

# TECHNICAL & SERVICE MANUAL

## Series PLFY Ceiling Cassettes

R410A / R407C / R22

Indoor unit  
[Model names]

[Service Ref.]

PLFY-P32VAM-E

**PLFY-P32VAM-E.UK**

PLFY-P40VAM-E

**PLFY-P40VAM-E.UK**

PLFY-P50VAM-E

**PLFY-P50VAM-E.UK**

PLFY-P63VAM-E

**PLFY-P63VAM-E.UK**

PLFY-P80VAM-E

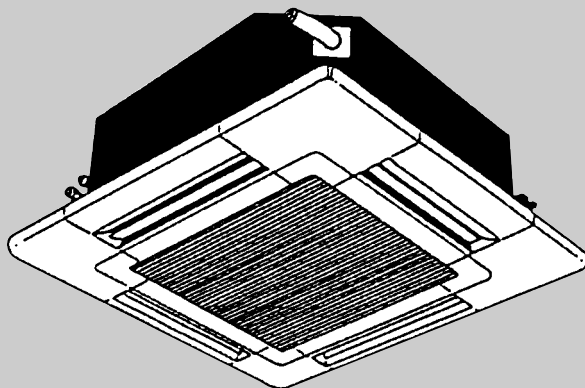
**PLFY-P80VAM-E.UK**

PLFY-P100VAM-E

**PLFY-P100VAM-E.UK**

PLFY-P125VAM-E

**PLFY-P125VAM-E.UK**



INDOOR UNIT

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Revision:

- " 10. PARTS LIST " has been modified.

• Please void OC313

**Revision:**

1. " 10. PARTS LIST " has been modified on page 30 and 31.

| Page | Revise point   | Service Ref.   | Incorrect   | Correct     |
|------|--|--|-------------|-------------|
| 28   | <b>10. PART LIST</b><br>FUNCTIONAL PARTS<br>No.10 MOTOR CAP  | PLFY-P32VAM-E.UK<br>PLFY-P40VAM-E.UK<br>PLFY-P50VAM-E.UK<br>PLFY-P63VAM-E.UK | —           | S70 E50 129 |
| 30   | <b>10. PART LIST</b><br>FUNCTIONAL PARTS<br>No.7 POWER BOARD |  | S70 E20 313 | S70 E02 313 |
| 31   | <b>10. PART LIST</b><br>FUNCTIONAL PARTS<br>No.1 DRAIN PAN   | PLFY-P100VAM-E.UK<br>PLFY-P125VAM-E.UK                                       | S70 E00 529 | S70 E01 529 |

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

# 1 SAFETY PRECAUTION

## CAUTIONS RELATED TO NEW REFRIGERANT

### Cautions for units utilizing refrigerant R407C

#### Do not use the existing refrigerant piping.

The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

#### Use liquid refrigerant to charge the system.

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

#### Use "low residual oil piping"

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

#### Do not use a refrigerant other than R407C.

If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the lubricant deterioration.

#### Store the piping to be used during installation indoors with keep both ends 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 a vacuum pump with a reverse flow check valve.

The vacuum pump oil may flow back into the refrigerant cycle and cause the lubricant deterioration.

#### Use ESTR , ETHER or HAB as the lubricant to coat flares and flange connection parts.

If large amount of mineral oil enter, that can cause deterioration of refrigerant oil etc.

#### Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

### [1] Cautions for service

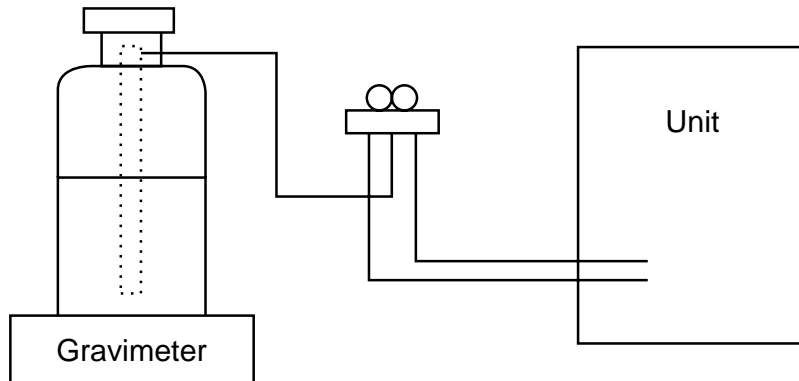
- After recovering the all refrigerant in the unit, proceed to working.
- Do not release refrigerant in the air.
- After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

## [2] Refrigerant recharging

### (1) Refrigerant recharging process

#### ① Direct 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.

## [3] 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 R134a or R407C.                 |
| ⑤   | Adapter for reverse flow check. | ·Attach on vacuum pump.                               |
| ⑥   | Refrigerant charge base.        |   |
| ⑦   | Refrigerant cylinder.           | ·For R407C     ·Top of cylinder (Brown)               |
|     |                                 | ·Cylinder with syphon                                 |
| ⑧   | Refrigerant recovery equipment. |   |

## Cautions for units utilizing refrigerant R410A

### Do not use the existing refrigerant piping.

The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

### Use "low residual oil piping"

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

### Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Leave elbow joints, etc. in their packaging.)

If dirt, dust or moisture enter into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

### Use ester oil, ether oil or alkylbenzene oil (small amount) as the refrigerant oil applied to flares and flange connections.

If large amount of mineral oil enter, that can cause deterioration of refrigerant oil etc.

### Charge refrigerant from liquid phase of gas cylinder.

If the refrigerant is charged from gas phase, composition change may occur in refrigerant and the efficiency will be lowered.

### Do not use refrigerant other than R410A.

If other refrigerant (R22 etc.) is used, chlorine in refrigerant can cause deterioration of refrigerant oil etc.

### Use a vacuum pump with a reverse flow check valve.

Vacuum pump oil may flow back into refrigerant cycle and that can cause deterioration of refrigerant oil etc.

### Use the following tools specifically designed for use with R410A refrigerant.

The following tools are necessary to use R410A refrigerant.

| Tools for R410A   |                                       |
|-------------------|---------------------------------------|
| Gauge manifold    | Flare tool                            |
| Charge hose       | Size adjustment gauge                 |
| Gas leak detector | Vacuum pump adaptor                   |
| Torque wrench     | Electronic refrigerant charging scale |

### Keep the tools with care.

If dirt, dust or moisture enter into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

### Do not use a charging cylinder.

If a charging cylinder is used, the composition of refrigerant will change and the efficiency will be lowered.

### Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

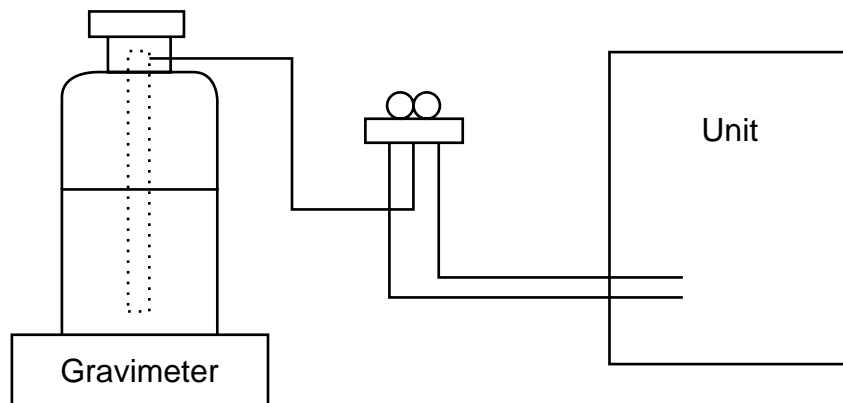
### [1] Cautions for service

- (1) Perform service after collecting the refrigerant left in unit completely.
- (2) Do not release refrigerant in the air.
- (3) After completing service, charge the cycle with specified amount of refrigerant.
- (4) When performing service, install a filter drier simultaneously.  
Be sure to use a filter drier for new refrigerant.

### [2] Additional refrigerant charge

#### When charging directly from cylinder

- Check that cylinder for R410A on the market is syphon type.
- Charging should be performed with the cylinder of syphon stood vertically. (Refrigerant is charged from liquid phase.)



### [3] Service tools

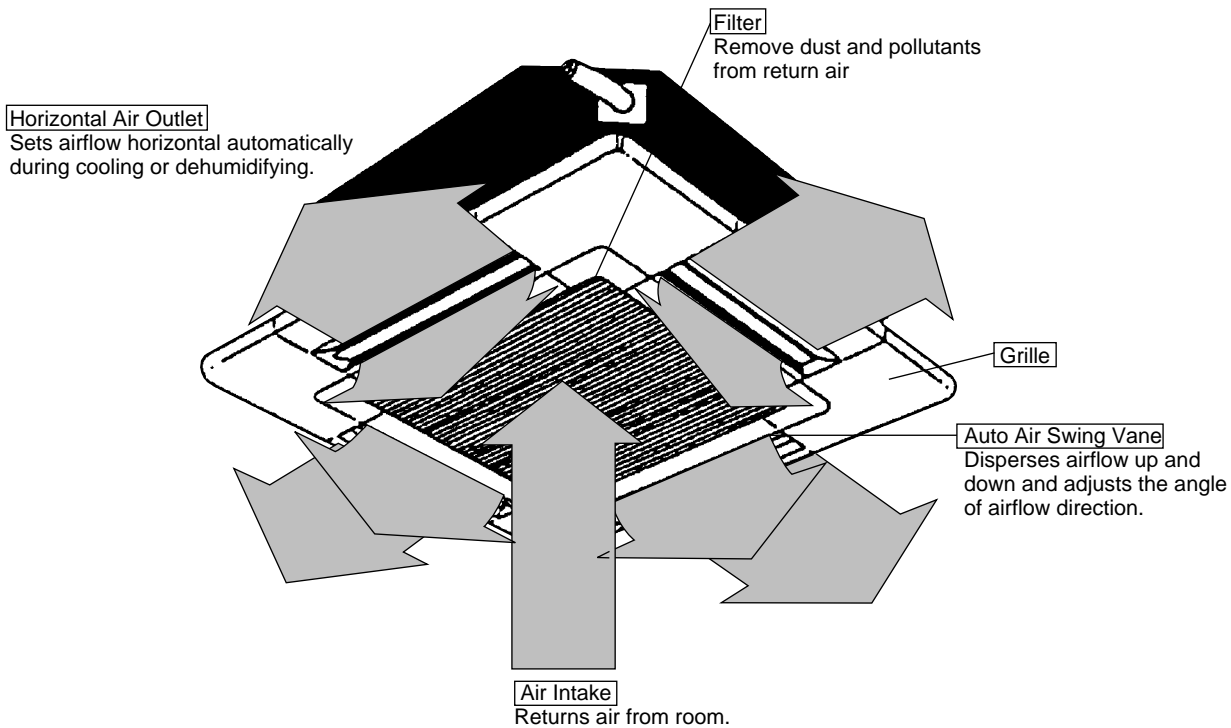
Use the below service tools as exclusive tools for R410A refrigerant.

| No. |                                | Specifications                                       |
|-----|--------------------------------|--|
| ①   | Gauge manifold                 | ·Only for R410A                                      |
|     |                                | ·Use the existing fitting specifications. (UNF1/2)   |
|     |                                | ·Use high-tension side pressure of 5.3MPa-G or over. |
| ②   | Charge hose                    | ·Only for R410A                                      |
|     |                                | ·Use pressure performance of 5.09MPa-G or over.      |
| ③   | Electronic scale               | —  |
| ④   | Gas leak detector              | ·Use the detector for R134a, R407C or R410A.         |
| ⑤   | Adaptor for reverse flow check | ·Attach on vacuum pump.                              |
| ⑥   | Refrigerant charge base        | —  |
| ⑦   | Refrigerant cylinder           | ·Only for R410A    Top of cylinder (Pink)            |
|     |                                | Cylinder with syphon                                 |
| ⑧   | Refrigerant recovery equipment | —  |

