



**MITSUBISHI  
ELECTRIC**

SPLIT-TYPE,HEAT PUMP AIR CONDITIONERS

*Changes for the Better*

No. OC235  
REVISED EDITION-B

# TECHNICAL & SERVICE MANUAL

## Series PLH Ceiling Cassettes R407C

### Indoor unit

#### [Model names]

PLH-P1.6KAH

PLH-P2KAH

PLH-P2.5KAH

#### [Service Ref.]

**PLH-P1.6KAH.UK**

**PLH-P1.6KAH<sub>1</sub>.UK**

**PLH-P2KAH.UK**

**PLH-P2KAH<sub>1</sub>.UK**

**PLH-P2.5KAH.UK**

**PLH-P2.5KAH<sub>1</sub>.UK**

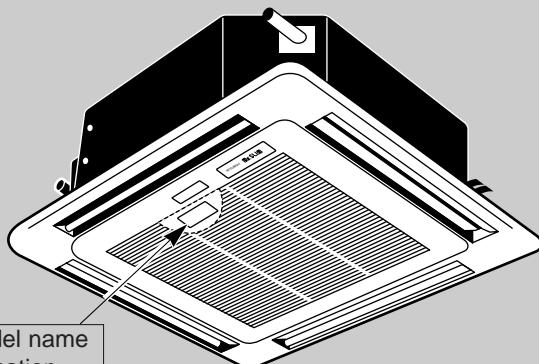
#### Revision:

- "12. PARTS LIST" has been modified.
- Program timer <PAC-YT32PTA> has been added in "13. OPTIONAL PARTS".

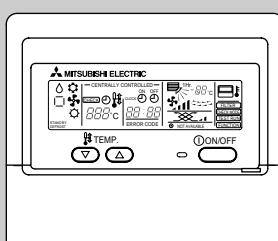
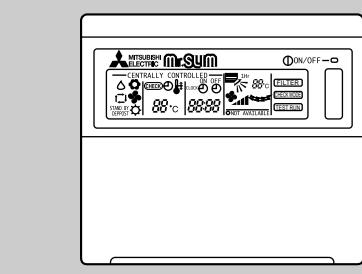
#### Note:

- Refer to the OCT03 REVISED EDITION-E as for control relation. This manual does not cover outdoor units. When servicing them, please refer to the service manual No.OC180 REVISED EDITION-A OC261 and this manual in a set.

- Please void OC235 REVISED EDITION-A.



INDOOR UNIT



PLH-P1.6, 2, 2.5KAH.UK

PLH-P1.6, 2, 2.5KAH.UK

REMOTE CONTROLLER

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**Mir.SLIM™**

**Revision:**

1. " 12. PARTS LIST " has been modified on page 47.

Spare CONTROLLER BOARD for PLH-P1.6KAH.UK, PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P3KAH.UK and PLH-P3KAH<sub>1</sub>.UK are unified.

| Page | Revise point                                  | Service Ref.                                   | Old parts code | New part code |
|------|---|--|----------------|---------------|
| 47   | FUNCTIONAL PARTS<br>No.13 CONTROLLER<br>BOARD | PLH-P1.6KAH.UK<br>PLH-P1.6KAH <sub>1</sub> .UK | S70 E13 310    | S70 E20 310*  |
|      |   | PLH-P2KAH.UK<br>PLH-P2KAH <sub>1</sub> .UK     | S70 E14 310    |               |
|      |   | PLH-P2.5KAH.UK<br>PLH-P2.5KAH <sub>1</sub> .UK | S70 E15 310    |               |

2. The description "The part name of symbol "I.B" is "SPCB" " is added on both pages of wiring diagram and part list.

**1****TECHNICAL CHANGES**

**PLH-P1.6KAH.UK → PLH-P1.6KAH<sub>1</sub>.UK      PLH-P2KAH.UK → PLH-P2KAH<sub>1</sub>.UK**

**PLH-P2.5KAH.UK → PLH-P2.5KAH<sub>1</sub>.UK**

● REMOTE CONTROLLER has changed.(PAR-S27A-E → PAR-20MAA-E)

● Outdoor units which are connected to PLH-P-KAH.UK and PLH-P-KAH<sub>1</sub>.UK have been added.

**2****COMBINATION OF INDOOR AND OUTDOOR UNITS**

| Indoor unit                    | Outdoor unit                 |         |         |     |     |         |         |                  |                  |         |         |   |
|--------------------------------|------------------------------|---------|---------|-----|-----|---------|---------|------------------|------------------|---------|---------|---|
|                                | Heat pump type               |         |         |     |     |         |         |                  |                  |         |         |   |
|                                | PUH-P                        |         |         |     |     |         |         |                  |                  |         |         |   |
|                                | 1.6                          |         |         |     | 2   |         |         |                  | 2.5              |         |         |   |
| VGA                            | YGA                          | VGAA.UK | YGAA.UK | VGA | YGA | VGAA.UK | YGAA.UK | VGA <sub>1</sub> | YGA <sub>1</sub> | VGAA.UK | YGAA.UK |   |
| Heat pump with electric heater | PLH-P1.6KAH.UK               | ○       | ○       | ○   | ○   | —       | —       | —                | —                | —       | —       | — |
|                                | PLH-P1.6KAH <sub>1</sub> .UK | —       | —       | ○   | ○   | —       | —       | —                | —                | —       | —       | — |
|                                | PLH-P2KAH.UK                 | —       | —       | —   | —   | ○       | ○       | ○                | ○                | —       | —       | — |
|                                | PLH-P2KAH <sub>1</sub> .UK   | —       | —       | —   | —   | —       | —       | ○                | ○                | —       | —       | — |
|                                | PLH-P2.5KAH.UK               | —       | —       | —   | —   | —       | —       | —                | —                | ○       | ○       | ○ |
|                                | PLH-P2.5KAH <sub>1</sub> .UK | —       | —       | —   | —   | —       | —       | —                | —                | —       | —       | ○ |

## Cautions for using with the outdoor unit which adopts R407C refrigerant.

- Do not use the existing refrigerant piping.**

-The old refrigerant and refrigerant oil in the existing piping contains a large amount of chlorine which may cause the refrigerant oil of the new unit to deteriorate.

- Do not use copper pipes which are broken, deformed or discolour.**

In addition, be sure that the inner surfaces of the pipes are clean, free of hazardous sulphur and oxides, or have no dust / dirt, shaving particles, oils, moisture or any other contamination.

-If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the refrigerant oil will result.

- Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Store elbows and other joints in a plastic bag.)**

-If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.

- Use ester oil, ether oil or alkyl benzene (small amount) as the refrigerant oil to coat flares and flange connections.**

-The refrigerant oil will degrade if it is mixed with a large amount of mineral oil.

- Use liquid refrigerant to fill the system.**

-If gas refrigerant is used to fill the system, the composition of the refrigerant in the cylinder will change and performance may drop.

- Do not use a refrigerant other than R407C.**

-If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the refrigerant oil to deteriorate.

- Use a vacuum pump with a reverse flow check valve.**

-The vacuum pump oil may flow back into the refrigerant cycle and cause the refrigerant oil to deteriorate.

- Do not use the following tools that are used with conventional refrigerant.**

(Gauge manifold , charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, refrigerant recovery equipment)

-If the conventional refrigerant and refrigerant oil are mixed in the R407C, the refrigerant may deteriorate.

-If water is mixed in the R407C, the refrigerant oil may deteriorate.

-Since R407C does not contain any chlorine, gas leak detectors for conventional refrigerant will not react to it.

- Do not use a charging cylinder.**

-Using a charging cylinder may cause the refrigerant to deteriorate.

- Be especially careful when managing the tools.**

-If dust, dirt, or water gets in the refrigerant cycle, the refrigerant may deteriorate.

- Do not use the drier which is sold in the field.**

-The drier for R407C refrigerant is per-attached to outdoor unit refrigerant circuit.

-Some drier in the field are not in conformity with R407C refrigerant .

## [1] Service tools

Use the below service tools as exclusive tools for R407C refrigerant.

| No. | Tool name                       | Specifications   |
|-----|---------------------------------|--|
| ①   | Gauge manifold                  | ·Only for R407C.   |
|     |                                 | ·Use the existing fitting SPECIFICATIONS. (UNF7/16)          |
|     |                                 | ·Use high-tension side pressure of 3.43MPa·G or over.        |
| ②   | Charge hose                     | ·Only for R407C.   |
|     |                                 | ·Use pressure performance of 5.10MPa·G or over.              |
| ③   | Electronic scale                |  |
| ④   | Gas leak detector               | ·Use the detector for R407C.                                 |
| ⑤   | Adapter for reverse flow check. | ·Attach on vacuum pump.                                      |
| ⑥   | Refrigerant charge base.        |  |
| ⑦   | Refrigerant cylinder.           | ·For R407C ·Top of cylinder (Brown)<br>·Cylinder with syphon |
| ⑧   | Refrigerant recovery equipment. |  |

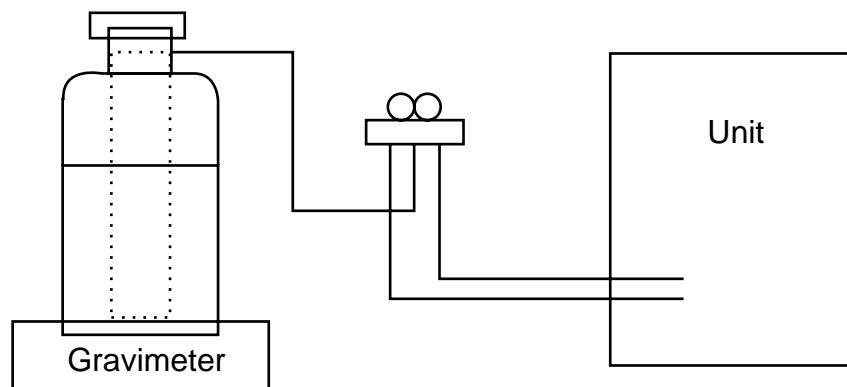
## [2] Notice on repair service

- After recovering the all refrigerant in the unit, proceed to working.
- Do not release refrigerant in the air.
- After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

## [3] Refrigerant recharging

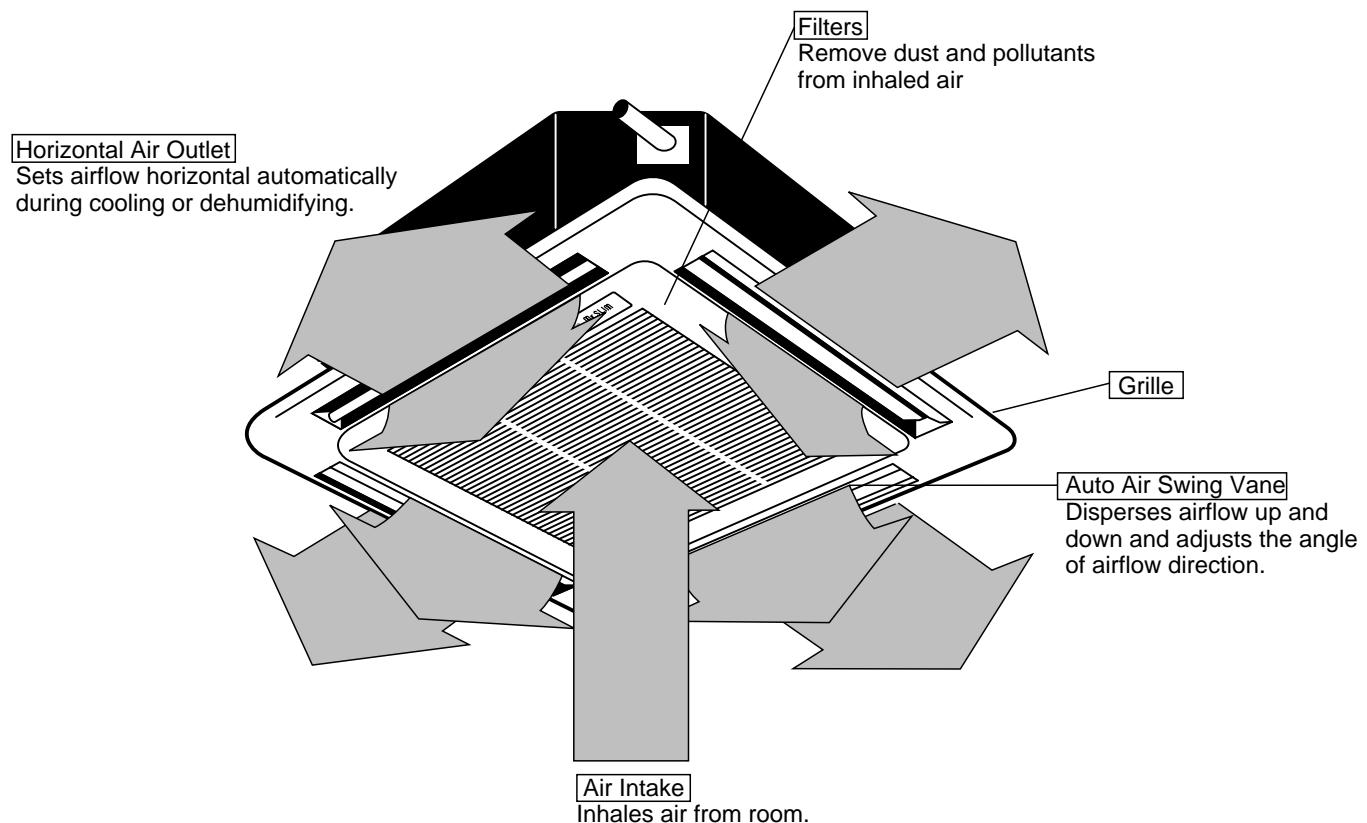
### (1) Refrigerant recharging process

- ①Direct charging from the cylinder.
  - R407C cylinder are available on the market has a syphon pipe.
  - Leave the syphon pipe cylinder standing and recharge it.  
(By liquid refrigerant)



### (2) Recharge in refrigerant leakage case

- After recovering the all refrigerant in the unit, proceed to working.
- Do not release the refrigerant in the air.
- After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

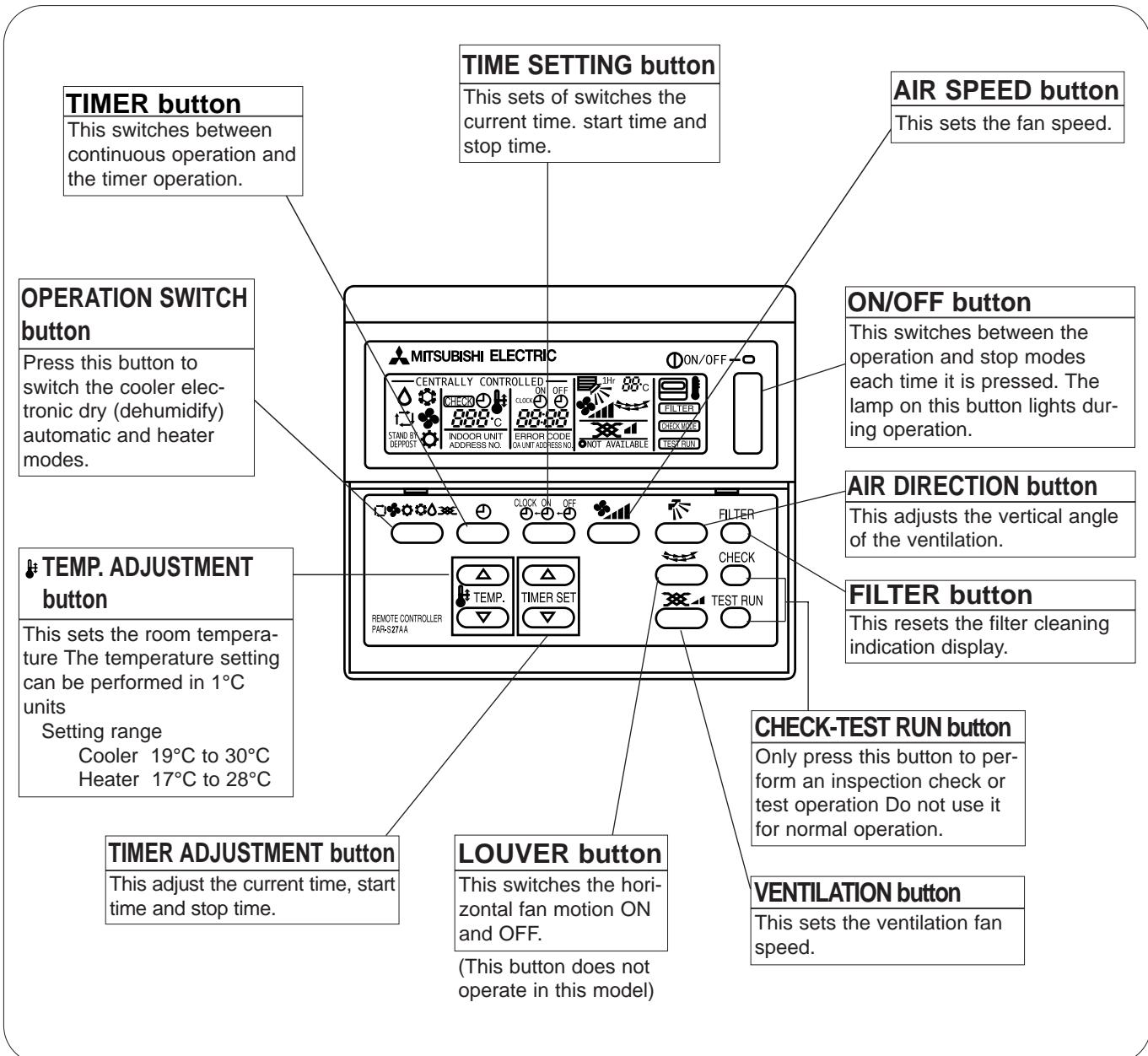
**● Indoor Unit****PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK****PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK**

## ● Remote controller

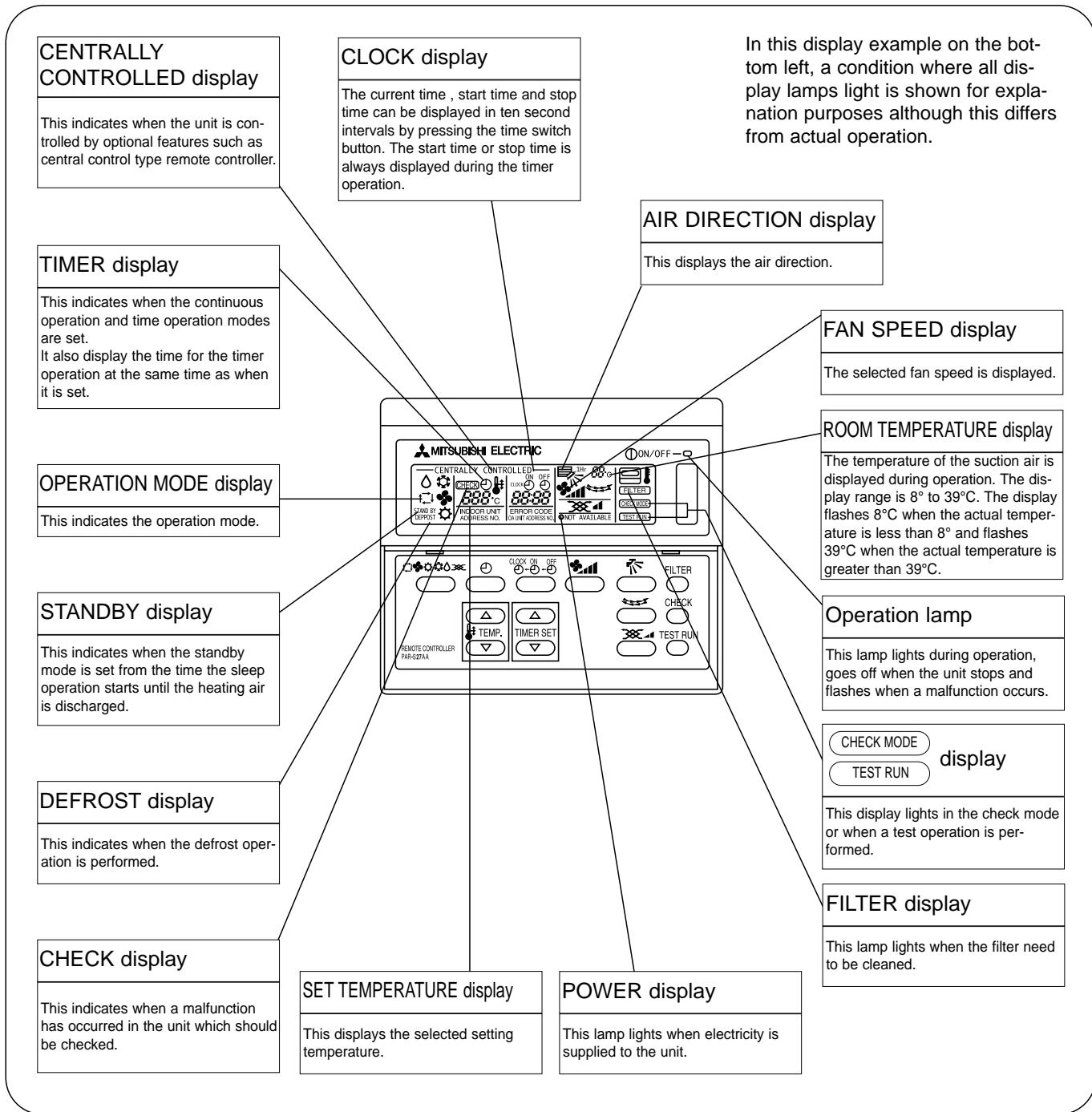
- Once the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

## PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK

### ● Operation buttons [ PAR-S27A-E ]



## ● Display

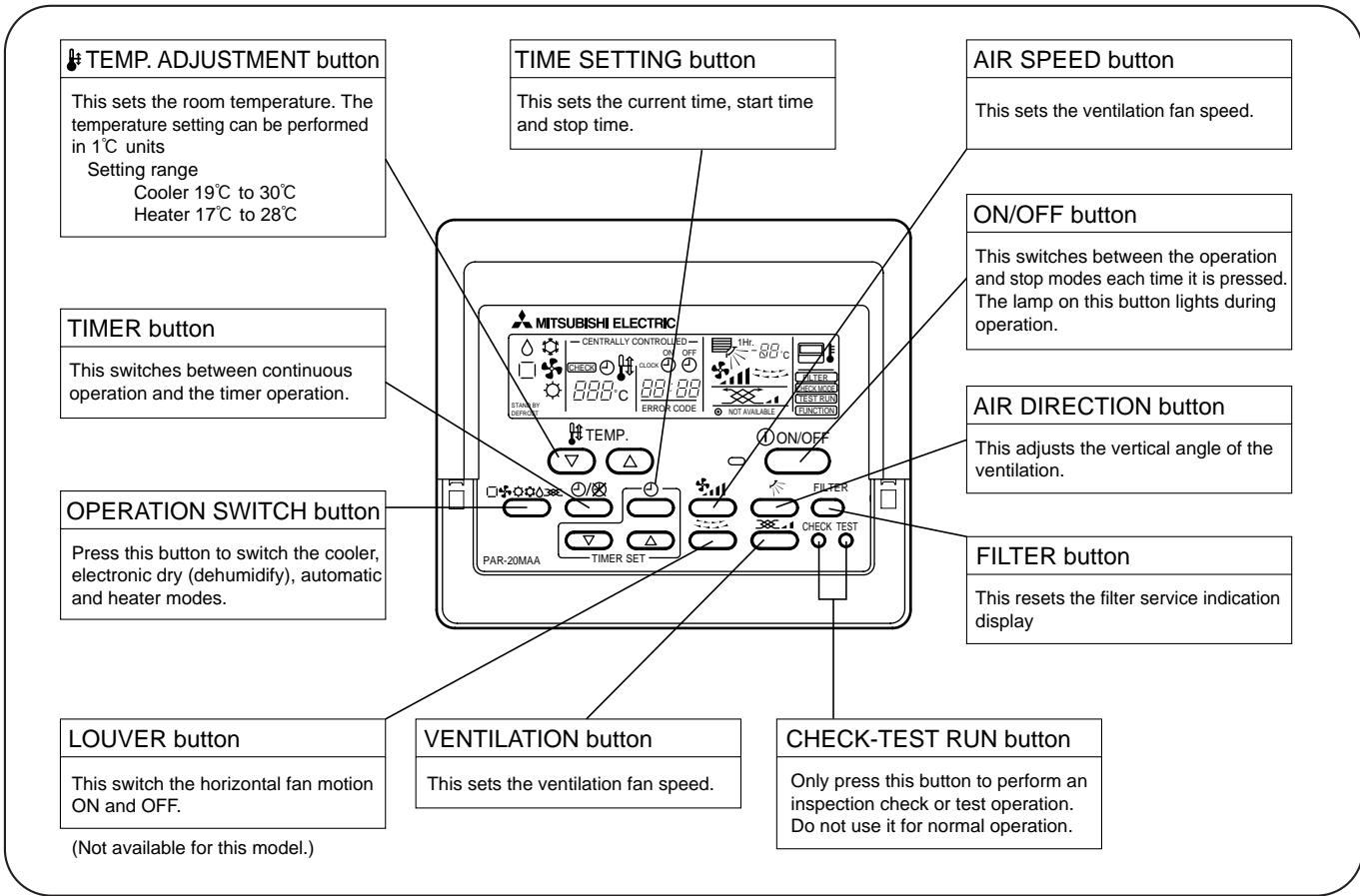


## **Caution**

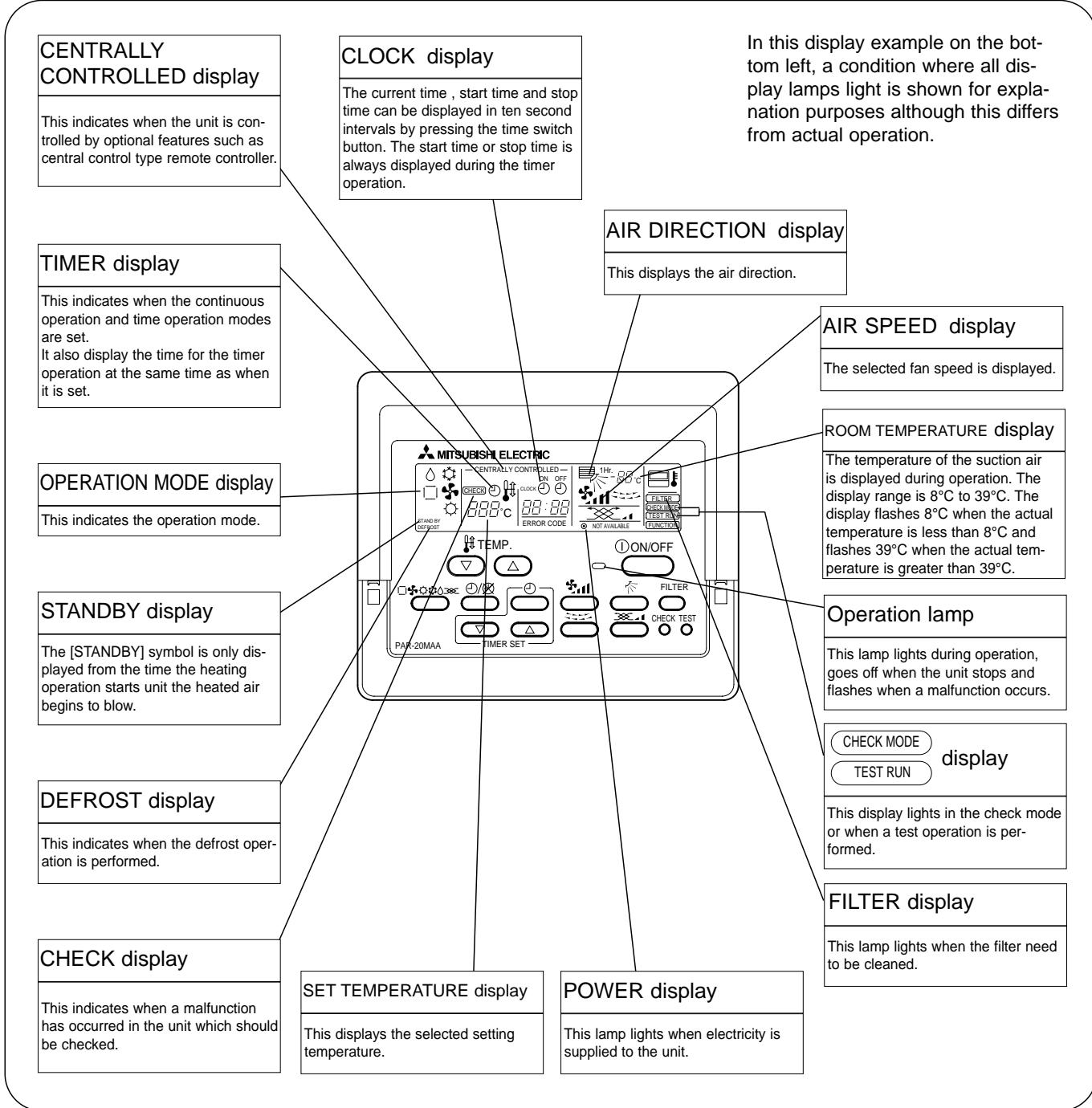
- Only the Power display lights when the unit is stopped and power supplied to the unit.
  - When power is turned ON for the first time the (CENTRAL CTRL) display appears to go off momentarily but this is not a malfunction.
  - “NOT AVAILABLE” is displayed when the Air speed button are pressed.This indicates that this room unit is not equipped with the fan direction adjustment function and the louver function.
  - When power is turned ON for the first time, it is normal that “H0” is displayed on the room temperature indication (For max. 2minutes). Please wait until this “H0” indication disappear then start the operation.

## PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK

### ● Operation buttons [ PAR-20MAA-E ]



## ● Display



### Caution

- Only the Power display lights when the unit is stopped and power supplied to the unit.
- "NOT AVAILABLE" is displayed when the Air speed button is pressed. This indicates that this room unit is not equipped with the fan direction adjustment function and the louver function.
- When power is turned ON for the first time, it is normal that "H0" is displayed on the room temperature indication (For max. 2minutes). Please wait until this "H0" indication disappears before starting the operation.

| Item                                   |                                    | Service Ref.   |                                    | PLH-P1.6KAH.UK |                            |  |
|--|------------------------------------|--|------------------------------------|----------------|----------------------------|--|
| Function                               |                                    |  |                                    | Cooling        |                            |  |
| Capacity                               | *1                                 | Btu/h  |                                    | 15,000         | Heating<br>17,100 (21,800) |  |
|  |                                    | W  |                                    | 4,400          | 5,000 (6,400)              |  |
| Total input                            |                                    | kW   |                                    | 1.86           | 1.93 (3.33)                |  |
| Service Ref.                           |                                    | PLH-P1.6KAH.UK   |                                    |                |                            |  |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V   |                                    |                |                            |  |
| INDOOR UNIT                            | Input                              | *2   | kW                                 | 0.15           | 0.10 <1.40>                |  |
|  | Running current                    | *2   | A                                  | 0.64           | 0.45 <5.83>                |  |
|  | Starting current                   | *2   | A                                  | 0.70           | 0.50 <5.83>                |  |
| External finish                        |                                    | Galvanized sheets with gray heat insulation  |                                    |                |                            |  |
| Heat exchanger                         |                                    | Plate fin coil   |                                    |                |                            |  |
| Fan                                    | Fan (drive) x No.                  |  | Turbo fan (direct) x 1             |                |                            |  |
|  | Fan motor output                   | kW   | 0.030                              |                |                            |  |
|  | Airflow (Low-Medium2-Medium1-High) | m³/min (CFM)   | 13-14-15-16 (459-494-530-565)      |                |                            |  |
|  | External static pressure           | Pa (mmAq)  | 0 (direct blow)                    |                |                            |  |
| Booster heater                         |                                    | kW   | <1.4>                              |                |                            |  |
| Operation control & Thermostat         |                                    | Remote controller & built-in   |                                    |                |                            |  |
| Noise level (Low-Medium2-Medium1-High) |                                    | dB   | 32-34-35.5-37                      |                |                            |  |
| Unit drain pipe I.D.                   |                                    | mm (in.)   | 32 (1-1/4)                         |                |                            |  |
| Dimensions                             | W                                  | mm (in.)   | UNIT : 660 (26) PANEL : 760 (30)   |                |                            |  |
|  | D                                  | mm (in.)   | UNIT : 660 (26) PANEL : 760 (30)   |                |                            |  |
|  | H                                  | mm (in.)   | UNIT : 253 (10) PANEL : 30 (1-1/8) |                |                            |  |
| Weight                                 |                                    | kg (lbs)   | UNIT : 20 (44) PANEL : 3.7 (8)     |                |                            |  |
| Service Ref.                           |                                    | PUH-P1.6VGA / PUH-P1.6YGA  |                                    |                |                            |  |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V / 3 phases, 50Hz, 380-400-415V (4wires)   |                                    |                |                            |  |
| Running current                        |                                    | A  | 7.66 / 2.67                        |                | 8.19 / 2.86                |  |
| Starting current                       |                                    | A  | 36 / 20                            |                |                            |  |
| External finish                        |                                    | Munsell 5Y 8/1   |                                    |                |                            |  |
| Refrigerant control                    |                                    | Linear Expansion Valve   |                                    |                |                            |  |
| Compressor                             |                                    | Hermetic   |                                    |                |                            |  |
| Model                                  |                                    | RE277VHSM / RE277YFKM  |                                    |                |                            |  |
| Motor output                           |                                    | kW   | 1.3                                |                |                            |  |
| Starter type                           |                                    | Line start   |                                    |                |                            |  |
| Protection devices                     |                                    | Inner thermostat, HP switch, Discharge thermo. / Thermal relay, Discharge thermo, HP switch, Anti-phase protector. |                                    |                |                            |  |
| Crankcase heater                       |                                    | W  | 30                                 |                |                            |  |
| Heat exchanger                         |                                    | Plate fin coil   |                                    |                |                            |  |
| OUTDOOR UNIT                           | Fan (drive) x No.                  |  | Propeller (direct) x 1             |                |                            |  |
|  | Fan motor output                   | kW   | 0.070                              |                |                            |  |
|  | Airflow                            | m³/min (CFM)   | 45 (1,590)                         |                |                            |  |
| Defrost method                         |                                    | Reverse cycle  |                                    |                |                            |  |
| Dimensions                             | Cooling                            | dB   | 46                                 |                |                            |  |
|  | Heating                            | dB   | 48                                 |                |                            |  |
|  | W                                  | mm (in.)   | 900 (35-7/16)                      |                |                            |  |
| Weight                                 | D                                  | mm (in.)   | 330+20 (13+3/4)                    |                |                            |  |
|  | H                                  | mm (in.)   | 650 (25-5/8)                       |                |                            |  |
|  |                                    | kg (lbs)   | 55 (121)                           |                |                            |  |
| REFRIGERANT PIPING                     | Refrigerant                        |  | R407C                              |                |                            |  |
|  | Charge                             |  | 2.6 (5.7)                          |                |                            |  |
|  | Oil (Model)                        |  | 0.57 (Ester) MEL56                 |                |                            |  |
| Pipe size O.D.                         | Liquid                             | mm (in.)   | 9.52 (3/8)                         |                |                            |  |
|  | Gas                                | mm (in.)   | 15.88 (5/8)                        |                |                            |  |
| Connection method                      | Indoor side                        |  | Flared                             |                |                            |  |
|  | Outdoor side                       |  | Flared                             |                |                            |  |
| Between the indoor & outdoor unit      |                                    | Height difference  | Max. 40m                           |                |                            |  |
| Piping length                          |                                    |  | Max. 40m                           |                |                            |  |

Notes 1. Rating Conditions (ISO T1)

Cooling : Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)

Heating : Indoor : D.B. 20°C (68°F)

Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)

Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

|         |             | Indoor                | Outdoor               |
|---------|-------------|-----------------------|-----------------------|
| Cooling | Upper limit | D.B. 35°C W.B. 22.5°C | D.B. 46°C             |
|         | Lower limit | D.B. 19°C W.B. 15°C   | D.B. -5°C             |
| Heating | Upper limit | D.B. 28°C             | D.B. 24°C W.B. 18°C   |
|         | Lower limit | D.B. 17°C             | D.B. -11°C W.B. -12°C |

\*1 : ( ) Shows the total rating.

\*2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz



| Item                                   |                                    | Service Ref.   |                        | PLH-P2KAH.UK                       |                 |
|--|------------------------------------|--|------------------------|------------------------------------|-----------------|
| Function                               |                                    |  |                        | Cooling                            |                 |
| Capacity                               | *1                                 | Btu/h  |                        | 18,400                             | Heating         |
|  |                                    | W  |                        | 5,400                              | 21,300 (26,100) |
| Total input                            | *1                                 | kW   |                        | 2.62                               | 6,250 (7,650)   |
|  |                                    |  |                        |                                    | 2.67 (4.07)     |
| Service Ref.                           |                                    | PLH-P2KAH.UK   |                        |                                    |                 |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V   |                        |                                    |                 |
| Input                                  | *2                                 | kW   |                        | 0.14                               | 0.10 <1.40>     |
| Running current                        | *2                                 | A  |                        | 0.65                               | 0.45 <5.83>     |
| Starting current                       | *2                                 | A  |                        | 0.72                               | 0.50 <5.83>     |
| External finish                        |                                    | Galvanized sheets with gray heat insulation  |                        |                                    |                 |
| Heat exchanger                         |                                    | Plate fin coil   |                        |                                    |                 |
| Fan                                    | Fan (drive) x No.                  |  | Turbo fan (direct) x 1 |                                    |                 |
|  | Fan motor output                   | kW   |                        | 0.030                              |                 |
|  | Airflow (Low-Medium2-Medium1-High) | m³/min (CFM)   |                        | 13-14-15-16 (459-494-530-565)      |                 |
|  | External static pressure           | Pa (mmAq)  |                        | 0 (direct blow)                    |                 |
| Booster heater                         | *2                                 | kW   |                        |                                    | <1.4>           |
| Operation control & Thermostat         |                                    | Remote controller & built-in   |                        |                                    |                 |
| Noise level (Low-Medium2-Medium1-High) |                                    | dB   |                        | 32-34-35-37                        |                 |
| Unit drain pipe I.D.                   |                                    | mm (in.)   |                        | 32 (1-1/4)                         |                 |
| Dimensions                             | W                                  | mm (in.)   |                        | UNIT : 660 (26) PANEL : 760 (30)   |                 |
|  | D                                  | mm (in.)   |                        | UNIT : 660 (26) PANEL : 760 (30)   |                 |
|  | H                                  | mm (in.)   |                        | UNIT : 253 (10) PANEL : 30 (1-1/8) |                 |
| Weight                                 |                                    | kg (lbs)   |                        | UNIT : 20 (44) PANEL : 3.7 (8)     |                 |
| Service Ref.                           |                                    | PUH-P2VGA / PUH-P2YGA  |                        |                                    |                 |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V / 3 phases, 50Hz, 380-400-415V (4wires)   |                        |                                    |                 |
| Running current                        | A                                  |  | 11.11 / 3.88           |                                    | 11.51 / 4.02    |
| Starting current                       | A                                  |  |                        | 74 / 30                            |                 |
| External finish                        |                                    | Munsell 5Y 8/1   |                        |                                    |                 |
| Refrigerant control                    |                                    | Linear Expansion Valve   |                        |                                    |                 |
| Compressor                             |                                    | Hermetic   |                        |                                    |                 |
| Model                                  |                                    | NE38VMJM / NE38YEJM  |                        |                                    |                 |
| Motor output                           |                                    | 1.7  |                        |                                    |                 |
| Starter type                           |                                    | Line start   |                        |                                    |                 |
| Protection devices                     |                                    | Inner thermostat, HP switch, Discharge thermo. / Thermal relay, Discharge thermo, HP switch, Anti-phase protector. |                        |                                    |                 |
| Crankcase heater                       |                                    | 38   |                        |                                    |                 |
| Heat exchanger                         |                                    | Plate fin coil   |                        |                                    |                 |
| Fan                                    | Fan (drive) x No.                  |  | Propeller (direct) x 1 |                                    |                 |
|  | Fan motor output                   | kW   |                        | 0.070                              |                 |
|  | Airflow                            | m³/min (CFM)   |                        | 55 (1,940)                         |                 |
| Defrost method                         |                                    | Reverse cycle  |                        |                                    |                 |
| Noise level                            |                                    | dB   |                        | 48                                 |                 |
|  | Cooling                            | dB   |                        | 49                                 |                 |
| Dimensions                             | Heating                            | mm (in.)   |                        | 900 (35-7/16)                      |                 |
|  | W                                  | mm (in.)   |                        | 330+20 (13+3/4)                    |                 |
|  | D                                  | mm (in.)   |                        | 855 (33-5/8)                       |                 |
| Weight                                 | H                                  | kg (lbs)   |                        | 71 (157)                           |                 |
| Refrigerant                            |                                    | R407C  |                        |                                    |                 |
| Charge                                 |                                    | 3.1 (6.8)  |                        |                                    |                 |
| Oil (Model)                            |                                    | 1.2 (Ester) MEL56  |                        |                                    |                 |
| Pipe size O.D.                         | Liquid                             | mm (in.)   |                        | 9.52 (3/8)                         |                 |
|  | Gas                                | mm (in.)   |                        | 15.88 (5/8)                        |                 |
| Connection method                      | Indoor side                        |  | Flared                 |                                    |                 |
|  | Outdoor side                       |  | Flared                 |                                    |                 |
| Between the indoor & outdoor unit      |                                    | Height difference  |                        | Max. 40m                           |                 |
|  | Piping length                      |  |                        | Max. 40m                           |                 |

Notes 1. Rating Conditions (ISO T1)

Cooling : Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)

Heating : Indoor : D.B. 20°C (68°F)

Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)

Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

|         |             | Indoor                | Outdoor               |
|---------|-------------|-----------------------|-----------------------|
| Cooling | Upper limit | D.B. 35°C W.B. 22.5°C | D.B. 46°C             |
|         | Lower limit | D.B. 19°C W.B. 15°C   | D.B. -5°C             |
| Heating | Upper limit | D.B. 28°C             | D.B. 24°C W.B. 18°C   |
|         | Lower limit | D.B. 17°C             | D.B. -11°C W.B. -12°C |

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz

\*1 : ( ) Shows the total rating.

\*2 : < > Shows the only booster heater rating.

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| Item                                   |                                    | Service Ref.   |   | PLH-P2.5KAH.UK |                 |  |  |  |
|--|------------------------------------|--|---|----------------|-----------------|--|--|--|
| Function                               |                                    |  |   | Cooling        |                 |  |  |  |
| Capacity                               | ※1                                 | Btu/h  |   | 21,500         | Heating         |  |  |  |
|  |                                    | W  |   | 6,300          | 25,200 (32,400) |  |  |  |
| Total input                            |                                    | kW   |   | 2.77           | 7,400 (9,500)   |  |  |  |
|  |                                    |  |   |                | 2.68 (4.78)     |  |  |  |
| Service Ref.                           |                                    | PLH-P2.5KAH.UK   |   |                |                 |  |  |  |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V   |   |                |                 |  |  |  |
| INDOOR UNIT                            | Input                              | ※2   | kW  | 0.14           | 0.10 <2.10>     |  |  |  |
|  | Running current                    | ※2   | A   | 0.61           | 0.45 <8.75>     |  |  |  |
|  | Starting current                   | ※2   | A   | 0.67           | 0.50 <8.75>     |  |  |  |
| External finish                        |                                    | Galvanized sheets with gray heat insulation                              |   |                |                 |  |  |  |
| Heat exchanger                         |                                    | Plate fin coil   |   |                |                 |  |  |  |
| Fan                                    | Fan (drive) x No.                  |  | Turbo fan (direct) x 1  |                |                 |  |  |  |
|  | Fan motor output                   | kW   | 0.030   |                |                 |  |  |  |
|  | Airflow (Low-Medium2-Medium1-High) | m³/min (CFM)   | 14-15-16-17 (494-530-565-600)   |                |                 |  |  |  |
|  | External static pressure           | Pa (mmAq)  | 0 (direct blow)   |                |                 |  |  |  |
| Booster heater                         |                                    | kW   | <2.1>   |                |                 |  |  |  |
| Operation control & Thermostat         |                                    | Remote controller & built-in   |   |                |                 |  |  |  |
| Noise level (Low-Medium2-Medium1-High) |                                    | dB   | 35-36.5-38-39.5   |                |                 |  |  |  |
| Unit drain pipe I.D.                   |                                    | mm (in.)   | 32 (1-1/4)  |                |                 |  |  |  |
| Dimensions                             | W                                  | mm (in.)   | UNIT : 660 (26) PANEL : 760 (30)  |                |                 |  |  |  |
|  | D                                  | mm (in.)   | UNIT : 660 (26) PANEL : 760 (30)  |                |                 |  |  |  |
|  | H                                  | mm (in.)   | UNIT : 253 (10) PANEL : 30 (1-1/8)  |                |                 |  |  |  |
| Weight                                 |                                    | kg (lbs)   | UNIT : 21 (46) PANEL : 3.7 (8)  |                |                 |  |  |  |
| Service Ref.                           |                                    | PUH-P2.5VGA <sub>1</sub> / PUH-P2.5YGA <sub>1</sub>                      |   |                |                 |  |  |  |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V / 3 phases, 50Hz, 380-400-415V (4wires) |   |                |                 |  |  |  |
| OUTDOOR UNIT                           | Running current                    | A  | 11.78 / 4.11  |                | 11.55 / 4.03    |  |  |  |
|  | Starting current                   | A  | 77 / 32   |                |                 |  |  |  |
| External finish                        |                                    | Munsell 5Y 8/1   |   |                |                 |  |  |  |
| Refrigerant control                    |                                    | Linear Expansion Valve   |   |                |                 |  |  |  |
| Compressor                             |                                    | Hermetic   |   |                |                 |  |  |  |
| Compressor                             | Model                              |  | NE41VMJM / NE41YEJM   |                |                 |  |  |  |
|  | Motor output                       | kW   | 1.9   |                |                 |  |  |  |
|  | Starter type                       |  | Line start  |                |                 |  |  |  |
|  | Protection devices                 |  | Internal thermostat, HP switch, Discharge thermo. / Thermal relay, Discharge thermo, HP switch, Anti-phase protector. |                |                 |  |  |  |
| Crankcase heater                       |                                    | W  | 38  |                |                 |  |  |  |
| Heat exchanger                         |                                    | Plate fin coil   |   |                |                 |  |  |  |
| Fan                                    | Fan (drive) x No.                  |  | Propeller (direct) x 1  |                |                 |  |  |  |
|  | Fan motor output                   | kW   | 0.070   |                |                 |  |  |  |
|  | Airflow                            | m³/min (CFM)   | 50 (1,770)  |                |                 |  |  |  |
| Defrost method                         |                                    | Reverse cycle  |   |                |                 |  |  |  |
| Dimensions                             | Noise level                        | dB   | 48  |                |                 |  |  |  |
|  | Cooling                            | dB   | 50  |                |                 |  |  |  |
| REFRIGERANT PIPING                     | Heating                            | mm (in.)   | 900 (35-7/16)   |                |                 |  |  |  |
|  | W                                  | mm (in.)   | 330+20 (13+3/4)   |                |                 |  |  |  |
|  | D                                  | mm (in.)   | 855 (33-5/8)  |                |                 |  |  |  |
| Weight                                 |                                    | H  | 82 (181)  |                |                 |  |  |  |
| Refrigerant                            |                                    | R407C  |   |                |                 |  |  |  |
| Refrigerant                            | Charge                             | kg (lbs)   | 3.3 (7.3)   |                |                 |  |  |  |
|  | Oil (Model)                        | L  | 1.2 (Ester) MEL56   |                |                 |  |  |  |
| Pipe size O.D.                         | Liquid                             | mm (in.)   | 9.52 (3/8)  |                |                 |  |  |  |
|  | Gas                                | mm (in.)   | 15.88 (5/8)   |                |                 |  |  |  |
| Connection method                      |                                    | Indoor side  | Flared  |                |                 |  |  |  |
|  |                                    | Outdoor side   | Flared  |                |                 |  |  |  |
| Between the indoor & outdoor unit      |                                    | Height difference  | Max. 50m  |                |                 |  |  |  |
|  |                                    | Piping length  | Max. 50m  |                |                 |  |  |  |

Notes 1. Rating Conditions (ISO T1)

Cooling : Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)

Heating : Indoor : D.B. 20°C (68°F)

Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)

Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

|         |             | Indoor                | Outdoor               |
|---------|-------------|-----------------------|-----------------------|
| Cooling | Upper limit | D.B. 35°C W.B. 22.5°C | D.B. 46°C             |
|         | Lower limit | D.B. 19°C W.B. 15°C   | D.B. -5°C             |
| Heating | Upper limit | D.B. 28°C             | D.B. 24°C W.B. 18°C   |
|         | Lower limit | D.B. 17°C             | D.B. -11°C W.B. -12°C |

\*1 : ( ) Shows the total rating.

\*2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz

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| Item                                   |                                    | Service Ref.   |   | PLH-P1.6KAH.UK / PLH-P1.6KAH.UK     |                 |
|--|------------------------------------|--|---|-------------------------------------|-----------------|
| Function                               |                                    |  |   | Cooling                             |                 |
| Capacity                               | *1                                 | Btu/h  |   | 15,000                              | Heating         |
|  |                                    | W  |   | 4,400                               | 17,100 (21,800) |
| Total input                            | *1                                 | kW   |   | 1.82                                | 5,000 (6,400)   |
|  |                                    | PLH-P1.6KAH.UK / PLH-P1.6KAH.UK  |   | 1.89 (3.29)                         |                 |
| INDOOR UNIT                            |                                    | Power supply (phase, cycle, voltage)                                     |   | Single phase, 50Hz, 220-230-240V    |                 |
| Fan                                    | Input                              | *2   | kW  | 0.15                                | 0.10 <1.40>     |
|  | Running current                    | *2   | A   | 0.64                                | 0.45 <5.83>     |
|  | Starting current                   | *2   | A   | 0.70                                | 0.50 <5.83>     |
| External finish                        |                                    | Galvanized sheets with gray heat insulation                              |   |                                     |                 |
| Heat exchanger                         |                                    | Plate fin coil   |   |                                     |                 |
| Booster heater                         | Fan (drive) x No.                  |  |   | Turbo fan (direct) x 1              |                 |
|  | Fan motor output                   | kW   |   | 0.030                               |                 |
|  | Airflow (Low-Medium2-Medium1-High) | m³/min (CFM)   |   | 13-14-15-16 (459-494-530-565)       |                 |
|  | External static pressure           | Pa (mmAq)  |   | 0 (direct blow)                     |                 |
| Operation control & Thermostat         |                                    | <1.4>  |   | Remote controller & built-in        |                 |
| Noise level (Low-Medium2-Medium1-High) |                                    | 32-34-35.5-37  |   |                                     |                 |
| Unit drain pipe I.D.                   |                                    | mm (in.)   |   | 32 (1-1/4)                          |                 |
| Dimensions                             | W                                  | mm (in.)   |   | UNIT : 660 (26) PANEL : 760 (30)    |                 |
|  | D                                  | mm (in.)   |   | UNIT : 660 (26) PANEL : 760 (30)    |                 |
|  | H                                  | mm (in.)   |   | UNIT : 253 (10) PANEL : 30 (1-3/16) |                 |
| Weight                                 |                                    | kg (lbs)   |   | UNIT : 20 (44) PANEL : 3.7 (8)      |                 |
| OUTDOOR UNIT                           |                                    | PUH-P1.6VGAA.UK / PUH-P1.6YGAA.UK  |   |                                     |                 |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V / 3 phases, 50Hz, 380-400-415V (4wires) |   |                                     |                 |
| Compressor                             | Running current                    | A  | 7.36 / 2.94   | 7.59 / 2.56                         |                 |
|  | Starting current                   | A  |   | 36 / 20                             |                 |
| External finish                        |                                    | Munsell 5Y 7/1   |   |                                     |                 |
| Refrigerant control                    |                                    | Linear Expansion Valve   |   |                                     |                 |
| Heat exchanger                         | Model                              |  | Hermetic  |                                     |                 |
|  | Motor output                       | kW   | RE277VHSMT / RE277YFKM  |                                     |                 |
|  | Starter type                       |  | 1.3   |                                     |                 |
|  | Protection devices                 |  | Line start  |                                     |                 |
| Crankcase heater                       | Crankcase heater                   | W  | Internal thermostat, HP switch, Discharge thermo. / Thermal relay, HP switch, Discharge thermo. |                                     |                 |
|  |                                    |  | 30  |                                     |                 |
|  |                                    |  |   |                                     |                 |
| Fan                                    |                                    | Plate fin coil   |   |                                     |                 |
| Defrost method                         | Fan (drive) x No.                  |  | Propeller (direct) x 1  |                                     |                 |
|  | Fan motor output                   | kW   | 0.070   |                                     |                 |
|  | Airflow                            | m³/min (CFM)   | 45 (1,590)  |                                     |                 |
| Noise level                            |                                    | Reverse cycle  |   |                                     |                 |
| Dimensions                             | Cooling                            | dB   | 47  |                                     |                 |
|  | Heating                            | dB   | 49  |                                     |                 |
|  | W                                  | mm (in.)   | 900 (35-7/16)   |                                     |                 |
| Weight                                 | D                                  | mm (in.)   | 330+20 (13+3/4)   |                                     |                 |
|  | H                                  | kg (lbs)   | 650 (25-5/8)  |                                     |                 |
|  |                                    |  | 55 (121)  |                                     |                 |
| REFRIGERANT PIPING                     |                                    | R407C  |   |                                     |                 |
| Refrigerant                            |                                    | 2.5 (5.5)  |   |                                     |                 |
| Charge                                 |                                    | 0.57 (Ester) MEL56   |   |                                     |                 |
| Connection method                      | Oil (Model)                        | L  |   |                                     |                 |
|  | Liquid                             | mm (in.)   | 9.52 (3/8)  |                                     |                 |
| Between the indoor & outdoor unit      | Gas                                | mm (in.)   | 15.88 (5/8)   |                                     |                 |
|  | Indoor side                        |  | Flared  |                                     |                 |
|  | Outdoor side                       |  | Flared  |                                     |                 |
| Piping length                          |                                    | Max. 40m   |   |                                     |                 |
| Height difference                      |                                    | Max. 40m   |   |                                     |                 |

Notes 1. Rating Conditions (ISO T1)

Cooling : Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)

Heating : Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)

Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

|         |             | Indoor                | Outdoor               |
|---------|-------------|-----------------------|-----------------------|
| Cooling | Upper limit | D.B. 35°C W.B. 22.5°C | D.B. 46°C             |
|         | Lower limit | D.B. 19°C W.B. 15°C   | D.B. -5°C             |
| Heating | Upper limit | D.B. 28°C             | D.B. 24°C W.B. 18°C   |
|         | Lower limit | D.B. 17°C             | D.B. -11°C W.B. -12°C |

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz

\*1 : ( ) Shows the total rating.

\*2 : < > Shows the only booster heater rating.

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| Item                                   |             | Service Ref.  |              | PLH-P2KAH.UK / PLH-P2KAH..UK        |                 |
|--|-------------|---|--------------|-------------------------------------|-----------------|
| Function                               |             |   |              | Cooling Heating                     |                 |
| Capacity                               | *1          | Btu/h   |              | 18,000                              | 20,300 (25,100) |
|  |             | W   |              | 5,300                               | 5,950 (7,350)   |
| Total input                            | *1          | kW  |              | 2.44                                | 2.40 (3.80)     |
| Service Ref.                           |             | PLH-P2KAH.UK / PLH-P2KAH..UK  |              |                                     |                 |
| Power supply (phase, cycle, voltage)   |             | Single phase, 50Hz, 220-230-240V  |              |                                     |                 |
| Input                                  | *2          | kW  |              | 0.14                                | 0.10 <1.40>     |
| Running current                        | *2          | A   |              | 0.65                                | 0.45 <5.83>     |
| Starting current                       | *2          | A   |              | 0.72                                | 0.50 <5.83>     |
| External finish                        |             | Galvanized sheets with gray heat insulation   |              |                                     |                 |
| Heat exchanger                         |             | Plate fin coil  |              |                                     |                 |
| INDOOR UNIT                            | Fan         | Fan (drive) x No.   |              | Turbo fan (direct) x 1              |                 |
|  |             | Fan motor output  | kW           | 0.030                               |                 |
|  |             | Airflow (Low-Medium2-Medium1-High)  | m³/min (CFM) | 13-14-15-16 (459-494-530-565)       |                 |
|  |             | External static pressure  | Pa (mmAq)    | 0 (direct blow)                     |                 |
| Booster heater                         |             | kW  |              | <1.4>                               |                 |
| Operation control & Thermostat         |             | Remote controller & built-in  |              |                                     |                 |
| Noise level (Low-Medium2-Medium1-High) |             | dB  |              | 32-34-35.5-37                       |                 |
| Unit drain pipe I.D.                   |             | mm (in.)  |              | 32 (1-1/4)                          |                 |
| Dimensions                             | W           | mm (in.)  |              | UNIT : 660 (26) PANEL : 760 (30)    |                 |
|  | D           | mm (in.)  |              | UNIT : 660 (26) PANEL : 760 (30)    |                 |
|  | H           | mm (in.)  |              | UNIT : 253 (10) PANEL : 30 (1-3/16) |                 |
| Weight                                 |             | kg (lbs)  |              | UNIT : 20 (44) PANEL : 3.7 (8)      |                 |
| Service Ref.                           |             | PUH-P2VGAA.UK / PUH-P2YGAA.UK   |              |                                     |                 |
| Power supply (phase, cycle, voltage)   |             | Single phase, 50Hz, 220-230-240V / 3 phases, 50Hz, 380-400-415V (4wires)                        |              |                                     |                 |
| Running current                        |             | A   | 10.26 / 3.70 | 10.57 / 3.82                        |                 |
| Starting current                       |             | A   |              | 62 / 31                             |                 |
| External finish                        |             | Munsell 5Y 7/1  |              |                                     |                 |
| Refrigerant control                    |             | Linear Expansion Valve  |              |                                     |                 |
| Compressor                             |             | Hermetic  |              |                                     |                 |
| Model                                  |             | NE36VMJMT / NE36YEKMT   |              |                                     |                 |
| Motor output                           |             | kW  |              | 1.6                                 |                 |
| Starter type                           |             | Line start  |              |                                     |                 |
| Protection devices                     |             | Internal thermostat, HP switch, Discharge thermo. / Thermal relay, HP switch, Discharge thermo. |              |                                     |                 |
| Crankcase heater                       |             | W   |              | 38                                  |                 |
| Heat exchanger                         |             | Plate fin coil  |              |                                     |                 |
| OUTDOOR UNIT                           | Fan         | Fan (drive) x No.   |              | Propeller (direct) x 1              |                 |
|  |             | Fan motor output  | kW           | 0.070                               |                 |
|  |             | Airflow   | m³/min (CFM) | 55 (1,940)                          |                 |
| Defrost method                         |             | Reverse cycle   |              |                                     |                 |
| Dimensions                             | Noise level | dB  |              | 48                                  |                 |
|  | Cooling     | dB  |              | 49                                  |                 |
|  | Heating     | mm (in.)  |              | 900 (35-7/16)                       |                 |
| REFRIGERANT PIPING                     | W           | mm (in.)  |              | 330+20 (13+3/4)                     |                 |
|  | D           | mm (in.)  |              | 855 (33-5/8)                        |                 |
|  | H           | kg (lbs)  |              | 71 (157)                            |                 |
| Refrigerant                            |             | R407C   |              |                                     |                 |
| Charge                                 |             | kg (lbs)  |              | 2.6 (5.7)                           |                 |
| Oil (Model)                            |             | L   |              | 1.2 (Ester) MEL56                   |                 |
| Pipe size O.D.                         | Liquid      | mm (in.)  |              | 9.52 (3/8)                          |                 |
|  | Gas         | mm (in.)  |              | 15.88 (5/8)                         |                 |
| Connection method                      |             | Indoor side   |              | Flared                              |                 |
|  |             | Outdoor side  |              | Flared                              |                 |
| Between the indoor & outdoor unit      |             | Height difference   |              | Max. 40m                            |                 |
|  |             | Piping length   |              | Max. 40m                            |                 |

Notes 1. Rating Conditions (ISO T1)

Cooling : Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)

Heating : Indoor : D.B. 20°C (68°F)

Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)

Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

|         |             | Indoor                | Outdoor               |
|---------|-------------|-----------------------|-----------------------|
| Cooling | Upper limit | D.B. 35°C W.B. 22.5°C | D.B. 46°C             |
|         | Lower limit | D.B. 19°C W.B. 15°C   | D.B. -5°C             |
| Heating | Upper limit | D.B. 28°C             | D.B. 24°C W.B. 18°C   |
|         | Lower limit | D.B. 17°C             | D.B. -11°C W.B. -12°C |

\*1 : ( ) Shows the total rating.

