent])
EP400YSKM	0.50 [1.64]
EP450YSKM	0.50 [1.64]
EP500YSKM	0.50 [1.64]
EP550YSKM	0.50 [1.64]
EP600YSKM	0.50 [1.64]
EP650YSKM	0.50 [1.64]
EP700YSKM	0.70 [2.29]

OU : Outdoor Unit ; IU : Indoor Unit ; BC : BC controller

\*1. Refer to the section 3-2-4.

\*2. Details refer to Fig.3-2-3-1

\*3. Farthest Indoor from BC controller "B+d or C+D+e or C+E+f" can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to Fig.3-2-3-1

\*4. Distance of Indoor sized P200, P250 from BC must be less than 10m, if any.

\*5. When using 2 Sub BC controllers, max. height "h3" should be considered.

\*6. 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*7. 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

Fig. 3-2-3-1 Piping length and height between IU and BC controller

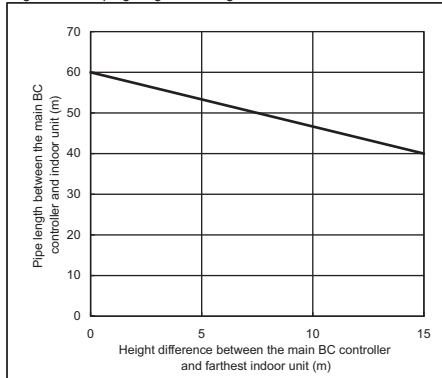


Table3-2-3-3. Piping "A" size selection rule (mm [in.])

Outdoor Model	Pipe(High pressure)	Pipe(Low pressure)
EP400YSKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]
EP450YSKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]
EP500YSKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]
EP550YSKM	ø28.58 [1-1/8"]	ø28.58 [1-1/8"]
EP600YSKM	ø28.58 [1-1/8"]	ø28.58 [1-1/8"]
EP650YSKM	ø28.58 [1-1/8"]	ø28.58 [1-1/8"]
EP700YSKM	ø28.58 [1-1/8"]	ø34.93 [1-3/8"]

Table3-2-3-4. Piping "B" size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(Gas)
P140 or less	ø9.52 [3/8"]	ø15.88 [5/8"]

Table3-2-3-5. Piping "C", "D", "E" size selection rule (mm [in.])

Total down-stream Indoor capacity	Pipe(Liquid)	Pipe(HP Gas)	Pipe(LP Gas)
P200 or less	ø9.52 [3/8"]	ø15.88 [5/8"]	ø19.05 [3/4"]
P201 to P300	ø9.52 [3/8"]	ø19.05 [3/4"]	ø22.20 [7/8"]
P301 to P350	ø12.70 [1/2"]	ø19.05 [3/4"]	ø28.58 [1-1/8"]
P351 to P400	ø12.70 [1/2"]	ø22.20 [7/8"]	ø28.58 [1-1/8"]
P401 to P450	ø15.88 [5/8"]	ø22.20 [7/8"]	ø28.58 [1-1/8"]

HP : High pressure, LP:Low pressure

Table3-2-3-6. Piping "F", "G", "H" size selection rule (mm [in.])

Outdoor Model	Pipe(High pressure)	Pipe(Low pressure)
EP200YKM	ø15.88 [5/8"]	ø19.05 [3/4"]
EP250YKM	ø19.05 [3/4"]	ø22.20 [7/8"]
EP300YKM	ø19.05 [3/4"]	ø22.20 [7/8"]
EP350YKM	ø19.05 [3/4"]	ø28.58 [1-1/8"]
EP400YKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]
EP450YKM	ø22.20 [7/8"]	ø28.58 [1-1/8"]

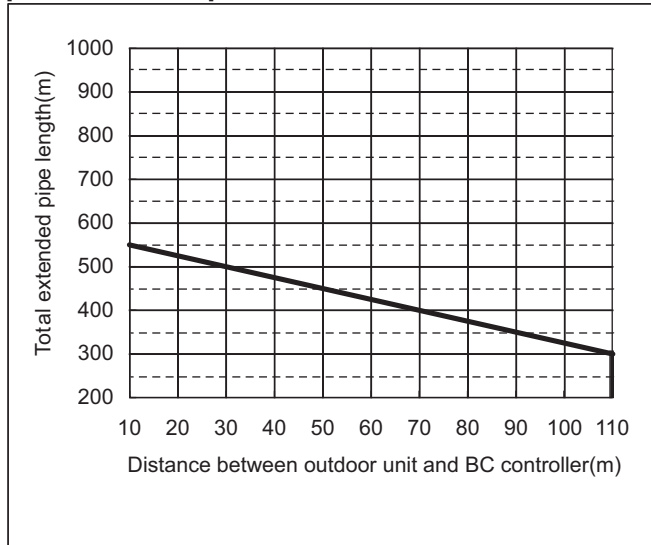
Table3-2-3-7. Piping "a", "b", "c", "d", "e", "f" size selection rule (mm [in.])

Indoor Unit size	Pipe(Liquid)	Pipe(Gas)
P15 to P50	ø6.35 [1/4"]	ø12.70 [1/2"]
P63 to P140	ø9.52 [3/8"]	ø15.88 [5/8"]
P200	ø9.52 [3/8"]	ø19.05 [3/4"]
P250	ø9.52 [3/8"]	ø22.20 [7/8"]

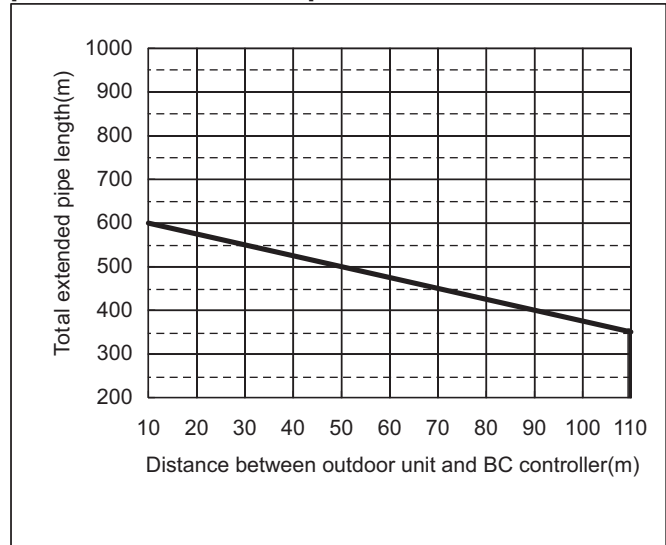


## 3-2-4. Total piping length restrictions

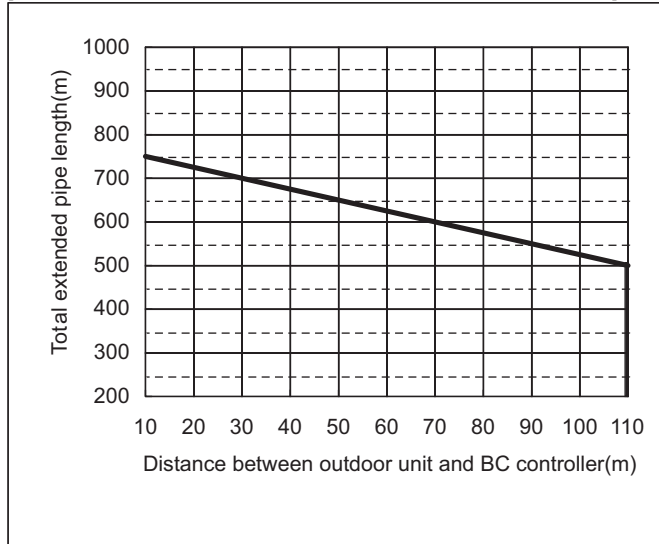
[PURY-EP200YKM-A]