## 2

# PART NAMES AND FUNCTIONS

### ● Indoor Unit

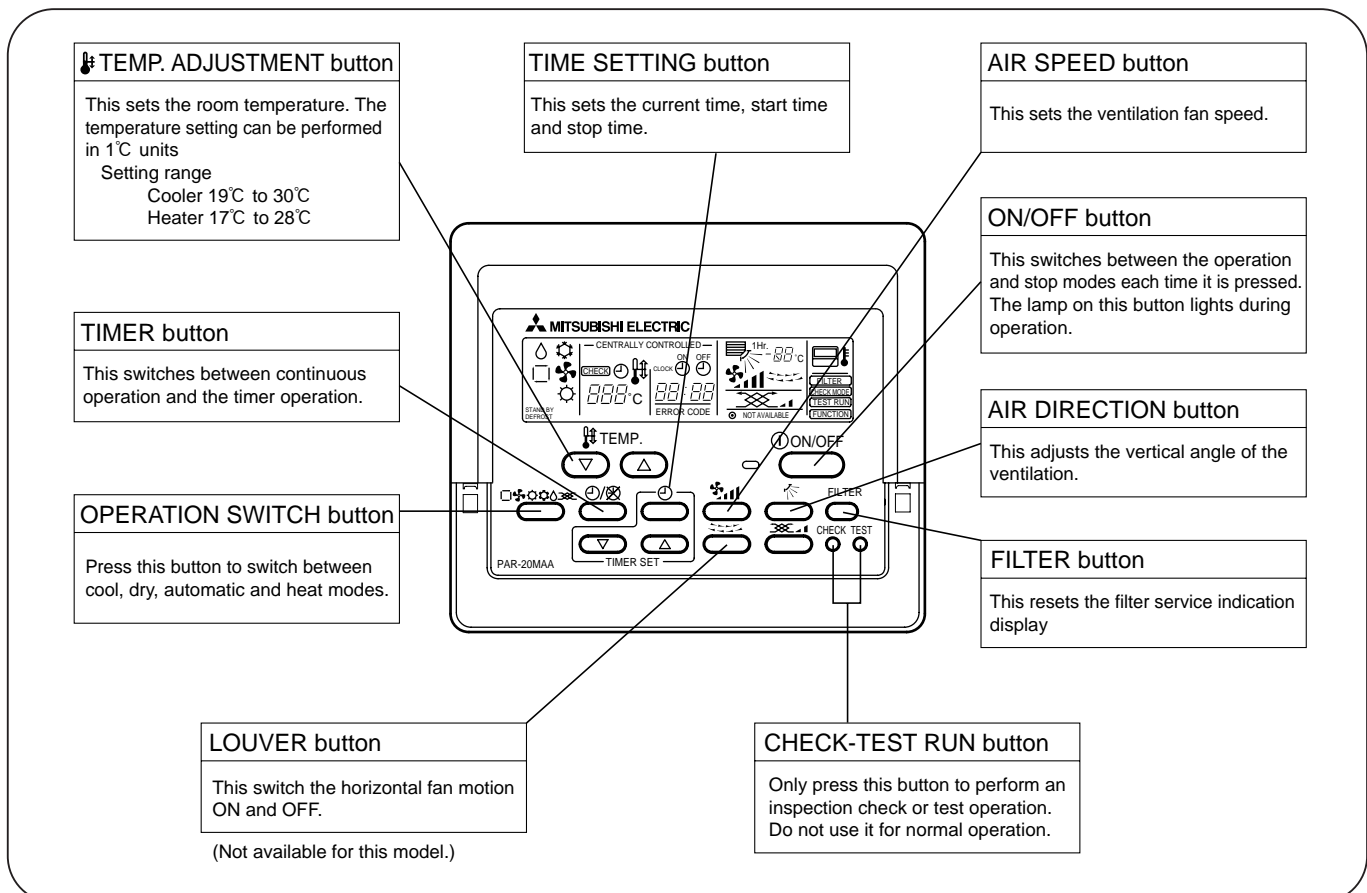


### ● Remote controller

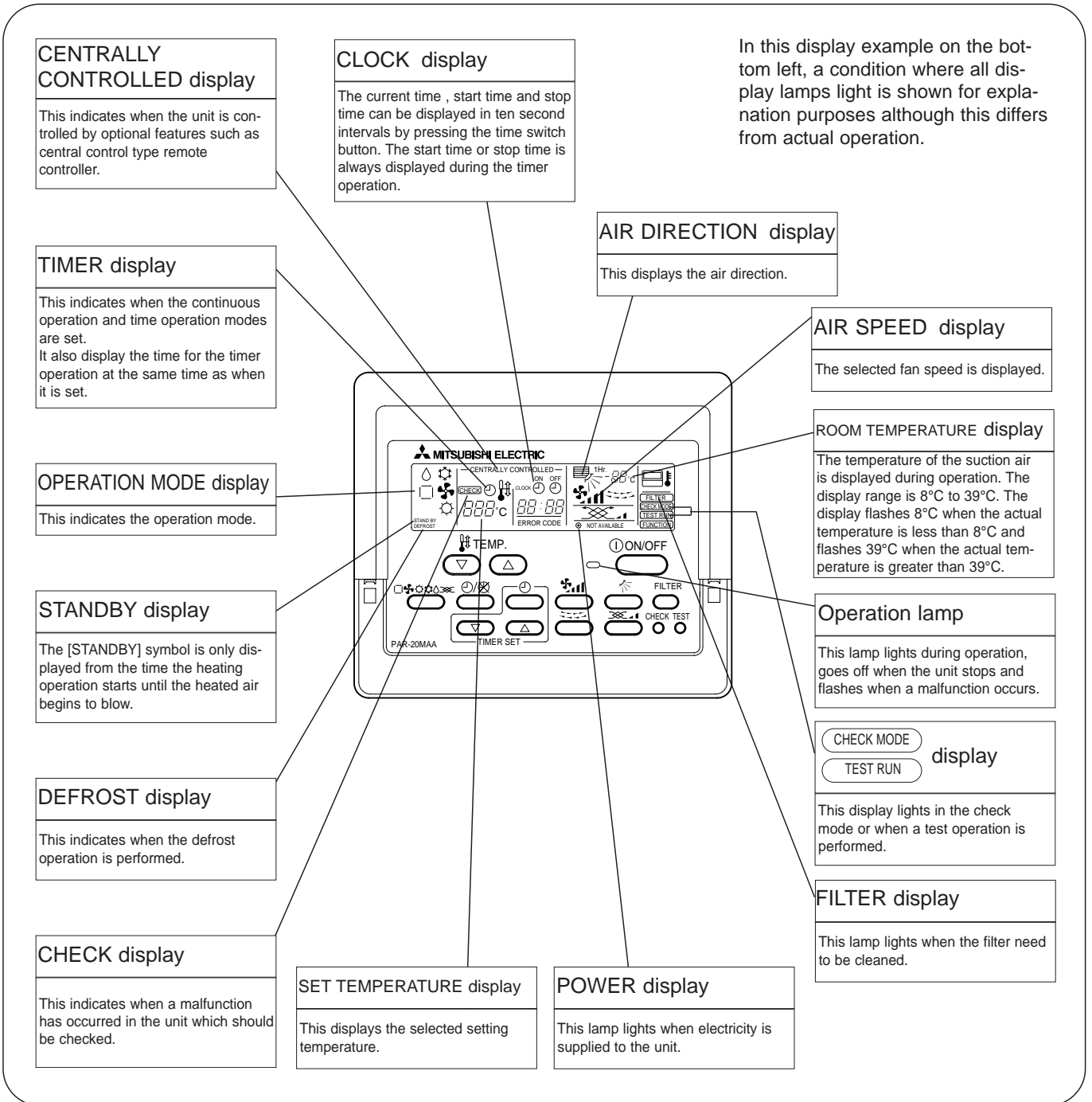
Once the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

### ● Operation buttons

**Note :** This figure is PAR-20MAA. Refer to each remote controller manual for the details.



## ● Display



### Caution

- Only the Power display lights when the unit is stopped and power supplied to the unit.
- When the central control remote control unit, which is sold separately, is used the ON-OFF button, operation switch button and TEMP. adjustment button do not operate.
- "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 then start the operation.

## 3-1. Specifications

| Item                      |                          | PLFY-P32VAM-E.UK   | PLFY-P40VAM-E.UK | PLFY-P50VAM-E.UK                           | PLFY-P63VAM-E.UK |
|---------------------------|--------------------------|--|------------------|--|------------------|
| Power                     | V·Hz                     | Single phase 220-230-240V 50Hz<br>Single phase 220V 60Hz                                       |                  |  |                  |
| Cooling capacity          | kW                       | 3.6  | 4.5              | 5.6  | 7.1              |
| Heating capacity          | kW                       | 4.0  | 5.0              | 6.3  | 8.0              |
| Electric characteristic   | Input                    | Cooling  | 0.12             |  | 0.16             |
|                           |                          | Heating  | 0.12             |  | 0.16             |
|                           | Current                  | Cooling  | 0.59             |  | 0.78             |
|                           |                          | Heating  | 0.59             |  | 0.78             |
| Exterior (munsell symbol) | —                        | Unit : Galvanized sheets with gray heat insulation Grills : ABS resin Munsell<0.70Y 8.59/0.97> |                  |  |                  |
| Dimensions                | Height                   | mm 258<30>   |                  |  |                  |
|                           | Width                    | mm 840<950>  |                  |  |                  |
|                           | Depth                    | mm 840<950>  |                  |  |                  |
| Heat exchanger            | —                        | Cross fin  |                  |  |                  |
| Fan                       | Fan X No                 | — Turbo fan X 1  |                  |  |                  |
|                           | Air flow ※3              | m <sup>3</sup> /min  | 14-13-12-11      | 16-14-13-12                                | 18-16-15-14      |
|                           | External static pressure | Pa   | 0                |  |                  |
|                           | Fan motor output         | kW   | 0.070            |  |                  |
| Insulator                 | —                        | Polyethylene sheet   |                  |  |                  |
| Air filter                | —                        | PP honey comb fabric   |                  |  |                  |
| Pipe dimensions           | Gas side                 | φmm(in.)   | φ12.7(1/2")      | φ12.7(1/2") / φ15.88(5/8")<br>(Compatible) | φ15.88(5/8")     |
|                           | Liquid side              | φmm(in.)   | φ6.35(1/4")      | φ6.35(1/4")/φ9.52(3/8")<br>(Compatible)    | φ9.52(3/8")      |
| Unit drain pipe size      | φmm                      | O.D.32 (PVC pipe VP-25 connectable)  |                  |  |                  |
| Noise level ※3            | dB                       | 31-29-28-27  | 32-30-28-27      |  | 33-31-29-28      |
| Product weight            | kg                       | 22<5>  |                  |  | 24<5>            |

- Note 1. Rating conditions(JIS B 8616)  
Cooling : Indoor : D.B. 27°C W.B. 19.0°C  
              outdoor : D.B. 35°C  
Heating : Indoor : D.B. 20°C  
              outdoor : D.B. 7°C W.B. 6°C

Note 2. The number indicated in < > is just for the grille.