\*2 : < > Shows the only booster heater rating.

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz



| Item                                   |                                    | Service Ref.  |                        | PLH-P2.5KAH.UK / PLH-P2.5KAH1.UK    |                 |  |
|--|------------------------------------|---|------------------------|-------------------------------------|-----------------|--|
| Function                               |                                    |   |                        | Cooling Heating                     |                 |  |
| Capacity                               | *1                                 | Btu/h   |                        | 21,500                              | 25,200 (32,400) |  |
|  |                                    | W   |                        | 6,300                               | 7,400 (9,500)   |  |
| Total input                            | *1                                 | kW  |                        | 2.63                                | 2.57 (4.67)     |  |
| <b>Service Ref.</b>                    |                                    | <b>PLH-P2.5KAH.UK / PLH-P2.5KAH1.UK</b>   |                        |                                     |                 |  |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V  |                        |                                     |                 |  |
| Input                                  | *2                                 | kW  |                        | 0.14                                | 0.10 <2.10>     |  |
| Running current                        | *2                                 | A   |                        | 0.61                                | 0.45 <8.75>     |  |
| Starting current                       | *2                                 | A   |                        | 0.67                                | 0.50 <8.75>     |  |
| External finish                        |                                    | Galvanized sheets with gray heat insulation   |                        |                                     |                 |  |
| Heat exchanger                         |                                    | Plate fin coil  |                        |                                     |                 |  |
| Fan                                    | Fan (drive) x No.                  |   | Turbo fan (direct) x 1 |                                     |                 |  |
|  | Fan motor output                   | kW  |                        | 0.030                               |                 |  |
|  | Airflow (Low-Medium2-Medium1-High) | m³/min (CFM)  |                        | 14-15-16-17 (494-530-565-600)       |                 |  |
|  | External static pressure           | Pa (mmAq)   |                        | 0 (direct blow)                     |                 |  |
| Booster heater                         | *2                                 | kW  |                        | <2.1>                               |                 |  |
| Operation control & Thermostat         |                                    | Remote controller & built-in  |                        |                                     |                 |  |
| Noise level (Low-Medium2-Medium1-High) |                                    | 35-36.5-38-39.5   |                        |                                     |                 |  |
| Unit drain pipe I.D.                   |                                    | mm (in.)  |                        | 32 (1-1/4)                          |                 |  |
| Dimensions                             | W                                  | mm (in.)  |                        | UNIT : 660 (26) PANEL : 760 (30)    |                 |  |
|  | D                                  | mm (in.)  |                        | UNIT : 660 (26) PANEL : 760 (30)    |                 |  |
|  | H                                  | mm (in.)  |                        | UNIT : 253 (10) PANEL : 30 (1-3/16) |                 |  |
| Weight                                 |                                    | kg (lbs)  |                        | UNIT : 21 (46) PANEL : 3.7 (8)      |                 |  |
| <b>Service Ref.</b>                    |                                    | <b>PUH-P2.5VGAA.UK / PUH-P2.5YGAA.UK</b>  |                        |                                     |                 |  |
| Power supply (phase, cycle, voltage)   |                                    | Single phase, 50Hz, 220-230-240V / 3 phases, 50Hz, 380-400-415V (4wires)                        |                        |                                     |                 |  |
| Running current                        | A                                  |   | 11.90 / 4.48           | 11.51 / 4.34                        |                 |  |
| Starting current                       | A                                  |   | 77 / 35                |                                     |                 |  |
| External finish                        |                                    | Munsell 5Y 7/1  |                        |                                     |                 |  |
| Refrigerant control                    |                                    | Linear Expansion Valve  |                        |                                     |                 |  |
| Compressor                             |                                    | Hermetic  |                        |                                     |                 |  |
| Model                                  |                                    |   | NE41VMJMT / NE41YEKMT  |                                     |                 |  |
| Motor output                           |                                    | kW  | 1.9                    |                                     |                 |  |
| Starter type                           |                                    |   | Line start             |                                     |                 |  |
| Protection devices                     |                                    | Internal thermostat, HP switch, Discharge thermo. / Thermal relay, HP switch, Discharge thermo. |                        |                                     |                 |  |
| Crankcase heater                       |                                    | W   | 38                     |                                     |                 |  |
| Heat exchanger                         |                                    | Plate fin coil  |                        |                                     |                 |  |
| Fan                                    | Fan (drive) x No.                  |   | Propeller (direct) x 1 |                                     |                 |  |
|  | Fan motor output                   | kW  | 0.070                  |                                     |                 |  |
|  | Airflow                            | m³/min (CFM)  | 50 (1,770)             |                                     |                 |  |
| Defrost method                         |                                    | Reverse cycle   |                        |                                     |                 |  |
| Noise level                            |                                    | dB  | 48                     |                                     |                 |  |
|  | Cooling                            | dB  | 50                     |                                     |                 |  |
| Dimensions                             | Heating                            | mm (in.)  | 900 (35-7/16)          |                                     |                 |  |
|  | W                                  | mm (in.)  | 330+20 (13+3/4)        |                                     |                 |  |
|  | D                                  | mm (in.)  | 855 (33-5/8)           |                                     |                 |  |
| Weight                                 | H                                  | kg (lbs)  | 82 (181)               |                                     |                 |  |
| Refrigerant                            |                                    | R407C   |                        |                                     |                 |  |
| Charge                                 |                                    | kg (lbs)  | 3.1 (6.8)              |                                     |                 |  |
| Oil (Model)                            |                                    | L   | 1.2 (Ester) MEL56      |                                     |                 |  |
| Pipe size O.D.                         | Liquid                             | mm (in.)  | 9.52 (3/8)             |                                     |                 |  |
|  | Gas                                | mm (in.)  | 15.88 (5/8)            |                                     |                 |  |
| Connection method                      |                                    | Indoor side   | Flared                 |                                     |                 |  |
|  | Outdoor side                       |   | Flared                 |                                     |                 |  |
| Between the indoor & outdoor unit      |                                    | Height difference   | Max. 50m               |                                     |                 |  |
|  | Piping length                      |   | Max. 50m               |                                     |                 |  |

Notes 1. Rating Conditions (ISO T1)

Cooling : Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)

Heating : Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)

Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

|         |             | Indoor                | Outdoor               |
|---------|-------------|-----------------------|-----------------------|
| Cooling | Upper limit | D.B. 35°C W.B. 22.5°C | D.B. 46°C             |
|         | Lower limit | D.B. 19°C W.B. 15°C   | D.B. -5°C             |
| Heating | Upper limit | D.B. 28°C             | D.B. 24°C W.B. 18°C   |
|         | Lower limit | D.B. 17°C             | D.B. -11°C W.B. -12°C |

3. Above data based on indicated voltage

Indoor Unit 1 phase 240V 50Hz

Outdoor Unit 1 phase 240V 50Hz / 3 phase 415V 50Hz

\*1 : ( ) Shows the total rating.

\*2 : < > Shows the only booster heater rating.

## 1. PERFORMANCE DATA

### 1) COOLING CAPACITY(1)

PLH-P1.6KAH.UK / PUH-P1.6VGA, PUH-P1.6YGA

(240V)

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 20                          |        |      |      | 25   |        |      |      | 30   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 4356                        | 3049   | 0.70 | 1.49 | 4224 | 2957   | 0.70 | 1.57 | 4092 | 2864   | 0.70 | 1.66 |
| 20                               | 18                               | 4664                        | 2705   | 0.58 | 1.52 | 4532 | 2629   | 0.58 | 1.60 | 4378 | 2539   | 0.58 | 1.71 |
| 20                               | 20                               | 5016                        | 2307   | 0.46 | 1.56 | 4906 | 2257   | 0.46 | 1.64 | 4774 | 2196   | 0.46 | 1.75 |
| 22                               | 16                               | 4356                        | 3398   | 0.78 | 1.49 | 4224 | 3296   | 0.78 | 1.57 | 4092 | 3192   | 0.78 | 1.66 |
| 22                               | 18                               | 4664                        | 3078   | 0.66 | 1.52 | 4532 | 2991   | 0.66 | 1.60 | 4378 | 2889   | 0.66 | 1.71 |
| 22                               | 20                               | 5016                        | 2709   | 0.54 | 1.56 | 4906 | 2649   | 0.54 | 1.64 | 4774 | 2578   | 0.54 | 1.75 |
| 24                               | 16                               | 4356                        | 3746   | 0.86 | 1.49 | 4224 | 3633   | 0.86 | 1.57 | 4092 | 3519   | 0.86 | 1.66 |
| 24                               | 18                               | 4664                        | 3451   | 0.74 | 1.52 | 4532 | 3354   | 0.74 | 1.60 | 4378 | 3240   | 0.74 | 1.71 |
| 24                               | 20                               | 5016                        | 3110   | 0.62 | 1.56 | 4906 | 3042   | 0.62 | 1.64 | 4774 | 2960   | 0.62 | 1.75 |
| 24                               | 22                               | 5346                        | 2673   | 0.50 | 1.60 | 5236 | 2618   | 0.50 | 1.69 | 5104 | 2552   | 0.50 | 1.80 |
| 26                               | 16                               | 4356                        | 4095   | 0.94 | 1.49 | 4224 | 3971   | 0.94 | 1.57 | 4092 | 3846   | 0.94 | 1.66 |
| 26                               | 18                               | 4664                        | 3824   | 0.82 | 1.52 | 4532 | 3716   | 0.82 | 1.60 | 4378 | 3590   | 0.82 | 1.71 |
| 26                               | 20                               | 5016                        | 3511   | 0.70 | 1.56 | 4906 | 3434   | 0.70 | 1.64 | 4774 | 3342   | 0.70 | 1.75 |
| 26                               | 22                               | 5346                        | 3101   | 0.58 | 1.60 | 5236 | 3037   | 0.58 | 1.69 | 5104 | 2960   | 0.58 | 1.80 |
| 28                               | 16                               | 4356                        | 4356   | 1.00 | 1.49 | 4224 | 4224   | 1.00 | 1.57 | 4092 | 4092   | 1.00 | 1.66 |
| 28                               | 18                               | 4664                        | 4198   | 0.90 | 1.52 | 4532 | 4079   | 0.90 | 1.60 | 4378 | 3940   | 0.90 | 1.71 |
| 28                               | 20                               | 5016                        | 3912   | 0.78 | 1.56 | 4906 | 3827   | 0.78 | 1.64 | 4774 | 3724   | 0.78 | 1.75 |
| 28                               | 22                               | 5346                        | 3528   | 0.66 | 1.60 | 5236 | 3456   | 0.66 | 1.69 | 5104 | 3369   | 0.66 | 1.80 |
| 30                               | 16                               | 4356                        | 4356   | 1.00 | 1.49 | 4224 | 4224   | 1.00 | 1.57 | 4092 | 4092   | 1.00 | 1.66 |
| 30                               | 18                               | 4664                        | 4571   | 0.98 | 1.52 | 4532 | 4441   | 0.98 | 1.60 | 4378 | 4290   | 0.98 | 1.71 |
| 30                               | 20                               | 5016                        | 4314   | 0.86 | 1.56 | 4906 | 4219   | 0.86 | 1.64 | 4774 | 4106   | 0.86 | 1.75 |
| 30                               | 22                               | 5346                        | 3956   | 0.74 | 1.60 | 5236 | 3875   | 0.74 | 1.69 | 5104 | 3777   | 0.74 | 1.80 |
| 32                               | 16                               | 4356                        | 4356   | 1.00 | 1.49 | 4224 | 4224   | 1.00 | 1.57 | 4092 | 4092   | 1.00 | 1.66 |
| 32                               | 18                               | 4664                        | 4664   | 1.00 | 1.52 | 4532 | 4532   | 1.00 | 1.60 | 4378 | 4378   | 1.00 | 1.71 |
| 32                               | 20                               | 5016                        | 4715   | 0.94 | 1.56 | 4906 | 4612   | 0.94 | 1.64 | 4774 | 4488   | 0.94 | 1.75 |
| 32                               | 22                               | 5346                        | 4384   | 0.82 | 1.60 | 5236 | 4294   | 0.82 | 1.69 | 5104 | 4185   | 0.82 | 1.80 |
| 34                               | 16                               | 4356                        | 4356   | 1.00 | 1.49 | 4224 | 4224   | 1.00 | 1.57 | 4092 | 4092   | 1.00 | 1.66 |
| 34                               | 18                               | 4664                        | 4664   | 1.00 | 1.52 | 4532 | 4532   | 1.00 | 1.60 | 4378 | 4378   | 1.00 | 1.71 |
| 34                               | 20                               | 5016                        | 5016   | 1.00 | 1.56 | 4906 | 4906   | 1.00 | 1.64 | 4774 | 4774   | 1.00 | 1.75 |
| 34                               | 22                               | 5346                        | 4811   | 0.90 | 1.60 | 5236 | 4712   | 0.90 | 1.69 | 5104 | 4594   | 0.90 | 1.80 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

**COOLING CAPACITY(2)**
**PLH-P1.6KAH.UK / PUH-P1.6VGA, PUH-P1.6YGA**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 35                          |        |      |      | 40   |        |      |      | 45   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 3916                        | 2741   | 0.70 | 1.79 | 3740 | 2618   | 0.70 | 1.92 | 3652 | 2556   | 0.70 | 2.01 |
| 20                               | 18                               | 4224                        | 2450   | 0.58 | 1.83 | 4092 | 2373   | 0.58 | 1.97 | 3960 | 2297   | 0.58 | 2.06 |
| 20                               | 20                               | 4576                        | 2105   | 0.46 | 1.88 | 4400 | 2024   | 0.46 | 2.01 | 4268 | 1963   | 0.46 | 2.10 |
| 22                               | 16                               | 3916                        | 3054   | 0.78 | 1.79 | 3740 | 2917   | 0.78 | 1.92 | 3652 | 2849   | 0.78 | 2.01 |
| 22                               | 18                               | 4224                        | 2788   | 0.66 | 1.83 | 4092 | 2701   | 0.66 | 1.97 | 3960 | 2614   | 0.66 | 2.06 |
| 22                               | 20                               | 4576                        | 2471   | 0.54 | 1.88 | 4400 | 2376   | 0.54 | 2.01 | 4268 | 2305   | 0.54 | 2.10 |
| 24                               | 16                               | 3916                        | 3368   | 0.86 | 1.79 | 3740 | 3216   | 0.86 | 1.92 | 3652 | 3141   | 0.86 | 2.01 |
| 24                               | 18                               | 4224                        | 3126   | 0.74 | 1.83 | 4092 | 3028   | 0.74 | 1.97 | 3960 | 2930   | 0.74 | 2.06 |
| 24                               | 20                               | 4576                        | 2837   | 0.62 | 1.88 | 4400 | 2728   | 0.62 | 2.01 | 4268 | 2646   | 0.62 | 2.10 |
| 24                               | 22                               | 4928                        | 2464   | 0.50 | 1.92 | 4752 | 2376   | 0.50 | 2.06 | 4620 | 2310   | 0.50 | 2.16 |
| 26                               | 16                               | 3916                        | 3681   | 0.94 | 1.79 | 3740 | 3516   | 0.94 | 1.92 | 3652 | 3433   | 0.94 | 2.01 |
| 26                               | 18                               | 4224                        | 3464   | 0.82 | 1.83 | 4092 | 3355   | 0.82 | 1.97 | 3960 | 3247   | 0.82 | 2.06 |
| 26                               | 20                               | 4576                        | 3203   | 0.70 | 1.88 | 4400 | 3080   | 0.70 | 2.01 | 4268 | 2988   | 0.70 | 2.10 |
| 26                               | 22                               | 4928                        | 2858   | 0.58 | 1.92 | 4752 | 2756   | 0.58 | 2.06 | 4620 | 2680   | 0.58 | 2.16 |
| 28                               | 16                               | 3916                        | 3916   | 1.00 | 1.79 | 3740 | 3740   | 1.00 | 1.92 | 3652 | 3652   | 1.00 | 2.01 |
| 28                               | 18                               | 4224                        | 3802   | 0.90 | 1.83 | 4092 | 3683   | 0.90 | 1.97 | 3960 | 3564   | 0.90 | 2.06 |
| 28                               | 20                               | 4576                        | 3569   | 0.78 | 1.88 | 4400 | 3432   | 0.78 | 2.01 | 4268 | 3329   | 0.78 | 2.10 |
| 28                               | 22                               | 4928                        | 3252   | 0.66 | 1.92 | 4752 | 3136   | 0.66 | 2.06 | 4620 | 3049   | 0.66 | 2.16 |
| 30                               | 16                               | 3916                        | 3916   | 1.00 | 1.79 | 3740 | 3740   | 1.00 | 1.92 | 3652 | 3652   | 1.00 | 2.01 |
| 30                               | 18                               | 4224                        | 4140   | 0.98 | 1.83 | 4092 | 4010   | 0.98 | 1.97 | 3960 | 3881   | 0.98 | 2.06 |
| 30                               | 20                               | 4576                        | 3935   | 0.86 | 1.88 | 4400 | 3784   | 0.86 | 2.01 | 4268 | 3670   | 0.86 | 2.10 |
| 30                               | 22                               | 4928                        | 3647   | 0.74 | 1.92 | 4752 | 3516   | 0.74 | 2.06 | 4620 | 3419   | 0.74 | 2.16 |
| 32                               | 16                               | 3916                        | 3916   | 1.00 | 1.79 | 3740 | 3740   | 1.00 | 1.92 | 3652 | 3652   | 1.00 | 2.01 |
| 32                               | 18                               | 4224                        | 4224   | 1.00 | 1.83 | 4092 | 4092   | 1.00 | 1.97 | 3960 | 3960   | 1.00 | 2.06 |
| 32                               | 20                               | 4576                        | 4301   | 0.94 | 1.88 | 4400 | 4136   | 0.94 | 2.01 | 4268 | 4012   | 0.94 | 2.10 |
| 32                               | 22                               | 4928                        | 4041   | 0.82 | 1.92 | 4752 | 3897   | 0.82 | 2.06 | 4620 | 3788   | 0.82 | 2.16 |
| 34                               | 16                               | 3916                        | 3916   | 1.00 | 1.79 | 3740 | 3740   | 1.00 | 1.92 | 3652 | 3652   | 1.00 | 2.01 |
| 34                               | 18                               | 4224                        | 4224   | 1.00 | 1.83 | 4092 | 4092   | 1.00 | 1.97 | 3960 | 3960   | 1.00 | 2.06 |
| 34                               | 20                               | 4576                        | 4576   | 1.00 | 1.88 | 4400 | 4400   | 1.00 | 2.01 | 4268 | 4268   | 1.00 | 2.10 |
| 34                               | 22                               | 4928                        | 4435   | 0.90 | 1.92 | 4752 | 4277   | 0.90 | 2.06 | 4620 | 4158   | 0.90 | 2.16 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

**COOLING CAPACITY(3)**  
**PLH-P2KAH.UK / PUH-P2VGA, PUH-P2YGA**

(240V)

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 20                          |        |      |      | 25   |        |      |      | 30   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 5346                        | 3421   | 0.64 | 2.10 | 5184 | 3318   | 0.64 | 2.21 | 5022 | 3214   | 0.64 | 2.34 |
| 20                               | 18                               | 5724                        | 2976   | 0.52 | 2.14 | 5562 | 2892   | 0.52 | 2.25 | 5373 | 2794   | 0.52 | 2.41 |
| 20                               | 20                               | 6156                        | 2462   | 0.40 | 2.20 | 6021 | 2408   | 0.40 | 2.31 | 5859 | 2344   | 0.40 | 2.46 |
| 22                               | 16                               | 5346                        | 3849   | 0.72 | 2.10 | 5184 | 3732   | 0.72 | 2.21 | 5022 | 3616   | 0.72 | 2.34 |
| 22                               | 18                               | 5724                        | 3434   | 0.60 | 2.14 | 5562 | 3337   | 0.60 | 2.25 | 5373 | 3224   | 0.60 | 2.41 |
| 22                               | 20                               | 6156                        | 2955   | 0.48 | 2.20 | 6021 | 2890   | 0.48 | 2.31 | 5859 | 2812   | 0.48 | 2.46 |
| 24                               | 16                               | 5346                        | 4277   | 0.80 | 2.10 | 5184 | 4147   | 0.80 | 2.21 | 5022 | 4018   | 0.80 | 2.34 |
| 24                               | 18                               | 5724                        | 3892   | 0.68 | 2.14 | 5562 | 3782   | 0.68 | 2.25 | 5373 | 3654   | 0.68 | 2.41 |
| 24                               | 20                               | 6156                        | 3447   | 0.56 | 2.20 | 6021 | 3372   | 0.56 | 2.31 | 5859 | 3281   | 0.56 | 2.46 |
| 24                               | 22                               | 6561                        | 2887   | 0.44 | 2.25 | 6426 | 2827   | 0.44 | 2.38 | 6264 | 2756   | 0.44 | 2.54 |
| 26                               | 16                               | 5346                        | 4704   | 0.88 | 2.10 | 5184 | 4562   | 0.88 | 2.21 | 5022 | 4419   | 0.88 | 2.34 |
| 26                               | 18                               | 5724                        | 4350   | 0.76 | 2.14 | 5562 | 4227   | 0.76 | 2.25 | 5373 | 4083   | 0.76 | 2.41 |
| 26                               | 20                               | 6156                        | 3940   | 0.64 | 2.20 | 6021 | 3853   | 0.64 | 2.31 | 5859 | 3750   | 0.64 | 2.46 |
| 26                               | 22                               | 6561                        | 3412   | 0.52 | 2.25 | 6426 | 3342   | 0.52 | 2.38 | 6264 | 3257   | 0.52 | 2.54 |
| 28                               | 16                               | 5346                        | 5132   | 0.96 | 2.10 | 5184 | 4977   | 0.96 | 2.21 | 5022 | 4821   | 0.96 | 2.34 |
| 28                               | 18                               | 5724                        | 4808   | 0.84 | 2.14 | 5562 | 4672   | 0.84 | 2.25 | 5373 | 4513   | 0.84 | 2.41 |
| 28                               | 20                               | 6156                        | 4432   | 0.72 | 2.20 | 6021 | 4335   | 0.72 | 2.31 | 5859 | 4218   | 0.72 | 2.46 |
| 28                               | 22                               | 6561                        | 3937   | 0.60 | 2.25 | 6426 | 3856   | 0.60 | 2.38 | 6264 | 3758   | 0.60 | 2.54 |
| 30                               | 16                               | 5346                        | 5346   | 1.00 | 2.10 | 5184 | 5184   | 1.00 | 2.21 | 5022 | 5022   | 1.00 | 2.34 |
| 30                               | 18                               | 5724                        | 5266   | 0.92 | 2.14 | 5562 | 5117   | 0.92 | 2.25 | 5373 | 4943   | 0.92 | 2.41 |
| 30                               | 20                               | 6156                        | 4925   | 0.80 | 2.20 | 6021 | 4817   | 0.80 | 2.31 | 5859 | 4687   | 0.80 | 2.46 |
| 30                               | 22                               | 6561                        | 4461   | 0.68 | 2.25 | 6426 | 4370   | 0.68 | 2.38 | 6264 | 4260   | 0.68 | 2.54 |
| 32                               | 16                               | 5346                        | 5346   | 1.00 | 2.10 | 5184 | 5184   | 1.00 | 2.21 | 5022 | 5022   | 1.00 | 2.34 |
| 32                               | 18                               | 5724                        | 5724   | 1.00 | 2.14 | 5562 | 5562   | 1.00 | 2.25 | 5373 | 5373   | 1.00 | 2.41 |
| 32                               | 20                               | 6156                        | 5417   | 0.88 | 2.20 | 6021 | 5298   | 0.88 | 2.31 | 5859 | 5156   | 0.88 | 2.46 |
| 32                               | 22                               | 6561                        | 4986   | 0.76 | 2.25 | 6426 | 4884   | 0.76 | 2.38 | 6264 | 4761   | 0.76 | 2.54 |
| 34                               | 16                               | 5346                        | 5346   | 1.00 | 2.10 | 5184 | 5184   | 1.00 | 2.21 | 5022 | 5022   | 1.00 | 2.34 |
| 34                               | 18                               | 5724                        | 5724   | 1.00 | 2.14 | 5562 | 5562   | 1.00 | 2.25 | 5373 | 5373   | 1.00 | 2.41 |
| 34                               | 20                               | 6156                        | 5910   | 0.96 | 2.20 | 6021 | 5780   | 0.96 | 2.31 | 5859 | 5625   | 0.96 | 2.46 |
| 34                               | 22                               | 6561                        | 5511   | 0.84 | 2.25 | 6426 | 5398   | 0.84 | 2.38 | 6264 | 5262   | 0.84 | 2.54 |

Note CA : Capacity (W)  
P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity  
SHF : Sensible heat factor

**COOLING CAPACITY(4)**
**PLH-P2KAH.UK / PUH-P2VGA, PUH-P2YGA**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 35                          |        |      |      | 40   |        |      |      | 45   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 4806                        | 3076   | 0.64 | 2.52 | 4590 | 2938   | 0.64 | 2.70 | 4374 | 2799   | 0.64 | 2.92 |
| 20                               | 18                               | 5184                        | 2696   | 0.52 | 2.58 | 5022 | 2611   | 0.52 | 2.78 | 4698 | 2443   | 0.52 | 2.99 |
| 20                               | 20                               | 5616                        | 2246   | 0.40 | 2.65 | 5400 | 2160   | 0.40 | 2.83 | 5076 | 2030   | 0.40 | 3.04 |
| 22                               | 16                               | 4806                        | 3460   | 0.72 | 2.52 | 4590 | 3305   | 0.72 | 2.70 | 4374 | 3149   | 0.72 | 2.92 |
| 22                               | 18                               | 5184                        | 3110   | 0.60 | 2.58 | 5022 | 3013   | 0.60 | 2.78 | 4698 | 2819   | 0.60 | 2.99 |
| 22                               | 20                               | 5616                        | 2696   | 0.48 | 2.65 | 5400 | 2592   | 0.48 | 2.83 | 5076 | 2436   | 0.48 | 3.04 |
| 24                               | 16                               | 4806                        | 3845   | 0.80 | 2.52 | 4590 | 3672   | 0.80 | 2.70 | 4374 | 3499   | 0.80 | 2.92 |
| 24                               | 18                               | 5184                        | 3525   | 0.68 | 2.58 | 5022 | 3415   | 0.68 | 2.78 | 4698 | 3195   | 0.68 | 2.99 |
| 24                               | 20                               | 5616                        | 3145   | 0.56 | 2.65 | 5400 | 3024   | 0.56 | 2.83 | 5076 | 2843   | 0.56 | 3.04 |
| 24                               | 22                               | 6048                        | 2661   | 0.44 | 2.70 | 5832 | 2566   | 0.44 | 2.91 | 5508 | 2424   | 0.44 | 3.09 |
| 26                               | 16                               | 4806                        | 4229   | 0.88 | 2.52 | 4590 | 4039   | 0.88 | 2.70 | 4374 | 3849   | 0.88 | 2.92 |
| 26                               | 18                               | 5184                        | 3940   | 0.76 | 2.58 | 5022 | 3817   | 0.76 | 2.78 | 4698 | 3570   | 0.76 | 2.99 |
| 26                               | 20                               | 5616                        | 3594   | 0.64 | 2.65 | 5400 | 3456   | 0.64 | 2.83 | 5076 | 3249   | 0.64 | 3.04 |
| 26                               | 22                               | 6048                        | 3145   | 0.52 | 2.70 | 5832 | 3033   | 0.52 | 2.91 | 5508 | 2864   | 0.52 | 3.09 |
| 28                               | 16                               | 4806                        | 4614   | 0.96 | 2.52 | 4590 | 4406   | 0.96 | 2.70 | 4374 | 4199   | 0.96 | 2.92 |
| 28                               | 18                               | 5184                        | 4355   | 0.84 | 2.58 | 5022 | 4218   | 0.84 | 2.78 | 4698 | 3946   | 0.84 | 2.99 |
| 28                               | 20                               | 5616                        | 4044   | 0.72 | 2.65 | 5400 | 3888   | 0.72 | 2.83 | 5076 | 3655   | 0.72 | 3.04 |
| 28                               | 22                               | 6048                        | 3629   | 0.60 | 2.70 | 5832 | 3499   | 0.60 | 2.91 | 5508 | 3305   | 0.60 | 3.09 |
| 30                               | 16                               | 4806                        | 4806   | 1.00 | 2.52 | 4590 | 4590   | 1.00 | 2.70 | 4374 | 4374   | 1.00 | 2.92 |
| 30                               | 18                               | 5184                        | 4769   | 0.92 | 2.58 | 5022 | 4620   | 0.92 | 2.78 | 4698 | 4322   | 0.92 | 2.99 |
| 30                               | 20                               | 5616                        | 4493   | 0.80 | 2.65 | 5400 | 4320   | 0.80 | 2.83 | 5076 | 4061   | 0.80 | 3.04 |
| 30                               | 22                               | 6048                        | 4113   | 0.68 | 2.70 | 5832 | 3966   | 0.68 | 2.91 | 5508 | 3745   | 0.68 | 3.09 |
| 32                               | 16                               | 4806                        | 4806   | 1.00 | 2.52 | 4590 | 4590   | 1.00 | 2.70 | 4374 | 4374   | 1.00 | 2.92 |
| 32                               | 18                               | 5184                        | 5184   | 1.00 | 2.58 | 5022 | 5022   | 1.00 | 2.78 | 4698 | 4698   | 1.00 | 2.99 |
| 32                               | 20                               | 5616                        | 4942   | 0.88 | 2.65 | 5400 | 4752   | 0.88 | 2.83 | 5076 | 4467   | 0.88 | 3.04 |
| 32                               | 22                               | 6048                        | 4596   | 0.76 | 2.70 | 5832 | 4432   | 0.76 | 2.91 | 5508 | 4186   | 0.76 | 3.09 |
| 34                               | 16                               | 4806                        | 4806   | 1.00 | 2.52 | 4590 | 4590   | 1.00 | 2.70 | 4374 | 4374   | 1.00 | 2.92 |
| 34                               | 18                               | 5184                        | 5184   | 1.00 | 2.58 | 5022 | 5022   | 1.00 | 2.78 | 4698 | 4698   | 1.00 | 2.99 |
| 34                               | 20                               | 5616                        | 5391   | 0.96 | 2.65 | 5400 | 5184   | 0.96 | 2.83 | 5076 | 4873   | 0.96 | 3.04 |
| 34                               | 22                               | 6048                        | 5080   | 0.84 | 2.70 | 5832 | 4899   | 0.84 | 2.91 | 5508 | 4627   | 0.84 | 3.09 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