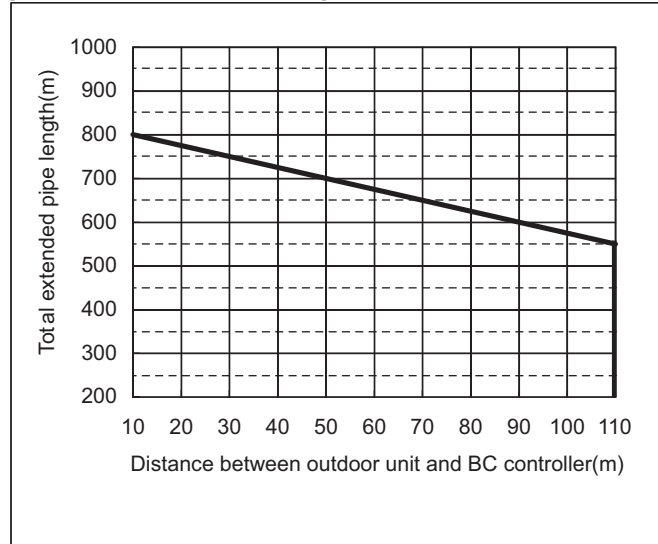
[PURY-EP250, 300, 350YKM-A]



[PURY-EP400, 450YKM-A, PURY-EP400, 450, 500, 550YKM-A]

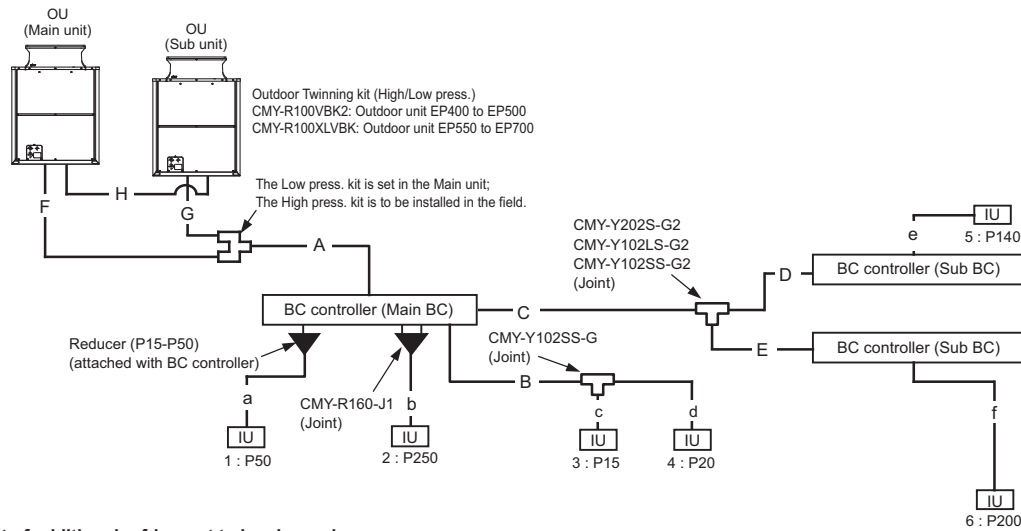


[PURY-EP600, 650, 700YKM-A]



## 3-3. Refrigerant charging calculation

Sample connection (with 3 BC controller and 6 indoor units)



**Amount of additional refrigerant to be charged**

Refrigerant for extended pipes (field piping) is not factory-charged to the outdoor unit. Add an appropriate amount of refrigerant for each pipes on site. Record the size of each high pressure pipe and liquid pipe, and the amount of refrigerant that was charged on the outdoor unit for future reference.

**Calculating the amount of additional refrigerant to be charged**

The amount of refrigerant to be charged is calculated with the size of the on-site-installed high pressure pipes and liquid pipes, and their length. Calculate the amount of refrigerant to be charged according to the formula below. Round up the calculation result to the nearest 0.1kg. (i.e., 16.08 kg = 16.1 kg)

**<Amount of additional refrigerant to be charged>**

**Calculating the amount of additional refrigerant to be charged**

Additional refrigerant charge (kg)	=	High-pressure pipe size Total length of ø28.58 mm (m) × 0.36 (kg/m)	+	High-pressure pipe size Total length of ø22.2 mm (m) × 0.23 (kg/m)	+	High-pressure pipe size Total length of ø19.05 mm (m) × 0.16 (kg/m)	+	High-pressure pipe size Total length of ø15.88 mm (m) × 0.11 (kg/m)	+	Liquid Piping Size Total length of ø15.88 mm (m) × 0.2 (kg/m)
	+	Liquid Piping Size Total length of ø12.7 mm (m) × 0.12 (kg/m)	+	Liquid Piping Size Total length of ø9.52 mm (m) × 0.06 (kg/m)	+	Liquid Piping Size Total length of ø6.35 mm (m) × 0.024 (kg/m)	+	Total Outdoor Unit Model Name	Charged amount per BC controller (Standard/Main)	BC controller (Main) HA-Type
							EP200	3.0 kg	2.0 kg	
							EP250	4.5 kg		
							EP300			
							EP350 ~ EP700	6.0 kg		

BC controller (Sub) Total Units	BC controller (Sub) Per Unit	Total Capacity of Connected Indoor Units	Per Indoor Unit	Total Outdoor Unit Model Name	Charged amount for Outdoor Unit(s)
1	1.0 kg	Models ~ 80	2.0 kg	Single EP200 ~ EP250YKM	0 kg
2	2.0 kg	Models 81 ~ 160	2.5 kg	Single EP300 ~ EP450YKM	5.5 kg
		Models 161 ~ 330	3.0 kg	Combination EP400 ~ EP500YSKM	0 kg
		Models 331 ~ 390	3.5 kg	Combination EP550YSKM	5.5 kg
		Models 391 ~ 480	4.5 kg	Combination EP600 ~ EP700YSKM	11.0 kg
		Models 481 ~ 630	5.0 kg		
		Models 631 ~ 710	6.0 kg		
		Models 711 ~ 800	8.0 kg		
		Models 801 ~ 890	9.0 kg		
		Models 891 ~ 1070	10.0 kg		
		Models 1071 ~ 1250	12.0 kg		
		Models 1251 ~	14.0 kg		

**Amount of factory charged refrigerant**

Outdoor unit Model	Charged amount
EP200	11.8 kg
EP250	
EP300	
EP350	
EP400	
EP450	

**Sample calculation**

Indoor	1: 80	A: ø28.58	40m	a: ø9.52	10m
	2: 250	B: ø9.52	10m	b: ø9.52	5m
	3: 32	C: ø9.52	20m	c: ø6.35	5m
	4: 40	D: ø9.52	5m	d: ø6.35	10m
	5: 32	E: ø9.52	5m	e: ø6.35	5m
	6: 63	F: ø22.2	3m	f: ø9.52	5m
		G: ø19.05	1m		
Outdoor	EP550				

The total length of each liquid line is as follows:

ø28.58: A = 40 m  
 ø22.2: F = 3 m  
 ø19.05: G = 1 m  
 ø9.52: C + D + E + a + b + f = 50 m  
 ø6.35: c + d + e = 20 m

Therefore,

<Calculation example>

Additional refrigerant charge  
 = 40 × 0.36 + 3 × 0.23 + 1 × 0.16 + 50 × 0.06 + 20 × 0.024 + 6 + 2 + 5 + 5.5  
 = 37.3 kg

**Limitation of the amount of refrigerant to be charged**

The above calculation result of the amount of refrigerant to be charged must become below the value in the table below.