- ※ 3. Air flow and the noise level are indicated as High-Medium1-Medium2-Low.





| Item                      |                          | PLFY-P80VAM-E.UK   | PLFY-P100VAM-E.UK | PLFY-P125VAM-E.UK                           |             |      |
|---------------------------|--------------------------|--|-------------------|---|-------------|------|
| Power                     | V•Hz                     | Single phase 220-230-240V 50Hz<br>Single phase 220V 60Hz                                       |                   |   |             |      |
| Cooling capacity          | kW                       | 9.0  | 11.2              | 14.0  |             |      |
| Heating capacity          | kW                       | 10.0   | 12.5              | 16.0  |             |      |
| Electric characteristic   | Input                    | Cooling  | kW                | 0.18  | 0.30        | 0.34 |
|                           |                          | Heating  | kW                | 0.18  | 0.30        | 0.34 |
|                           | Current                  | Cooling  | A                 | 0.86  | 1.43        | 1.64 |
|                           |                          | Heating  | A                 | 0.86  | 1.43        | 1.64 |
| Exterior (munsell symbol) | —                        | Unit : Galvanized sheets with gray heat insulation Grills : ABS resin Munsell<0.70Y 8.59/0.97> |                   |   |             |      |
| Dimensions                | Height                   | mm   | 258<30>           | 298<30>                                     |             |      |
|                           | Width                    | mm   | 840<950>          |   |             |      |
|                           | Depth                    | mm   | 840<950>          |   |             |      |
| Heat exchanger            | —                        | Cross fin  |                   |   |             |      |
| Fan                       | Fan X No                 | —  | Turbo fan X 1     |   |             |      |
|                           | Air flow *3              | m <sup>3</sup> /min  | 22-20-18-16       | 27-25-22-19                                 | 29-27-24-21 |      |
|                           | External static pressure | Pa   | 0                 |   |             |      |
|                           | Fan motor output         | kW   | 0.070             | 0.120                                       |             |      |
| Insulator                 | —                        | Polyethylene sheet   |                   |   |             |      |
| Air filter                | —                        | PP honey comb fabric   |                   |   |             |      |
| Pipe dimensions           | Gas side                 | φmm(in.)   | 15.88(5/8")       | φ15.88(5/8") / φ19.05(3/4")<br>(Compatible) |             |      |
|                           | Liquid side              | φmm(in.)   | 9.52(3/8")        |   |             |      |
| Unit drain pipe size      | φmm                      | O.D.32 (PVC pipe VP-25 connectable)  |                   |   |             |      |
| Noise level *3            | dB                       | 37-35-32-30  | 41-39-36-33       | 43-41-38-35                                 |             |      |
| Product weight            | kg                       | 24<5>  | 32<5>             |   |             |      |

Note 1. Rating conditions(JIS B 8616)  
Cooling : Indoor : D.B. 27°C W.B. 19.0°C  
                  outdoor : D.B. 35°C  
Heating : Indoor : D.B. 20°C  
                  outdoor : D.B. 7°C W.B. 6°C

Note 2. The number indicated in < > is just for the grille.

\* 3. Air flow and the noise level are indicated as High-Medium1-Medium2-Low.



### 3-2. Electrical parts specifications

| Model<br>Parts name                     | Symbol | PLFY-P32VAM-E.UK  | PLFY-P40VAM-E.UK                  | PLFY-P50VAM-E.UK | PLFY-P63VAM-E.UK |
|---|--------|---|-----------------------------------|------------------|------------------|
| Room temperature thermistor             | TH21   | Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.4kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ           |                                   |                  |                  |
| Liquid pipe thermistor                  | TH22   | Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.4kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ           |                                   |                  |                  |
| Gas pipe thermistor                     | TH23   | Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.4kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ           |                                   |                  |                  |
| Fuse<br>(Indoor controller board)       | FUSE   | 250V 6.3A   |                                   |                  |                  |
| Fan motor<br>(with inner-thermostat)    | MF     | 6-pole OUTPUT 70W<br>D17B6P70MS   |                                   |                  |                  |
|   |        | Inner-thermostat  | OFF 130°C ± 5°C<br>ON 90°C ± 20°C |                  |                  |
| Fan motor capacitor                     | C      | 3.0μF X 440V  |                                   |                  |                  |
| Vane motor                              | MV     | MSBPC20M04<br>DC12V 300Ω/phase  |                                   |                  |                  |
| Drain-up mechanism                      | DP     | PLD-12230ME-1<br>INPUT 12/10.8W 24 ℓ /Hr  |                                   |                  |                  |
| Drain sensor                            | DS     | Thermistor resistance 0°C/6kΩ, 10°C/3.9kΩ, 20°C/2.6kΩ, 25°C/2.2kΩ, 30°C/1.8kΩ, 40°C/1.3kΩ |                                   |                  |                  |
| Linear expansion valve                  | LEV    | DC12V Stepping motor drive port dimension 5.2Ω (0~2000pulse)<br>EDM-40YGME                |                                   |                  |                  |
| Electric heater<br>(Condensation proof) | H2     | 240V 21.8W  |                                   |                  |                  |
| Power supply terminal<br>block          | TB2    | (L, N, ⊕) Rated to 330V 30A *   |                                   |                  |                  |
| Transmission terminal<br>block          | TB5    | (M1, M2, S) Rated to 250V 20A *   |                                   |                  |                  |
| MA remote controller<br>terminal block  | TB15   | (1, 2) Rated to 250V 10A *  |                                   |                  |                  |

\* Note : Refer to WIRING DIAGRAM for the supplied voltage.



| Model<br>Parts name                     | Symbol | PLFY-P80VAM-E.UK  | PLFY-P100VAM-E.UK                | PLFY-P125VAM-E.UK                 |
|---|--------|---|----------------------------------|-----------------------------------|
| Room temperature thermistor             | TH21   | Resistance 0°C /15kΩ, 10°C /9.6kΩ, 20°C /6.3kΩ, 25°C /5.4kΩ, 30°C /4.3kΩ, 40°C /3.0kΩ           |                                  |                                   |
| Liquid pipe thermistor                  | TH22   | Resistance 0°C /15kΩ, 10°C /9.6kΩ, 20°C /6.3kΩ, 25°C /5.4kΩ, 30°C /4.3kΩ, 40°C /3.0kΩ           |                                  |                                   |
| Gas pipe thermistor                     | TH23   | Resistance 0°C /15kΩ, 10°C /9.6kΩ, 20°C /6.3kΩ, 25°C /5.4kΩ, 30°C /4.3kΩ, 40°C /3.0kΩ           |                                  |                                   |
| Fuse<br>(Indoor controller board)       | FUSE   | 250V 6.3A   |                                  |                                   |
| Fan motor<br>(with inner-thermostat)    | MF     | 6-pole OUTPUT 70W<br>D17B6P70MS   | 6-pole OUTPUT 120W<br>D176P120MS |                                   |
|   |        | Inner-thermostat  |                                  | OFF 130°C ± 5°C<br>ON 90°C ± 20°C |
| Fan motor capacitor                     | C      | 3.5μF X 440V  | 7.0μF X 440V                     |                                   |
| Vane motor                              | MV     | MSBPC20M04<br>DC12V 300Ω/phase  |                                  |                                   |
| Drain-up mechanism                      | DP     | PLD-12230ME-1<br>INPUT 12/10.8W 24 ℓ /Hr  |                                  |                                   |
| Drain sensor                            | DS     | Thermistor resistance 0°C /6kΩ, 10°C /3.9kΩ, 20°C /2.6kΩ, 25°C /2.2kΩ, 30°C /1.8kΩ, 40°C /1.3kΩ |                                  |                                   |
| Linear expansion valve                  | LEV    | DC12V Stepping motor drive port dimension 5.2Ω (0~2000pulse)<br>EDM-80YGME                      |                                  |                                   |
| Electric heater<br>(Condensation proof) | H2     | 240V 21.8W  |                                  |                                   |
| Power supply terminal block             | TB2    | (L, N, ⊕) Rated to 330V 30A *   |                                  |                                   |
| Transmission terminal block             | TB5    | (M1, M2, S) Rated to 250V 20A *   |                                  |                                   |
| MA remote controller terminal block     | TB15   | (1, 2) Rated to 250V 10A *  |                                  |                                   |

\* Note : Refer to WIRING DIAGRAM for the supplied voltage.


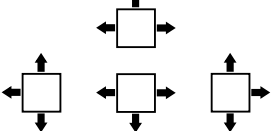
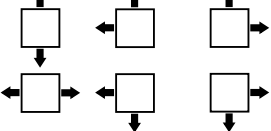
## 4 4-WAY AIR FLOW SYSTEM

### 4-1. Placement of the air outlets

- For this grille, the blowout direction comes in 11 patterns.

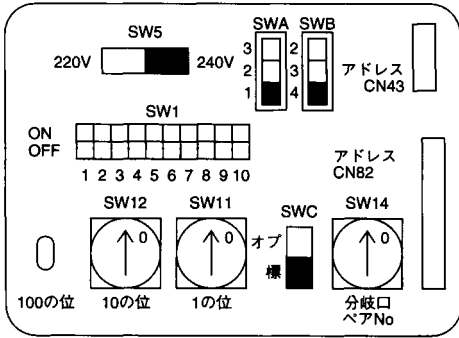
Also, by setting the dip switches (SWA and SWB) on the circuit board to the appropriate settings, you can adjust the air flow and speed. Select the settings from Table according to the location in which you want to install the unit.

- Decide on the pattern of the airflow direction.

| <Table 1>                 | 4-direction   | 3-direction   | 2-direction  |
|---------------------------|---|---|--|
| Blowout direction pattern | <b>Pattern 1</b> Factory setting<br> | <b>Pattern 4</b> One air outlet fully closed<br> | <b>Pattern 6</b> Two air outlet fully closed<br> |

Note1.  
For 3 and 2-directional, please use the air outlet shutter plate (option).

- 2) According to the number of air outlets and height of the ceiling to install the unit, be sure to set the up switches (SWA, SWB) on the circuit board to the appropriate setting.
- Correspondence of ceiling heights to numbers of air outlets.



PLFY-P32·P40·P50·P63·P80VAM-E

| SWA \ SWB |             | ①        | ②              | ③              |
|-----------|-------------|----------|----------------|----------------|
|           |             | Standard | High ceiling ① | High ceiling ② |
| ④         | 4 direction | 2.7m     | 3.0m           | 3.5m           |
| ③         | 3 direction | 3.0m     | 3.3m           | 3.5m           |
| ②         | 2 direction | 3.3m     | 3.5m           | —              |

PLFY-P100·P125VAM-E

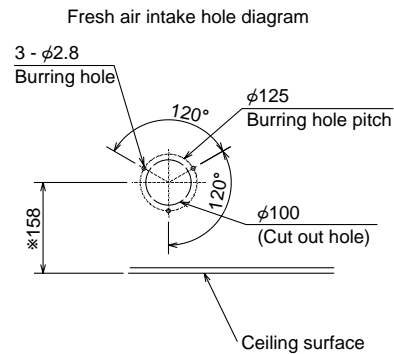
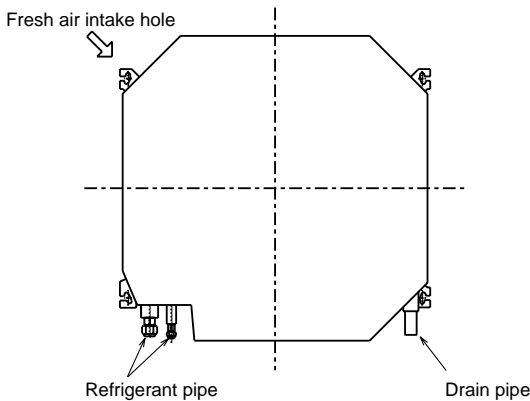
| SWA \ SWB |             | ①        | ②              | ③              |
|-----------|-------------|----------|----------------|----------------|
|           |             | Standard | High ceiling ① | High ceiling ② |
| ④         | 4 direction | 3.2m     | 3.6m           | 4.2m           |
| ③         | 3 direction | 3.6m     | 4.0m           | 4.2m           |
| ②         | 2 direction | 4.0m     | 4.2m           | —              |

## 4-2. Fresh air intake (Installation of site)

- At the time of installation, use the duct holes (cutout) located at the positions shown in following diagram, as and when required.