**COOLING CAPACITY(5)**
**PLH-P2.5KAH.UK / PUH-P2.5VGA<sub>1</sub>, PUH-P2.5YGA<sub>1</sub>**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 20                          |        |      |      | 25   |        |      |      | 30   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 6237                        | 4054   | 0.65 | 2.22 | 6048 | 3931   | 0.65 | 2.34 | 5859 | 3808   | 0.65 | 2.48 |
| 20                               | 18                               | 6678                        | 3539   | 0.53 | 2.26 | 6489 | 3439   | 0.53 | 2.38 | 6269 | 3322   | 0.53 | 2.55 |
| 20                               | 20                               | 7182                        | 2945   | 0.41 | 2.33 | 7025 | 2880   | 0.41 | 2.44 | 6836 | 2803   | 0.41 | 2.60 |
| 22                               | 16                               | 6237                        | 4553   | 0.73 | 2.22 | 6048 | 4415   | 0.73 | 2.34 | 5859 | 4277   | 0.73 | 2.48 |
| 22                               | 18                               | 6678                        | 4074   | 0.61 | 2.26 | 6489 | 3958   | 0.61 | 2.38 | 6269 | 3824   | 0.61 | 2.55 |
| 22                               | 20                               | 7182                        | 3519   | 0.49 | 2.33 | 7025 | 3442   | 0.49 | 2.44 | 6836 | 3349   | 0.49 | 2.60 |
| 24                               | 16                               | 6237                        | 5052   | 0.81 | 2.22 | 6048 | 4899   | 0.81 | 2.34 | 5859 | 4746   | 0.81 | 2.48 |
| 24                               | 18                               | 6678                        | 4608   | 0.69 | 2.26 | 6489 | 4477   | 0.69 | 2.38 | 6269 | 4325   | 0.69 | 2.55 |
| 24                               | 20                               | 7182                        | 4094   | 0.57 | 2.33 | 7025 | 4004   | 0.57 | 2.44 | 6836 | 3896   | 0.57 | 2.60 |
| 24                               | 22                               | 7655                        | 3445   | 0.45 | 2.38 | 7497 | 3374   | 0.45 | 2.52 | 7308 | 3289   | 0.45 | 2.69 |
| 26                               | 16                               | 6237                        | 5551   | 0.89 | 2.22 | 6048 | 5383   | 0.89 | 2.34 | 5859 | 5215   | 0.89 | 2.48 |
| 26                               | 18                               | 6678                        | 5142   | 0.77 | 2.26 | 6489 | 4997   | 0.77 | 2.38 | 6269 | 4827   | 0.77 | 2.55 |
| 26                               | 20                               | 7182                        | 4668   | 0.65 | 2.33 | 7025 | 4566   | 0.65 | 2.44 | 6836 | 4443   | 0.65 | 2.60 |
| 26                               | 22                               | 7655                        | 4057   | 0.53 | 2.38 | 7497 | 3973   | 0.53 | 2.52 | 7308 | 3873   | 0.53 | 2.69 |
| 28                               | 16                               | 6237                        | 6050   | 0.97 | 2.22 | 6048 | 5867   | 0.97 | 2.34 | 5859 | 5683   | 0.97 | 2.48 |
| 28                               | 18                               | 6678                        | 5676   | 0.85 | 2.26 | 6489 | 5516   | 0.85 | 2.38 | 6269 | 5328   | 0.85 | 2.55 |
| 28                               | 20                               | 7182                        | 5243   | 0.73 | 2.33 | 7025 | 5128   | 0.73 | 2.44 | 6836 | 4990   | 0.73 | 2.60 |
| 28                               | 22                               | 7655                        | 4669   | 0.61 | 2.38 | 7497 | 4573   | 0.61 | 2.52 | 7308 | 4458   | 0.61 | 2.69 |
| 30                               | 16                               | 6237                        | 6237   | 1.00 | 2.22 | 6048 | 6048   | 1.00 | 2.34 | 5859 | 5859   | 1.00 | 2.48 |
| 30                               | 18                               | 6678                        | 6211   | 0.93 | 2.26 | 6489 | 6035   | 0.93 | 2.38 | 6269 | 5830   | 0.93 | 2.55 |
| 30                               | 20                               | 7182                        | 5817   | 0.81 | 2.33 | 7025 | 5690   | 0.81 | 2.44 | 6836 | 5537   | 0.81 | 2.60 |
| 30                               | 22                               | 7655                        | 5282   | 0.69 | 2.38 | 7497 | 5173   | 0.69 | 2.52 | 7308 | 5043   | 0.69 | 2.69 |
| 32                               | 16                               | 6237                        | 6237   | 1.00 | 2.22 | 6048 | 6048   | 1.00 | 2.34 | 5859 | 5859   | 1.00 | 2.48 |
| 32                               | 18                               | 6678                        | 6678   | 1.00 | 2.26 | 6489 | 6489   | 1.00 | 2.38 | 6269 | 6269   | 1.00 | 2.55 |
| 32                               | 20                               | 7182                        | 6392   | 0.89 | 2.33 | 7025 | 6252   | 0.89 | 2.44 | 6836 | 6084   | 0.89 | 2.60 |
| 32                               | 22                               | 7655                        | 5894   | 0.77 | 2.38 | 7497 | 5773   | 0.77 | 2.52 | 7308 | 5627   | 0.77 | 2.69 |
| 34                               | 16                               | 6237                        | 6237   | 1.00 | 2.22 | 6048 | 6048   | 1.00 | 2.34 | 5859 | 5859   | 1.00 | 2.48 |
| 34                               | 18                               | 6678                        | 6678   | 1.00 | 2.26 | 6489 | 6489   | 1.00 | 2.38 | 6269 | 6269   | 1.00 | 2.55 |
| 34                               | 20                               | 7182                        | 6967   | 0.97 | 2.33 | 7025 | 6814   | 0.97 | 2.44 | 6836 | 6630   | 0.97 | 2.60 |
| 34                               | 22                               | 7655                        | 6506   | 0.85 | 2.38 | 7497 | 6372   | 0.85 | 2.52 | 7308 | 6212   | 0.85 | 2.69 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

**COOLING CAPACITY(6)**
**PLH-P2.5KAH.UK / PUH-P2.5VGA<sub>1</sub>, PUH-P2.5YGA<sub>1</sub>**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 35                          |        |      |      | 40   |        |      |      | 45   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 5607                        | 3645   | 0.65 | 2.66 | 5355 | 3481   | 0.65 | 2.85 | 5103 | 3317   | 0.65 | 3.09 |
| 20                               | 18                               | 6048                        | 3205   | 0.53 | 2.73 | 5859 | 3105   | 0.53 | 2.94 | 5481 | 2905   | 0.53 | 3.16 |
| 20                               | 20                               | 6552                        | 2666   | 0.41 | 2.80 | 6300 | 2583   | 0.41 | 2.99 | 5922 | 2428   | 0.41 | 3.21 |
| 22                               | 16                               | 5607                        | 4093   | 0.73 | 2.66 | 5355 | 3909   | 0.73 | 2.85 | 5103 | 3725   | 0.73 | 3.09 |
| 22                               | 18                               | 6048                        | 3689   | 0.61 | 2.73 | 5859 | 3574   | 0.61 | 2.94 | 5481 | 3343   | 0.61 | 3.16 |
| 22                               | 20                               | 6552                        | 3201   | 0.49 | 2.80 | 6300 | 3087   | 0.49 | 2.99 | 5922 | 2902   | 0.49 | 3.21 |
| 24                               | 16                               | 5607                        | 4542   | 0.81 | 2.66 | 5355 | 4338   | 0.81 | 2.85 | 5103 | 4133   | 0.81 | 3.09 |
| 24                               | 18                               | 6048                        | 4173   | 0.69 | 2.73 | 5859 | 4043   | 0.69 | 2.94 | 5481 | 3782   | 0.69 | 3.16 |
| 24                               | 20                               | 6552                        | 3735   | 0.57 | 2.80 | 6300 | 3591   | 0.57 | 2.99 | 5922 | 3376   | 0.57 | 3.21 |
| 24                               | 22                               | 7056                        | 3175   | 0.45 | 2.85 | 6804 | 3062   | 0.45 | 3.07 | 6426 | 2892   | 0.45 | 3.27 |
| 26                               | 16                               | 5607                        | 4990   | 0.89 | 2.66 | 5355 | 4766   | 0.89 | 2.85 | 5103 | 4542   | 0.89 | 3.09 |
| 26                               | 18                               | 6048                        | 4657   | 0.77 | 2.73 | 5859 | 4511   | 0.77 | 2.94 | 5481 | 4220   | 0.77 | 3.16 |
| 26                               | 20                               | 6552                        | 4259   | 0.65 | 2.80 | 6300 | 4095   | 0.65 | 2.99 | 5922 | 3849   | 0.65 | 3.21 |
| 26                               | 22                               | 7056                        | 3740   | 0.53 | 2.85 | 6804 | 3606   | 0.53 | 3.07 | 6426 | 3406   | 0.53 | 3.27 |
| 28                               | 16                               | 5607                        | 5439   | 0.97 | 2.66 | 5355 | 5194   | 0.97 | 2.85 | 5103 | 4950   | 0.97 | 3.09 |
| 28                               | 18                               | 6048                        | 5141   | 0.85 | 2.73 | 5859 | 4980   | 0.85 | 2.94 | 5481 | 4659   | 0.85 | 3.16 |
| 28                               | 20                               | 6552                        | 4783   | 0.73 | 2.80 | 6300 | 4599   | 0.73 | 2.99 | 5922 | 4323   | 0.73 | 3.21 |
| 28                               | 22                               | 7056                        | 4304   | 0.61 | 2.85 | 6804 | 4150   | 0.61 | 3.07 | 6426 | 3920   | 0.61 | 3.27 |
| 30                               | 16                               | 5607                        | 5607   | 1.00 | 2.66 | 5355 | 5355   | 1.00 | 2.85 | 5103 | 5103   | 1.00 | 3.09 |
| 30                               | 18                               | 6048                        | 5625   | 0.93 | 2.73 | 5859 | 5449   | 0.93 | 2.94 | 5481 | 5097   | 0.93 | 3.16 |
| 30                               | 20                               | 6552                        | 5307   | 0.81 | 2.80 | 6300 | 5103   | 0.81 | 2.99 | 5922 | 4797   | 0.81 | 3.21 |
| 30                               | 22                               | 7056                        | 4869   | 0.69 | 2.85 | 6804 | 4695   | 0.69 | 3.07 | 6426 | 4434   | 0.69 | 3.27 |
| 32                               | 16                               | 5607                        | 5607   | 1.00 | 2.66 | 5355 | 5355   | 1.00 | 2.85 | 5103 | 5103   | 1.00 | 3.09 |
| 32                               | 18                               | 6048                        | 6048   | 1.00 | 2.73 | 5859 | 5859   | 1.00 | 2.94 | 5481 | 5481   | 1.00 | 3.16 |
| 32                               | 20                               | 6552                        | 5831   | 0.89 | 2.80 | 6300 | 5607   | 0.89 | 2.99 | 5922 | 5271   | 0.89 | 3.21 |
| 32                               | 22                               | 7056                        | 5433   | 0.77 | 2.85 | 6804 | 5239   | 0.77 | 3.07 | 6426 | 4948   | 0.77 | 3.27 |
| 34                               | 16                               | 5607                        | 5607   | 1.00 | 2.66 | 5355 | 5355   | 1.00 | 2.85 | 5103 | 5103   | 1.00 | 3.09 |
| 34                               | 18                               | 6048                        | 6048   | 1.00 | 2.73 | 5859 | 5859   | 1.00 | 2.94 | 5481 | 5481   | 1.00 | 3.16 |
| 34                               | 20                               | 6552                        | 6355   | 0.97 | 2.80 | 6300 | 6111   | 0.97 | 2.99 | 5922 | 5744   | 0.97 | 3.21 |
| 34                               | 22                               | 7056                        | 5998   | 0.85 | 2.85 | 6804 | 5783   | 0.85 | 3.07 | 6426 | 5462   | 0.85 | 3.27 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

**COOLING CAPACITY(7)**
**PLH-P1.6KAH.UK, PLH-P1.6KAH1.UK / PUH-P1.6VGAA.UK, PUH-P1.6YGAA.UK**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 20                          |        |      |      | 25   |        |      |      | 30   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 4356                        | 3049   | 0.70 | 1.46 | 4224 | 2957   | 0.70 | 1.54 | 4092 | 2864   | 0.70 | 1.63 |
| 20                               | 18                               | 4664                        | 2705   | 0.58 | 1.48 | 4532 | 2629   | 0.58 | 1.57 | 4378 | 2539   | 0.58 | 1.67 |
| 20                               | 20                               | 5016                        | 2307   | 0.46 | 1.53 | 4906 | 2257   | 0.46 | 1.60 | 4774 | 2196   | 0.46 | 1.71 |
| 22                               | 16                               | 4356                        | 3398   | 0.78 | 1.46 | 4224 | 3295   | 0.78 | 1.54 | 4092 | 3192   | 0.78 | 1.63 |
| 22                               | 18                               | 4664                        | 3078   | 0.66 | 1.48 | 4532 | 2991   | 0.66 | 1.57 | 4378 | 2889   | 0.66 | 1.67 |
| 22                               | 20                               | 5016                        | 2709   | 0.54 | 1.53 | 4906 | 2649   | 0.54 | 1.60 | 4774 | 2578   | 0.54 | 1.71 |
| 24                               | 16                               | 4356                        | 3746   | 0.86 | 1.46 | 4224 | 3633   | 0.86 | 1.54 | 4092 | 3519   | 0.86 | 1.63 |
| 24                               | 18                               | 4664                        | 3451   | 0.74 | 1.48 | 4532 | 3354   | 0.74 | 1.57 | 4378 | 3240   | 0.74 | 1.67 |
| 24                               | 20                               | 5016                        | 3110   | 0.62 | 1.53 | 4906 | 3042   | 0.62 | 1.60 | 4774 | 2960   | 0.62 | 1.71 |
| 26                               | 16                               | 4356                        | 4095   | 0.94 | 1.46 | 4224 | 3971   | 0.94 | 1.54 | 4092 | 3846   | 0.94 | 1.63 |
| 26                               | 18                               | 4664                        | 3824   | 0.82 | 1.48 | 4532 | 3716   | 0.82 | 1.57 | 4378 | 3590   | 0.82 | 1.67 |
| 26                               | 20                               | 5016                        | 3511   | 0.70 | 1.53 | 4906 | 3434   | 0.70 | 1.60 | 4774 | 3342   | 0.70 | 1.71 |
| 28                               | 16                               | 4356                        | 4356   | 1.00 | 1.46 | 4224 | 4224   | 1.00 | 1.54 | 4092 | 4092   | 1.00 | 1.63 |
| 28                               | 18                               | 4664                        | 4198   | 0.90 | 1.48 | 4532 | 4079   | 0.90 | 1.57 | 4378 | 3940   | 0.90 | 1.67 |
| 28                               | 20                               | 5016                        | 3912   | 0.78 | 1.53 | 4906 | 3827   | 0.78 | 1.60 | 4774 | 3724   | 0.78 | 1.71 |
| 30                               | 16                               | 4356                        | 4356   | 1.00 | 1.46 | 4224 | 4224   | 1.00 | 1.54 | 4092 | 4092   | 1.00 | 1.63 |
| 30                               | 18                               | 4664                        | 4571   | 0.98 | 1.48 | 4532 | 4441   | 0.98 | 1.57 | 4378 | 4290   | 0.98 | 1.67 |
| 30                               | 20                               | 5016                        | 4314   | 0.86 | 1.53 | 4906 | 4219   | 0.86 | 1.60 | 4774 | 4106   | 0.86 | 1.71 |
| 32                               | 16                               | 4356                        | 4356   | 1.00 | 1.46 | 4224 | 4224   | 1.00 | 1.54 | 4092 | 4092   | 1.00 | 1.63 |
| 32                               | 18                               | 4664                        | 4664   | 1.00 | 1.48 | 4532 | 4532   | 1.00 | 1.57 | 4378 | 4378   | 1.00 | 1.67 |
| 32                               | 20                               | 5016                        | 4715   | 0.94 | 1.53 | 4906 | 4612   | 0.94 | 1.60 | 4774 | 4488   | 0.94 | 1.71 |
| 34                               | 16                               | 4356                        | 4356   | 1.00 | 1.46 | 4224 | 4224   | 1.00 | 1.54 | 4092 | 4092   | 1.00 | 1.63 |
| 34                               | 18                               | 4664                        | 4664   | 1.00 | 1.48 | 4532 | 4532   | 1.00 | 1.57 | 4378 | 4378   | 1.00 | 1.67 |
| 34                               | 20                               | 5016                        | 5016   | 1.00 | 1.53 | 4906 | 4906   | 1.00 | 1.60 | 4774 | 4774   | 1.00 | 1.71 |

Note CA : Capacity (W)

SHC(W) : Sensible heat capacity

P.C. : Power consumption (kW)

SHF : Sensible heat factor

|  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|

**COOLING CAPACITY(8)**
**PLH-P1.6KAH.UK, PLH-P1.6KAH.UK / PUH-P1.6VGAA.UK, PUH-P1.6YGAA.UK**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 35                          |        |      |      | 40   |        |      |      | 45   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 3916                        | 2741   | 0.70 | 1.75 | 3740 | 2618   | 0.70 | 1.87 | 3564 | 2495   | 0.70 | 2.03 |
| 20                               | 18                               | 4224                        | 2450   | 0.58 | 1.79 | 4092 | 2373   | 0.58 | 1.93 | 3828 | 2220   | 0.58 | 2.07 |
| 20                               | 20                               | 4576                        | 2105   | 0.46 | 1.84 | 4400 | 2024   | 0.46 | 1.97 | 4136 | 1903   | 0.46 | 2.11 |
| 22                               | 16                               | 3916                        | 3054   | 0.78 | 1.75 | 3740 | 2917   | 0.78 | 1.87 | 3564 | 2780   | 0.78 | 2.03 |
| 22                               | 18                               | 4224                        | 2788   | 0.66 | 1.79 | 4092 | 2701   | 0.66 | 1.93 | 3828 | 2526   | 0.66 | 2.07 |
| 22                               | 20                               | 4576                        | 2471   | 0.54 | 1.84 | 4400 | 2376   | 0.54 | 1.97 | 4136 | 2233   | 0.54 | 2.11 |
| 24                               | 16                               | 3916                        | 3368   | 0.86 | 1.75 | 3740 | 3216   | 0.86 | 1.87 | 3564 | 3065   | 0.86 | 2.03 |
| 24                               | 18                               | 4224                        | 3126   | 0.74 | 1.79 | 4092 | 3028   | 0.74 | 1.93 | 3828 | 2833   | 0.74 | 2.07 |
| 24                               | 20                               | 4576                        | 2837   | 0.62 | 1.84 | 4400 | 2728   | 0.62 | 1.97 | 4136 | 2564   | 0.62 | 2.11 |
| 26                               | 16                               | 3916                        | 3681   | 0.94 | 1.75 | 3740 | 3516   | 0.94 | 1.87 | 3564 | 3350   | 0.94 | 2.03 |
| 26                               | 18                               | 4224                        | 3464   | 0.82 | 1.79 | 4092 | 3355   | 0.82 | 1.93 | 3828 | 3139   | 0.82 | 2.07 |
| 26                               | 20                               | 4576                        | 3203   | 0.70 | 1.84 | 4400 | 3080   | 0.70 | 1.97 | 4136 | 2895   | 0.70 | 2.11 |
| 28                               | 16                               | 3916                        | 3916   | 1.00 | 1.75 | 3740 | 3740   | 1.00 | 1.87 | 3564 | 3564   | 1.00 | 2.03 |
| 28                               | 18                               | 4224                        | 3802   | 0.90 | 1.79 | 4092 | 3683   | 0.90 | 1.93 | 3828 | 3445   | 0.90 | 2.07 |
| 28                               | 20                               | 4576                        | 3569   | 0.78 | 1.84 | 4400 | 3432   | 0.78 | 1.97 | 4136 | 3226   | 0.78 | 2.11 |
| 30                               | 16                               | 3916                        | 3916   | 1.00 | 1.75 | 3740 | 3740   | 1.00 | 1.87 | 3564 | 3564   | 1.00 | 2.03 |
| 30                               | 18                               | 4224                        | 4140   | 0.98 | 1.79 | 4092 | 4010   | 0.98 | 1.93 | 3828 | 3751   | 0.98 | 2.07 |
| 30                               | 20                               | 4576                        | 3935   | 0.86 | 1.84 | 4400 | 3784   | 0.86 | 1.97 | 4136 | 3557   | 0.86 | 2.11 |
| 32                               | 16                               | 3916                        | 3916   | 1.00 | 1.75 | 3740 | 3740   | 1.00 | 1.87 | 3564 | 3564   | 1.00 | 2.03 |
| 32                               | 18                               | 4224                        | 4224   | 1.00 | 1.79 | 4092 | 4092   | 1.00 | 1.93 | 3828 | 3828   | 1.00 | 2.07 |
| 32                               | 20                               | 4576                        | 4301   | 0.94 | 1.84 | 4400 | 4136   | 0.94 | 1.97 | 4136 | 3888   | 0.94 | 2.11 |
| 34                               | 16                               | 3916                        | 3916   | 1.00 | 1.75 | 3740 | 3740   | 1.00 | 1.87 | 3564 | 3564   | 1.00 | 2.03 |
| 34                               | 18                               | 4224                        | 4224   | 1.00 | 1.79 | 4092 | 4092   | 1.00 | 1.93 | 3828 | 3828   | 1.00 | 2.07 |
| 34                               | 20                               | 4576                        | 4576   | 1.00 | 1.84 | 4400 | 4400   | 1.00 | 1.97 | 4136 | 4136   | 1.00 | 2.11 |

Note CA : Capacity (W)

SHC(W) : Sensible heat capacity

P.C. : Power consumption (kW)

SHF : Sensible heat factor

**COOLING CAPACITY(9)**
**PLH-P2KAH.UK, PLH-P2KAH1.UK / PUH-P2VGAA.UK, PUH-P2YGAA.UK**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 20                          |        |      |      | 25   |        |      |      | 30   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 5247                        | 3358   | 0.64 | 1.95 | 5088 | 3256   | 0.64 | 2.06 | 4929 | 3155   | 0.64 | 2.18 |
| 20                               | 18                               | 5618                        | 2921   | 0.52 | 1.99 | 5459 | 2839   | 0.52 | 2.10 | 5274 | 2742   | 0.52 | 2.24 |
| 20                               | 20                               | 6042                        | 2417   | 0.40 | 2.05 | 5910 | 2364   | 0.40 | 2.15 | 5751 | 2300   | 0.40 | 2.29 |
| 22                               | 16                               | 5247                        | 3778   | 0.72 | 1.95 | 5088 | 3663   | 0.72 | 2.06 | 4929 | 3549   | 0.72 | 2.18 |
| 22                               | 18                               | 5618                        | 3371   | 0.60 | 1.99 | 5459 | 3275   | 0.60 | 2.10 | 5274 | 3164   | 0.60 | 2.24 |
| 22                               | 20                               | 6042                        | 2900   | 0.48 | 2.05 | 5910 | 2837   | 0.48 | 2.15 | 5751 | 2760   | 0.48 | 2.29 |
| 24                               | 16                               | 5247                        | 4198   | 0.80 | 1.95 | 5088 | 4070   | 0.80 | 2.06 | 4929 | 3943   | 0.80 | 2.18 |
| 24                               | 18                               | 5618                        | 3820   | 0.68 | 1.99 | 5459 | 3712   | 0.68 | 2.10 | 5274 | 3586   | 0.68 | 2.24 |
| 24                               | 20                               | 6042                        | 3384   | 0.56 | 2.05 | 5910 | 3309   | 0.56 | 2.15 | 5751 | 3220   | 0.56 | 2.29 |
| 26                               | 16                               | 5247                        | 4617   | 0.88 | 1.95 | 5088 | 4477   | 0.88 | 2.06 | 4929 | 4338   | 0.88 | 2.18 |
| 26                               | 18                               | 5618                        | 4270   | 0.76 | 1.99 | 5459 | 4149   | 0.76 | 2.10 | 5274 | 4008   | 0.76 | 2.24 |
| 26                               | 20                               | 6042                        | 3867   | 0.64 | 2.05 | 5910 | 3782   | 0.64 | 2.15 | 5751 | 3680   | 0.64 | 2.29 |
| 28                               | 16                               | 5247                        | 5037   | 0.96 | 1.95 | 5088 | 4884   | 0.96 | 2.06 | 4929 | 4732   | 0.96 | 2.18 |
| 28                               | 18                               | 5618                        | 4719   | 0.84 | 1.99 | 5459 | 4586   | 0.84 | 2.10 | 5274 | 4430   | 0.84 | 2.24 |
| 28                               | 20                               | 6042                        | 4350   | 0.72 | 2.05 | 5910 | 4255   | 0.72 | 2.15 | 5751 | 4140   | 0.72 | 2.29 |
| 30                               | 16                               | 5247                        | 5247   | 1.00 | 1.95 | 5088 | 5088   | 1.00 | 2.06 | 4929 | 4929   | 1.00 | 2.18 |
| 30                               | 18                               | 5618                        | 5169   | 0.92 | 1.99 | 5459 | 5022   | 0.92 | 2.10 | 5274 | 4852   | 0.92 | 2.24 |
| 30                               | 20                               | 6042                        | 4834   | 0.80 | 2.05 | 5910 | 4728   | 0.80 | 2.15 | 5751 | 4600   | 0.80 | 2.29 |
| 32                               | 16                               | 5247                        | 5247   | 1.00 | 1.95 | 5088 | 5088   | 1.00 | 2.06 | 4929 | 4929   | 1.00 | 2.18 |
| 32                               | 18                               | 5618                        | 5618   | 1.00 | 1.99 | 5459 | 5459   | 1.00 | 2.10 | 5274 | 5274   | 1.00 | 2.24 |
| 32                               | 20                               | 6042                        | 5317   | 0.88 | 2.05 | 5910 | 5200   | 0.88 | 2.15 | 5751 | 5060   | 0.88 | 2.29 |
| 34                               | 16                               | 5247                        | 5247   | 1.00 | 1.95 | 5088 | 5088   | 1.00 | 2.06 | 4929 | 4929   | 1.00 | 2.18 |
| 34                               | 18                               | 5618                        | 5618   | 1.00 | 1.99 | 5459 | 5459   | 1.00 | 2.10 | 5274 | 5274   | 1.00 | 2.24 |
| 34                               | 20                               | 6042                        | 5800   | 0.96 | 2.05 | 5910 | 5673   | 0.96 | 2.15 | 5751 | 5520   | 0.96 | 2.29 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

|  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|

**COOLING CAPACITY(10)**
**PLH-P2KAH.UK, PLH-P2KAH.UK / PUH-P2VGAA.UK, PUH-P2YGAA.UK**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 35                          |        |      |      | 40   |        |      |      | 45   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 4717                        | 3019   | 0.64 | 2.34 | 4505 | 2883   | 0.64 | 2.51 | 4293 | 2748   | 0.64 | 2.72 |
| 20                               | 18                               | 5088                        | 2646   | 0.52 | 2.40 | 4929 | 2563   | 0.52 | 2.59 | 4611 | 2398   | 0.52 | 2.78 |
| 20                               | 20                               | 5512                        | 2205   | 0.40 | 2.46 | 5300 | 2120   | 0.40 | 2.64 | 4982 | 1993   | 0.40 | 2.83 |
| 22                               | 16                               | 4717                        | 3396   | 0.72 | 2.34 | 4505 | 3244   | 0.72 | 2.51 | 4293 | 3091   | 0.72 | 2.72 |
| 22                               | 18                               | 5088                        | 3053   | 0.60 | 2.40 | 4929 | 2957   | 0.60 | 2.59 | 4611 | 2767   | 0.60 | 2.78 |
| 22                               | 20                               | 5512                        | 2646   | 0.48 | 2.46 | 5300 | 2544   | 0.48 | 2.64 | 4982 | 2391   | 0.48 | 2.83 |
| 24                               | 16                               | 4717                        | 3774   | 0.80 | 2.34 | 4505 | 3604   | 0.80 | 2.51 | 4293 | 3434   | 0.80 | 2.72 |
| 24                               | 18                               | 5088                        | 3460   | 0.68 | 2.40 | 4929 | 3352   | 0.68 | 2.59 | 4611 | 3135   | 0.68 | 2.78 |
| 24                               | 20                               | 5512                        | 3087   | 0.56 | 2.46 | 5300 | 2968   | 0.56 | 2.64 | 4982 | 2790   | 0.56 | 2.83 |
| 26                               | 16                               | 4717                        | 4151   | 0.88 | 2.34 | 4505 | 3964   | 0.88 | 2.51 | 4293 | 3778   | 0.88 | 2.72 |
| 26                               | 18                               | 5088                        | 3867   | 0.76 | 2.40 | 4929 | 3746   | 0.76 | 2.59 | 4611 | 3504   | 0.76 | 2.78 |
| 26                               | 20                               | 5512                        | 3528   | 0.64 | 2.46 | 5300 | 3392   | 0.64 | 2.64 | 4982 | 3188   | 0.64 | 2.83 |
| 28                               | 16                               | 4717                        | 4528   | 0.96 | 2.34 | 4505 | 4325   | 0.96 | 2.51 | 4293 | 4121   | 0.96 | 2.72 |
| 28                               | 18                               | 5088                        | 4274   | 0.84 | 2.40 | 4929 | 4140   | 0.84 | 2.59 | 4611 | 3873   | 0.84 | 2.78 |
| 28                               | 20                               | 5512                        | 3969   | 0.72 | 2.46 | 5300 | 3816   | 0.72 | 2.64 | 4982 | 3587   | 0.72 | 2.83 |
| 30                               | 16                               | 4717                        | 4717   | 1.00 | 2.34 | 4505 | 4505   | 1.00 | 2.51 | 4293 | 4293   | 1.00 | 2.72 |
| 30                               | 18                               | 5088                        | 4681   | 0.92 | 2.40 | 4929 | 4535   | 0.92 | 2.59 | 4611 | 4242   | 0.92 | 2.78 |
| 30                               | 20                               | 5512                        | 4410   | 0.80 | 2.46 | 5300 | 4240   | 0.80 | 2.64 | 4982 | 3986   | 0.80 | 2.83 |
| 32                               | 16                               | 4717                        | 4717   | 1.00 | 2.34 | 4505 | 4505   | 1.00 | 2.51 | 4293 | 4293   | 1.00 | 2.72 |
| 32                               | 18                               | 5088                        | 5088   | 1.00 | 2.40 | 4929 | 4929   | 1.00 | 2.59 | 4611 | 4611   | 1.00 | 2.78 |
| 32                               | 20                               | 5512                        | 4851   | 0.88 | 2.46 | 5300 | 4664   | 0.88 | 2.64 | 4982 | 4384   | 0.88 | 2.83 |
| 34                               | 16                               | 4717                        | 4717   | 1.00 | 2.34 | 4505 | 4505   | 1.00 | 2.51 | 4293 | 4293   | 1.00 | 2.72 |
| 34                               | 18                               | 5088                        | 5088   | 1.00 | 2.40 | 4929 | 4929   | 1.00 | 2.59 | 4611 | 4611   | 1.00 | 2.78 |
| 34                               | 20                               | 5512                        | 5292   | 0.96 | 2.46 | 5300 | 5088   | 0.96 | 2.64 | 4982 | 4783   | 0.96 | 2.83 |