Outdoor unit model	EP200 YKM	EP250 YKM	EP300 YKM	EP350 YKM	EP400 YKM	EP450 YKM	EP400 YSKM	EP450 YSKM	EP500 YSKM	EP550 YSKM	EP600 YSKM	EP650 YSKM	EP700 YSKM
Maximum amount of refrigerant *1	27.3kg	34.0kg	35.0kg	39.7kg	46.7kg	53.7kg	47.5kg	53.7kg	62.9kg	69.6kg	73.3kg	74.8kg	74.8kg

\*1 Amount of additional refrigerant to be charged on site

### 4-1. Requirement on installation site

1. No direct thermal radiation to the unit.
2. No possibility of annoying the neighbors by the sound of the unit.

**Valves and refrigerant flow on the outdoor unit may generate noise.**

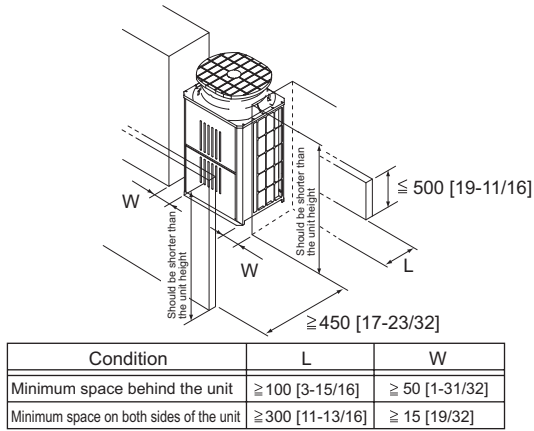
3. Avoid the sites where strong winds blow.
4. With strength to bear the weight of the unit.
5. Drain flow from the unit is cared at heating mode.
6. Enough space for installation and service as shown at 4-2.
7. Avoid the sites where acidic solutions or chemical sprays (sulfur series) are used frequently.
8. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.

## 4-2. Spacing

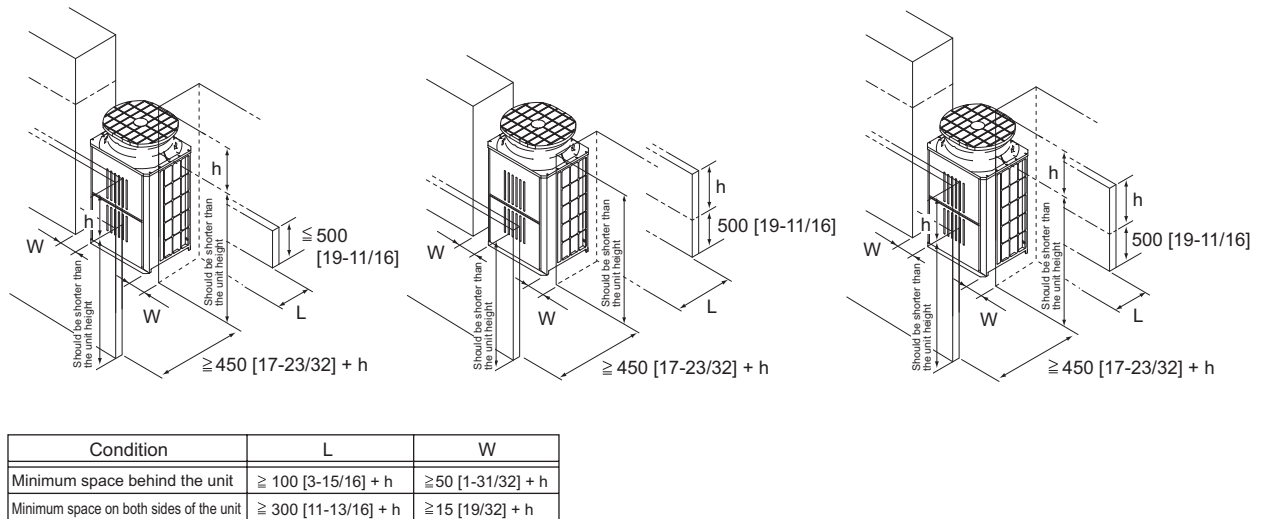
### In case of single installation

- Secure enough space around the unit as shown in the figure.
- If the wall height exceeds the height limit, widen the space labeled "L" and "W" by the amount that exceeds the limit (labeled <math>h</math> in the figure).

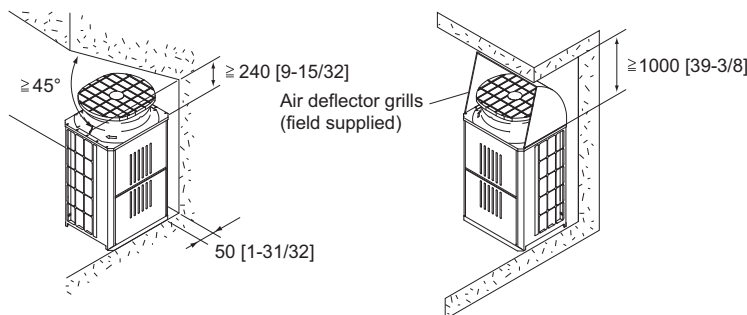
#### (1) Walls are lower than the height limit.



#### (2) If the wall height (H) of the front, rear or side exceeds the wall height restriction



#### (3) If there are obstacles at the upper part of the unit



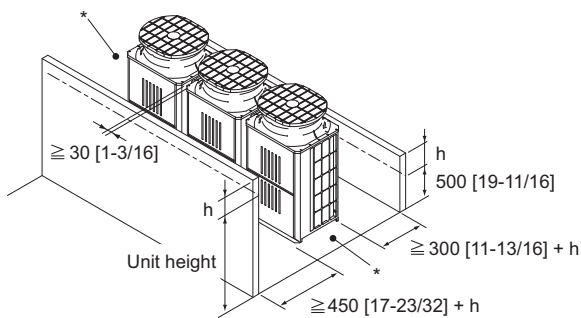
(Unit : mm [in.])

## In case of collective installation and continuous installation

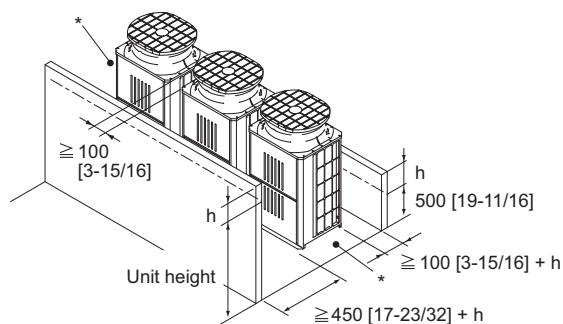
- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and passageways between groups of units as shown in the figures.  
\* Leave both sides of each group of units open.
- As with single installation, if the wall height exceeds the height limit, widen the space in the front and the back of a given group of units by the amount that exceeds the limit (labeled <math>h</math> in the figure).
- If there is a wall at both the front and the rear of the unit, install up to six units (three units: EP300, 350, 400, 450) consecutively in the side direction and provide a space of 1000mm or more as inlet space/passage space for each six units (three units: EP300, 350, 400, 450).