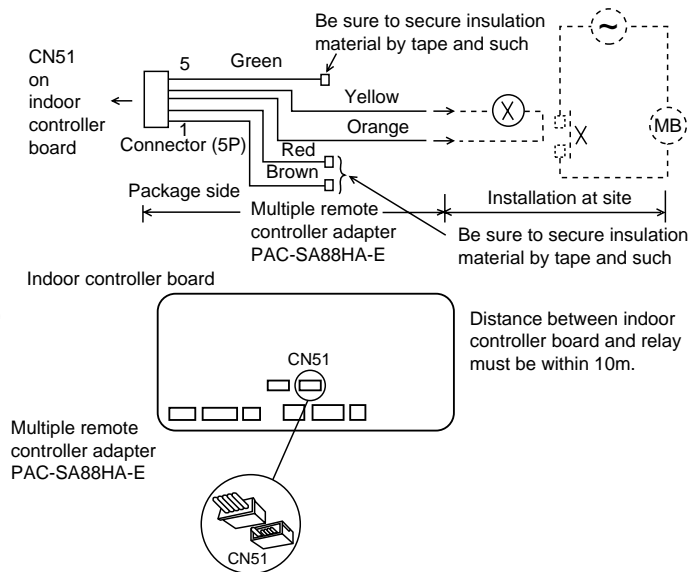
Note :

Be sure to add 135mm to the dimensions in the diagram that are marked with a “\*” if installing a multi function casement (Option)



## 4-3. Interlocking operation method with duct fan (Booster fan)

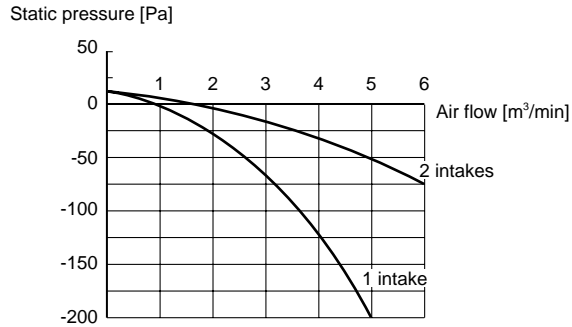
- Whenever the indoor unit is operating, the duct fan also operates.
- (1) Connect the optional multiple remote controller adapter (PAC-SA88HA-E) to the connector CN51 on the indoor controller board.
  - (2) Drive the relay after connecting the 12V DC relay between the Yellow and Orange connector lines.
- MB: Electromagnetic switch power relay for duct fan.  
X: Auxiliary relay (For DC 12V, coil rating : 1.0W or below)



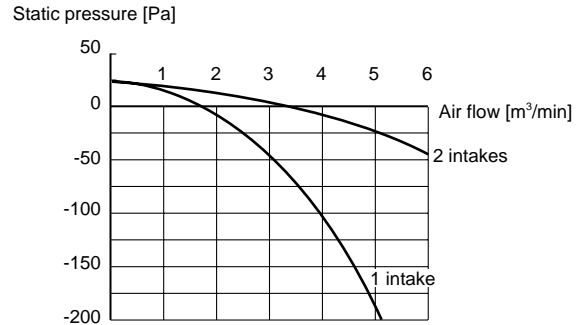
## 4-4. Fresh air intake amount & static pressure characteristics

### 1 PLFY-P32 · P40 · P50 · P63 · P80VAM-E

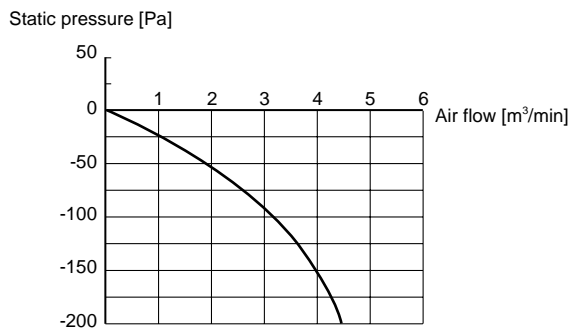
Multifunction casement + Standard filter



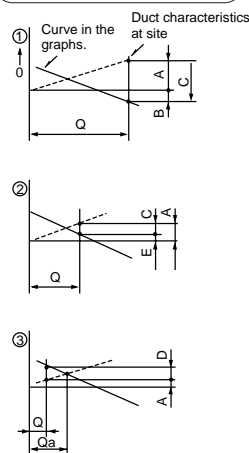
Multifunction casement + High efficiency filter



#### Taking air into the unit



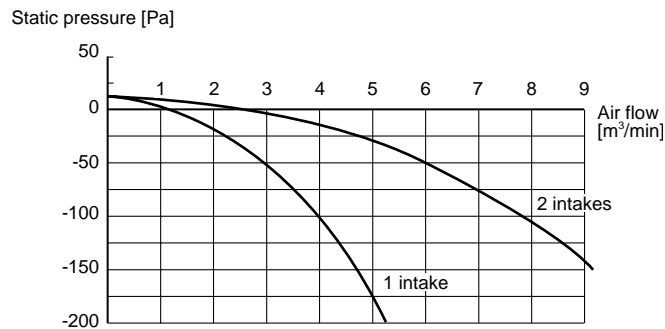
#### How to read curves



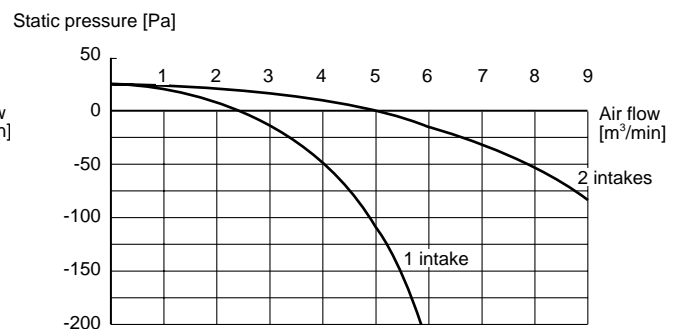
- Q...Planned amount of fresh air intake <math>\langle m^3/min \rangle</math>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q <math>\langle Pa \rangle</math>
- B...Forced static pressure at air conditioner inlet with air flow amount Q <math>\langle Pa \rangle</math>
- C...Static pressure of booster fan with air flow amount Q <math>\langle Pa \rangle</math>
- D...Static pressure loss increase amount of fresh air intake dust system for air flow amount Q <math>\langle Pa \rangle</math>
- E...Static pressure of indoor unit with air flow amount Q <math>\langle Pa \rangle</math>
- Qa...Estimated amount of fresh air intake with out D <math>\langle m^3/min \rangle</math>

### 2 PLFY-P100 · P125VAM-E

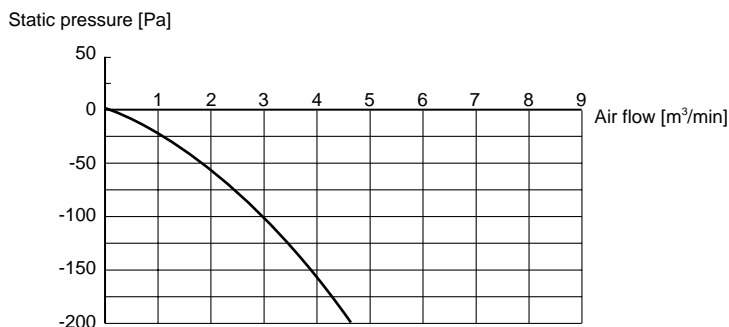
Multifunction casement + Standard filter



Multifunction casement + High efficiency filter



#### Taking air into the unit

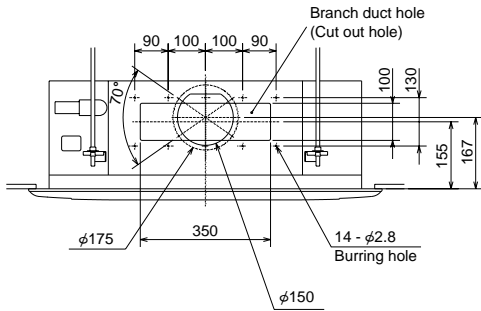


# 5

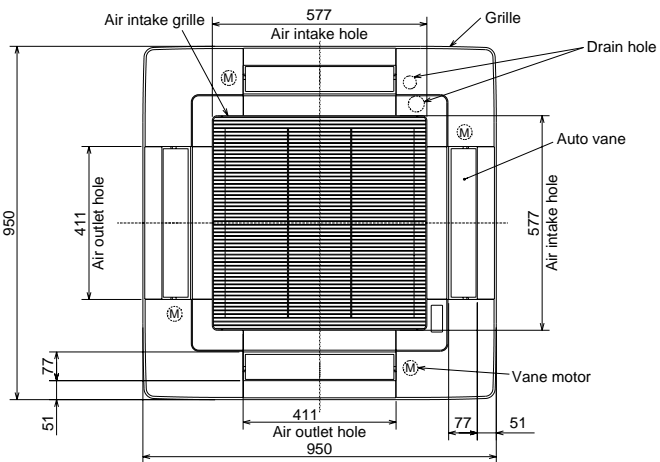
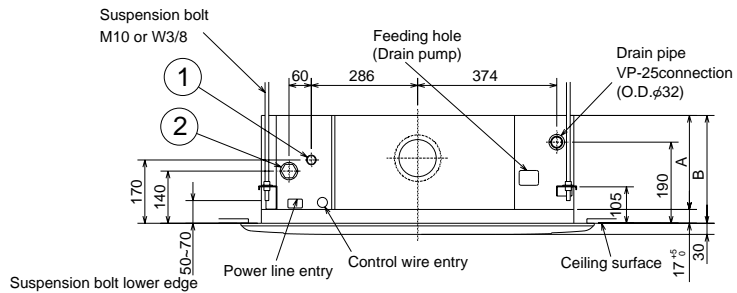
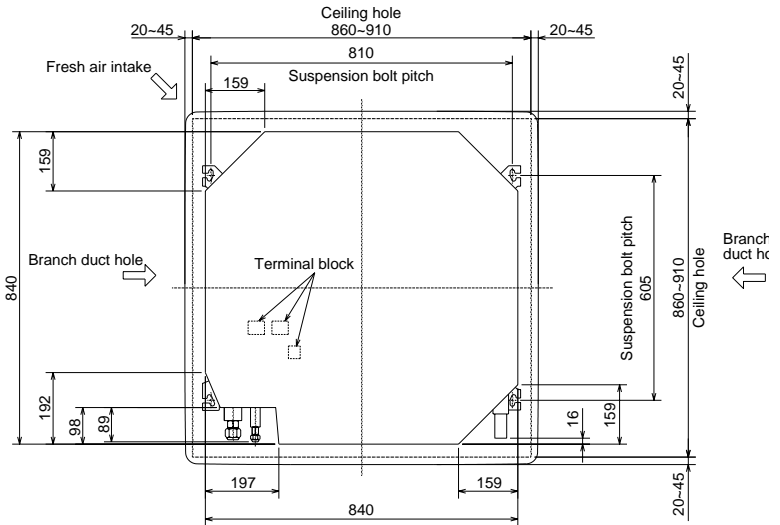
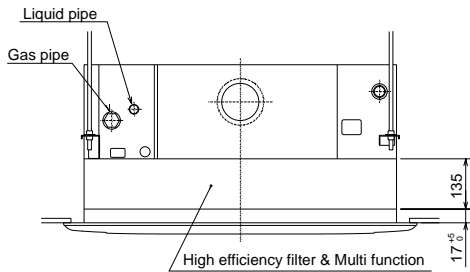
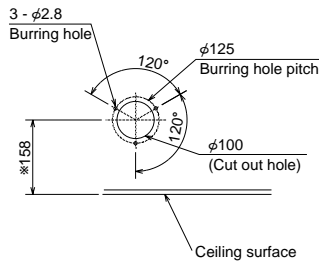
# OUTLINES AND DIMENSIONS

**PLFY-P32VAM-E.UK**    **PLFY-P80VAM-E.UK**  
**PLFY-P40VAM-E.UK**    **PLFY-P100VAM-E.UK**  
**PLFY-P50VAM-E.UK**    **PLFY-P125VAM-E.UK**  
**PLFY-P63VAM-E.UK**

Unit : mm



Detail drawing of fresh air intake



**NOTES :**

- When servicing, electrical parts box may be disassembled. Make the wires loose enough when connecting heater power supply wire, remote controller wire, and indoor/outdoor unit connecting wire.
- Detaching corner panel makes it possible to adjust the height of body with the grille attached.
- Caution for attaching optional Multi function casement and optional High efficiency filter :
  - Space behind the ceiling shall be high enough as specified in the table below.

|           |     |
|-----------|-----|
| P32-P80   | 400 |
| P100-P125 | 440 |

  - Add extra 135mm to the dimensions of \* in the figure.
  - Mount both High efficiency filter and Multi function casement together.
- When connecting branch duct, be sure to insulate the heat. (Otherwise, it causes dew to form or drop.)