Note CA : Capacity (W)

SHC(W) : Sensible heat capacity

PC. : Power consumption (kW)

SHF : Sensible heat factor

**COOLING CAPACITY(11)**

**PLH-P2.5KAH.UK, PLH-P2.5KAH1.UK / PUH-P2.5VGAA.UK, PUH-P2.5YGAA.UK**

**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 20                          |        |      |      | 25   |        |      |      | 30   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 6237                        | 4054   | 0.65 | 2.10 | 6048 | 3931   | 0.65 | 2.22 | 5859 | 3808   | 0.65 | 2.35 |
| 20                               | 18                               | 6678                        | 3539   | 0.53 | 2.14 | 6489 | 3439   | 0.53 | 2.26 | 6269 | 3322   | 0.53 | 2.42 |
| 20                               | 20                               | 7182                        | 2945   | 0.41 | 2.21 | 7025 | 2880   | 0.41 | 2.31 | 6836 | 2803   | 0.41 | 2.47 |
| 22                               | 16                               | 6237                        | 4553   | 0.73 | 2.10 | 6048 | 4415   | 0.73 | 2.22 | 5859 | 4277   | 0.73 | 2.35 |
| 22                               | 18                               | 6678                        | 4074   | 0.61 | 2.14 | 6489 | 3958   | 0.61 | 2.26 | 6269 | 3824   | 0.61 | 2.42 |
| 22                               | 20                               | 7182                        | 3519   | 0.49 | 2.21 | 7025 | 3442   | 0.49 | 2.31 | 6836 | 3349   | 0.49 | 2.47 |
| 24                               | 16                               | 6237                        | 5052   | 0.81 | 2.10 | 6048 | 4899   | 0.81 | 2.22 | 5859 | 4746   | 0.81 | 2.35 |
| 24                               | 18                               | 6678                        | 4608   | 0.69 | 2.14 | 6489 | 4477   | 0.69 | 2.26 | 6269 | 4325   | 0.69 | 2.42 |
| 24                               | 20                               | 7182                        | 4094   | 0.57 | 2.21 | 7025 | 4004   | 0.57 | 2.31 | 6836 | 3896   | 0.57 | 2.47 |
| 26                               | 16                               | 6237                        | 5551   | 0.89 | 2.10 | 6048 | 5383   | 0.89 | 2.22 | 5859 | 5215   | 0.89 | 2.35 |
| 26                               | 18                               | 6678                        | 5142   | 0.77 | 2.14 | 6489 | 4997   | 0.77 | 2.26 | 6269 | 4827   | 0.77 | 2.42 |
| 26                               | 20                               | 7182                        | 4668   | 0.65 | 2.21 | 7025 | 4566   | 0.65 | 2.31 | 6836 | 4443   | 0.65 | 2.47 |
| 28                               | 16                               | 6237                        | 6050   | 0.97 | 2.10 | 6048 | 5867   | 0.97 | 2.22 | 5859 | 5683   | 0.97 | 2.35 |
| 28                               | 18                               | 6678                        | 5676   | 0.85 | 2.14 | 6489 | 5516   | 0.85 | 2.26 | 6269 | 5328   | 0.85 | 2.42 |
| 28                               | 20                               | 7182                        | 5243   | 0.73 | 2.21 | 7025 | 5128   | 0.73 | 2.31 | 6836 | 4990   | 0.73 | 2.47 |
| 30                               | 16                               | 6237                        | 6237   | 1.00 | 2.10 | 6048 | 6048   | 1.00 | 2.22 | 5859 | 5859   | 1.00 | 2.35 |
| 30                               | 18                               | 6678                        | 6211   | 0.93 | 2.14 | 6489 | 6035   | 0.93 | 2.26 | 6269 | 5830   | 0.93 | 2.42 |
| 30                               | 20                               | 7182                        | 5817   | 0.81 | 2.21 | 7025 | 5690   | 0.81 | 2.31 | 6836 | 5537   | 0.81 | 2.47 |
| 32                               | 16                               | 6237                        | 6237   | 1.00 | 2.10 | 6048 | 6048   | 1.00 | 2.22 | 5859 | 5859   | 1.00 | 2.35 |
| 32                               | 18                               | 6678                        | 6678   | 1.00 | 2.14 | 6489 | 6489   | 1.00 | 2.26 | 6269 | 6269   | 1.00 | 2.42 |
| 32                               | 20                               | 7182                        | 6392   | 0.89 | 2.21 | 7025 | 6252   | 0.89 | 2.31 | 6836 | 6084   | 0.89 | 2.47 |
| 34                               | 16                               | 6237                        | 6237   | 1.00 | 2.10 | 6048 | 6048   | 1.00 | 2.22 | 5859 | 5859   | 1.00 | 2.35 |
| 34                               | 18                               | 6678                        | 6678   | 1.00 | 2.14 | 6489 | 6489   | 1.00 | 2.26 | 6269 | 6269   | 1.00 | 2.42 |
| 34                               | 20                               | 7182                        | 6967   | 0.97 | 2.21 | 7025 | 6814   | 0.97 | 2.31 | 6836 | 6630   | 0.97 | 2.47 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

SHC(W) : Sensible heat capacity

SHF : Sensible heat factor

**COOLING CAPACITY(12)**
**PLH-P2.5KAH.UK, PLH-P2.5KAH..UK / PUH-P2.5VGAA.UK, PUH-P2.5YGAA.UK**
**(240V)**

| Indoor<br>Intake air<br>D.B.(°C) | Indoor<br>Intake air<br>W.B.(°C) | Outdoor intake air D.B.(°C) |        |      |      |      |        |      |      |      |        |      |      |
|----------------------------------|----------------------------------|-----------------------------|--------|------|------|------|--------|------|------|------|--------|------|------|
|                                  |                                  | 35                          |        |      |      | 40   |        |      |      | 45   |        |      |      |
|                                  |                                  | CA                          | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. | CA   | SHC(W) | SHF  | P.C. |
| 20                               | 16                               | 5607                        | 3645   | 0.65 | 2.52 | 5355 | 3481   | 0.65 | 2.71 | 5103 | 3317   | 0.65 | 2.93 |
| 20                               | 18                               | 6048                        | 3205   | 0.53 | 2.59 | 5859 | 3105   | 0.53 | 2.79 | 5481 | 2905   | 0.53 | 3.00 |
| 20                               | 20                               | 6552                        | 2666   | 0.41 | 2.66 | 6300 | 2583   | 0.41 | 2.84 | 5922 | 2428   | 0.41 | 3.05 |
| 22                               | 16                               | 5607                        | 4093   | 0.73 | 2.52 | 5355 | 3909   | 0.73 | 2.71 | 5103 | 3725   | 0.73 | 2.93 |
| 22                               | 18                               | 6048                        | 3689   | 0.61 | 2.59 | 5859 | 3574   | 0.61 | 2.79 | 5481 | 3343   | 0.61 | 3.00 |
| 22                               | 20                               | 6552                        | 3201   | 0.49 | 2.66 | 6300 | 3087   | 0.49 | 2.84 | 5922 | 2902   | 0.49 | 3.05 |
| 24                               | 16                               | 5607                        | 4542   | 0.81 | 2.52 | 5355 | 4338   | 0.81 | 2.71 | 5103 | 4133   | 0.81 | 2.93 |
| 24                               | 18                               | 6048                        | 4173   | 0.69 | 2.59 | 5859 | 4043   | 0.69 | 2.79 | 5481 | 3782   | 0.69 | 3.00 |
| 24                               | 20                               | 6552                        | 3735   | 0.57 | 2.66 | 6300 | 3591   | 0.57 | 2.84 | 5922 | 3376   | 0.57 | 3.05 |
| 26                               | 16                               | 5607                        | 4990   | 0.89 | 2.52 | 5355 | 4766   | 0.89 | 2.71 | 5103 | 4542   | 0.89 | 2.93 |
| 26                               | 18                               | 6048                        | 4657   | 0.77 | 2.59 | 5859 | 4511   | 0.77 | 2.79 | 5481 | 4220   | 0.77 | 3.00 |
| 26                               | 20                               | 6552                        | 4259   | 0.65 | 2.66 | 6300 | 4095   | 0.65 | 2.84 | 5922 | 3849   | 0.65 | 3.05 |
| 28                               | 16                               | 5607                        | 5439   | 0.97 | 2.52 | 5355 | 5194   | 0.97 | 2.71 | 5103 | 4950   | 0.97 | 2.93 |
| 28                               | 18                               | 6048                        | 5141   | 0.85 | 2.59 | 5859 | 4980   | 0.85 | 2.79 | 5481 | 4659   | 0.85 | 3.00 |
| 28                               | 20                               | 6552                        | 4783   | 0.73 | 2.66 | 6300 | 4599   | 0.73 | 2.84 | 5922 | 4323   | 0.73 | 3.05 |
| 30                               | 16                               | 5607                        | 5607   | 1.00 | 2.52 | 5355 | 5355   | 1.00 | 2.71 | 5103 | 5103   | 1.00 | 2.93 |
| 30                               | 18                               | 6048                        | 5625   | 0.93 | 2.59 | 5859 | 5449   | 0.93 | 2.79 | 5481 | 5097   | 0.93 | 3.00 |
| 30                               | 20                               | 6552                        | 5307   | 0.81 | 2.66 | 6300 | 5103   | 0.81 | 2.84 | 5922 | 4797   | 0.81 | 3.05 |
| 32                               | 16                               | 5607                        | 5607   | 1.00 | 2.52 | 5355 | 5355   | 1.00 | 2.71 | 5103 | 5103   | 1.00 | 2.93 |
| 32                               | 18                               | 6048                        | 6048   | 1.00 | 2.59 | 5859 | 5859   | 1.00 | 2.79 | 5481 | 5481   | 1.00 | 3.00 |
| 32                               | 20                               | 6552                        | 5831   | 0.89 | 2.66 | 6300 | 5607   | 0.89 | 2.84 | 5922 | 5271   | 0.89 | 3.05 |
| 34                               | 16                               | 5607                        | 5607   | 1.00 | 2.52 | 5355 | 5355   | 1.00 | 2.71 | 5103 | 5103   | 1.00 | 2.93 |
| 34                               | 18                               | 6048                        | 6048   | 1.00 | 2.59 | 5859 | 5859   | 1.00 | 2.79 | 5481 | 5481   | 1.00 | 3.00 |
| 34                               | 20                               | 6552                        | 6355   | 0.97 | 2.66 | 6300 | 6111   | 0.97 | 2.84 | 5922 | 5744   | 0.97 | 3.05 |

Note CA : Capacity (W)

SHC(W) : Sensible heat capacity

P.C. : Power consumption (kW)

SHF : Sensible heat factor

## 2) HEATING CAPACITY

PUH-P1.6VGA, PUH-P1.6YGA, PUH-P2VGA, PUH-P2VYGA, PUH-P2.5VGA<sub>1</sub>, PUH-P2.5YGA<sub>1</sub>

(240V)

| Service Ref.   | Indoor intake air D.B.(°C) | Outdoor intake air W.B.(°C) |      |       |      |       |      |       |      |       |      |       |      |
|----------------|----------------------------|-----------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                |                            | -10                         |      | -5    |      | 0     |      | 5     |      | 10    |      | 15    |      |
|                |                            | CA                          | P.C. | CA    | P.C. | CA    | P.C. | CA    | P.C. | CA    | P.C. | CA    | P.C. |
| PLH-P1.6KAH.UK | 15                         | 3,175                       | 1.14 | 3,450 | 1.25 | 3,850 | 1.45 | 5,050 | 1.74 | 5,700 | 1.93 | 6,350 | 2.08 |
|                | 20                         | 3,050                       | 1.24 | 3,300 | 1.35 | 3,650 | 1.56 | 4,875 | 1.87 | 5,500 | 2.08 | 6,125 | 2.24 |
|                | 25                         | 2,950                       | 1.31 | 3,200 | 1.47 | 3,500 | 1.70 | 4,600 | 1.99 | 5,300 | 2.23 | 5,900 | 2.40 |
| PLH-P2KAH.UK   | 15                         | 3,969                       | 1.58 | 4,313 | 1.74 | 4,813 | 2.00 | 6,313 | 2.40 | 7,125 | 2.67 | 7,938 | 2.88 |
|                | 20                         | 3,813                       | 1.71 | 4,125 | 1.87 | 4,563 | 2.16 | 6,094 | 2.59 | 6,875 | 2.88 | 7,656 | 3.10 |
|                | 25                         | 3,688                       | 1.82 | 4,000 | 2.03 | 4,375 | 2.35 | 5,750 | 2.75 | 6,625 | 3.08 | 7,375 | 3.32 |
| PLH-P2.5KAH.UK | 15                         | 4,699                       | 1.56 | 5,106 | 1.72 | 5,698 | 1.98 | 7,474 | 2.38 | 8,436 | 2.64 | 9,398 | 2.85 |
|                | 20                         | 4,514                       | 1.69 | 4,884 | 1.85 | 5,402 | 2.14 | 7,215 | 2.56 | 8,140 | 2.85 | 9,065 | 3.06 |
|                | 25                         | 4,366                       | 1.80 | 4,736 | 2.01 | 5,180 | 2.32 | 6,808 | 2.72 | 7,844 | 3.05 | 8,732 | 3.29 |

PUH-P1.6VGAA.UK, PUH-P1.6YGAU.K

PUH-P2VGAA.UK, PUH-P2YGAA.UK

PUH-P2.5VGAA.UK, PUH-P2.5YGAU.K

(240V)

| Service Ref.                      | Indoor intake air D.B.(°C) | Outdoor intake air W.B.(°C) |      |       |      |       |      |       |      |       |      |       |      |
|-----------------------------------|----------------------------|-----------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                                   |                            | -10                         |      | -5    |      | 0     |      | 5     |      | 10    |      | 15    |      |
|                                   |                            | CA                          | P.C. | CA    | P.C. | CA    | P.C. | CA    | P.C. | CA    | P.C. | CA    | P.C. |
| PLH-P1.6KAH.UK<br>PLH-P1.6KAH..UK | 15                         | 3,175                       | 1.12 | 3,450 | 1.23 | 3,850 | 1.42 | 5,050 | 1.70 | 5,700 | 1.89 | 6,350 | 2.04 |
|                                   | 20                         | 3,050                       | 1.21 | 3,300 | 1.32 | 3,650 | 1.53 | 4,875 | 1.83 | 5,500 | 2.04 | 6,125 | 2.19 |
|                                   | 25                         | 2,950                       | 1.29 | 3,200 | 1.44 | 3,500 | 1.66 | 4,600 | 1.95 | 5,300 | 2.18 | 5,900 | 2.35 |
| PLH-P2KAH.UK<br>PLH-P2KAH..UK     | 15                         | 3,778                       | 1.42 | 4,106 | 1.56 | 4,582 | 1.80 | 6,010 | 2.16 | 6,783 | 2.40 | 7,557 | 2.59 |
|                                   | 20                         | 3,630                       | 1.54 | 3,927 | 1.68 | 4,344 | 1.94 | 5,801 | 2.33 | 6,545 | 2.59 | 7,289 | 2.78 |
|                                   | 25                         | 3,511                       | 1.63 | 3,808 | 1.82 | 4,165 | 2.11 | 5,474 | 2.47 | 6,307 | 2.77 | 7,021 | 2.99 |
| PLH-P2.5KAH.UK<br>PLH-P2.5KAH..UK | 15                         | 4,699                       | 1.52 | 5,106 | 1.62 | 5,698 | 1.93 | 7,474 | 2.31 | 8,436 | 2.57 | 9,398 | 2.78 |
|                                   | 20                         | 4,514                       | 1.64 | 4,884 | 1.80 | 5,402 | 2.08 | 7,215 | 2.49 | 8,140 | 2.78 | 9,065 | 2.98 |
|                                   | 25                         | 4,366                       | 1.75 | 4,736 | 1.95 | 5,180 | 2.26 | 6,808 | 2.65 | 7,844 | 2.97 | 8,732 | 3.20 |

Note CA : Capacity (W)

P.C. : Power consumption (kW)

### Cooling capacity correction factors

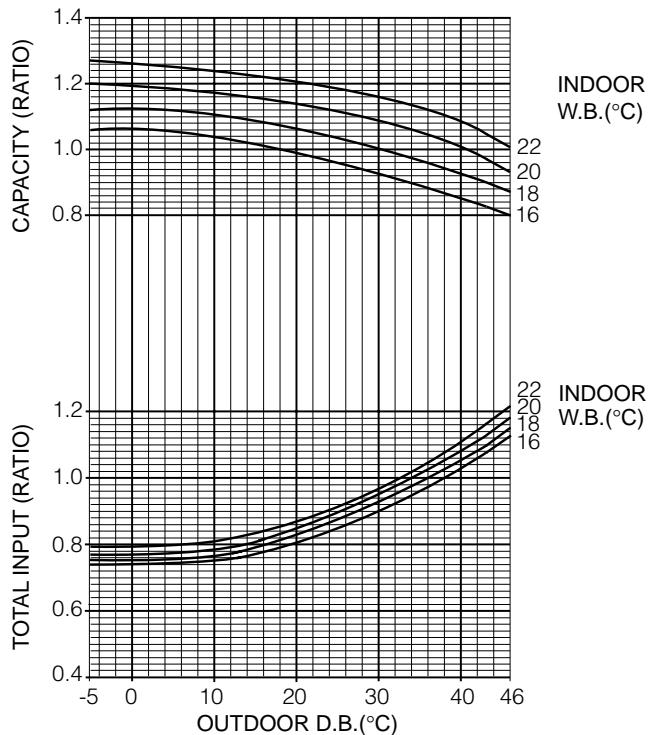
| Service Ref.                      | Refrigerant piping length (one way) |       |       |       |       |       |       |       |       |       |
|-----------------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   | 5m                                  | 10m   | 15m   | 20m   | 25m   | 30m   | 35m   | 40m   | 45m   | 50m   |
| PLH-P1.6KAH.UK<br>PLH-P1.6KAH..UK | 1.00                                | 0.993 | 0.984 | 0.978 | 0.969 | 0.961 | 0.956 | 0.948 | —     | —     |
| PLH-P2KAH.UK<br>PLH-P2KAH..UK     | 1.00                                | 0.993 | 0.984 | 0.978 | 0.969 | 0.961 | 0.956 | 0.948 | —     | —     |
| PLH-P2.5KAH.UK<br>PLH-P2.5KAH..UK | 1.00                                | 0.989 | 0.980 | 0.970 | 0.960 | 0.950 | 0.940 | 0.930 | 0.920 | 0.910 |

### Heating capacity correction factors

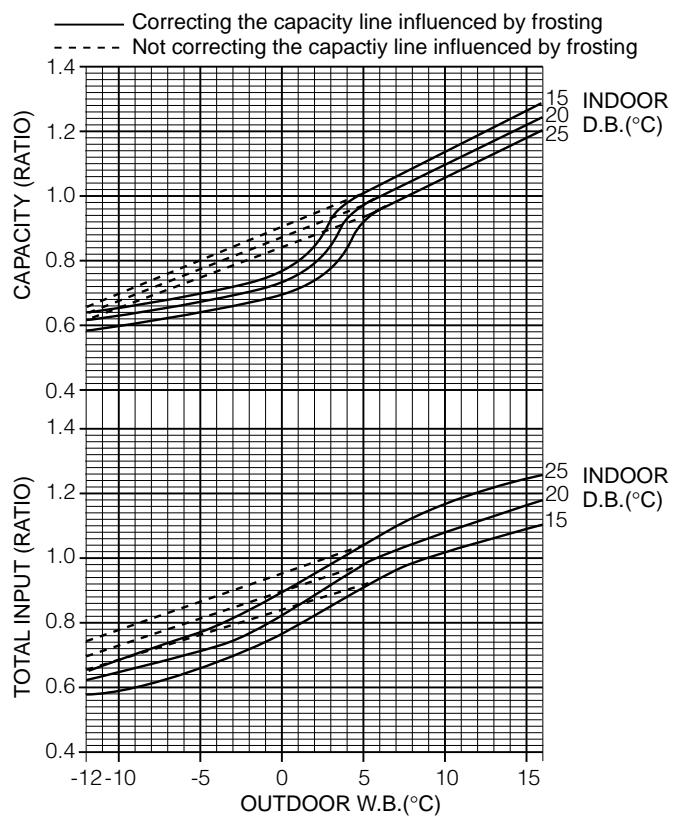
| Service Ref.                      | Refrigerant piping length (one way) |       |       |       |       |       |       |       |       |       |
|-----------------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   | 5m                                  | 10m   | 15m   | 20m   | 25m   | 30m   | 35m   | 40m   | 45m   | 50m   |
| PLH-P1.6KAH.UK<br>PLH-P1.6KAH..UK | 1.00                                | 0.998 | 0.995 | 0.993 | 0.990 | 0.988 | 0.985 | 0.983 | —     | —     |
| PLH-P2KAH.UK<br>PLH-P2KAH..UK     | 1.00                                | 0.998 | 0.995 | 0.993 | 0.990 | 0.988 | 0.985 | 0.983 | —     | —     |
| PLH-P2.5KAH.UK<br>PLH-P2.5KAH..UK | 1.00                                | 0.998 | 0.995 | 0.993 | 0.990 | 0.988 | 0.985 | 0.983 | 0.980 | 0.978 |

## 2. PERFORMANCE CURVE

Cooling performance curve(50Hz)



Heating performance curve(50Hz)



### **3. ELECTRICAL DATA**

Indoor unit ··· 220V 50Hz Single phase      Outdoor unit ··· 220V 50Hz Single phase / 380V 50Hz 3 phases

| Service Ref.     | Indoor unit                       | PLH-P1.6KAH.UK   |                  |                  |                | PLH-P2KAH.UK             |                          |                  |                | PLH-P2.5KAH.UK   |                |                  |                |
|------------------|-----------------------------------|------------------|------------------|------------------|----------------|--------------------------|--------------------------|------------------|----------------|------------------|----------------|------------------|----------------|
|                  | Outdoor unit                      | PUH-P1.6VGA      | PUH-P1.6YGA      | PUH-P2VGA        | PUH-P2YGA      | PUH-P2.5VGA <sub>1</sub> | PUH-P2.5YGA <sub>1</sub> |                  |                |                  |                |                  |                |
| Mode             |                                   | Cool             | Heat             | Cool             | Heat           | Cool                     | Heat                     | Cool             | Heat           | Cool             | Heat           | Cool             | Heat           |
| Capacity (W)     |                                   | 4,300<br>(6,070) | 4,300<br>(6,070) | 4,300<br>(6,070) | 5,300          | 6,150<br>(7,320)         | 5,300                    | 6,150<br>(7,320) | 6,200          | 7,100<br>(8,860) | 6,200          | 7,100<br>(8,860) |                |
| Total Input (kW) | (In + Out)<br>(In + Out + Heater) | 1.73             | 1.78<br>(2.95)   | 1.73             | 1.78<br>(2.95) | 2.52                     | 2.56<br>(3.73)           | 2.52             | 2.56<br>(3.73) | 2.70             | 2.56<br>(4.34) | 2.70             | 2.56<br>(4.34) |
| Indoor unit      | Input (kW)                        | 0.12             | 0.08<br><1.17>   | 0.12             | 0.08<br><1.17> | 0.12                     | 0.08<br><1.17>           | 0.12             | 0.08<br><1.17> | 0.12             | 0.09<br><1.76> | 0.12             | 0.09<br><1.76> |
|                  | Current (A)                       | 0.60             | 0.41<br><5.32>   | 0.60             | 0.41<br><5.32> | 0.61                     | 0.42<br><5.32>           | 0.61             | 0.42<br><5.32> | 0.57             | 0.42<br><8.00> | 0.57             | 0.42<br><8.00> |
| Outdoor unit     | Starting current (A)              | 33               | 33               | 18               | 18             | 68                       | 68                       | 28               | 28             | 70               | 70             | 29               | 29             |
|                  | Current (A)                       | 7.54             | 7.96             | 2.75             | 2.90           | 11.13                    | 11.50                    | 4.01             | 4.14           | 11.96            | 11.54          | 4.31             | 4.16           |

\* ( ) Shows the total rating.

< > Shows the only booster heater rating.

Indoor unit ··· 230V 50Hz Single phase      Outdoor unit···230V 50Hz Single phase / 400V 50Hz 3 phases

| Service Ref.     | Indoor unit                       | PLH-P1.6KAH.UK   |                  |                  |                  | PLH-P2KAH.UK             |                          |       |                  | PLH-P2.5KAH.UK |                  |       |                  |
|------------------|-----------------------------------|------------------|------------------|------------------|------------------|--------------------------|--------------------------|-------|------------------|----------------|------------------|-------|------------------|
|                  | Outdoor unit                      | PUH-P1.6VGA      | PUH-P1.6YGA      | PUH-P2VGA        | PUH-P2YGA        | PUH-P2.5VGA <sub>1</sub> | PUH-P2.5YGA <sub>1</sub> |       |                  |                |                  |       |                  |
| Mode             |                                   | Cool             | Heat             | Cool             | Heat             | Cool                     | Heat                     | Cool  | Heat             | Cool           | Heat             | Cool  | Heat             |
| Capacity (W)     |                                   | 4,350<br>(6,240) | 4,950<br>(6,240) | 4,350<br>(6,240) | 4,950<br>(6,240) | 5,350                    | 6,200<br>(7,490)         | 5,350 | 6,200<br>(7,490) | 6,250          | 7,250<br>(9,180) | 6,250 | 7,250<br>(9,180) |
| Total Input (kW) | (In + Out)<br>(In + Out + Heater) | 1.81<br>(3.14)   | 1.85<br>(3.14)   | 1.81<br>(3.14)   | 1.85<br>(3.14)   | 2.57                     | 2.62<br>(3.91)           | 2.57  | 2.62<br>(3.91)   | 2.74           | 2.63<br>(4.56)   | 2.74  | 2.63<br>(4.56)   |
| Indoor unit      | Input (kW)                        | 0.14             | 0.09<br><1.29>   | 0.14             | 0.09<br><1.29>   | 0.13                     | 0.09<br><1.29>           | 0.13  | 0.09<br><1.29>   | 0.13           | 0.09<br><1.93>   | 0.13  | 0.09<br><1.93>   |
|                  | Current (A)                       | 0.62             | 0.43<br><5.61>   | 0.62             | 0.43<br><5.61>   | 0.63                     | 0.44<br><5.61>           | 0.63  | 0.44<br><5.61>   | 0.59           | 0.43<br><8.39>   | 0.59  | 0.43<br><8.39>   |
| Outdoor unit     | Starting current (A)              | 35               | 35               | 19               | 19               | 71                       | 71                       | 29    | 29               | 74             | 74               | 31    | 31               |
|                  | Current (A)                       | 7.64             | 8.05             | 2.71             | 2.85             | 11.05                    | 11.45                    | 3.91  | 4.06             | 11.82          | 11.50            | 4.19  | 4.07             |

\* ( ) Shows the total rating.

Shows the total rating.

Indoor unit ··· 240V 50Hz Single phase      Outdoor unit···240V 50Hz Single phase / 415V 50Hz 3 phases

| Service Ref.     | Indoor unit                       | PLH-P1.6KAH.UK   |                  |           |                  | PLH-P2KAH.UK             |                          |       |                  | PLH-P2.5KAH.UK |                  |       |                  |
|------------------|-----------------------------------|------------------|------------------|-----------|------------------|--------------------------|--------------------------|-------|------------------|----------------|------------------|-------|------------------|
|                  | Outdoor unit                      | PUH-P1.6VGA      | PUH-P1.6YGA      | PUH-P2VGA | PUH-P2YGA        | PUH-P2.5VGA <sub>1</sub> | PUH-P2.5YGA <sub>1</sub> |       |                  |                |                  |       |                  |
| Mode             |                                   | Cool             | Heat             | Cool      | Heat             | Cool                     | Heat                     | Cool  | Heat             | Cool           | Heat             | Cool  | Heat             |
| Capacity (W)     |                                   | 4,400<br>(6,400) | 5,000<br>(6,400) | 4,400     | 5,000<br>(6,400) | 5,400                    | 6,250<br>(7,650)         | 5,400 | 6,250<br>(7,650) | 6,300          | 7,400<br>(9,500) | 6,300 | 7,400<br>(9,500) |
| Total Input (kW) | (In + Out)<br>(In + Out + Heater) | 1.86             | 1.93<br>(3.33)   | 1.86      | 1.93<br>(3.33)   | 2.62                     | 2.67<br>(4.07)           | 2.62  | 2.67<br>(4.07)   | 2.77           | 2.68<br>(4.78)   | 2.77  | 2.68<br>(4.78)   |
| Indoor unit      | Input (kW)                        | 0.15             | 0.10<br><1.40>   | 0.15      | 0.10<br><1.40>   | 0.14                     | 0.10<br><1.40>           | 0.14  | 0.10<br><1.40>   | 0.14           | 0.10<br><2.10>   | 0.14  | 0.10<br><2.10>   |
|                  | Current (A)                       | 0.64             | 0.45<br><5.83>   | 0.64      | 0.45<br><5.83>   | 0.65                     | 0.45<br><5.83>           | 0.65  | 0.45<br><5.83>   | 0.61           | 0.45<br><8.75>   | 0.61  | 0.45<br><8.75>   |
| Outdoor unit     | Starting current (A)              | 36               | 36               | 20        | 20               | 74                       | 74                       | 30    | 30               | 77             | 77               | 32    | 32               |
|                  | Current (A)                       | 7.66             | 8.19             | 2.67      | 2.86             | 11.11                    | 11.51                    | 3.88  | 4.02             | 11.78          | 11.55            | 4.11  | 4.03             |

\* ( ) Shows the total rating.