### (1) Side-by-side installation

<The space on both sides of a given group of units is minimum.>

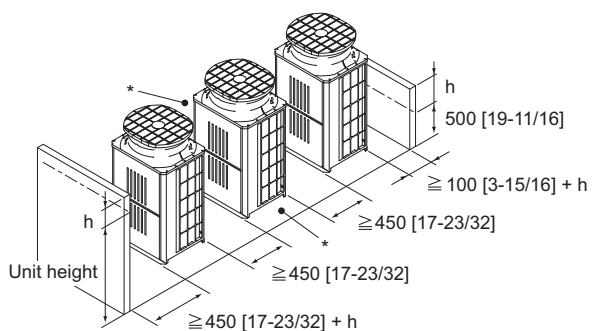


<The space on both sides of a given group of units is minimum.>

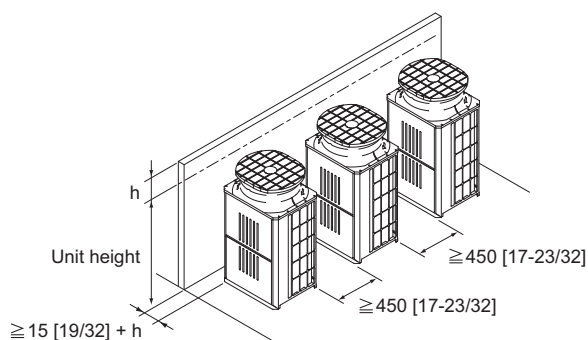


### (2) Face-to-face installation

<There are walls in the front and the back of a given group of units.>

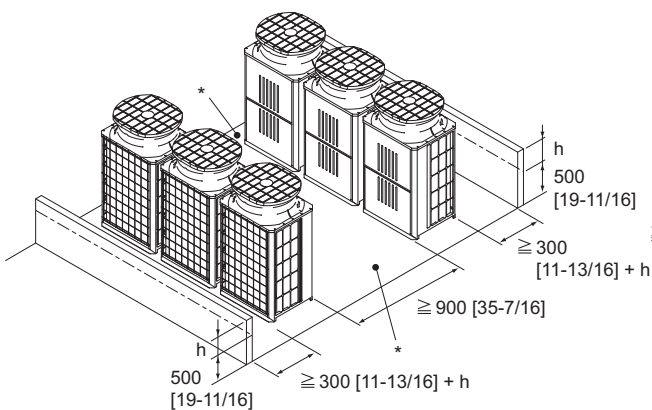


<There is a wall on one side.>

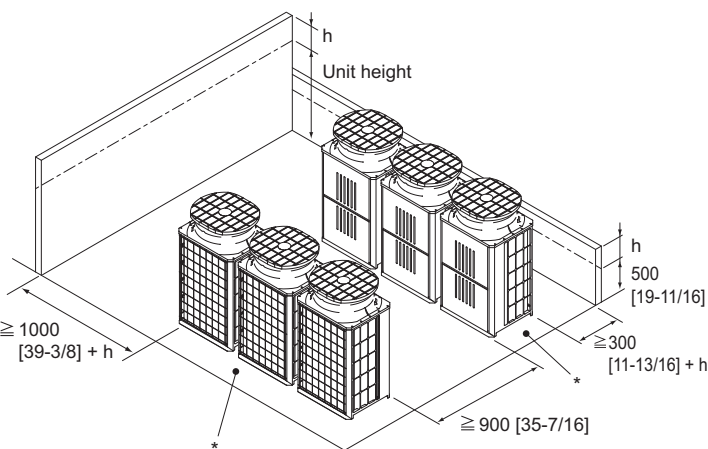


### (3) Combination of face-to-face and side-by-side installations

<There are walls in the front and the back of a given group of units.>



<There is a wall on one side and either the front or the back of a given group of unit.>



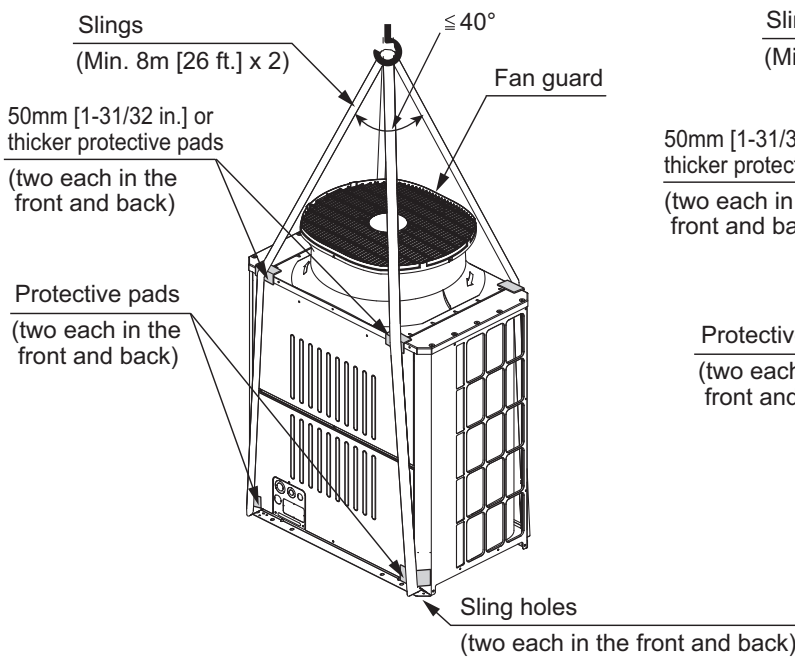
(Unit : mm [in.])

## 4-3. Piping direction

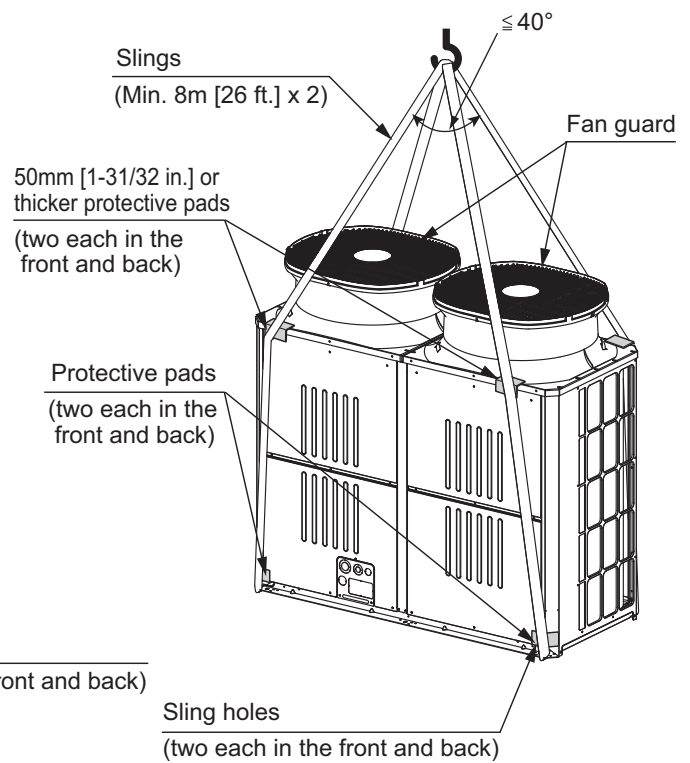
### 4-3-1. Lifting method

- When lifting the unit with ropes, run the ropes under the unit and use the lifting hole.
- Support the unit at four points with two ropes, and avoid giving mechanical shock.
- Suspension rope angle must be  $40^\circ$  or less, so as to avoid compressing fan guard.
- Use two ropes, each at least 8m [26 ft.] in length
- Use ropes strong enough to support the weight of the unit.
- Always suspend the unit from four corners. (It is dangerous to suspend a unit from two corners and must not be attempted.)
- Use protective pads to keep the ropes from scratching the panels on the unit.
- Use a 50mm [1-31/32 in.] or thicker cardboard or cloth as a protective pad on the top of the unit to prevent contact between the fan guard and slings.

① EP200, 250



② EP300, 350, 400, 450



### **CAUTION**

#### Exercise caution when transporting products.

- Products weighing more than 20 kg [45 LBS] should not be carried alone.
- Do not carry the product by the PP bands.
- To avoid the risk of injury, do not touch the heat exchanger fins.
- Plastic bags may pose a risk of choking hazard to children. Tear plastic bags into pieces before disposing of them.
- When lifting and transporting outdoor units with ropes, run the ropes through lifting hole at the unit base. Securely fix the unit so that the ropes will not slide off, and always lift the unit at four points to prevent the unit from falling.

## 4-3-2. Installation

- Secure the unit with anchor bolts as shown in the figure below so that the unit will not topple over with strong wind or during an earthquake.
- Install the unit on a durable base made of such materials as concrete or angle steel.
- Take appropriate anti-vibration measures (e.g., vibration damper pad, vibration isolation base) to keep vibrations and noise from being transmitted from the unit through walls and floors.
- When using a rubber cushion, install it so that the cushion covers the entire width of the unit leg.
- Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure below is securely supported.
- Install the anchor bolt in such a way that the top end of the anchor bolt do not stick out more than 30 mm [1-3/16 in.].
- This unit is not designed to be anchored with post-installation-type anchor bolts, although by adding fixing brackets anchoring with such type of anchor bolts becomes possible.