| Models            | ① Liquid Pipe              | ② Gas Pipe                  | A   | B   |
|-------------------|----------------------------|-----------------------------|-----|-----|
| PLFY-P32VAM-E.UK  | φ6.35                      | φ12.7                       | 241 | 258 |
| PLFY-P40VAM-E.UK  |                            |                             |     |     |
| PLFY-P50VAM-E.UK  | φ6.35 / φ9.52 (Compatible) | φ12.7 / φ15.88 (Compatible) | 281 | 298 |
| PLFY-P63VAM-E.UK  |                            |                             |     |     |
| PLFY-P80VAM-E.UK  | φ9.52                      | φ15.88                      | 281 | 298 |
| PLFY-P100VAM-E.UK |                            |                             |     |     |
| PLFY-P125VAM-E.UK |                            | φ15.88/φ19.05 (Compatible)  |     |     |

# 6

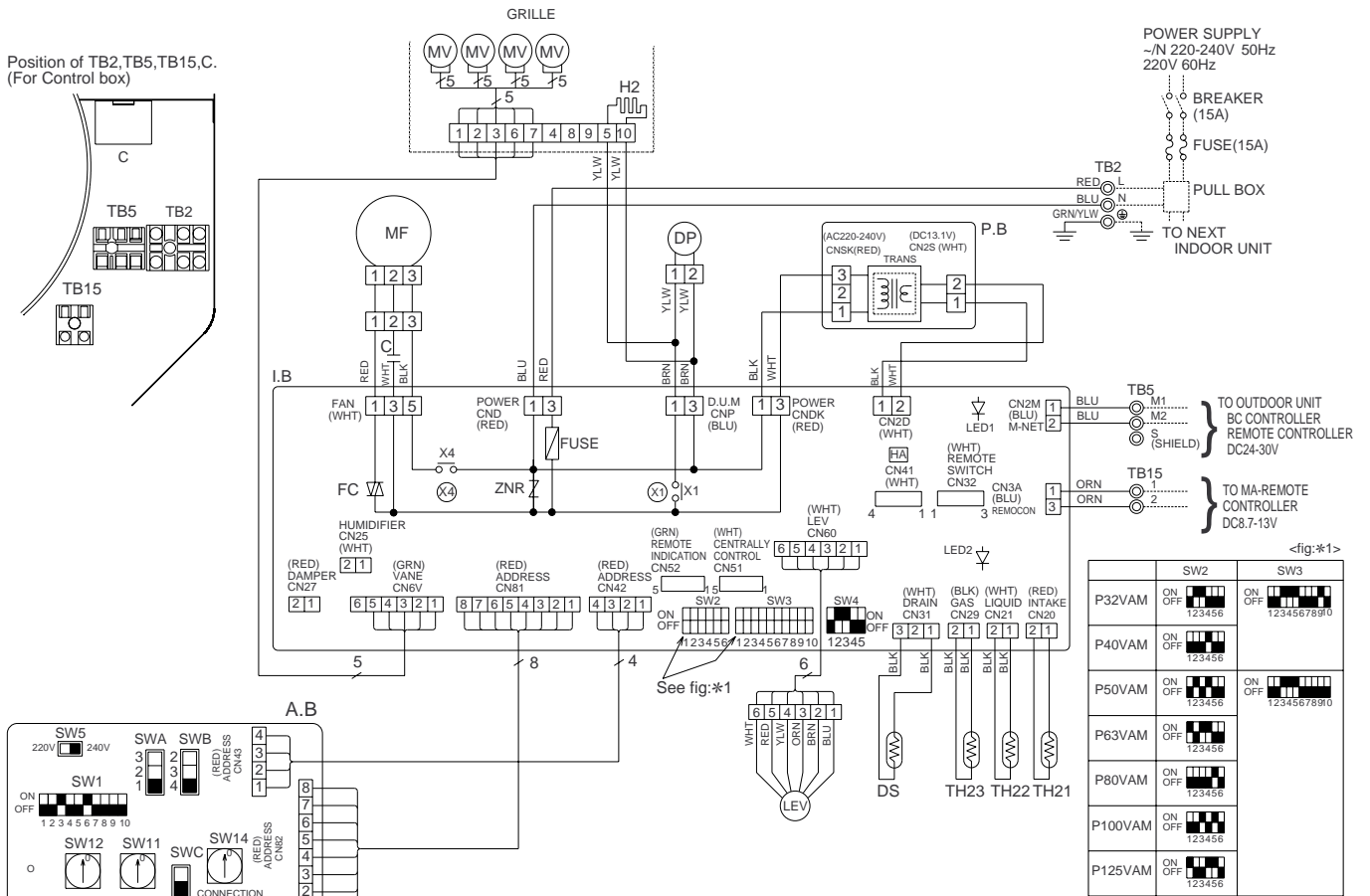
# WIRING DIAGRAM

PLFY-P32VAM-E.UK    PLYF-P80VAM-E.UK  
 PLYF-P40VAM-E.UK    PLYF-P100VAM-E.UK  
 PLYF-P50VAM-E.UK    PLYF-P125VAM-E.UK  
 PLYF-P63VAM-E.UK

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

**[LEGEND]**

| SYMBOL | NAME                    | SYMBOL | NAME                          | SYMBOL | NAME                             |
|--------|-------------------------|--------|-------------------------------|--------|----------------------------------|
| P.B    | INDOOR POWER BOARD      | C      | CAPACITOR(FAN MOTOR)          | A.B    | CIRCUIT BOARD                    |
| I.B    | INDOOR CONTROLLER BOARD | MF     | FAN MOTOR(WITH INNER THERMO.) | SW1    | SWITCH                           |
| CN25   | CONNECTOR               | MV     | VANE MOTOR                    | SW5    | VOLTAGE SELECTION                |
| CN27   |                         | DP     | DRAIN PUMP                    | SW11   | ADDRESS SETTING 1ST DIGIT        |
| CN32   |                         | DS     | DRAIN SENSOR                  | SW12   | ADDRESS SETTING 2ND DIGIT        |
| CN41   |                         | H2     | DEW PREVENTION HEATER         | SW14   | CONNECTION NO.                   |
| CN51   |                         | TB2    | TERMINAL                      | SWA    | CEILING HEIGHT SELECTOR          |
| CN52   |                         | TB5    | BLOCK                         | SWB    | DISCHARGE OUTLET NUMBER SELECTOR |
| SW2    | SWITCH                  | TB15   | TERMINAL                      | SWC    | OPTION SELECTOR                  |
| SW3    |                         | TH21   | THERMISTOR                    |        |                                  |
| SW4    |                         | TH22   |                               |        |                                  |
| ZNR    | VARISTOR                | TH23   |                               |        |                                  |
| FUSE   | FUSE(6.3A/250V)         | LEV    | LINEAR EXPANSION VALVE        |        |                                  |
| F.C    | FAN PHASE CONTROL       |        |                               |        |                                  |
| X1     | AUX.RELAY               |        |                               |        |                                  |
| X4     |                         |        |                               |        |                                  |
| LED1   | POWER SUPPLY(I.B)       |        |                               |        |                                  |
| LED2   | POWER SUPPLY(I.B)       |        |                               |        |                                  |



LED on indoor controller board for service

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

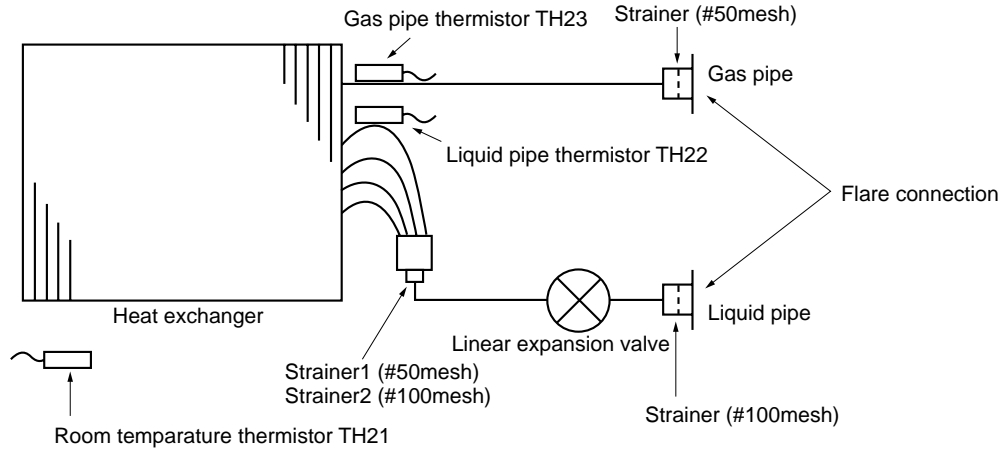
**NOTES:**

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

7

**REFRIGERANT SYSTEM DIAGRAM**

**PLFY-P32VAM-E.UK    PLYF-P80VAM-E.UK**  
**PLFY-P40VAM-E.UK    PLYF-P100VAM-E.UK**  
**PLFY-P50VAM-E.UK    PLYF-P125VAM-E.UK**  
**PLFY-P63VAM-E.UK**

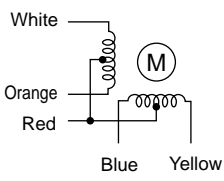
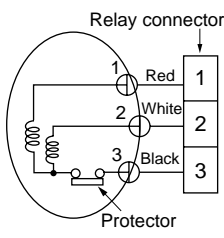
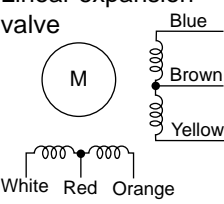
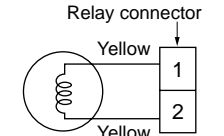
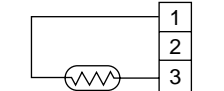


| Capacity<br>Item | PLFY-P32, P40VAM-E | PLFY-P50VAM-E                      | PLFY-P63, P80VAM-E | PLFY-P100, P125VAM-E                |
|------------------|--------------------|------------------------------------|--------------------|-------------------------------------|
| Gas pipe         | $\phi 12.7(1/2")$  | $\phi 12.7(1/2")/\phi 15.88(5/8")$ | $\phi 15.88(5/8")$ | $\phi 15.88(5/8")/\phi 19.05(5/8")$ |
| Liquid pipe      | $\phi 6.35(1/4")$  | $\phi 6.35(1/4")/\phi 9.52(3/8")$  | $\phi 9.52(3/8")$  | $\phi 9.52(3/8")$                   |