**< >** Shows the only booster heater rating.

**ANSWER** The answer is 1000. The area of the rectangle is  $10 \times 100 = 1000$ .

\* ( ) Shows the total rating.

< > Shows the only booster heater rating.

Indoor unit ··· 230V 50Hz Single phase      Outdoor unit···230V 50Hz Single phase / 400V 50Hz 3 phases

| Service Ref.   | Indoor unit          | PLH-P1.6KAH.UK<br>PLH-P1.6KAH <sub>1</sub> .UK |                  |       |                  | PLH-P2KAH.UK<br>PLH-P2KAH <sub>1</sub> .UK |                  |       |                  | PLH-P2.5KAH.UK<br>PLH-P2.5KAH <sub>1</sub> .UK |                  |       |                  |  |
|--|----------------------|--|------------------|-------|------------------|--|------------------|-------|------------------|--|------------------|-------|------------------|--|
|  | Outdoor unit         | PUH-P•GAA.UK                                   |                  |       |                  |  |                  |       |                  |  |                  |       |                  |  |
|  |                      | 1.6V   |                  | 1.6Y  |                  | 2V   |                  | 2Y    |                  | 2.5V   |                  | 2.5Y  |                  |  |
| Mode   |                      | Cool   | Heat             | Cool  | Heat             | Cool                                       | Heat             | Cool  | Heat             | Cool   | Heat             | Cool  | Heat             |  |
| Capacity (W)   |                      | 4,350<br>(6,240)                               | 4,950<br>(6,240) | 4,350 | 4,950<br>(6,240) | 5,250                                      | 5,900<br>(7,190) | 5,250 | 5,900<br>(7,190) | 6,250  | 7,250<br>(9,180) | 6,250 | 7,250<br>(9,180) |  |
| Total Input (kW) <small>(In + Out)<br/>(In + Out + Heater)</small> |                      | 1.77   | 1.81<br>(3.10)   | 1.77  | 1.81<br>(3.10)   | 2.38                                       | 2.36<br>(3.65)   | 2.38  | 2.36<br>(3.65)   | 2.59   | 2.52<br>(4.45)   | 2.59  | 2.52<br>(4.45)   |  |
| Indoor unit  | Input (kW)           | 0.14   | 0.09<br><1.29>   | 0.14  | 0.09<br><1.29>   | 0.13                                       | 0.09<br><1.29>   | 0.13  | 0.09<br><1.29>   | 0.13   | 0.09<br><1.93>   | 0.13  | 0.09<br><1.93>   |  |
|  | Current (A)          | 0.62   | 0.43<br><5.61>   | 0.62  | 0.43<br><5.61>   | 0.63                                       | 0.44<br><5.61>   | 0.63  | 0.44<br><5.61>   | 0.59   | 0.43<br><8.39>   | 0.59  | 0.43<br><8.39>   |  |
| Outdoor unit   | Starting current (A) | 35   | 35               | 19    | 19               | 62   | 62               | 31    | 31               | 74   | 74               | 34    | 34               |  |
|  | Current (A)          | 7.68   | 7.92             | 2.58  | 2.66             | 10.71                                      | 11.03            | 3.84  | 3.96             | 12.42  | 12.01            | 4.65  | 4.50             |  |

\* ( ) Shows the total rating.

< > Shows the only booster heater rating.

Indoor unit: 240V 50Hz Single phase / Outdoor unit: 240V 50Hz Single phase / 415V 50Hz 3 phases

| Service Ref.   | Indoor unit          | PLH-P1.6KAH.UK<br>PLH-P1.6KAH1.UK |                  |       |                  | PLH-P2KAH.UK<br>PLH-P2KAH1.UK |                  |       |                  | PLH-P2.5KAH.UK<br>PLH-P2.5KAH1.UK |                  |       |                  |  |
|--|----------------------|-----------------------------------|------------------|-------|------------------|-------------------------------|------------------|-------|------------------|-----------------------------------|------------------|-------|------------------|--|
|  | Outdoor unit         | PUH-P•GAA.UK                      |                  |       |                  |                               |                  |       |                  |                                   |                  |       |                  |  |
|  |                      | 1.6V                              |                  | 1.6Y  |                  | 2V                            |                  | 2Y    |                  | 2.5V                              |                  | 2.5Y  |                  |  |
| Mode   |                      | Cool                              | Heat             | Cool  | Heat             | Cool                          | Heat             | Cool  | Heat             | Cool                              | Heat             | Cool  | Heat             |  |
| Capacity (W)   |                      | 4,400                             | 5,000<br>(6,400) | 4,400 | 5,000<br>(6,400) | 5,300                         | 5,950<br>(7,350) | 5,300 | 5,950<br>(7,350) | 6,300                             | 7,400<br>(9,500) | 6,300 | 7,400<br>(9,500) |  |
| Total Input (kW) <small>(In + Out)<br/>(In + Out + Heater)</small> |                      | 1.82                              | 1.89<br>(3.29)   | 1.82  | 1.89<br>(3.29)   | 2.44                          | 2.40<br>(3.80)   | 2.44  | 2.40<br>(3.80)   | 2.63                              | 2.57<br>(4.67)   | 2.63  | 2.57<br>(4.67)   |  |
| Indoor unit  | Input (kW)           | 0.15                              | 0.10<br><1.40>   | 0.15  | 0.10<br><1.40>   | 0.14                          | 0.10<br><1.40>   | 0.14  | 0.10<br><1.40>   | 0.14                              | 0.10<br><2.10>   | 0.14  | 0.10<br><2.10>   |  |
|  | Current (A)          | 0.64                              | 0.45<br><5.83>   | 0.64  | 0.45<br><5.83>   | 0.65                          | 0.45<br><5.83>   | 0.65  | 0.45<br><5.83>   | 0.61                              | 0.45<br><8.75>   | 0.61  | 0.45<br><8.75>   |  |
| Outdoor unit   | Starting current (A) | 36                                | 36               | 20    | 20               | 62                            | 62               | 31    | 31               | 77                                | 77               | 35    | 35               |  |
|  | Current (A)          | 7.36                              | 7.59             | 2.49  | 2.56             | 10.26                         | 10.57            | 3.70  | 3.82             | 11.90                             | 11.51            | 4.48  | 4.34             |  |

\* ( ) Shows the total rating.

< > Shows the only booster heater rating.

#### 4. STANDARD OPERATION DATA

| Service Ref.        |                           |                               | PLH-P1.6KAH.UK |                            | PLH-P2KAH.UK   |                        | PLH-P2.5KAH.UK |                            |  |
|---------------------|---------------------------|-------------------------------|----------------|----------------------------|----------------|------------------------|----------------|----------------------------|--|
| Mode                |                           |                               | Cooling        | Heating                    | Cooling        | Heating                | Cooling        | Heating                    |  |
| Total               | Capacity                  | W                             | 4,400          | 5,000                      | 5,400          | 6,250                  | 6,300          | 7,400                      |  |
|                     | Input                     | kW                            | 1.86           | 1.93                       | 2.62           | 2.67                   | 2.77           | 2.64                       |  |
| Electrical circuit  | Indoor unit Service Ref.  |                               |                | PLH-P1.6KAH.UK             |                | PLH-P2KAH.UK           |                | PLH-P2.5KAH.UK             |  |
|                     | Phase,Hz                  |                               |                | 1,50                       |                | 1,50                   |                | 1,50                       |  |
|                     | Volts                     | V                             | 240            |                            | 240            |                        | 240            |                            |  |
|                     | Amperes                   | A                             | 0.64           | 0.45                       | 0.65           | 0.45                   | 0.61           | 0.45                       |  |
|                     | Outdoor unit Service Ref. |                               |                | PUH-P1.6VGA<br>PUH-P1.6YGA |                | PUH-P2VGA<br>PUH-P2YGA |                | PUH-P2.5VGA<br>PUH-P2.5YGA |  |
|                     | Phase,Hz                  |                               |                | 1/3 , 50                   |                | 1/3 , 50               |                | 1/3 , 50                   |  |
|                     | Volts                     | V                             | 240/415        |                            | 240/415        |                        | 240/415        |                            |  |
| Refrigerant circuit | Amperes                   | A                             | 7.66/2.67      | 8.19/2.86                  | 11.11/3.88     | 11.51/4.02             | 11.78/4.11     | 11.55/4.03                 |  |
|                     | Discharge pressure        | MPa<br>(kgf/cm <sup>2</sup> ) | 2.13<br>(21.7) | 2.49<br>(25.4)             | 2.41<br>(24.6) | 2.57<br>(26.2)         | 2.08<br>(21.2) | 2.23<br>(22.7)             |  |
|                     | Suction pressure          | MPa<br>(kgf/cm <sup>2</sup> ) | 0.50<br>(5.1)  | 0.44<br>(4.5)              | 0.50<br>(5.1)  | 0.44<br>(4.5)          | 0.50<br>(5.1)  | 0.42<br>(4.3)              |  |
|                     | Discharge temperature     | °C                            | 87.1           | 84.5                       | 87.8           | 93.2                   | 77.5           | 83.4                       |  |
|                     | Condensing temperature    | °C                            | 48.3           | 47                         | 53.4           | 53                     | 48.5           | 50                         |  |
|                     | Suction temperature       | °C                            | 12             | 2                          | 4.5            | 0.8                    | 6.3            | 0.8                        |  |
| Indoor side         | Ref. pipe length          | m                             | 5              | 5                          | 5              | 5                      | 5              | 5                          |  |
|                     | Intake air temperature    | D.B.                          | °C             | 27                         | 20             | 27                     | 20             | 27                         |  |
|                     |                           | W.B.                          | °C             | 19                         | 15             | 19                     | 15             | 19                         |  |
|                     | Discharge air temperature | D.B.                          | °C             | 16.3                       | 36.5           | 14.8                   | 41.0           | 13.5                       |  |
| Outdoor side        | Intake air temperature    | D.B.                          | °C             | 35                         | 7              | 35                     | 7              | 35                         |  |
|                     |                           | W.B.                          | °C             | 24                         | 6              | 24                     | 6              | 24                         |  |
| SHF                 |                           |                               | 0.80           | —                          | 0.74           | —                      | 0.75           | —                          |  |
| BF                  |                           |                               | 0.26           | —                          | 0.22           | —                      | 0.12           | —                          |  |

The unit of pressure has been changed to MPa based on international SI system.

The conversion factor is : 1(MPa)=10.2(kgf/cm<sup>2</sup>)

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

| Service Ref.        |                           |      | PLH-P1.6KAH.UK<br>PLH-P1.6KAH..UK |                                    | PLH-P2KAH.UK<br>PLH-P2KAH..UK |                                | PLH-P2.5KAH.UK<br>PLH-P2.5KAH..UK |                                    |
|---------------------|---------------------------|------|-----------------------------------|------------------------------------|-------------------------------|--------------------------------|-----------------------------------|------------------------------------|
| Mode                |                           |      | Cooling                           | Heating                            | Cooling                       | Heating                        | Cooling                           | Heating                            |
| Total               | Capacity                  | W    | 4,400                             | 5,000                              | 5,300                         | 5,950                          | 6,300                             | 7,400                              |
|                     | Input                     | kW   | 1.82                              | 1.89                               | 2.44                          | 2.40                           | 2.63                              | 2.57                               |
| Electrical circuit  | Indoor unit Service Ref.  |      |                                   | PLH-P1.6KAH.UK<br>PLH-P1.6KAH..UK  |                               | PLH-P2KAH.UK<br>PLH-P2KAH..UK  |                                   | PLH-P2.5KAH.UK<br>PLH-P2.5KAH..UK  |
|                     | Phase,Hz                  |      |                                   | 1,50                               |                               | 1,50                           |                                   | 1,50                               |
|                     | Volts                     |      | V                                 |                                    | 240                           |                                | 240                               |                                    |
|                     | Amperes                   |      | A                                 | 0.64                               | 0.45                          | 0.65                           | 0.45                              | 0.61                               |
|                     | Outdoor unit Service Ref. |      |                                   | PUH-P1.6VGAA.UK<br>PUH-P1.6YGAA.UK |                               | PUH-P2VGAA.UK<br>PUH-P2YGAA.UK |                                   | PUH-P2.5VGAA.UK<br>PUH-P2.5YGAA.UK |
|                     | Phase,Hz                  |      |                                   | 1/3 , 50                           |                               | 1/3 , 50                       |                                   | 1/3 , 50                           |
|                     | Volts                     |      | V                                 | 240/415                            |                               | 240/415                        |                                   | 240/415                            |
| Refrigerant circuit | Amperes                   |      | A                                 | 7.36/2.49                          | 7.59/2.56                     | 10.26/3.70                     | 10.57/3.82                        | 11.90/4.48                         |
|                     | Discharge pressure        |      | MPa<br>(kgf/cm <sup>2</sup> )     | 2.08<br>(21.2)                     | 2.45<br>(25.0)                | 2.31<br>(23.6)                 | 2.50<br>(25.5)                    | 1.95<br>(19.9)                     |
|                     | Suction pressure          |      | MPa<br>(kgf/cm <sup>2</sup> )     | 0.50<br>(5.1)                      | 0.44<br>(4.5)                 | 0.48<br>(4.9)                  | 0.46<br>(4.7)                     | 0.50<br>(5.1)                      |
|                     | Discharge temperature     |      | °C                                | 87.1                               | 84.5                          | 87.8                           | 93.2                              | 77.5                               |
|                     | Condensing temperature    |      | °C                                | 48.3                               | 47                            | 53.4                           | 53                                | 48.5                               |
|                     | Suction temperature       |      | °C                                | 12                                 | 2                             | 4.5                            | 0.8                               | 6.3                                |
| Indoor side         | Ref. pipe length          |      | m                                 | 5                                  | 5                             | 5                              | 5                                 | 5                                  |
|                     | Intake air temperature    | D.B. | °C                                | 27                                 | 20                            | 27                             | 20                                | 27                                 |
|                     |                           | W.B. | °C                                | 19                                 | 15                            | 19                             | 15                                | 19                                 |
|                     | Discharge air temperature | D.B. | °C                                | 16.3                               | 36.5                          | 15.0                           | 40.0                              | 13.5                               |
|                     | Intake air temperature    | D.B. | °C                                | 35                                 | 7                             | 35                             | 7                                 | 35                                 |
| Outdoor side        |                           | W.B. | °C                                | 24                                 | 6                             | 24                             | 6                                 | 24                                 |
| SHF                 |                           |      | 0.80                              | —                                  | 0.74                          | —                              | 0.75                              |                                    |
| BF                  |                           |      |                                   | 0.26                               | —                             | 0.22                           | —                                 | 0.12                               |

The unit of pressure has been changed to MPa based on international SI system.

The conversion factor is : 1(MPa)=10.2(kgf/cm<sup>2</sup>)

## 5. OUTLET AIR SPEED AND COVERAGE RANGE

|              |                |                     | PLH-P1.6KAH.UK<br>PLH-P1.6KAH..UK | PLH-P2KAH.UK<br>PLH-P2KAH..UK | PLH-P2.5KAH.UK<br>PLH-P2.5KAH..UK |
|--------------|----------------|---------------------|-----------------------------------|-------------------------------|-----------------------------------|
| Standard     | Air flow       | m <sup>3</sup> /min | 16.0                              | 16.0                          | 17.0                              |
|              | Air speed      | m/sec.              | 5.6                               | 5.6                           | 5.9                               |
|              | Coverage range | m                   | 6.0                               | 6.0                           | 6.4                               |
| High ceiling | Air flow       | m <sup>3</sup> /min | 17.0                              | 17.0                          | 18.0                              |
|              | Air speed      | m/sec.              | 5.9                               | 5.9                           | 6.3                               |
|              | Coverage range | m                   | 6.4                               | 6.4                           | 6.8                               |

\* The air coverage range is the value up to the position where the air speed is 0.25m/sec.

When air is blown out horizontally from the unit at the Hi notch position.

The coverage range should be used only as a general guideline since it varies according to the size of the room and the furniture inside the room.

## 6. NOISE CRITERION CURVES

**PLH-P1.6KAH.UK**

**PLH-P1.6KAH<sub>1</sub>.UK**

**PLH-P2KAH.UK**

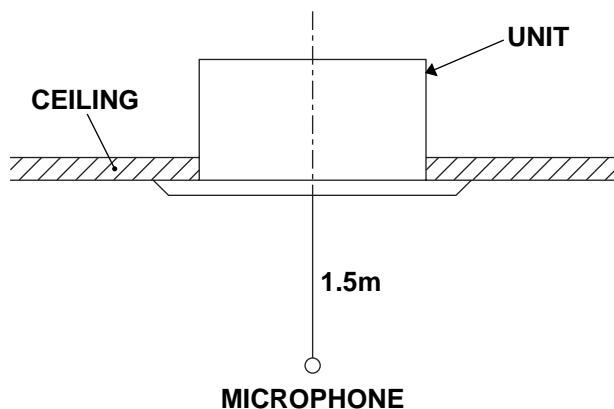
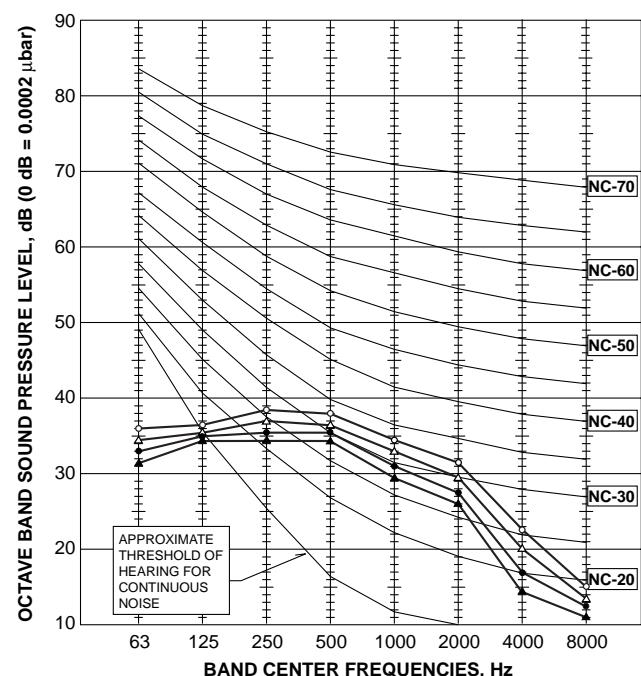
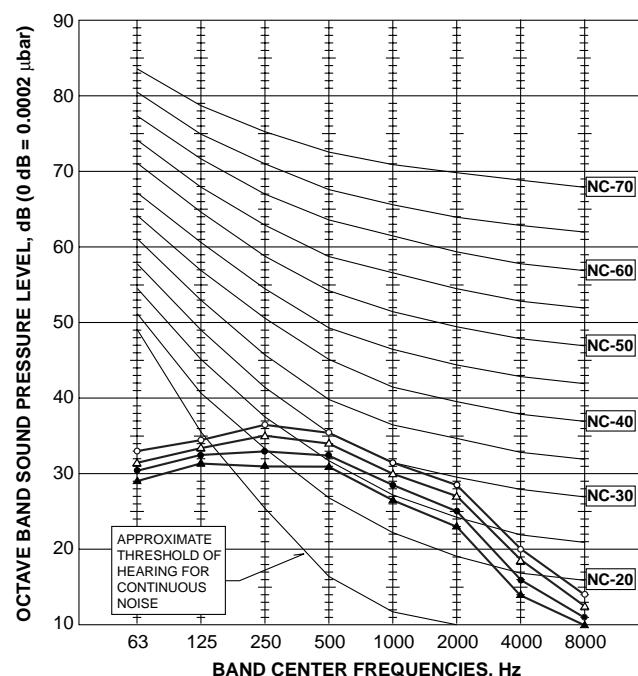
**PLH-P2KAH<sub>1</sub>.UK**

| NOTCH   | SPL(dB) | LINE |
|---------|---------|------|
| High    | 37      | ○—○  |
| Medium1 | 35.5    | △—△  |
| Medium2 | 34      | ●—●  |
| Low     | 32      | ▲—▲  |

**PLH-P2.5KAH.UK**

**PLH-P2.5KAH<sub>1</sub>.UK**

| NOTCH   | SPL(dB) | LINE |
|---------|---------|------|
| High    | 39.5    | ○—○  |
| Medium1 | 38      | △—△  |
| Medium2 | 36.5    | ●—●  |
| Low     | 35      | ▲—▲  |



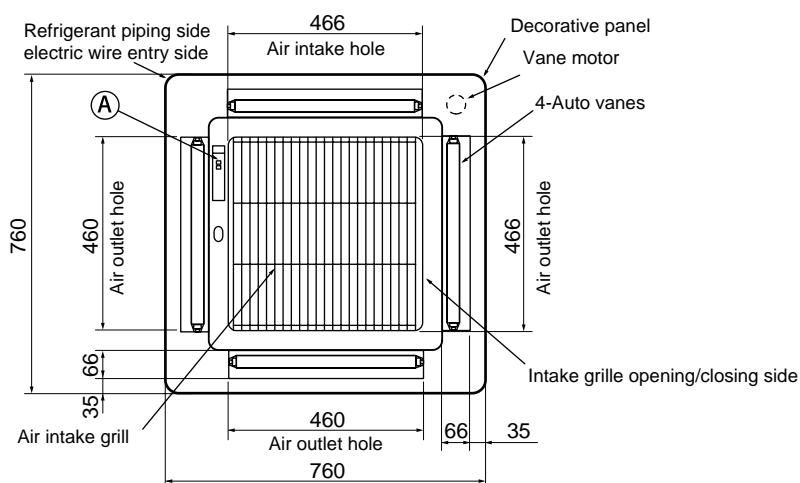
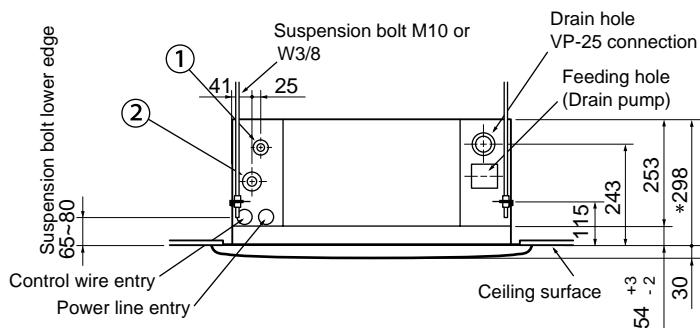
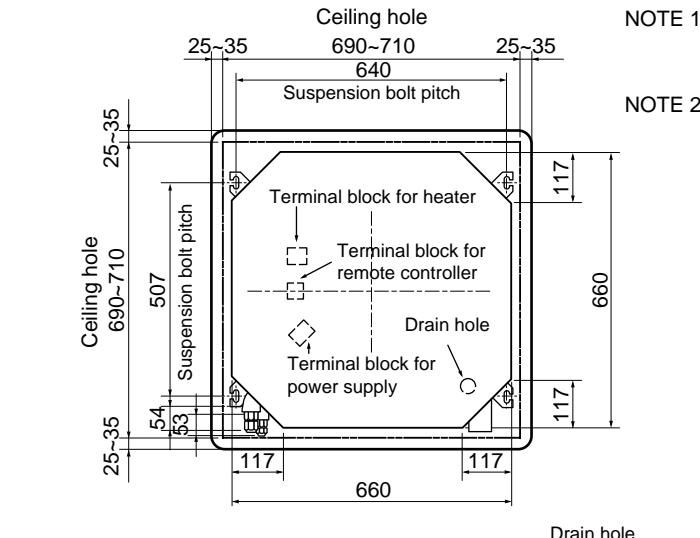
Ambient temperature 27°C

Test conditions are based on JIS Z8731

## INDOOR UNIT

Unit : mm

**PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK**  
**PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK**



**NOTE 1.** The electrical parts box may be removed during servicing.  
 When connecting the power line and the control wire, provide enough length to the electric wires.

**NOTE 2.** When installing the optional high-efficiency filter, the dimension between the transom and ceiling shall be more than 440mm.  
 Also, when installing the optional fresh air intake casement or the multi-functional casement, the dimension between the transom and ceiling shall be more than 440mm.  
 (The optional high-efficiency filter can also be installed.)

| Models                       | ①                              | ②                               |
|------------------------------|--------------------------------|---------------------------------|
| PLH-P1.6KAH.UK               | Refrigerant pipe<br>(φ 9.52mm) | Refrigerant pipe<br>(φ 15.88mm) |
| PLH-P2KAH.UK                 | Flared connection              | Flared connection               |
| PLH-P2.5KAH.UK               | 3/8F                           | 5/8F                            |
| PLH-P1.6KAH <sub>1</sub> .UK |                                |                                 |
| PLH-P2KAH <sub>1</sub> .UK   |                                |                                 |
| PLH-P2.5KAH <sub>1</sub> .UK |                                |                                 |

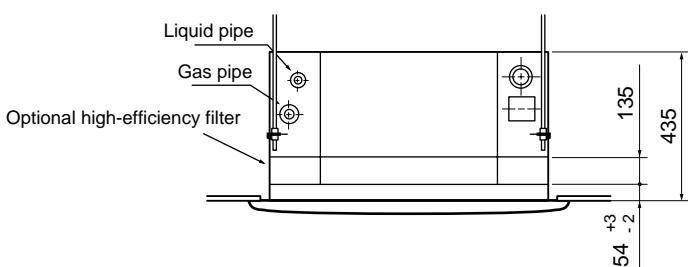
\*Leave space of 10~15mm between the top surface of the unit and the ceiling slab.

## A(indication area)

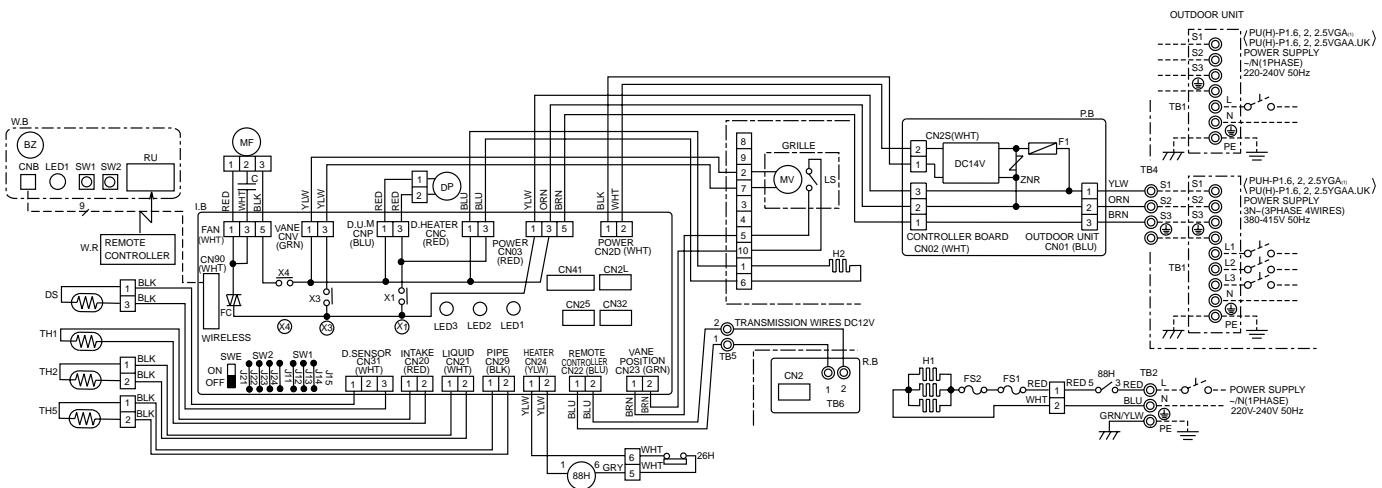
wired panel



wireless panel



**PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK  
PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK**



| SW1                          |                     |               |
|------------------------------|---------------------|---------------|
| MODELS                       | Manufacture         | Service board |
| PLH-P1.6KAH.UK               |                     |               |
| PLH-P1.6KAH <sub>1</sub> .UK |                     |               |
| PLH-P2KAH.UK                 | J11 J12 J13 J14 J15 |               |
| PLH-P2KAH <sub>1</sub> .UK   |                     | ON OFF        |
| PLH-P2.5KAH.UK               |                     |               |
| PLH-P2.5KAH <sub>1</sub> .UK |                     |               |

| SW2                          |              |                |
|------------------------------|--------------|----------------|
| MODELS                       | Manufacture  | service board  |
| PLH-P1.6KAH.UK               | J21J22J23J24 | 1 2 3 4 ON OFF |
| PLH-P1.6KAH <sub>1</sub> .UK |              |                |
| PLH-P2KAH.UK                 | J21J22J23J24 | 1 2 3 4 ON OFF |
| PLH-P2KAH <sub>1</sub> .UK   |              |                |
| PLH-P2.5KAH.UK               | J21J22J23J24 | 1 2 3 4 ON OFF |
| PLH-P2.5KAH <sub>1</sub> .UK |              |                |

Please set the voltage using the remote controller. For the setting method, please refer to the indoor unit Installation Manual.

**NOTES:**

1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers(S1,S2,S3).
3. Make sure that the main power supply of the booster heater is independent.
4. Symbols used in wiring diagram above are, :Connector, :Terminal block.