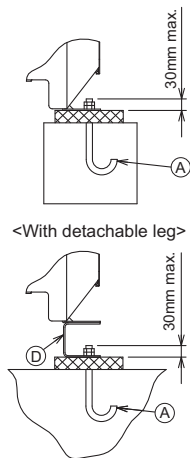
- (A) : M10 anchor bolt procured at the site.
- (B) : Corner is not seated.
- (C) : Fixing bracket for hole-in anchor bolt (3 locations to fix with screws).
- (D) : Anti-vibration rubber  
Install it so that the rubber covers the entire width of the unit leg.

### ⚠ WARNING

Properly install the unit on a surface that can withstand the weight of the unit. Unit installed on an unstable surface may fall and cause injury.

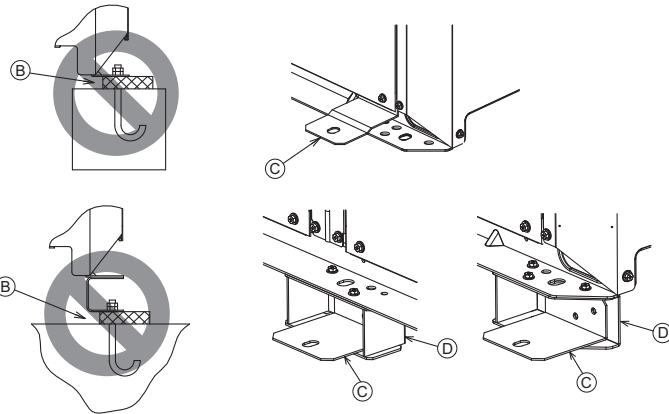
### ⚠ WARNING

Take appropriate safety measures against strong winds and earthquakes to prevent the unit from falling.



Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.

Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.

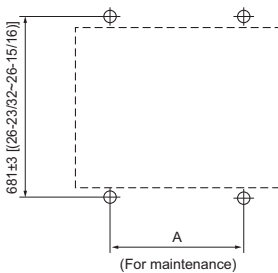


Take into consideration the durability of the base, water drainage route (Drain water is discharged from outdoor units during operation.), piping route, and wiring route when performing foundation work.

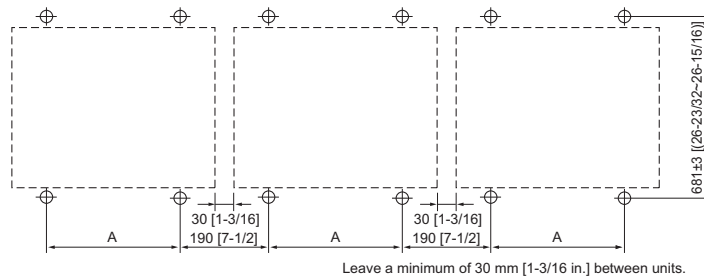
## 4-3-3. Anchor bolt positions

<EP200, 250>

• Individual installation



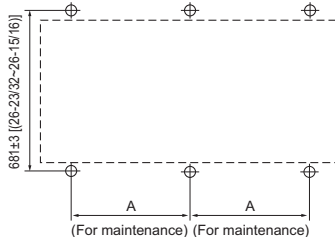
• Collective installation



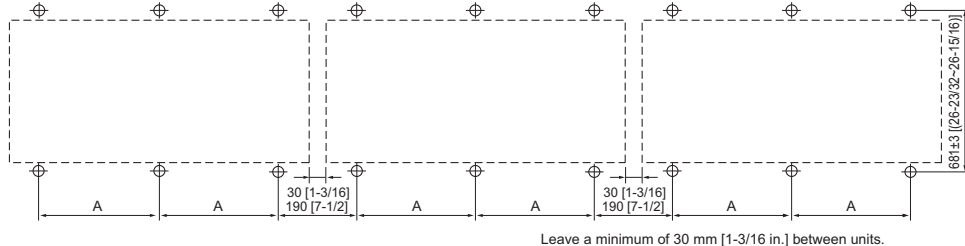
(Unit : mm [in.])

<EP300, 350, 400, 450>

• Individual installation



• Collective installation



PURY	EP200, 250	EP300, 350, 400, 450
A	1060±2 [41-3/4(41-21/32~41-13/16)]	795±2 [31-5/16(31-1/4~31-13/32)]

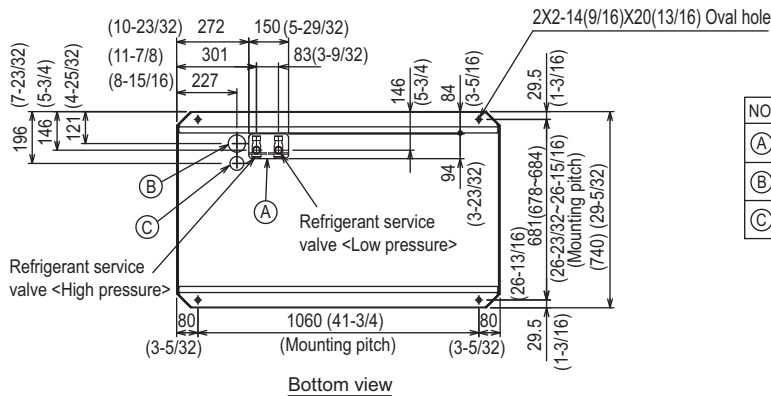
## 4-3-4. Installation

When the pipes and/or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.

When the pipes are routed at the bottom of the unit, the base should be at least 100 mm [3-15/16 in.] in height.

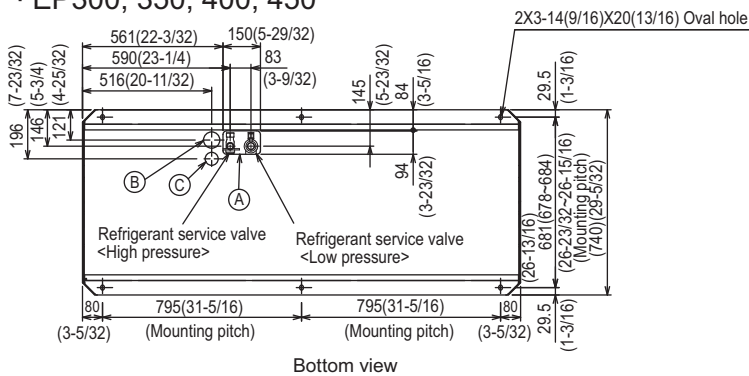
### • EP200, 250

(Unit : mm [in.])

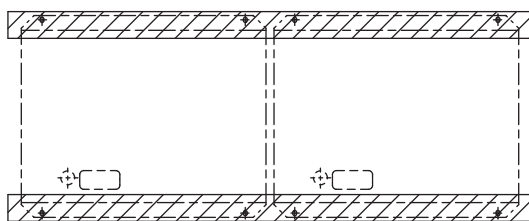


NO.	Usage	Specifications
(A)	For pipes	Bottom through hole 150 × 94 Knockout hole (5-29/32) (3-23/32)
(B)	For wires	Bottom through hole Ø65 Knockout hole (2-9/16)
(C)		Bottom through hole Ø52 Knockout hole (2-1/16)

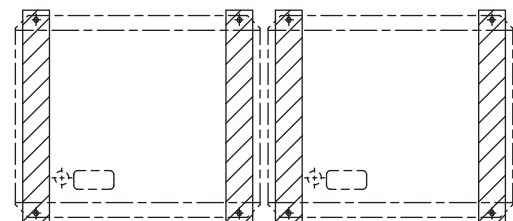
### • EP300, 350, 400, 450



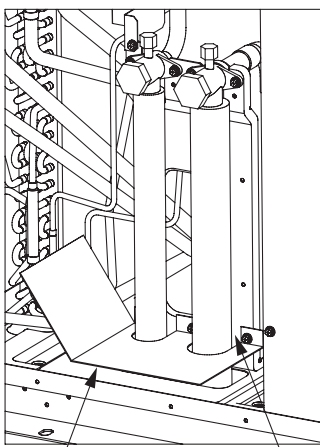
Installation base parallel to the unit's front panel



Installation base perpendicular to the unit's front panel



## 4-3-5. Refrigerant pipe routing



Example of closure materials (field supply)      Fill the gap at the site

The gaps around the edges of through holes for pipes and wires on the unit allow water or mice to enter the unit and damage its parts. Close these gaps with filler plates.