## 8-1. How to check the parts

PLFY-P32VAM-E.UK    PLY-P80VAM-E.UK  
 PLY-P40VAM-E.UK    PLY-P100VAM-E.UK  
 PLY-P50VAM-E.UK    PLY-P125VAM-E.UK  
 PLY-P63VAM-E.UK

| Parts name  | Check points  |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
|---|---|-----------------------------------|---------------|---------------|---------------|-----------------|---------------|--------------|-------------------------|-------------|---------------|-----------|-------|-------|---------------|--------|-------|
| Room temperature thermistor (TH21)<br>Liquid pipe thermistor (TH22)<br>Gas pipe thermistor (TH23)             | Disconnect the connector then measure the resistance using a tester.<br>(Surrounding temperature 10°C ~30°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>4.3kΩ~9.6kΩ</td> <td>Open or short</td> </tr> </table> Refer to the next page for the details.   | Normal                            | Abnormal      | 4.3kΩ~9.6kΩ   | Open or short |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Normal  | Abnormal  |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| 4.3kΩ~9.6kΩ   | Open or short   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Vane motor<br>               | Measure the resistance between the terminals using a tester.<br>(Surrounding temperature 20°C ~30°C) <table border="1" style="margin-left: 20px;"> <tr> <th>Connector</th> <th>Normal</th> <th>Abnormal</th> </tr> <tr> <td>Red — Yellow</td> <td rowspan="4" style="text-align: center;">300Ω</td> <td rowspan="4" style="text-align: center;">Open or short</td> </tr> <tr> <td>Red — Blue</td> </tr> <tr> <td>Red — Orange</td> </tr> <tr> <td>Red — White</td> </tr> </table>   | Connector                         | Normal        | Abnormal      | Red — Yellow  | 300Ω            | Open or short | Red — Blue   | Red — Orange            | Red — White |               |           |       |       |               |        |       |
| Connector   | Normal  | Abnormal                          |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Red — Yellow  | 300Ω  | Open or short                     |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Red — Blue  |   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Red — Orange  |   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Red — White   |   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Fan motor<br>              | Measure the resistance between the terminals using a tester. <table border="1" style="margin-left: 20px;"> <tr> <th rowspan="2">Motor terminal or Relay connector</th> <th colspan="2">Normal</th> <th rowspan="2">Abnormal</th> </tr> <tr> <th colspan="2">PLFY-P·VAM-E.UK</th> </tr> <tr> <td></td> <td>P32, P40, P50, P63, P80</td> <td>P100, P125</td> <td rowspan="3" style="text-align: center;">Open or short</td> </tr> <tr> <td>Red-Black</td> <td style="text-align: center;">87.2Ω</td> <td style="text-align: center;">28.7Ω</td> </tr> <tr> <td>White-Black</td> <td style="text-align: center;">104.1Ω</td> <td style="text-align: center;">41.6Ω</td> </tr> </table> | Motor terminal or Relay connector | Normal        |               | Abnormal      | PLFY-P·VAM-E.UK |               |              | P32, P40, P50, P63, P80 | P100, P125  | Open or short | Red-Black | 87.2Ω | 28.7Ω | White-Black   | 104.1Ω | 41.6Ω |
| Motor terminal or Relay connector   | Normal  |                                   | Abnormal      |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
|   | PLFY-P·VAM-E.UK   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
|   | P32, P40, P50, P63, P80   | P100, P125                        | Open or short |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Red-Black   | 87.2Ω   | 28.7Ω                             |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| White-Black   | 104.1Ω  | 41.6Ω                             |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Linear expansion valve<br> | Disconnect the connector then measure the resistance valve using a tester. <table border="1" style="margin-left: 20px;"> <tr> <th colspan="4">Normal</th> <th rowspan="2">Abnormal</th> </tr> <tr> <td>White-Red</td> <td>Yellow-Brown</td> <td>Orange-Red</td> <td>Blue-Brown</td> </tr> <tr> <td colspan="4" style="text-align: center;">150kΩ ±10%</td> <td style="text-align: center;">Open or short</td> </tr> </table> Refer to the next page for the details.  | Normal                            |               |               |               | Abnormal        | White-Red     | Yellow-Brown | Orange-Red              | Blue-Brown  | 150kΩ ±10%    |           |       |       | Open or short |        |       |
| Normal  |   |                                   |               | Abnormal      |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| White-Red   | Yellow-Brown  | Orange-Red                        | Blue-Brown    |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| 150kΩ ±10%  |   |                                   |               | Open or short |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Drain pump<br>             | Measure the resistance between the terminals using a tester.<br>(Surrounding temperature 20°C ~30°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td style="text-align: center;">290Ω</td> <td style="text-align: center;">Open or short</td> </tr> </table>  | Normal                            | Abnormal      | 290Ω          | Open or short |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Normal  | Abnormal  |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| 290Ω  | Open or short   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Drain sensor<br>           | Measure the resistance after 3 minutes have passed since the power supply was intercepted.<br>(Surrounding temperature 0°C ~60°C) <table border="1" style="margin-left: 20px;"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td style="text-align: center;">0.6kΩ~6.0kΩ</td> <td style="text-align: center;">Open or short</td> </tr> </table> Refer to the next page for the details.  | Normal                            | Abnormal      | 0.6kΩ~6.0kΩ   | Open or short |                 |               |              |                         |             |               |           |       |       |               |        |       |
| Normal  | Abnormal  |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |
| 0.6kΩ~6.0kΩ   | Open or short   |                                   |               |               |               |                 |               |              |                         |             |               |           |       |       |               |        |       |

<Thermistor characteristic graph>

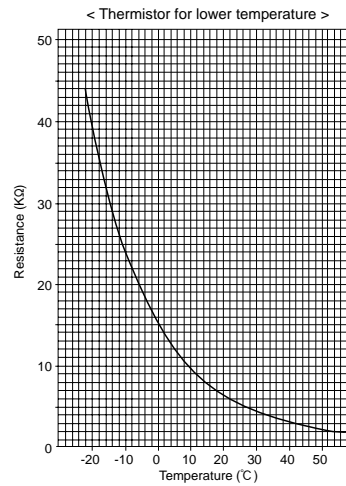
Thermistor for lower temperature

Room temperature thermistor (TH21)  
Liquid pipe temperature thermistor (TH22)  
Gas pipe temperature thermistor (TH23)

Thermistor  $R_0=15k\Omega \pm 3\%$   
Fixed number of  $B=3480K \pm 2\%$

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

|      |       |
|------|-------|
| 0°C  | 15kΩ  |
| 10°C | 9.6kΩ |
| 20°C | 6.3kΩ |
| 25°C | 5.4kΩ |
| 30°C | 4.3kΩ |
| 40°C | 3.0kΩ |

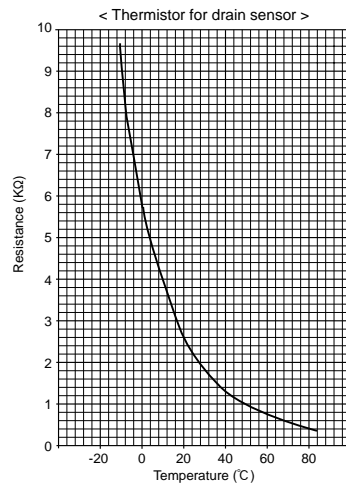


Thermistor for drain sensor

Thermistor  $R_0=6.0k\Omega \pm 5\%$   
Fixed number of  $B=3390K \pm 2\%$

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

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

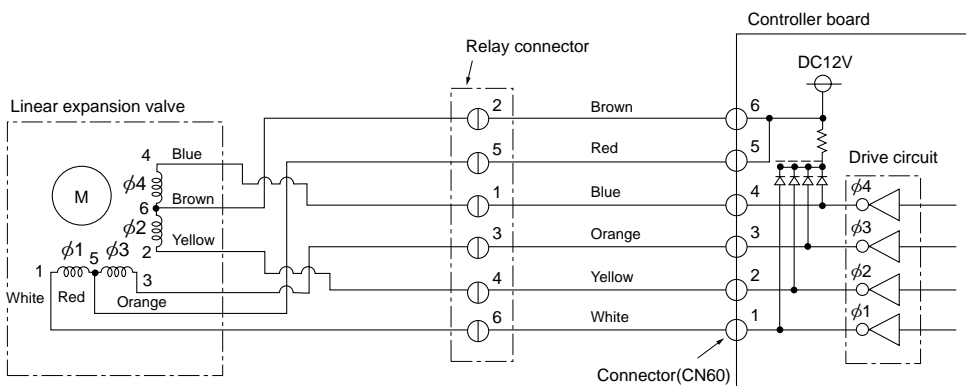


Linear expansion valve

① Operation summary of the linear expansion valve.

- Linear expansion valves open/close through the use of a stepping motor after receiving the pulse signal from the indoor controller board.
- Valve position can be changed in proportion to the number of pulse signals.

<Connection between the indoor controller board and the linear expansion valve>



Note : Since the number of the connector at the controller board side and the relay connector are different, follow the color of the lead wire.

**<Output pulse signal and the valve operation>**

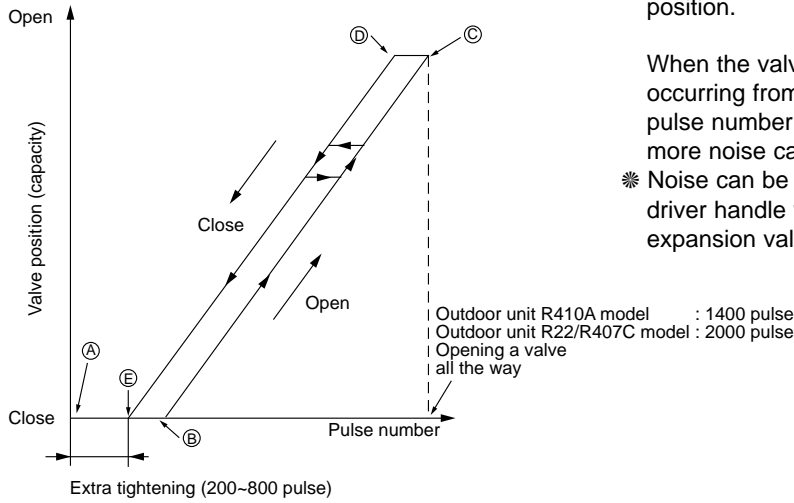
| Output (Phase) | Output |     |     |     |
|----------------|--------|-----|-----|-----|
|                | 1      | 2   | 3   | 4   |
| φ1             | ON     | OFF | OFF | ON  |
| φ2             | ON     | ON  | OFF | OFF |
| φ3             | OFF    | ON  | ON  | OFF |
| φ4             | OFF    | OFF | ON  | ON  |

Closing a valve : 1 → 2 → 3 → 4 → 1  
 Opening a valve : 4 → 3 → 2 → 1 → 4

The output pulse shifts in above order.

- ※ 1. When linear expansion valve operation stops, all output phase become OFF.
- 2. At phase interruption or when phase does not shift in order, motor does not rotate smoothly and motor will locks and vibrates.

**② Linear expansion valve operation**



- ※ When the switch is turned on, 2200 pulse closing valve signal will be send till it goes to point ㉞ in order to define the valve position.


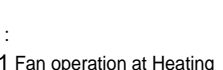

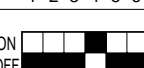



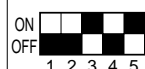

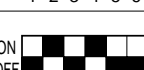

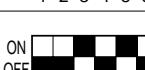

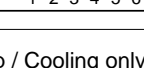

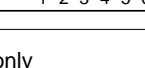

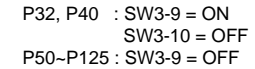
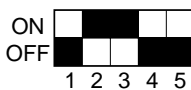
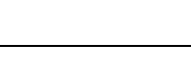
When the valve moves smoothly, there is no noise or vibration occurring from the linear expansion valves : however, when the pulse number moves from ㉞ to ㉞ or when the valve is locked, more noise can be heard than in a normal situation.

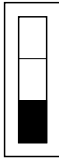
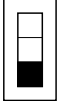

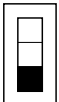

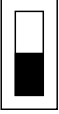






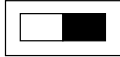

- ※ Noise can be detected by placing the ear against the screw driver handle while putting the screw driver tip to the linear expansion valve.