**[LEGEND]**

| SYMBOL | NAME   | SYMBOL | NAME                              | SYMBOL | NAME  |
|--------|--|--------|-----------------------------------|--------|---|
| P.B    | INDOOR POWER BOARD                                   | I.B    | INDOOR CONTROLLER BOARD           | LS     | LIMIT SWITCH  |
| F1     | FUSE (4A)  | CN2L   | CONNECTOR (LOSSNAY)               | MF     | FAN MOTOR   |
| ZNR    | VARISTOR   | CN25   | CONNECTOR (HUMIDIFIER)            | MV     | VANE MOTOR  |
| R.B    | REMOTE CONTROLLER BOARD                              | CN32   | CONNECTOR (REMOTE SWITCH)         | TB2    | TERMINAL BLOCK (HEATER)   |
| CN2    | CONNECTOR (PROGRAM TIMER)                            | CN41   | CONNECTOR (HA TERMINAL-A)         | TB4    | TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)                           |
| TB6    | TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE) | FC     | FAN PHASE CONTROL                 | TB5    | TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)                      |
| W.B    | WIRELESS REMOTE CONTROLLER BOARD (OPTION)            | LED1   | POWER SUPPLY (I.B)                | TH1    | ROOM TEMPERATURE THERMISTOR (0°C/15KΩ, 25°C/5.4KΩ DETECT)                 |
| RU     | RECEIVING UNIT                                       | LED2   | POWER SUPPLY (R.B)                | TH2    | PIPE TEMPERATURE THERMISTOR/LIQUID (0°C/15KΩ, 25°C/5.4KΩ DETECT)          |
| BZ     | BUZZER   | LED3   | TRANSMISSION (INDOOR-OUTDOOR)     | TH5    | CONDENSER/EVAPORATOR TEMPERATURE THERMISTOR (0°C/15KΩ, 25°C/5.4KΩ DETECT) |
| LED1   | LED (RUN INDICATOR)                                  | SW1    | JUMPER WIRE (CAPACITY CODE)       | X4     | RELAY (FAN MOTOR)   |
| SW1    | SWITCH (HEATING ON/OFF)                              | SW2    | JUMPER WIRE (EMERGENCY OPERATION) | C      | CAPACITOR (FAN MOTOR)   |
| SW2    | SWITCH (COOLING ON/OFF)                              | SWE    | SWITCH (EMERGENCY OPERATION)      | DP     | DRAIN-UP MACHINE  |
| W.R    | WIRELESS REMOTE CONTROLLER (OPTION)                  | X1     | RELAY (DRAIN PUMP/D.HEATER)       | DS     | DRAIN SENSOR  |
|        |  | X3     | RELAY (VANE MOTOR)                | H2     | DEW PREVENTION HEATER   |
|        |  | X4     | RELAY (FAN MOTOR)                 | HEATER |   |
|        |  | C      |                                   | FS1,2  | TERMAL FUSE (98°C,10A), (77°C,10A)  |
|        |  | DP     |                                   | H1     | HEATER  |
|        |  | DS     |                                   | 26H    | HEATER THERMAL SWITCH   |
|        |  |        |                                   | 88H    | HEATER CONTACTOR  |

\* The part name of symbol "I.B" is "SPCB".

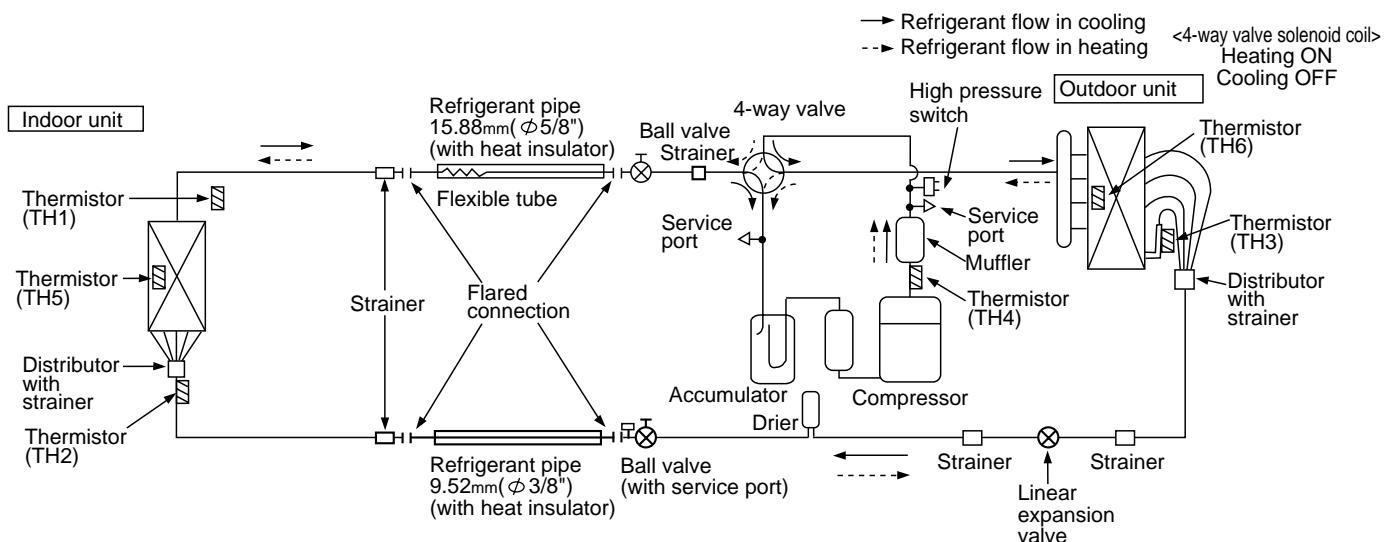
# REFRIGERANT SYSTEM DIAGRAM

**PLH-P1.6KAH.UK / PUH-P1.6VGA, PUH-P1.6YGA**

**PLH-P2KAH.UK / PUH-P2VGA, PUH-P2YGA**

**PLH-P2.5KAH.UK / PUH-P2.5VGA<sub>1</sub>, PUH-P2.5YGA<sub>1</sub>**

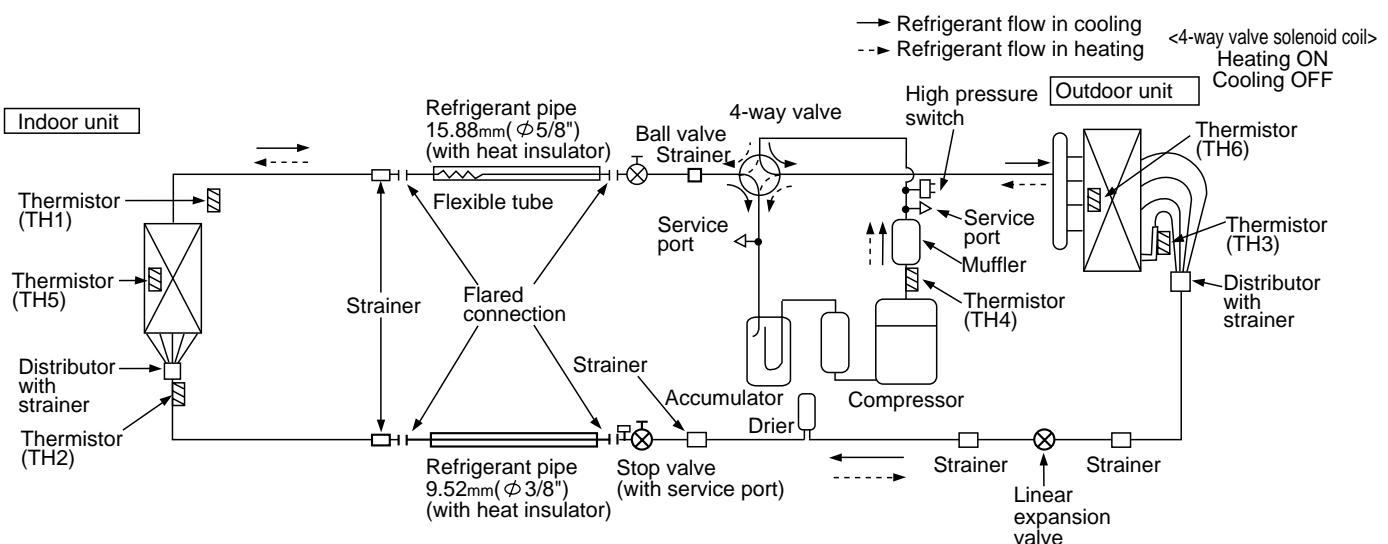
Unit : mm



**PLH-P1.6KAH.UK, PLH-P1.6KAH.<sub>1</sub>.UK / PUH-P1.6VGAA.UK, PUH-P1.6YGAA.UK**

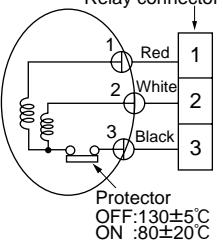
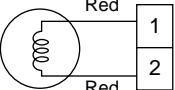
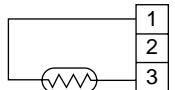
**PLH-P2KAH.UK, PLH-P2KAH.<sub>1</sub>.UK / PUH-P2VGAA.UK, PUH-P2YGAA.UK**

**PLH-P2.5KAH.UK, PLH-P2.5KAH.<sub>1</sub>.UK / PUH-P2.5VGAA.UK, PUH-P2.5YGAA.UK**



## HOW TO CHECK THE PARTS

**PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK  
PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK**

| Parts name  | Check points  |               |                           |
|---|---|---------------|---------------------------|
| Room temperature thermistor (TH1)   | Disconnect the connector then measure the resistance using a tester.<br>(Surrounding temperature 10°C ~30°C)  |               |                           |
| Pipe temperature thermistor (TH2)   | Normal  | Abnormal      |                           |
| Condenser/Evaporator temperature thermistor (TH5)                                   | 4.3kΩ~9.6kΩ   | Open or short | (Refer to the thermistor) |
| Vane motor  | Measure the resistance between the terminals using a tester.<br>(Surrounding temperature 20°C)  |               |                           |
|   | Normal  | Abnormal      |                           |
|   | 15kΩ  | Open or short |                           |
| Fan motor   | Measure the resistance between the terminals using a tester.<br>(Surrounding temperature 20°C)  |               |                           |
|   | Motor terminal or Relay connector   | Normal        | Abnormal                  |
|   | Red-Black   | 87.2Ω         | Open or short             |
|   | White-Black   | 104.1Ω        |                           |
| Drain pump  | Measure the resistance between the terminals using a tester.<br>(Surrounding temperature 20°C)  |               |                           |
|  | Normal  | Abnormal      |                           |
|   | 290Ω  | Open or short |                           |
| Drain sensor  | Measure the resistance between the terminals using a tester.<br>Measure the resistance after 3 minutes have passed since the power supply was intercepted.<br>(Surrounding temperature 0°C ~60°C) |               |                           |
|  | Normal  | Abnormal      |                           |
|   | 0.6kΩ~6.0kΩ   | Open or short | (Refer to the thermistor) |

<Thermistor Characteristic graph>

Thermistor for lower temperature

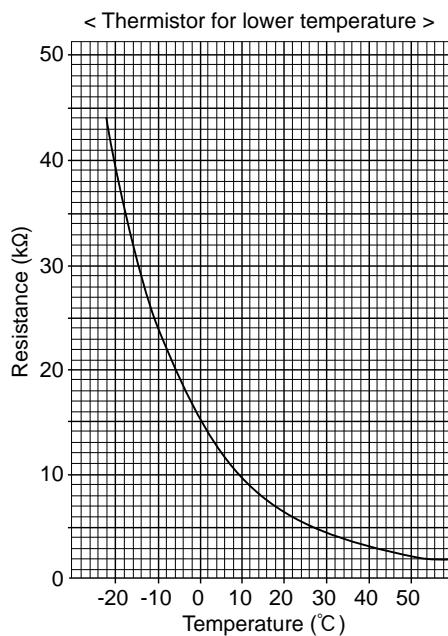
Room temperature thermistor(TH1)  
Pipe temperature thermistor(TH2)  
Condenser/evaporator temperature  
thermistor(TH5)

Thermistor  $R_0=15\text{k}\Omega \pm 3\%$

Fixed number of  $B=3480\text{K} \pm 2\%$

$$R_t = 15 \exp \left\{ 3480 \left( \frac{1}{273+t} - \frac{1}{273} \right) \right\}$$

|      |       |
|------|-------|
| 0°C  | 15kΩ  |
| 10°C | 9.6kΩ |
| 20°C | 6.3kΩ |
| 25°C | 5.2kΩ |
| 30°C | 4.3kΩ |
| 40°C | 3.0kΩ |



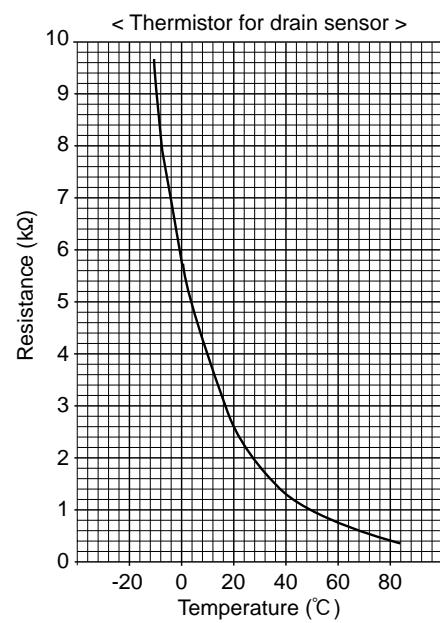
Thermistor for drain sensor

Thermistor  $R_0=6.0\text{k}\Omega \pm 5\%$

Fixed number of  $B=3390\text{K} \pm 2\%$

$$R_t = 6 \exp \left\{ 3390 \left( \frac{1}{273+t} - \frac{1}{273} \right) \right\}$$

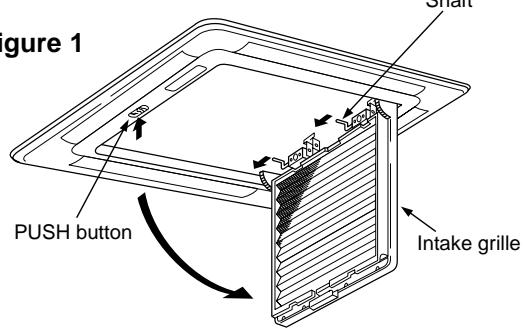
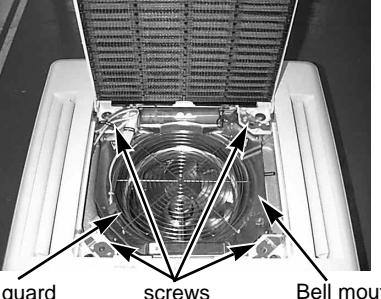
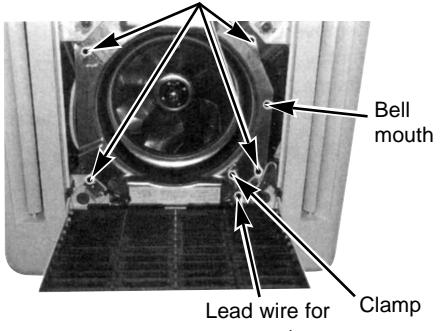
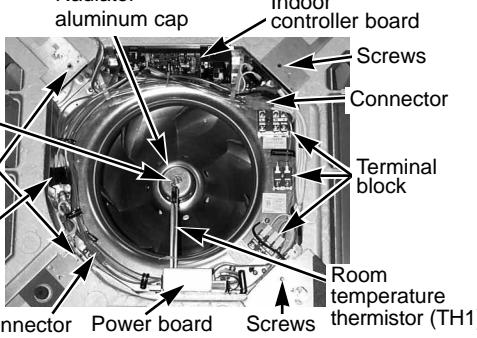
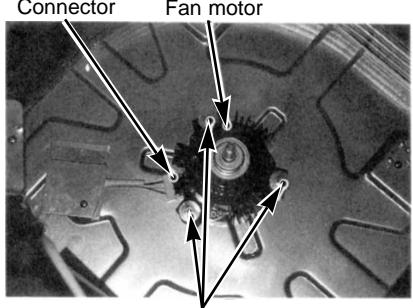
|      |       |
|------|-------|
| 0°C  | 6.0kΩ |
| 10°C | 3.9kΩ |
| 20°C | 2.6kΩ |
| 25°C | 2.2kΩ |
| 30°C | 1.8kΩ |
| 40°C | 1.3kΩ |
| 60°C | 0.6kΩ |

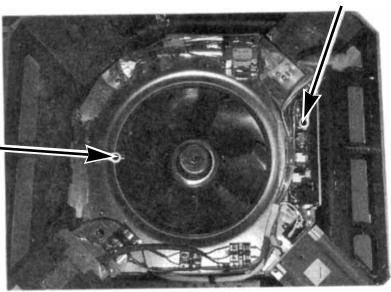
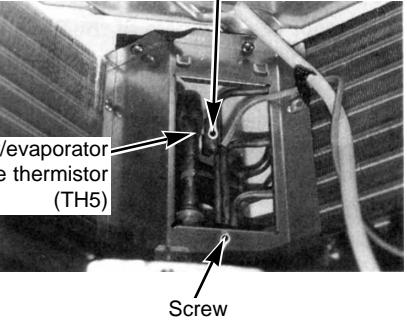
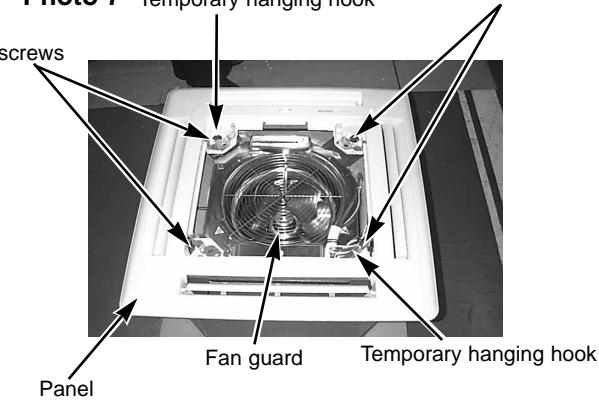
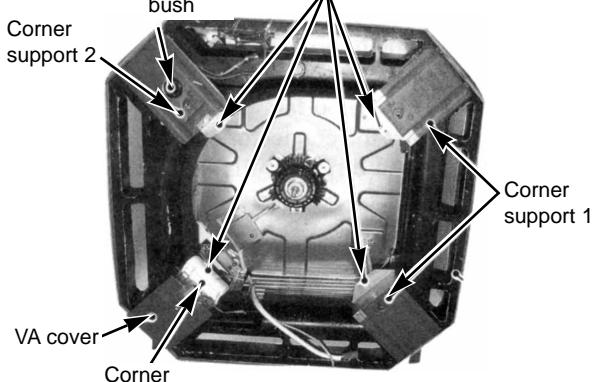


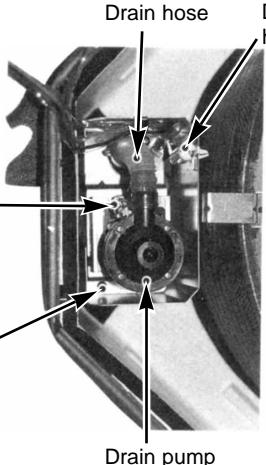
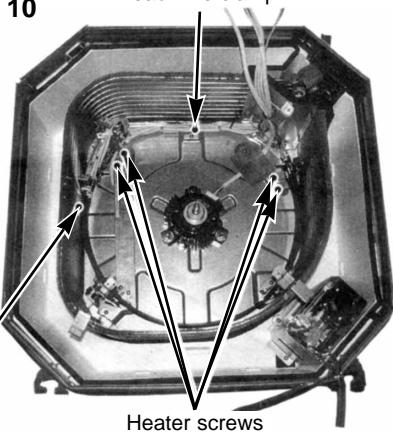
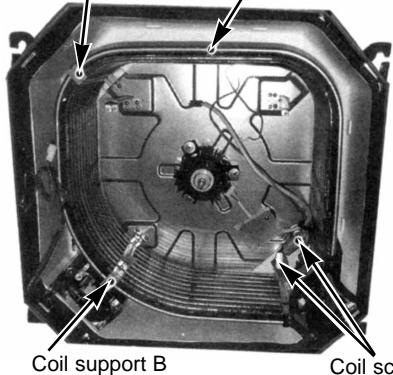
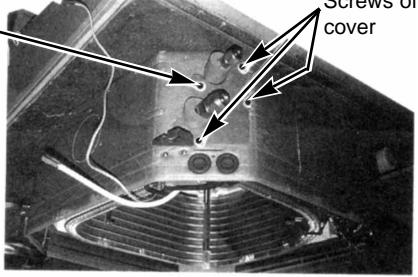
## 1. INDOOR UNIT

PLH-P1.6KAH.UK, PLH-P1.6KAH1.UK

Be careful on removing heavy parts.

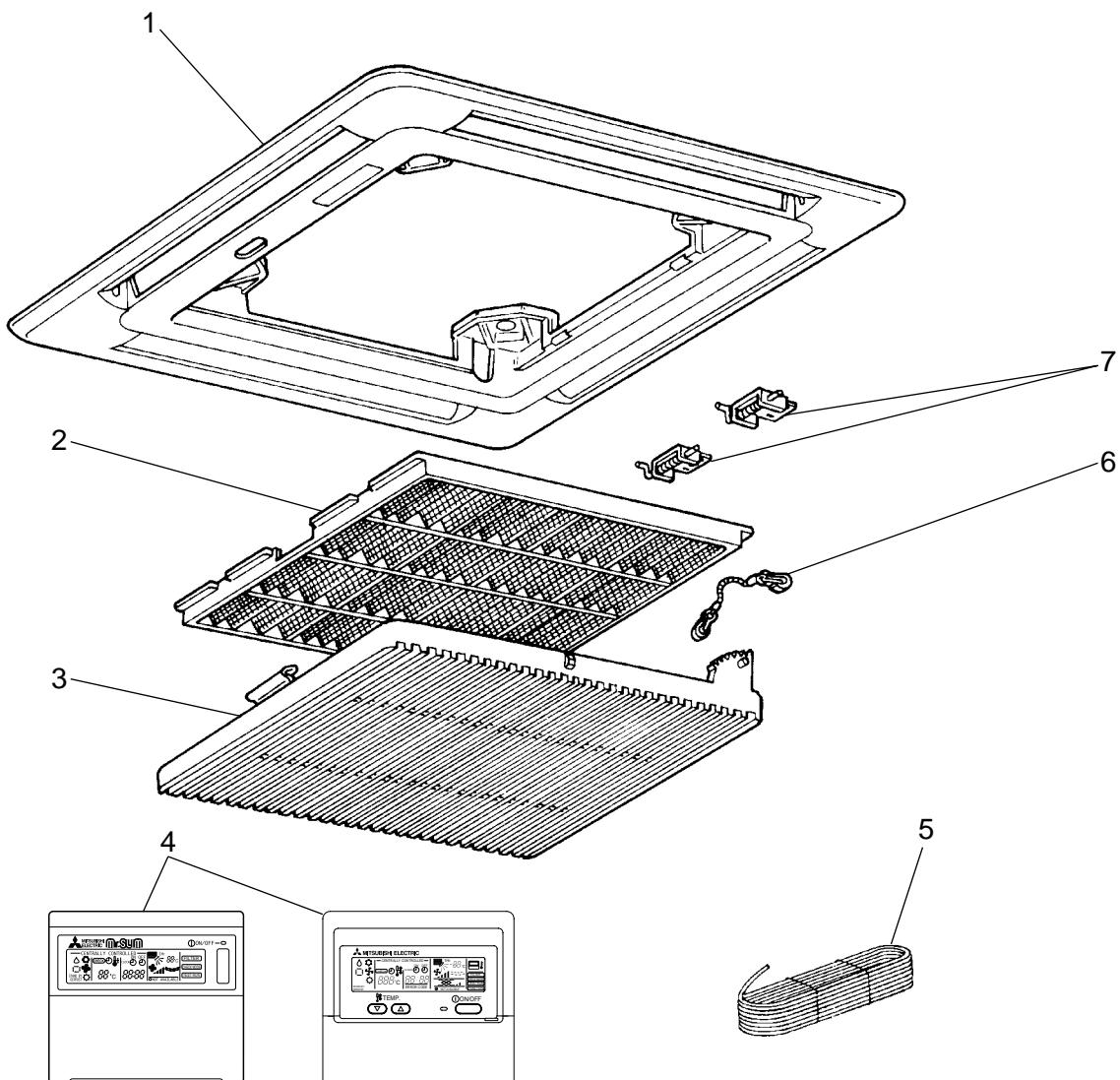
| OPERATING PROCEDURE   | PHOTOS&ILLUSTRATIONS   |
|---|--|
| <p><b>1. Removing the air intake grille</b></p> <ol style="list-style-type: none"> <li>(1) Press the [PUSH] button.</li> <li>(2) Open the intake grille 90°.</li> <li>(3) Remove the chip.</li> <li>(4) Slide the shaft in the hinge to the left and remove the intake grille.</li> </ol>   |  <p><b>Figure 1</b></p>  |
| <p><b>2. Removing the bell mouth.</b></p> <ol style="list-style-type: none"> <li>(1) Open the intake grille.</li> <li>(2) Remove the 4 screws of the bell mouth.</li> </ol>   |  <p><b>Photo 1</b></p>   |
| <p><b>3. Removing the controller cover assy (electrical parts)</b></p> <ol style="list-style-type: none"> <li>(1) Disconnect the lead wire of the vane motor from the clamp, and disconnect the red connector (10P).</li> <li>(2) Remove 2 of 4 screws from the bell mouth.</li> <li>(3) Remove the bell mouth.</li> <li>(4) Disconnect the following connectors from the box.           <ul style="list-style-type: none"> <li>White (3P) for the fan motor</li> <li>White (2P) for the pipe temperature thermistor (TH2)</li> <li>Blue (2P) for the drain pump</li> <li>White (3P) for the drain sensor</li> </ul> </li> <li>(5) Disconnect the blue ground wire of the controller cover assy.</li> <li>(6) Remove 3 of 4 screws from the controller cover assy, and loosen the other screw.</li> <li>(7) Pull out the controller cover assy.<br/>(Electrical parts inside the bell mouth)           <ul style="list-style-type: none"> <li>Terminal block</li> <li>power board</li> <li>Indoor fan capacitor</li> <li>Room temperature thermistor (TH1)</li> <li>Indoor controller board</li> <li>Relay</li> </ul> </li> </ol> |  <p><b>Photo 2</b></p><br> <p><b>Photo 3</b></p> |
| <p><b>4. Removing the fan motor</b></p> <ol style="list-style-type: none"> <li>(1) Remove the turbo fan nut and radiator aluminum cap.</li> <li>(2) Pull out the turbo fan.</li> <li>(3) Disconnect the connector of the fan motor lead wire.</li> <li>(4) Remove the 3 nuts of fan motor.</li> </ol>   |  <p><b>Photo 4</b></p>  |

| OPERATING PROCEDURE   | PHOTOS&ILLUSTRATIONS   |
|---|--|
| <p><b>5. Removing the room temperature thermistor</b></p> <ul style="list-style-type: none"> <li>(1) Remove the bell mouth.</li> <li>(2) Remove the holder and the room temperature thermistor by pulling the catch.</li> <li>(3) Disconnect the red connector, CN20, on the indoor controller board.</li> </ul>  | <p><b>Photo 5</b></p>    |
| <p><b>6. Removing the pipe temperature thermistor and the condenser / evaporator temperature thermistor.</b></p> <ul style="list-style-type: none"> <li>(1) Remove the bell mouth.</li> <li>(2) Remove the controller cover assy.</li> <li>(3) Remove the turbo fan.</li> <li>(4) Remove the screw of the service panel.</li> <li>(5) Remove the service panel.</li> <li>(6) Remove the pipe temperature thermistor(TH2) and condenser / evaporator temperature thermistor(TH5) from the holder.</li> <li>(7) Disconnect the 2-pin white connector.</li> </ul>  | <p><b>Photo 6</b></p>   |
| <p><b>7. Removing the panel</b></p> <ul style="list-style-type: none"> <li>(1) Open the intake grille.</li> <li>(2) Disconnect the connector the vane motor.</li> <li>(3) Remove 4 screws of the panel.</li> <li>(4) Pulling the temporary handing hook, remove the panel.</li> </ul>   | <p><b>Photo 7</b></p>  |
| <p><b>8. Removing the drain pan</b></p> <ul style="list-style-type: none"> <li>(1) Remove the panel.</li> <li>(2) Remove the rubber bushing.</li> <li>(3) Drain the remaining water in the drain pan.</li> <li>(4) Remove the bell mouth.</li> <li>(5) Remove the controller cover assy.</li> <li>(6) Remove the screw of the V.A. cover, and remove the V.A. cover.</li> <li>(7) Remove each screw of the corner supports 1, 2, and 3, and remove the corner supports 1, 2 and 3.</li> <li>(8) Pull out the drain pan.</li> </ul> <p>*Pull the left and right of the pan gradually.<br/>Be careful not to crack or damage the pan.</p> | <p><b>Photo 8</b></p>  |

| OPERATING PROCEDURE  | PHOTOS&ILLUSTRATIONS   |
|--|--|
| <p><b>9. Removing the drain pump and drain sensor</b></p> <ul style="list-style-type: none"> <li>(1) Remove the panel.</li> <li>(2) Remove the bell mouth.</li> <li>(3) Remove the controller cover assy.</li> <li>(4) Remove the drain pan.</li> <li>(5) Remove 4 screws of the drain pump.</li> <li>(6) Pulling the clip of the drain hose, pull out the drain hose from the drain pump.</li> <li>(7) Remove the drain sensor and the holder.</li> <li>(8) Pull out the drain pump.</li> </ul>                                     | <p><b>Photo 9</b></p>   |
| <p><b>10. Removing the heater</b></p> <ul style="list-style-type: none"> <li>(1) Remove the panel.</li> <li>(2) Remove the bell mouth.</li> <li>(3) Remove the controller cover assy.</li> <li>(4) Remove the drain pan.</li> <li>(5) Remove the turbo fan.</li> <li>(6) Remove the 5 screws of the heater assembly.</li> <li>(7) Remove the clamp (1 screw) securing the lead wire.</li> <li>(8) Pull the heater assembly out.</li> </ul>   | <p><b>Photo 10</b></p>   |
| <p><b>11. Removing the heat exchanger</b></p> <ul style="list-style-type: none"> <li>(1) Remove the panel.</li> <li>(2) Remove the bell mouth.</li> <li>(3) Remove the controller cover assy.</li> <li>(4) Remove the drain pan.</li> <li>(5) Remove the turbo fan.</li> <li>(6) Remove the screw of the coil support A.</li> <li>(7) Remove 2 screws of the coil support B.</li> <li>(8) Remove 2 screws of the coil.</li> <li>(9) Remove 4 screws of the piping cover of the outer wall, and pull out the piping cover.</li> </ul> | <p><b>Photo 11</b></p>  <p><b>Photo 12</b></p>  |