This unit allows two types of pipe routing:

- Bottom piping
- Front piping

### ⚠ CAUTION

To prevent small animals, water and snow from entering the unit and damage its parts, close the gap around the edges of through holes for pipes and wires with filler plates.

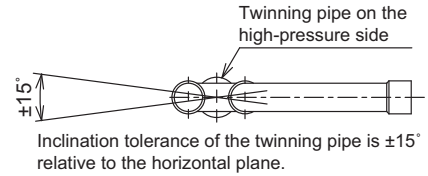
※ The figure above shows a unit on which a low-pressure twinning pipe kit is not installed.



## 4-3-6. Twinning on the outdoor unit side

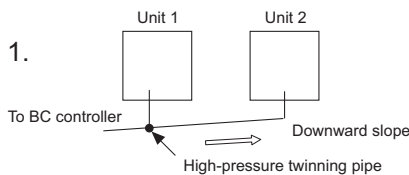
- The tilt angle of the twinning pipe  
The tilt angle of the twinning pipe must be within  $\pm 15^\circ$  with the horizontal plane.  
Tilting the twinning pipe more than specified will cause damage to the unit.
- The length of the straight part of the pipe before the branching (high-pressure side)  
For the twinning kit, always use the accessory piping parts.  
The length of the straight part of pipe connected in front of the twinning pipe must be 500 mm [19-11/16 in.] or longer.  
(Connect the field piping so that the length of the straight part of pipe connected in front of the twinning pipe can be 500 mm [19-11/16 in.] or longer.)  
If the length is less than 500 mm [19-11/16 in.], it will cause damage to the unit.

Note. Refer to the figure below for the installation position of the twinning pipe.

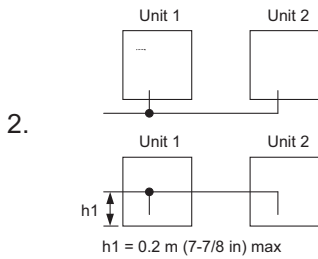
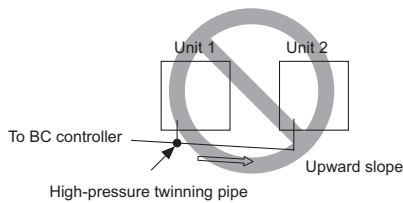


### • Precautions for outdoor unit combinations

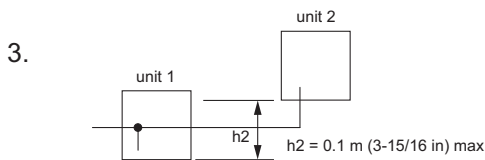
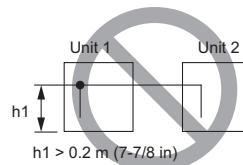
- Install the piping so that oil will not accumulate in the stopped outdoor unit. (high pressure side only)



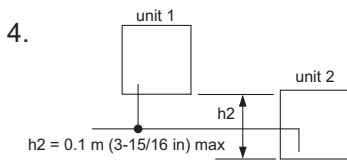
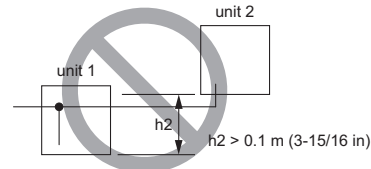
The NG example shows that oil accumulates because the units are installed on a reverse gradient while unit 1 is in operation, and unit 2 is stopped.



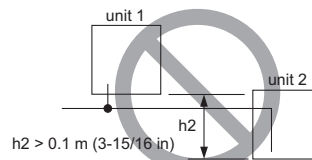
The NG example shows that oil accumulates into unit 1 while unit 2 is in operation, and unit 1 is stopped. Vertical pipe height (h) should be 0.2 m (7-7/8 in) or below.



The NG example shows that oil accumulates into unit 1 while unit 2 is in operation, and unit 1 is stopped. Vertical pipe height (h) should be 0.2 m (7-7/8 in) or below.

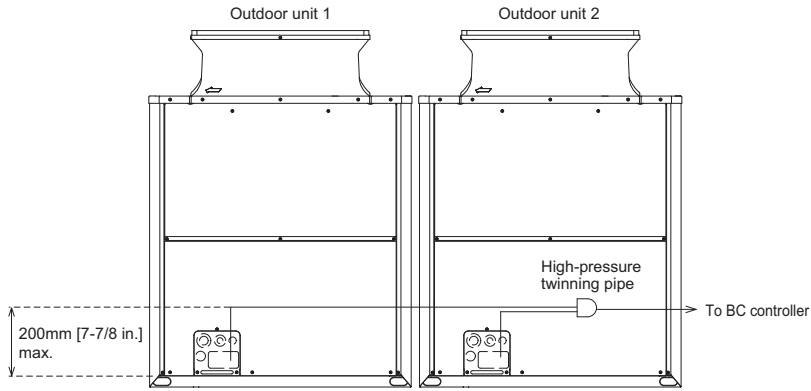


The NG example shows that oil accumulates into unit 2 while unit 1 is in operation, and unit 2 is stopped. Vertical pipe height (h) should be 0.2 m (7-7/8 in) or below.



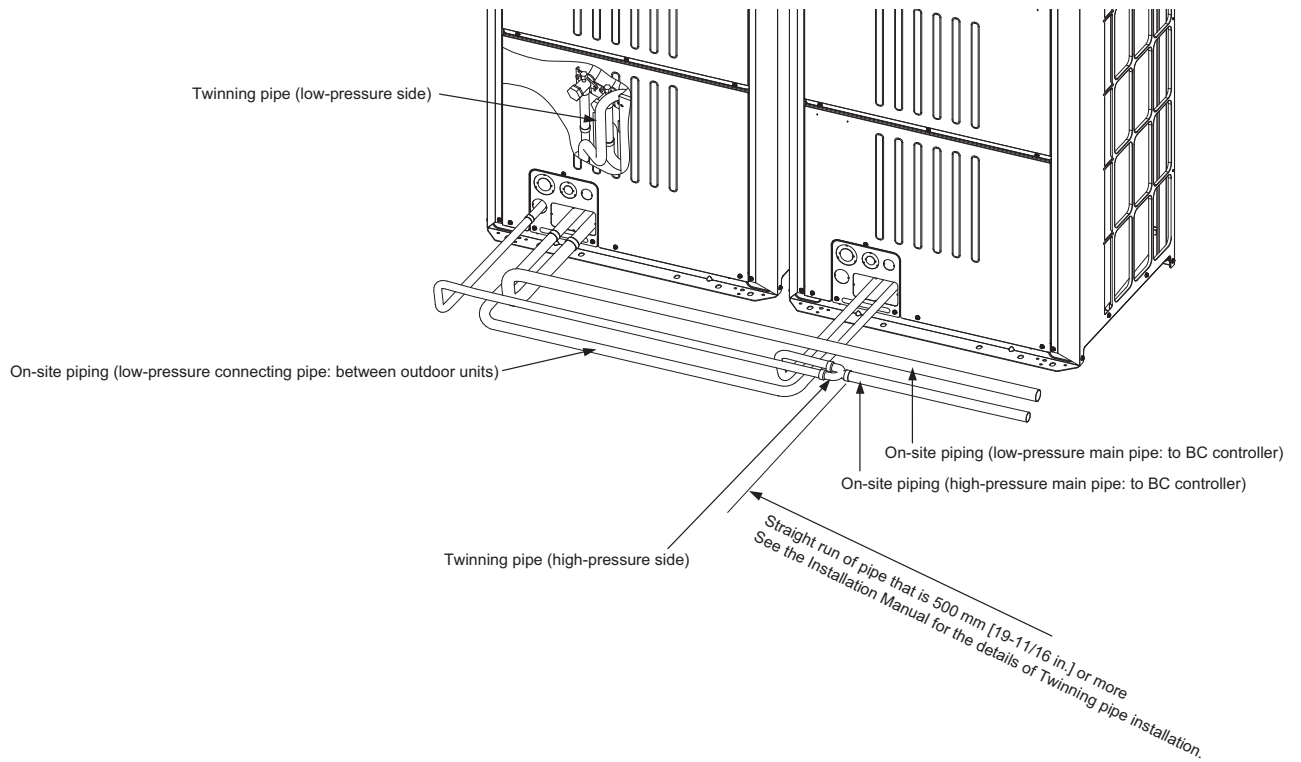
### ⚠ Caution:

- Do not install traps to prevent oil backflow and compressor start-up failure.
- Do not install solenoid valves to prevent oil backflow and compressor start-up failure.
- Do not install a sight glass because it may show improper refrigerant flow.  
If a sight glass is installed, inexperienced technicians that use the glass may overcharge the refrigerant.



### 4-3-7. Twinning on the outdoor unit side

See the following drawing for connecting the pipes between the outdoor units.



## 4-4. Weather countermeasure

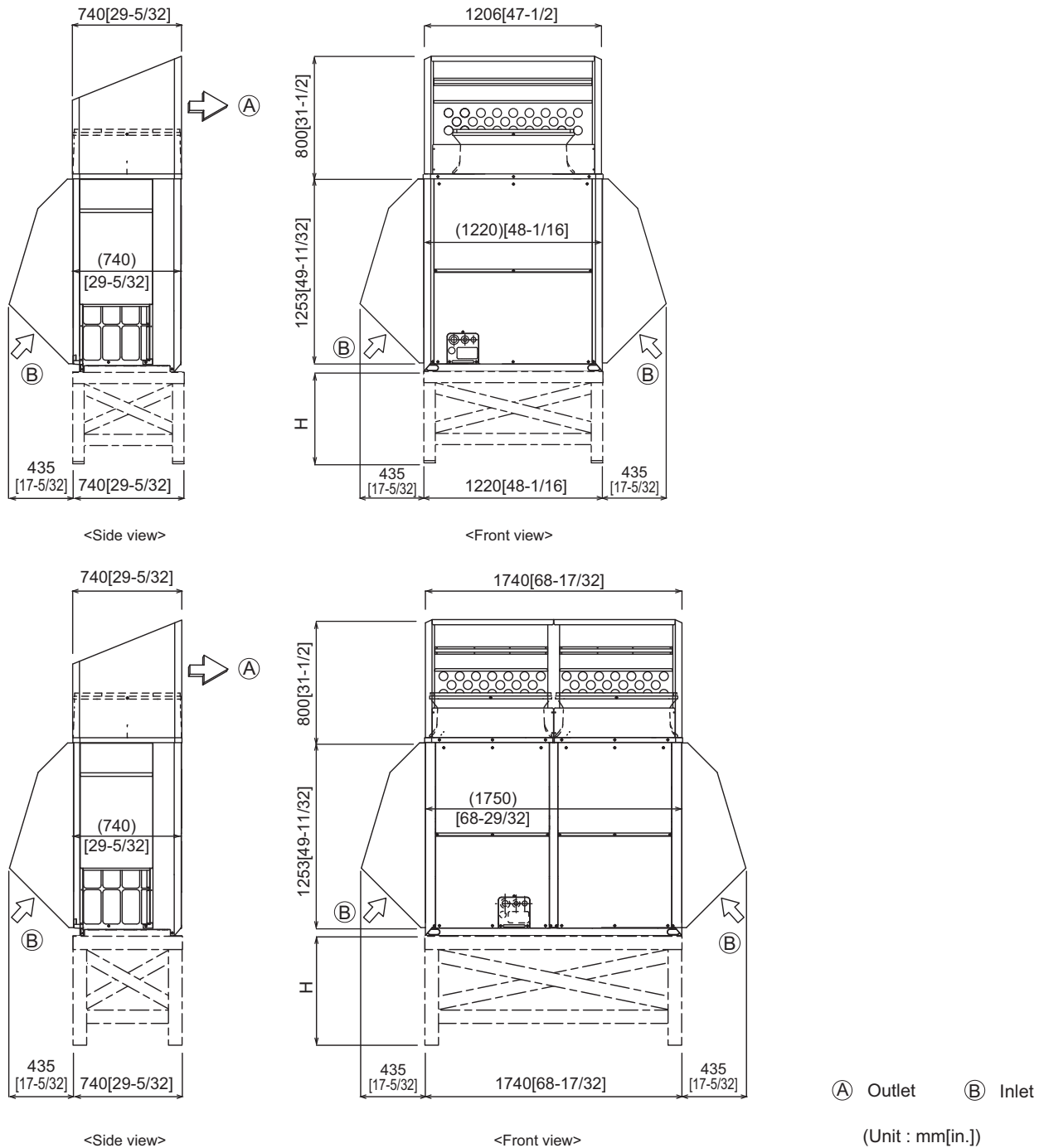
In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Surround the units with snow nets or fences to protect them from snow. Even in the other areas, full consideration is required for installation 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 operations in 10 or less degrees centigrade outdoor air (50 or less degrees fahrenheit outdoor air) , mount inlet and outlet ducts on unit for assuring stable operations.**

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.

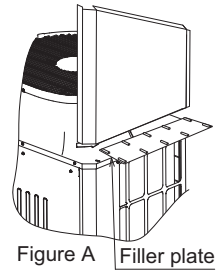
\*Do not use a snow hood made of stainless steel, which may cause the unit to rust. If the use of a stainless snow hood is the only option, contact the sales office before installing it.

- Snow hood



Note:

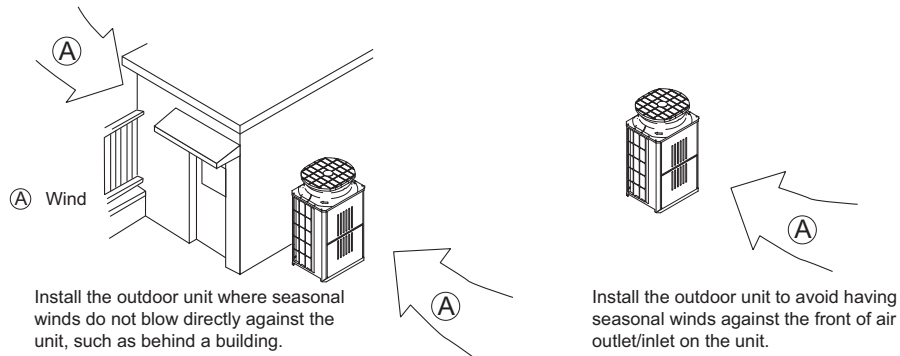
1. Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow 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 [1/16 in. T]  
 Painting : Overall painting with polyester powder  
 Color : Munsell 5Y8/1 (same as that of unit)
4. To install units side by side, install a filler plate between the fan guard and the outlet-side snow food as shown in Figure A.  
 (The filler plate provided accommodates the installation pitch of between 30-80 mm [1-3/16~3-5/32 in.] )
5. 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. A unit installed alone is vulnerable to strong winds. Select the installation site carefully to minimize the effect of winds.

To install a unit in a place where the wind always blows from the same direction, install the unit so that the outlet faces away from the direction of the wind.