**③ Trouble shooting**

| Symptom  | Check points   | Countermeasures   |
|--|--|---|
| Operation circuit failure of the micro processor.                  | Disconnect the connector on the controller board, then connect LED for checking.<br><br>1kΩ LED<br>When power is turned on, pulse signals will output for 10 seconds. There must be some defects in the operation circuit if the LED does not light while the signals are output or keeps lighting even after the signals stop.  | Exchange the indoor controller board at drive circuit failure.                |
| Linear expansion valve mechanism is locked.                        | Motor will idle and make a ticking noise when the motor is operated while the linear expansion valve is locked. This ticking sound is the sign of the abnormality.   | Exchange the linear expansion vale.   |
| Short or breakage of the motor coil of the linear expansion valve. | Measure the resistance between each coil (white-red, yellow-brown, orange-red, blue-brown) using a tester. It is normal if the resistance is in the range of 150Ω ±10%.  | Exchange the linear expansion valve.  |
| Valve doesn't close completely.                                    | To check the linear expansion valve, operate the indoor unit in fan mode and at the same time operate other indoor units in cooling mode, then check the pipe temperature <liquid pipe temperature> of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expansion valve is closed completely and if there is any leaking, detecting temperature of the thermistor will go lower. If the detected temperature is much lower than the temperature indicated in the remote controller, it means the valve is not closed all the way. It is not necessary to exchange the linear expansion valve, if the leakage is small and not affecting normal operation.<br> | If large amount of thermistor is leaked, exchange the linear expansion valve. |
| Wrong connection of the connector or contact failure.              | Check the color of lead wire and missing terminal of the connector.  | Disconnect the connector at the controller board, then check the continuity.  |

## 8-2. FUNCTION OF DIP SWITCH

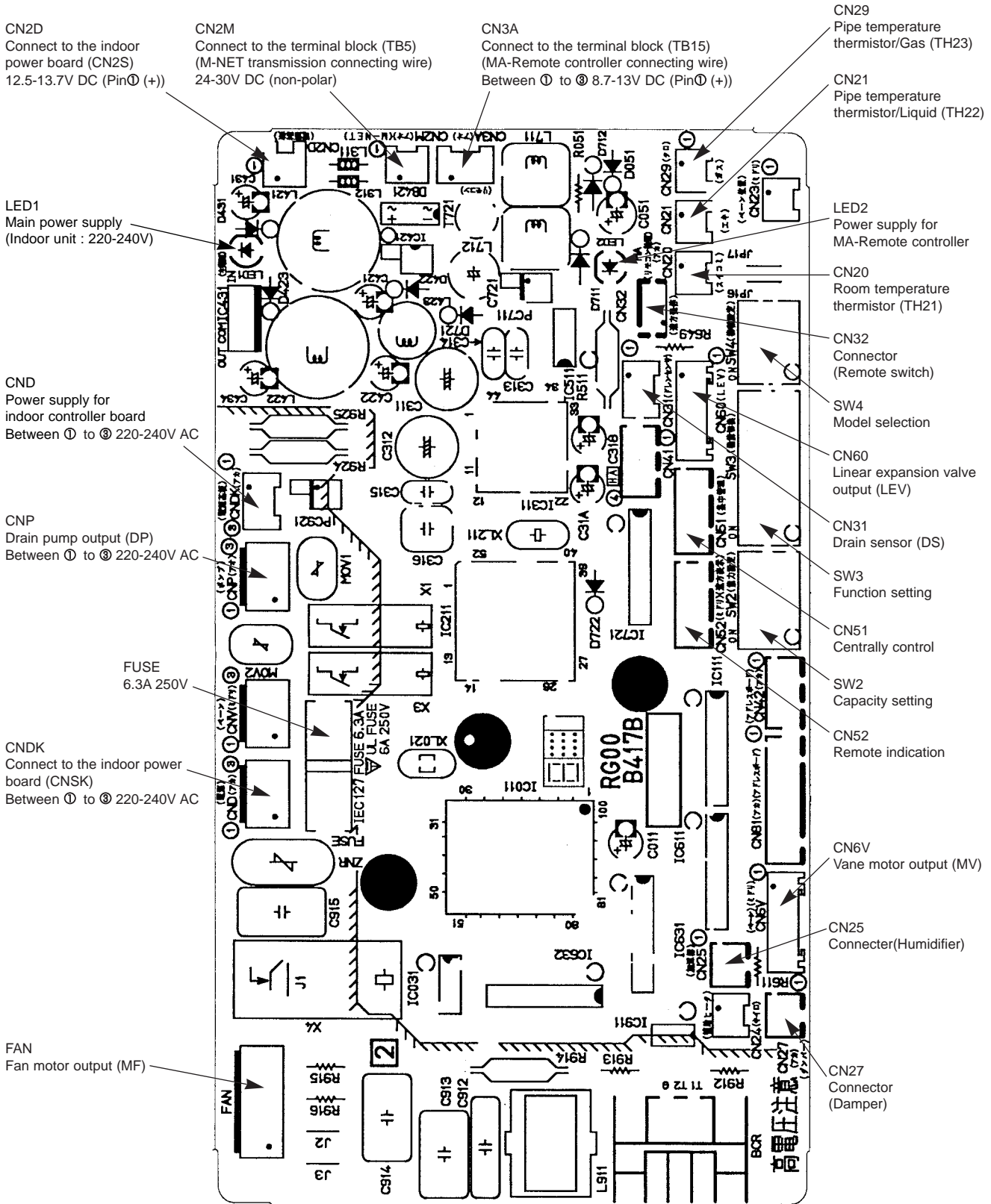
| Switch   | Pole | Function   | Operation by switch  |                                      | Effective timing   | Remarks  |   |      |   |
|--|------|--|--|--------------------------------------|--|--|---|------|---|
|  |      |  | ON   | OFF                                  |  |  |   |      |   |
| SW1<br>Function setting                          | 1    | Thermistor <Room temperature detection> position   | Built-in remote controller   | Indoor unit                          | Under suspension   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Address board</div><br><At delivery><br>ON <br>OFF <br>1 2 3 4 5 6 7 8 9 10<br>Note :<br>*1 Fan operation at Heating mode.<br>*2 Heater thermostat ON is operating.<br>*3 SW 1-7=OFF, SW 1-8=ON<br>→ Setting air flow.<br>SW 1-7=ON, SW 1-8=ON<br>→ Indoor fan stop.  |   |      |   |
|  | 2    | Filter clogging detection  | Provided   | Not provided                         |  |  |   |      |   |
|  | 3    | Filter cleaning  | 2,500hr  | 100hr                                |  |  |   |      |   |
|  | 4    | Fresh air intake   | Effective  | Not effective                        |  |  |   |      |   |
|  | 5    | Switching remote controller display  | Indicating if the thermostat is ON   | Indicating fan operation ON/OFF      |  |  |   |      |   |
|  | 6    | Humidifier control   | Always operated while the heat in ON *1  | Operated depends on the condition *2 |  |  |   |      |   |
|  | 7    | Air flow set in case of Heat thermostat OFF  | Low *3   | Extra low *3                         |  |  |   |      |   |
|  | 8    | Heat thermostat OFF  | Setting air flow *3  | Depends on SW1-7                     |  |  |   |      |   |
|  | 9    | Auto restart function  | Effective  | Not effective                        |  |  |   |      |   |
|  | 10   | Power ON/OFF by breaker  | Effective  | Not effective                        |  |  |   |      |   |
| SW2<br>Capacity code setting                     | 1~6  | Capacity   | SW 2   | Capacity                             | SW 2   | Before power supply ON   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Indoor controller board</div><br>Set while the unit is off.<br><At delivery><br>Set for each capacity. |      |   |
|  |      | P32  | ON <br>OFF <br>1 2 3 4 5 6    | P63                                  | ON <br>OFF <br>1 2 3 4 5 6    |  |   | P125 | ON <br>OFF <br>1 2 3 4 5 6 |
|  |      | P40  | ON <br>OFF <br>1 2 3 4 5 6  | P80                                  | ON <br>OFF <br>1 2 3 4 5 6  |  |   |      |   |
|  |      | P50  | ON <br>OFF <br>1 2 3 4 5 6 | P100                                 | ON <br>OFF <br>1 2 3 4 5 6 |  |   |      |   |
| SW3<br>Function setting                          | 1    | Heat pump / Cooling only   | Cooling only   | Heat pump                            | Under suspension   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Indoor controller board</div><br>Set while the unit is off.<br><At delivery><br>ON <br>OFF <br>1 2 3 4 5 6 7 8 9 10<br>Note :<br>*4 At cooling mode, each angle can be used only 1 hour.<br>*5 The numerical valve in the parentheses shows the case which the R22 outdoor unit is connected.<br>*6 SW3-2 setting<br>Only for PLFY-P•VAM, SW is used to change whether the humidifier functions or not. (Fixed the louver function less.) |   |      |   |
|  | 2    | Louver / humidifier *6   | Available  | Not available                        |  |  |   |      |   |
|  | 3    | Vane   | Available  | Not available                        |  |  |   |      |   |
|  | 4    | Vane swing function  | Available  | Not available                        |  |  |   |      |   |
|  | 5    | Vane horizontal angle  | Second setting   | First setting                        |  |  |   |      |   |
|  | 6    | Vane cooling limit angle setting *4  | Horizontal angle   | Down B, C                            |  |  |   |      |   |
|  | 7    | Changing the opening of linear expansion valve when the thermostat is OFF  | Effective  | Not effective                        |  |  |   |      |   |
|  | 8    | Heat 4degrees up   | Not effective  | Effective                            |  |  |   |      |   |
|  | 9    | Superheat setting temperature *5   | 9(5)degrees  | 6(2)degrees                          |  |  |   |      |   |
|  | 10   | Sub cool setting temperature   | 15degrees  | 10degrees                            |  |  |   |      |   |
| SW4<br>Model Selection (Setting for PLFY series) | 1~5  | In case replacing the indoor controller board, make sure to set the switch to the factory-preset status, which is shown below.   |  |                                      | Before power supply ON   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Indoor controller board</div>   |   |      |   |
|  |      | ON <br>OFF <br>1 2 3 4 5 |  |                                      |  |  |   |      |   |

| Switch   | Pole          | Operation by switch  | Effective timing  | Remarks       |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|--|---------------|--|---|---------------|-----|--|--|---|---|---|-----|----------|----------|---------------|---------------|---------------|------|------|------|---------------|------|------|------|---------------|------|------|---|--|--|
| SWA<br>Ceiling height selector   | 1~3           | <p>* Ceiling height can be changed depends on SWB setting.</p> <p>PLFY-P32,P40,P50,P63,P80VAM-E</p> <table border="1"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="3">SWA</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <th rowspan="3">SWB</th> <th>Standard</th> <td>Standard</td> <td>High ceiling①</td> <td>High ceiling②</td> </tr> <tr> <th>4 4 direction</th> <td>2.7m</td> <td>3.0m</td> <td>3.5m</td> </tr> <tr> <th>3 3 direction</th> <td>3.0m</td> <td>3.3m</td> <td>3.5m</td> </tr> <tr> <th>2 2 direction</th> <td>3.3m</td> <td>3.5m</td> <td>—</td> </tr> </tbody> </table>  |   |               | SWA |  |  | 1 | 2 | 3 | SWB | Standard | Standard | High ceiling① | High ceiling② | 4 4 direction | 2.7m | 3.0m | 3.5m | 3 3 direction | 3.0m | 3.3m | 3.5m | 2 2 direction | 3.3m | 3.5m | — | Under operation or suspension  | <div style="border: 1px solid black; padding: 2px;">Address board</div> <p>&lt;At delivery&gt;</p>  |
|  |               | SWA  |   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|  |               | 1  | 2   | 3             |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SWB  | Standard      | Standard   | High ceiling①   | High ceiling② |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|  | 4 4 direction | 2.7m   | 3.0m  | 3.5m          |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|  | 3 3 direction | 3.0m   | 3.3m  | 3.5m          |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| 2 2 direction  | 3.3m          | 3.5m   | —   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SWB<br>Discharge outlet number selector                                | 3             | <p>PLFY-P100, P125VAM-E</p> <table border="1"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="3">SWA</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <th rowspan="3">SWB</th> <th>Standard</th> <td>Standard</td> <td>High ceiling①</td> <td>High ceiling②</td> </tr> <tr> <th>4 4 direction</th> <td>3.2m</td> <td>3.6m</td> <td>4.2m</td> </tr> <tr> <th>3 3 direction</th> <td>3.6m</td> <td>4.0m</td> <td>4.2m</td> </tr> <tr> <th>2 2 direction</th> <td>4.0m</td> <td>4.2m</td> <td>—</td> </tr> </tbody> </table>    |   |               | SWA |  |  | 1 | 2 | 3 | SWB | Standard | Standard | High ceiling① | High ceiling② | 4 4 direction | 3.2m | 3.6m | 4.2m | 3 3 direction | 3.6m | 4.0m | 4.2m | 2 2 direction | 4.0m | 4.2m | — | <div style="border: 1px solid black; padding: 2px;">Address board</div> <p>&lt;At delivery&gt;</p>  |  |
|  |               | SWA  |   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|  |               | 1  | 2   | 3             |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SWB  | Standard      | Standard   | High ceiling①   | High ceiling② |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|  | 4 4 direction | 3.2m   | 3.6m  | 4.2m          |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
|  | 3 3 direction | 3.6m   | 4.0m  | 4.2m          |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| 2 2 direction  | 4.0m          | 4.2m   | —   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SWC<br>Option selector   | 2             | <p>Option</p>  <p>Standard</p> <p>When attach the optional high performance filter elements (multi function casement) to the unit, be sure to attach it to the option side in order to prevent the airflow reducing.</p>  | <div style="border: 1px solid black; padding: 2px;">Address board</div> <p>&lt;At delivery&gt;</p> <p>Option</p>  <p>Standard</p>  |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SW11<br>1st digit address setting<br>SW12<br>2nd digit address setting | Rotary switch |   <p>Address setting should be done when M-NET Remote controller is being used.</p>  | <div style="border: 1px solid black; padding: 2px;">Address board</div> <p>Address can be set while the unit is stopped.</p> <p>&lt;At delivery&gt;</p>   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SW14<br>Connection No. setting   | Rotary switch |  <p>This is the switch to be used when the indoor unit is operated with R2 series outdoor unit as a set.</p>  | <div style="border: 1px solid black; padding: 2px;">Address board</div> <p>&lt;At delivery&gt;</p>   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |
| SW5<br>Voltage Selection   | 2             | <p>220V      240V</p>  <p>If the unit is used at the 230V or 240V area, set the voltage to 240V.<br/>If the unit is used at the 220V, set the voltage to 220V.</p>  | <div style="border: 1px solid black; padding: 2px;">Address board</div> <p>&lt;At delivery&gt;</p> <p>220V      240V</p>   |               |     |  |  |   |   |   |     |          |          |               |               |               |      |      |      |               |      |      |      |               |      |      |   |  |  |