## PANEL PARTS

PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK  
 PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK



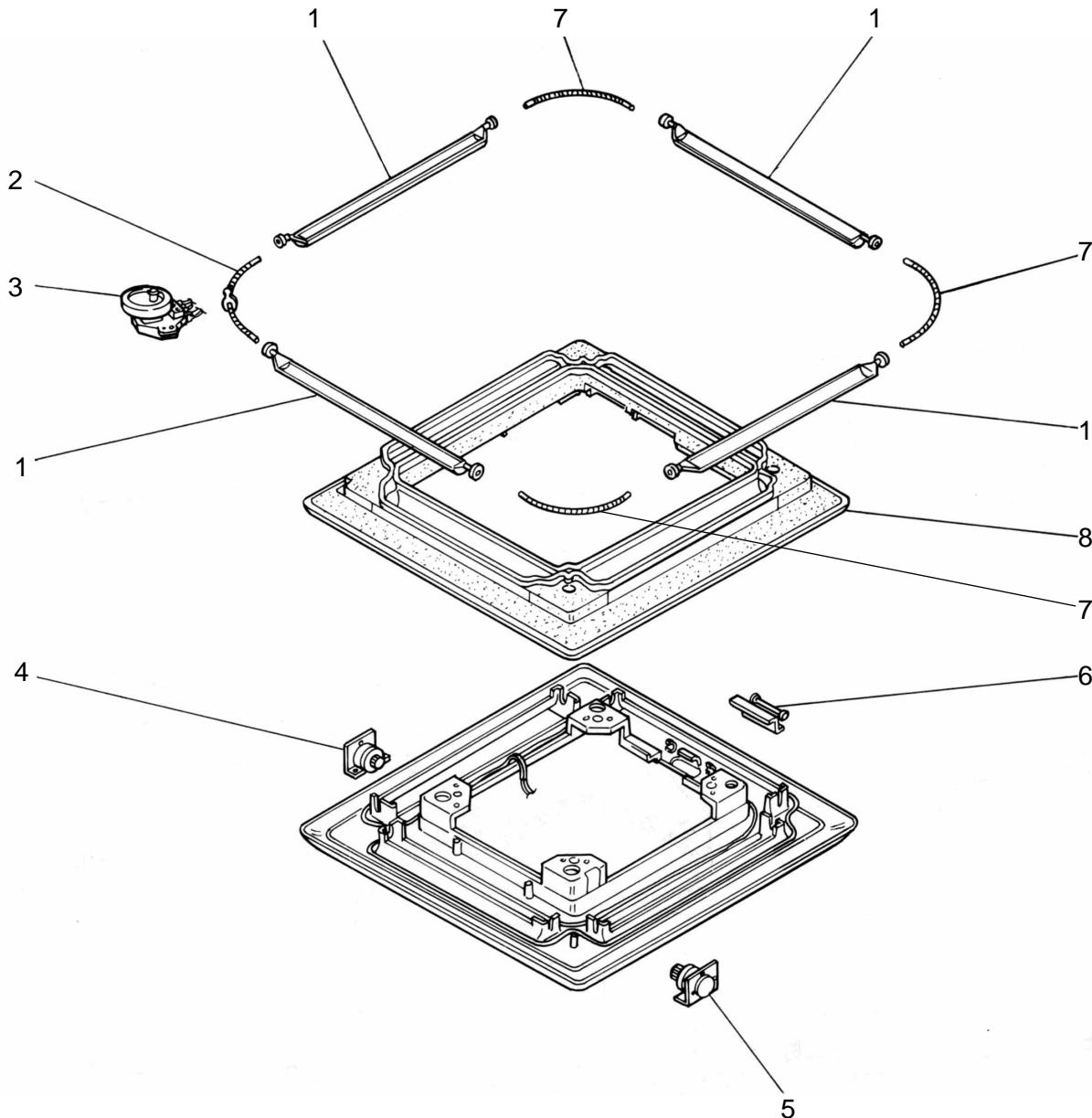
PLH-P1.6/2.5KAH.UK

PLH-P1.6/2.5KAH<sub>1</sub>.UK

| No. | Part No.    | Part Name         | Specification | Q'ty/set                 |        | Remarks<br>(Drawing No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |
|-----|-------------|-------------------|---------------|--------------------------|--------|--------------------------|-----------------------------|--------------------------|-------|--------|
|     |             |                   |               | PLH-P1.6/2/2.5<br>KAH.UK | KAH.UK |                          |                             |                          | Unit  | Amount |
| 1   | S70 560 003 | AIR OUTLET GRILLE |               | 1                        | 1      |                          |                             |                          |       |        |
| 2   | S70 29H 500 | AIR FILTER        |               | 1                        | 1      |                          |                             |                          |       |        |
| 3   | S70 29H 691 | INTAKE GRILLE     |               | 1                        | 1      |                          |                             |                          |       |        |
| 4   | S70 E00 713 | REMOTE CONTROLLER | PAR-S27A-E    | 1                        |        |                          | R.B                         |                          |       |        |
|     | S70 E13 713 | REMOTE CONTROLLER | PAR-20MAA-E   |                          | 1      |                          | R.B                         |                          |       |        |
| 5   | S70 58A 246 | CORD              |               | 1                        | 1      |                          |                             |                          |       |        |
| 6   | S70 29H 098 | GRILLE HANGER     |               | 1                        | 1      |                          |                             |                          |       |        |
| 7   | S70 29H 061 | HINGE             |               | 2                        | 2      |                          |                             |                          |       |        |

## PANEL PARTS

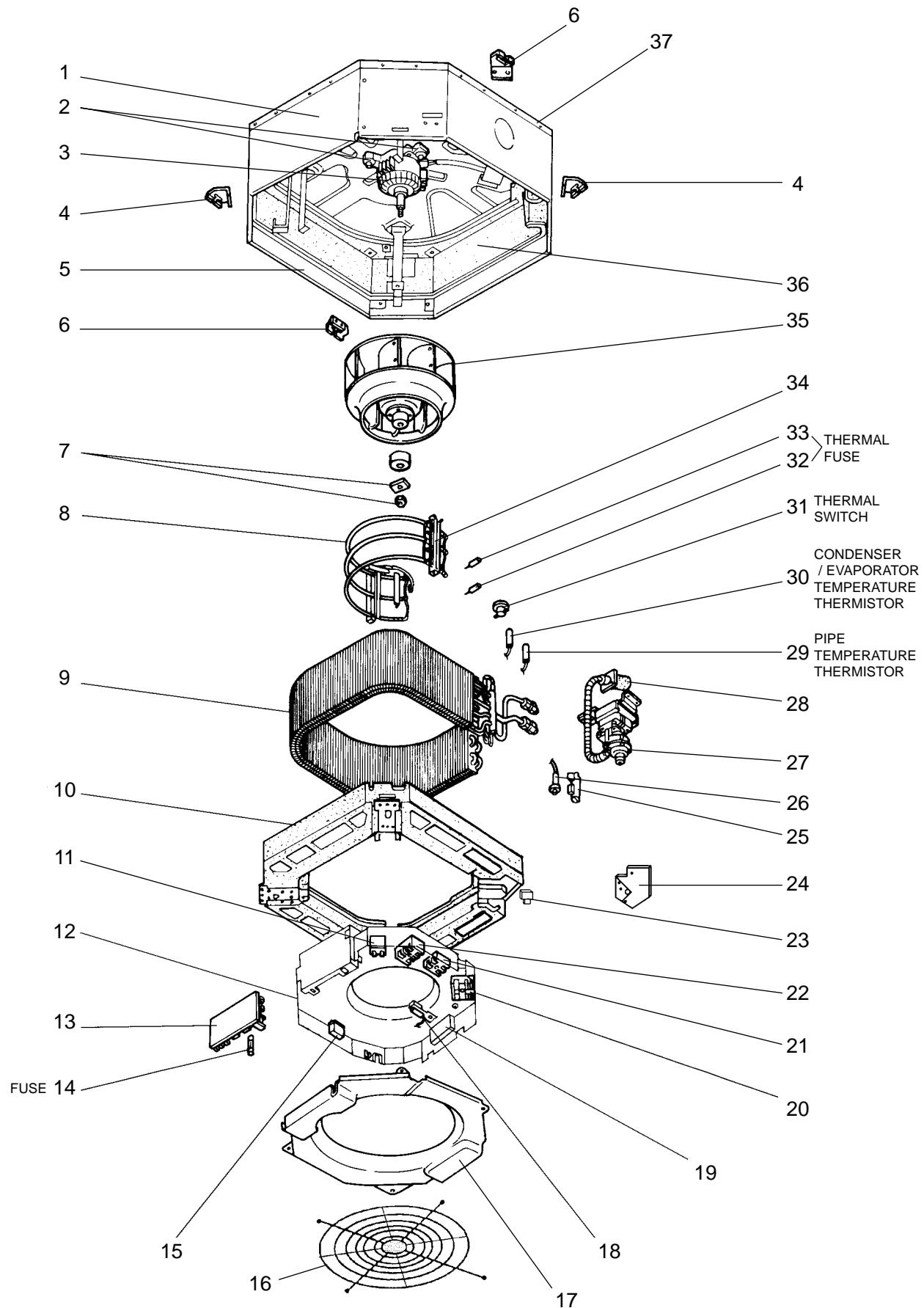
**PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK  
PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK**



| No. | Part No.    | Part Name         | Specification | Q'ty/set       |        | Remarks<br>(Drawing No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |  |  |  |
|-----|-------------|-------------------|---------------|----------------|--------|--------------------------|-----------------------------|--------------------------|-------|--------|--|--|--|
|     |             |                   |               | PLH-P1.6/2/2.5 |        |                          |                             |                          | Unit  | Amount |  |  |  |
|     |             |                   |               | KAH.UK         | KAH.UK |                          |                             |                          |       |        |  |  |  |
| 1   | S70 29H 002 | AUTO VANE         |               | 4              | 4      |                          |                             |                          |       |        |  |  |  |
| 2   | S70 31H 063 | SPRING JOINT 2    |               | 1              | 1      |                          |                             |                          |       |        |  |  |  |
| 3   | S70 29H 223 | VANE MOTOR        |               | 1              | 1      |                          | MV                          |                          |       |        |  |  |  |
| 4   | S70 29H 041 | GRILLE GEAR LEFT  |               | 1              | 1      |                          |                             |                          |       |        |  |  |  |
| 5   | S70 29H 040 | GRILLE GEAR RIGHT |               | 1              | 1      |                          |                             |                          |       |        |  |  |  |
| 6   | S70 29H 056 | PUSH BUTTON       |               | 1              | 1      |                          |                             |                          |       |        |  |  |  |
| 7   | S70 29H 063 | SPRING JOINT 1    |               | 1              | 1      | <3/SET>                  |                             |                          |       |        |  |  |  |
| 8   | S70 29H 085 | AIR GUIDE         |               | 1              | 1      |                          |                             |                          |       |        |  |  |  |

## FUNCTIONAL PARTS

**PLH-P1.6KAH.UK, PLH-P2KAH.UK, PLH-P2.5KAH.UK  
PLH-P1.6KAH<sub>1</sub>.UK, PLH-P2KAH<sub>1</sub>.UK, PLH-P2.5KAH<sub>1</sub>.UK**



Part numbers that is circled is not shown in the figure.

| No. | Part No.     | Part Name  | Specification  | Q'ty/set     |   |     |               |   |     | Remarks<br>(Drawing No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |  |  |  |
|-----|--------------|--|----------------|--------------|---|-----|---------------|---|-----|--------------------------|-----------------------------|--------------------------|-------|--------|--|--|--|
|     |              |  |                | PLH-P-KAH.UK |   |     | PLH-P-KAH..UK |   |     |                          |                             |                          | Unit  | Amount |  |  |  |
|     |              |  |                | 1.6          | 2 | 2.5 | 1.6           | 2 | 2.5 |                          |                             |                          |       |        |  |  |  |
| 1   | S70 003 688  | DRUM1 ASSY                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 2   | S70 29H 105  | MOTOR MOUNT                                      |                | 3            | 3 | 3   | 3             | 3 | 3   |                          |                             |                          |       |        |  |  |  |
| 3   | S70 E00 762  | FAN MOTOR  | PAI-V30F-1     | 1            | 1 | 1   | 1             | 1 | 1   |                          | MF                          |                          |       |        |  |  |  |
| 4   | S70 100 130  | LEG  |                | 2            | 2 | 2   | 2             | 2 | 2   |                          |                             |                          |       |        |  |  |  |
| 5   | S70 004 688  | DRUM2 ASSY                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 6   | S70 101 130  | LEG  |                | 2            | 2 | 2   | 2             | 2 | 2   |                          |                             |                          |       |        |  |  |  |
| 7   | S70 08K 097  | SPL WASHER                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 8   | S70 A00 300  | HEATER ELEMENT                                   | 467W 240V      | 3            | 3 |     | 3             | 3 |     |                          | H1                          |                          |       |        |  |  |  |
|     | S70 A01 300  | HEATER ELEMENT                                   | 700W 240V      |              |   | 3   |               |   | 3   |                          | H1                          |                          |       |        |  |  |  |
| 9   | S70 E23 480  | HEAT EXCHANGER                                   |                | 1            | 1 |     | 1             | 1 |     |                          |                             |                          |       |        |  |  |  |
|     | S70 E29 480  | HEAT EXCHANGER                                   |                |              |   | 1   |               |   | 1   |                          |                             |                          |       |        |  |  |  |
| 10  | S70 A10 529  | DRAIN PAN  |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 11  | S70 29H 255  | CAPACITOR  | 2.5μF 400V     | 1            | 1 | 1   | 1             | 1 | 1   |                          | C                           |                          |       |        |  |  |  |
| 12  | S70 003 501  | CONTROL COVER ASSY                               |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 13  | S70 E20 310* | CONTROLLER BOARD                                 |                | 1            | 1 | 1   | 1             | 1 | 1   |                          | I.B *                       |                          |       |        |  |  |  |
| 14  | S70 E00 239  | FUSE   | 250V 4A        | 1            | 1 | 1   | 1             | 1 | 1   |                          | F1<P.B>                     |                          |       |        |  |  |  |
| 15  | S70 71G 215  | RELAY  | JC-1a DC12V    | 1            | 1 | 1   | 1             | 1 | 1   |                          | 88H                         |                          |       |        |  |  |  |
| 16  | S70 A00 675  | FAN GUARD  |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 17  | S70 003 502  | BELL MOUTH                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 18  | S70 E10 202  | ROOM TEMPERATURE THERMISTOR                      | S/750XAP       | 1            | 1 | 1   | 1             | 1 | 1   |                          | TH1                         |                          |       |        |  |  |  |
| 19  | S70 E00 313  | POWER BOARD                                      |                | 1            | 1 | 1   | 1             | 1 | 1   |                          | P.B                         |                          |       |        |  |  |  |
| 20  | S70 E01 716  | TERMINAL BLOCK                                   | 3P(S1,S2,S3)   | 1            | 1 | 1   | 1             | 1 | 1   |                          | TB4                         |                          |       |        |  |  |  |
| 21  | S70 515 716  | TERMINAL BLOCK                                   | 2P(1,2)        | 1            | 1 | 1   | 1             | 1 | 1   |                          | TB5                         |                          |       |        |  |  |  |
| 22  | S70 A14 716  | TERMINAL BLOCK                                   | 3P(L,N,◎)      | 1            | 1 | 1   | 1             | 1 | 1   |                          | TB2                         |                          |       |        |  |  |  |
| 23  | S70 A48 524  | DRAIN PLUG                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 24  | S70 002 660  | CORNER COVER                                     |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 25  | S70 32K 241  | SENSOR HOLDER                                    |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 26  | S70 31K 266  | DRAIN SENSOR                                     |                | 1            | 1 | 1   | 1             | 1 | 1   |                          | DS                          |                          |       |        |  |  |  |
| 27  | S70 55K 355  | DRAIN PUMP                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          | DP                          |                          |       |        |  |  |  |
| 28  | S70 29H 523  | DRAIN SOCKET                                     |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 29  | S70 08K 202  | PIPE TEMPERATURE THERMISTOR                      |                | 1            | 1 | 1   | 1             | 1 | 1   |                          | TH2                         |                          |       |        |  |  |  |
| 30  | S70 E09 202  | CONDENSER /<br>EVAPORATOR TEMPERATURE THERMISTOR |                | 1            | 1 | 1   | 1             | 1 | 1   |                          | TH5                         |                          |       |        |  |  |  |
| 31  | S70 046 700  | THERMAL SWITCH                                   | OFF42°C ON32°C | 1            | 1 | 1   | 1             | 1 | 1   |                          | 26H                         |                          |       |        |  |  |  |
| 32  | S70 32K 706  | THERMAL FUSE                                     | 77°C 250V 10A  | 1            | 1 | 1   | 1             | 1 | 1   |                          | FS2                         |                          |       |        |  |  |  |
| 33  | S70 33K 706  | THERMAL FUSE                                     | 98°C 250V 10A  | 1            | 1 | 1   | 1             | 1 | 1   |                          | FS1                         |                          |       |        |  |  |  |
| 34  | S70 20J 303  | INSULATOR  |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 35  | S70 41N 114  | TURBO FAN  |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 36  | S70 002 659  | INNER COVER                                      |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 37  | S70 002 687  | BASE   |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |
| 38  | S70 W28 527  | DRAIN HOSE                                       |                | 1            | 1 | 1   | 1             | 1 | 1   |                          |                             |                          |       |        |  |  |  |

\* The part name of symbol "I.B" is "SPCB".

## 1. Program timer (PLH-P1.6 / 2 / 2.5KAH.UK)

|                      |                                      |
|----------------------|--------------------------------------|
| Part No.             | PAC-SC32PTA (with set back function) |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK             |

### 1-1 Program timer specifications

|                            |   |
|----------------------------|---|
| Part name                  | Program timer                             |
| Parts No.                  | PAC-SC32PTA                               |
| Exterior dimensions (inch) | 5-4/32X4-23/32X23/32 (130X120X18mm)       |
| Installation               | Wall mount                                |
| Type of clock              | Quartz                                    |
| Clock accuracy             | ±50 second / month at 25°C                |
| Display-Time               | Liquid crystal display                    |
| -Week                      | Liquid crystal display                    |
| -Timer setting unit        | Liquid crystal display                    |
| Program cycle              | 24 hours                                  |
| Timer setting unit         | 30 minutes                                |
| No. of set points          | 48 / day                                  |
| Power rating               | 5V DC ±5% (Supplied by Remote Controller) |

### 1-2 Feature of program timer

#### (1) Daily timer function

Daily timer can be set in 30 minutes units for up to 24 hours.

Each unit can be set for unit ON, unit OFF, or setback operation.

#### (2) Setback operation

Set back operation is useful for reducing running costs

e.g. At a hotel with a 24-hour system

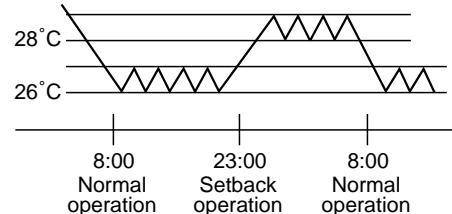
8:00~23:00 Cooling operation with set temperature at 26°C

23:00~8:00 Setback operation with 2 degrees of setback

As shown in the chart on the right, the set temperature rises 2 degrees automatically during the setback operation. When the setback operation ends, normal operation will begin.

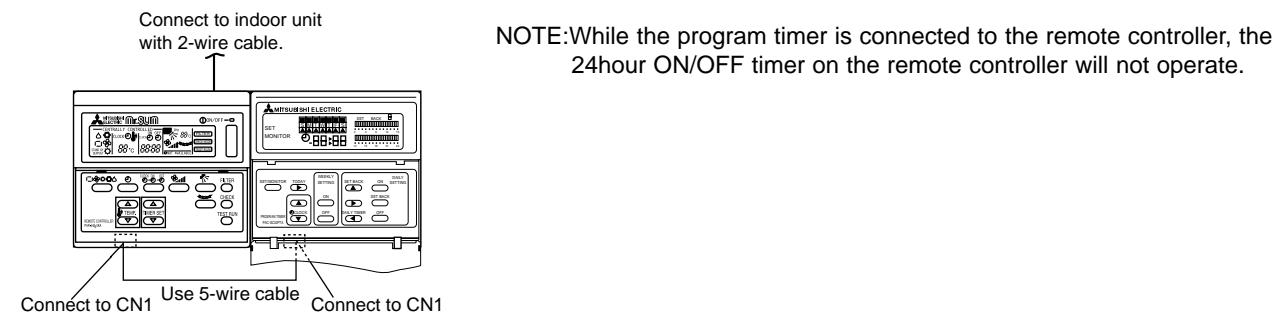
#### (3) Weekly timer function

Daily timer function can apply to each day of the week.



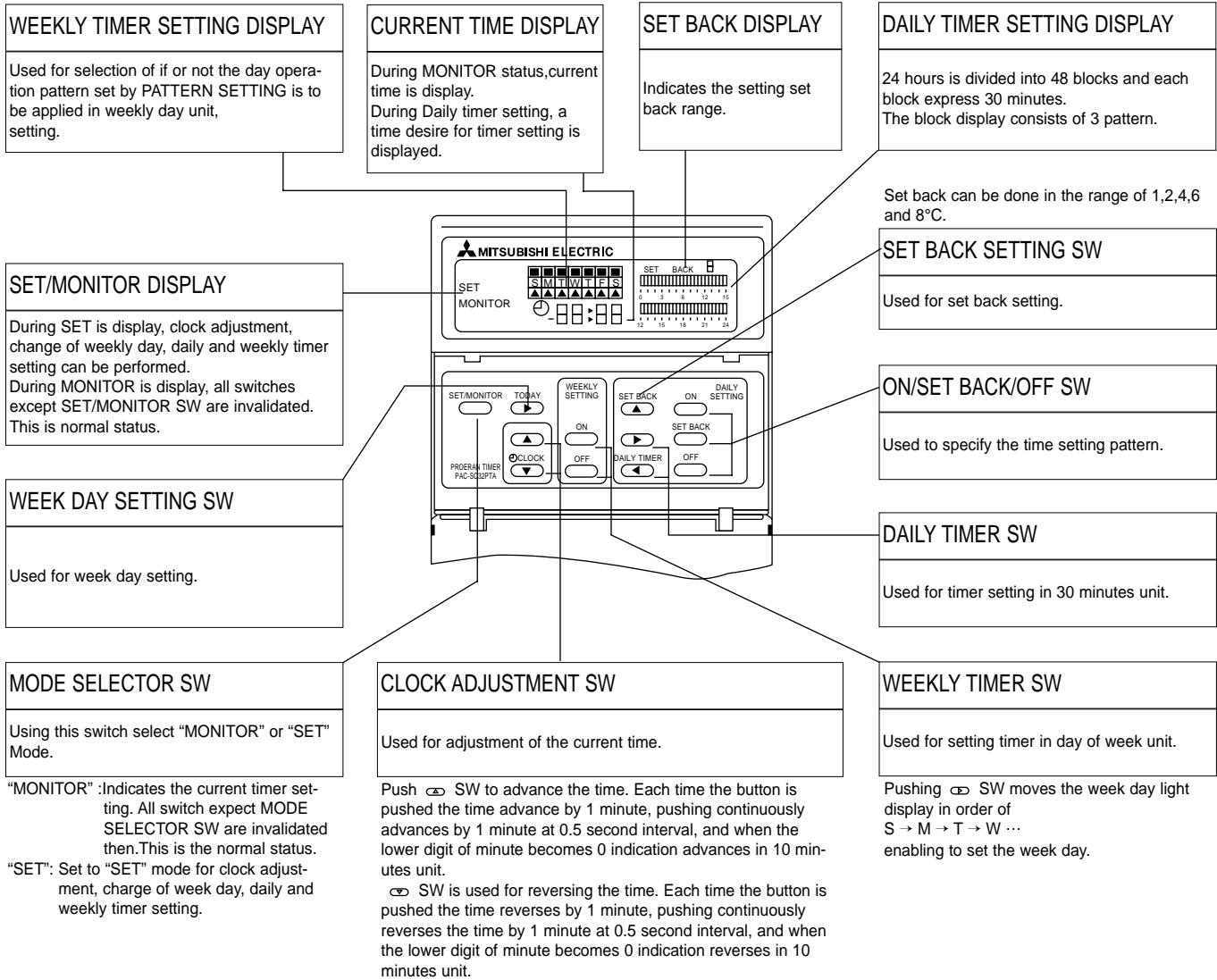
### 1-3 How to connect program timer

- (1) Install the program timer next to the remote controller the same way as the remote controller is installed.
- (2) Connect the program timer and the remote controller with a 5-wire cable as shown in the figure below



### 1-4 Names and functions

<PAC-SC32PTA>

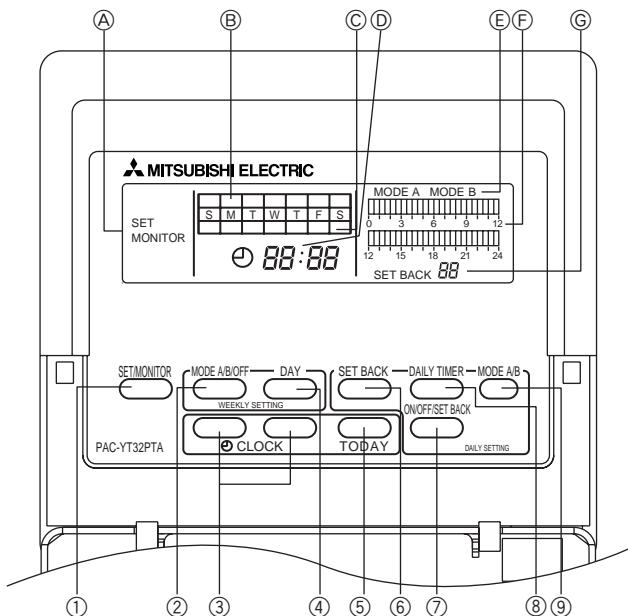


## 2. Program timer (PLH-P1.6 / 2 / 2.5KAH1.UK)

|                      |                           |
|----------------------|---------------------------|
| Part No.             | PAC-YT32PTA               |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH1.UK |

### 2-1 Names and functions

<PAC-YT32PTA>



Ⓐ SET/MONITOR DISPLAY:

When SET is displayed, clock adjustment, change of day, and daily and weekly timer settings can be performed. When MONITOR is displayed, all switches except SET/MONITOR SW are invalidated. This is normal status.

Ⓑ WEEKLY TIMER SETTING DISPLAY:

Used to select whether the operation pattern set using the PATTERN SETTING can be applied to different days of the week.

Ⓒ CURRENT DAY DISPLAY:

Indicates the current day.

Ⓓ CURRENT TIMEDIPLAY:

During MONITORstatus, current time is display.

During daily timer setting, a time desire for timer setting is displayed.

Ⓔ OPERATION MODE DISPLAY:

Indicates the operation mode.

Ⓕ DAILY TIMER SETTING DISPLAY:

24 hours is divided into 48 blocks and each block is expressed in 30 minutes.

The block display consists of 3 patterns.

Ⓖ SET BACK DISPLAY

Indicates the set back value.

① SET/MONITOR Button

Using this switch, select "MONITOR" or "SET" Mode.

"MONITOR": Indicates the current timer setting. All switches expect MODE SELECTOR SW are invalidated then. This is the normal status.

"SET": Set to "SET" mode for clock adjustment, change of day and daily and weekly timer settings.

② MODE A/B/OFF Button

Used for setting timer in day of week unit.

③ CLOCK ADJUSTMENT Button

Used for adjustment of the current time.

Push [▲] SW to advance the time. Each time the button is pushed the time advances by 1 minute, pushing continuously advances by 1 minute at 0.5 second intervals, and when the lower digit of the minute becomes "0" the time advances in 10 minute units.

[▼] SW is used for reversing the time. Each time the button is pushed the time reverses by 1 minute, pushing continuously reverses the time by 1 minute at 0.5 second intervals, and when the lower digit of the minute becomes "0" the time reverses in 10 minute units.

④ DAY SETTING Button

Used when setting the day.

⑤ WEEK DAY SETTING Button

Used for week day setting.

Pushing [▶] SW moves the week day light display in order of S→M → T→W→... enabling to set the week day.

⑥ SET BACK SETTING Button

Used for set back setting.

Set back can be done in the range of 1, 2, 4, 6 and 8°C (2, 4, 8, 12 and 16°F).

⑦ ON/OFF/SET BACK Button

Used to specify the time setting pattern.

⑧ DAILY TIMER Button

Used for timer setting in 30 minute units.

⑨ MODE A/B Button

Used to set A Mode or B Mode when specifying the operation time.



### 3. Wide Panel

|                      |  |
|----------------------|--|
| Part No.             | PAC-SE06WP-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 4. Space Panel

|                      |  |
|----------------------|--|
| Part No.             | PAC-SE01AS-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 5. Multi-Functional Casement (For HIGH EFFICIENCY FILTER AND FRESH AIR INTAKE)

|                      |  |
|----------------------|--|
| Part No.             | PAC-SE21TM-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 6. High-Efficiency Filter Element

|                      |  |
|----------------------|--|
| Part No.             | PAC-SE13KF-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 7. Grille + Wireless Remote Controller

|                      |                          |  |
|----------------------|--------------------------|--|
| Part No.             | PLP-2.5KAL-E             | PLP-2.5KLM                             |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK | PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 8. Remote Sensor

|                      |  |
|----------------------|--|
| Part No.             | PAC-SE41TS-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 9. Remote Operation Adapter

|                      |  |
|----------------------|--|
| Part No.             | PAC-SF40RM-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

### 10. Remote ON/OFF Adapter

|                      |  |
|----------------------|--|
| Part No.             | PAC-SE55RA-E   |
| Applied Service Ref. | PLH-P1.6 / 2 / 2.5KAH.UK, PLH-P1.6 / 2 / 2.5KAH <sub>1</sub> .UK |

Mr. SLIM™



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