### 5-1. General precautions

#### 5-1-1. Usage

- The air-conditioning system described in this Data Book is designed for human comfort.
- This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

#### 5-1-2. Installation environment

- Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- Do not install the unit in acidic or alkaline environment.
- Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

#### 5-1-3. Backup system

- In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

#### 5-1-4. Unit characteristics

- Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrost process.
- Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" for the measurement location.
- The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However, when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.
- When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

#### 5-1-5. Relevant equipment

- Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.
- Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

### 5-1-6. Unit installation

- Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- Ensure there is enough space around each unit.

### 5-1-7. Optional accessories

- Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- Some optional accessories may not be compatible with the air conditioning unit to be used or may not be suitable for the installation conditions. Check the compatibility when considering any accessories.
- Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

### 5-1-8. Operation/Maintenance

- Read the Instruction Book that is provided with each unit carefully prior to use.
- Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety. Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

## 5-2. Precautions for Indoor unit

### 5-2-1. Operating environment

- The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.
- If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the indoor units.

### 5-2-2. Unit characteristics

- The return air temperature display on the remote controller may differ from the ones on the other thermometers.
- The clock on the remote controller may be displayed with a time lag of approximately one minute every month.
- The temperature using a built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed on or in the ceiling operate the automatic cooling/heating switchover.
- The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is large such as computer rooms.
- Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the operation noise may increase.
- The room temperature may rise over the preset temperature in the environment where the heating air conditioning load is small.

### 5-2-3. Unit installation

- For simultaneous cooling/heating operation type air conditioners (R2, WR2 series), the G-type BC controller cannot be connected to the EP400 outdoor unit model or above, and the G- and GA-type BC controllers cannot be connected to the EP700 model or above. The GB- and HB-type BC controllers (sub) cannot be connected to the outdoor unit directly, and be sure to use them with GA- and HA-type BC controllers (main).
- The insulation for low pressure pipe between the BC controller and outdoor unit shall be at least 20 mm thick. If the unit is installed on the top floor or in a high-temperature, high-humidity environment, thicker insulation may be necessary.
- Do not have any branching points on the downstream of the refrigerant pipe header.
- When a field-supplied external thermistor is installed or when a device for the demand control is used, abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor for details.
- When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from the air.
- The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" for the available range for fresh air intake volume.
- Operating fresh air intake on the indoor unit may increase the sound pressure level.

### 5-3. Precautions for Fresh air intake type indoor unit

#### 5-3-1. Usage

- This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

#### 5-3-2. Unit characteristics

- This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- Outside air temperature ranges for the operation must be as follows:  
Cooling: 21°C D.B./15.5°C W.B. ~ 43°C D.B./35°C W.B.  
Heating: -10°C D.B. ~ 20°C D.B.  
The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.  
Cooling: 21°C D.B. or below; Heating: 20°C D.B. or above
- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

### 5-4. Precautions for Outdoor unit/Heat source unit

#### 5-4-1. Installation environment

- Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA (JRA9002).
- Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge air may occur.
- Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units. Provide water-proof protection to the floor when installing the units on the rooftop.
- In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow guard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0°C, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not applicable to the PUMY-P-NHMu series)
- Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.
- Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- Interlock the heat source unit and water circuit pump.
- Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place where the ambient temperature can be 0°C or below.
  - Keep the water circulating to prevent it from freezing when the ambient temperature is 0°C or below.
  - Before a long period of non use, be sure to purge the water out of the unit.

#### 5-4-2. Circulating water

- Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere. When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

**5-4-3. Unit characteristics**

- When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

**5-4-4. Relevant equipment**

- Provide grounding in accordance with the local regulations.

**5-5. Precautions for Control-related items****5-5-1. Product specification**

- To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- Billing calculation for AG-150A, GB-50ADA, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- In the apportioned billing function for AG-150A and GB-50ADA, use separate watt-hour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watt-hour meter for the large-capacity indoor unit (with two or more addresses).
- When using the peak cut function on the AG-150A or GB-50ADA, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AG-150A or GB-50ADA malfunctions or stops. Provide a back-up remedy as necessary.
- The controllers cannot operate while the indoor unit is OFF. (No error)  
Turn ON the power to the indoor unit when operating the controllers.
- When using the interlocked control function on the AG-150A, GB-50ADA, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

**5-5-2. Installation environment**

- The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- Install the wired remote controller (switch box) to the place where the following conditions are met.
  - Where installation surface is flat
  - Where the remote controller can detect an accurate room temperature  
The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
    - Install the controller in a place where it is not subject to the heat source.  
(If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
    - Install the controller in a place where an average room temperature can be detected.
    - Install the controller in a place where no other wires are present around the temperature sensor.  
(If other wires are present, the remote controller cannot detect an accurate room temperature.)
- To prevent unauthorized access, always use a security device such as a VPN router when connecting AG-150A, GB-50ADA, or TG-2000A to the Internet.



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.

## 6-1. Refrigerant property

R410A refrigerant is harmless and incombustible. The R410A is 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: 0.44kg/m<sup>3</sup>**  
**(The weight of refrigeration gas per 1 m<sup>3</sup> air conditioning space.);**

\* 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.

## 6-2. Confirm the Critical concentration and take countermeasure

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.6-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.

The additional charge is calculated according to "3-3.Refrigerant charging calculation" and shall not be over charged at the site.

Procedure 6-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.

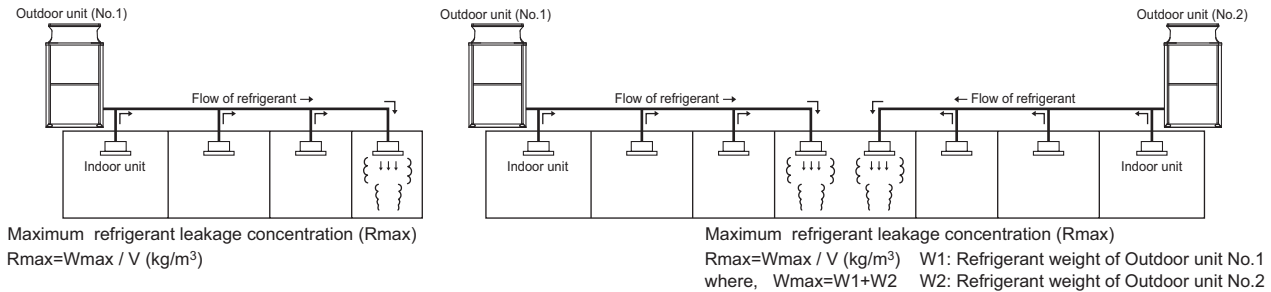


Fig. 6-1 The maximum refrigerant leakage concentration

### 6-2-1. 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.

### 6-2-2. 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.

### 6-2-3. Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).

### 6-2-4. Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.44kg/m<sup>3</sup>.

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.6-2~4.

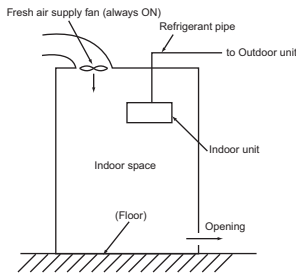


Fig.6-2. Fresh air supply always ON

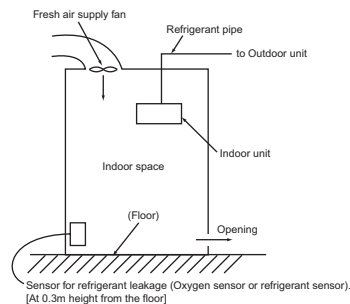


Fig.6-3. Fresh air supply upon sensor action

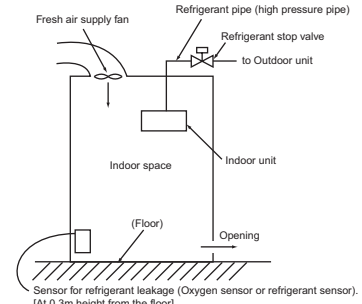


Fig.6-4. Fresh air supply and refrigerant shut-off upon sensor action

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.

# CITY MULTI R410A series YKM

## DATA BOOK



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

### ⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
  - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
  - It may also be in violation of applicable laws.
  - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

## MITSUBISHI ELECTRIC CORPORATION

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