### 8-3. TEST POINT DIAGRAM

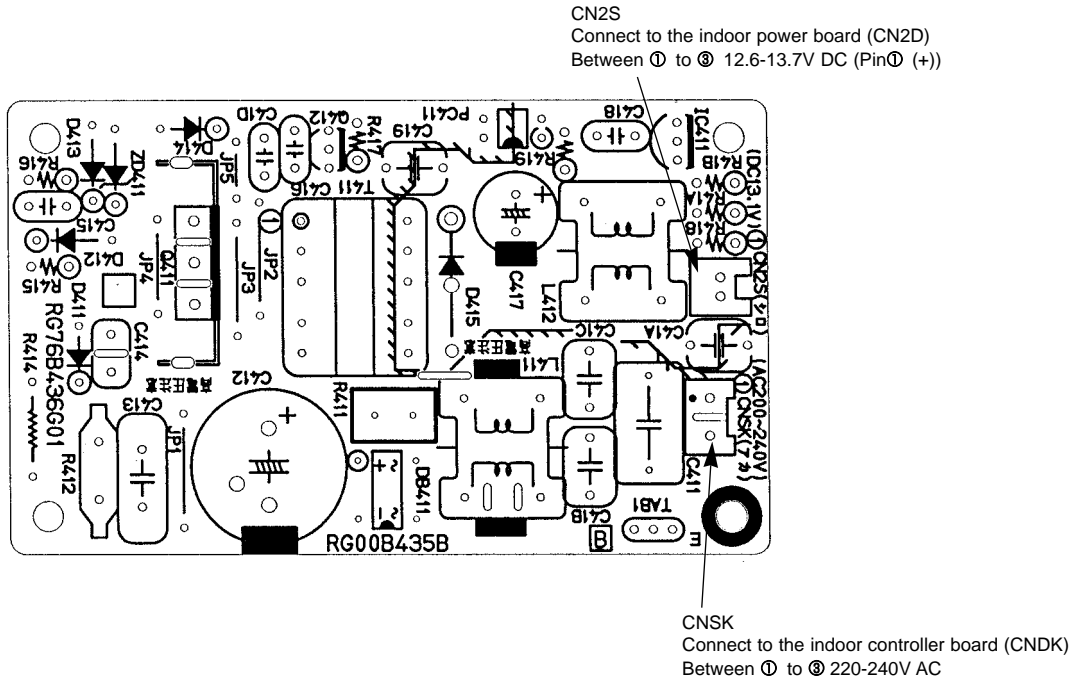
#### 8-3-1. Indoor controller board

- PLFY-P32VAM-E.UK      PLYF-P80VAM-E.UK
- PLFY-P40VAM-E.UK      PLYF-P100VAM-E.UK
- PLFY-P50VAM-E.UK      PLYF-P125VAM-E.UK
- PLFY-P63VAM-E.UK



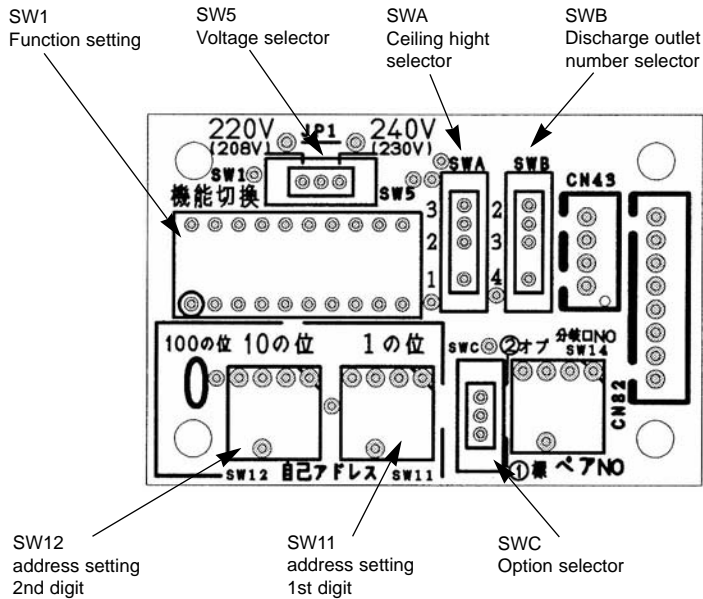
8-3-2. Indoor power board

- |                  |                   |
|------------------|-------------------|
| PLFY-P32VAM-E.UK | PLFY-P80VAM-E.UK  |
| PLFY-P40VAM-E.UK | PLFY-P100VAM-E.UK |
| PLFY-P50VAM-E.UK | PLFY-P125VAM-E.UK |
| PLFY-P63VAM-E.UK |                   |



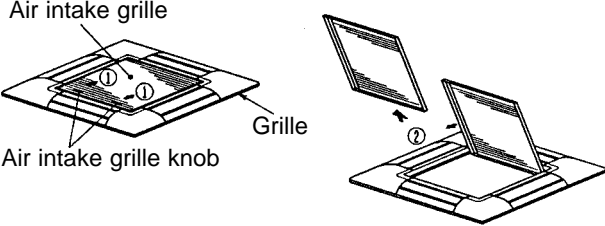
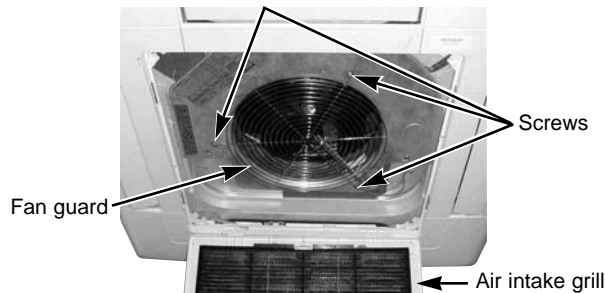
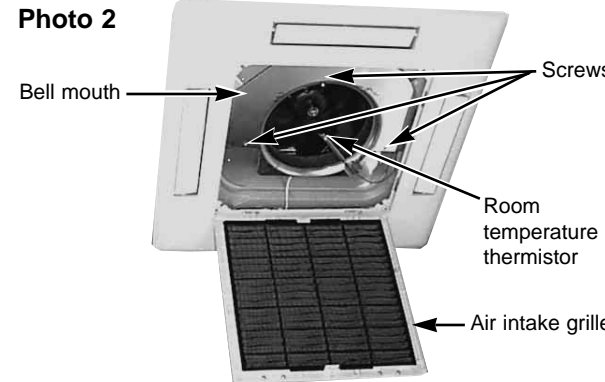
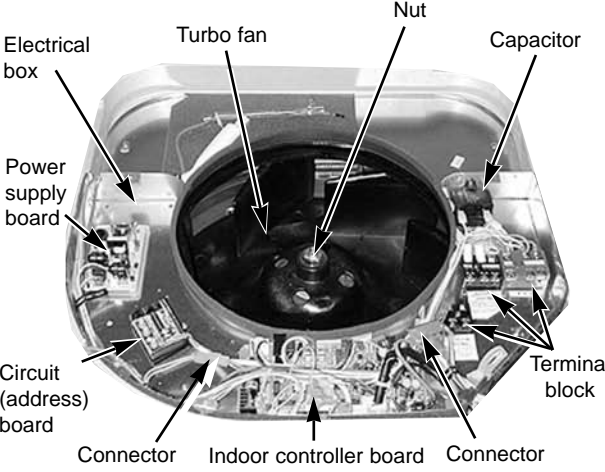
8-3-3. Circuit board

- |                  |                   |
|------------------|-------------------|
| PLFY-P32VAM-E.UK | PLFY-P80VAM-E.UK  |
| PLFY-P40VAM-E.UK | PLFY-P100VAM-E.UK |
| PLFY-P50VAM-E.UK | PLFY-P125VAM-E.UK |
| PLFY-P63VAM-E.UK |                   |



PLFY-P80VAM-E.UK

Be careful on removing heavy parts.

| OPERATING PROCEDURE  | PHOTOS&ILLUSTRATIONS   |
|--|--|
| <p><b>1. Removing the air intake grille</b></p> <p>(1) Slide the knob of air intake grille to the direction of the arrow ① to open the air intake grille.</p> <p>(2) Remove the string hook from the panel to prevent the grille from dropping.</p> <p>(3) Slide the shaft in the hinge to the direction of the arrow ② and remove the air intake grille.</p>  | <p><b>Figure 1</b></p>  <p>Air intake grille knob</p> <p>Air intake grille</p> <p>Grille</p>   |
| <p><b>2. Removing the fan guard</b></p> <p>(1) Open the air intake grille.</p> <p>(2) Remove the 3 screws of fan guard.</p>  | <p><b>Photo 1</b></p>  <p>Fan guard</p> <p>Screws</p> <p>Air intake grille</p>  |
| <p><b>3. Removing the room temperature thermistor</b></p> <p>(1) Remove the fan guard. (See photo 1)</p> <p>(2) Remove the screw (X1) in the room temperature thermistor holder to remove the holder and the room temperature thermistor.</p> <p>(3) Remove the 1 screw from the bell mouth, and unscrew the another 2 screws (fixed to the oval hole which has different diameter) to remove the bell mouth.</p> <p>(4) Hold the holder claw, and remove the room temperature thermistor and holder.</p> <p>(5) Disconnect the connector (red) in the indoor control board.</p>   | <p><b>Photo 2</b></p>  <p>Bell mouth</p> <p>Screws</p> <p>Room temperature thermistor</p> <p>Air intake grille</p>   |
| <p><b>4. Removing the electrical box</b></p> <p>(1) Remove the fan guard. (See photo 1)</p> <p>(2) Remove the lead wire of the vane motor from the clamp, and disconnect the white connector (10P).</p> <p>(3) Remove the room temperature thermistor with the holder.</p> <p>(4) Remove the bell mouth. (See photo 2)</p> <p>(5) Disconnect the relay connector in the electrical box.</p> <p>Red (3P) for fan motor power supply<br/>White (2P) for pipe temperature detection / liquid thermistor<br/>Black (2P) for pipe temperature detection / gas thermistor<br/>Blue (2P) for drain pump<br/>White (3P) for drain sensor</p> <p>(6) Remove the 3 screws from the electrical box, loosen another 2 screws to remove the box.</p> <p>&lt;Electrical parts in the electrical box&gt;</p> <p>Indoor controller board<br/>power supply board<br/>Terminal block (Power supply)<br/>Terminal block (Transmission)<br/>Terminal block (MA remote controller)<br/>Capacitor<br/>Circuit(address) board</p> | <p><b>Photo 3</b></p>  <p>Electrical box</p> <p>Turbo fan</p> <p>Nut</p> <p>Capacitor</p> <p>Power supply board</p> <p>Circuit (address) board</p> <p>Connector</p> <p>Indoor controller board</p> <p>Terminal block</p> |

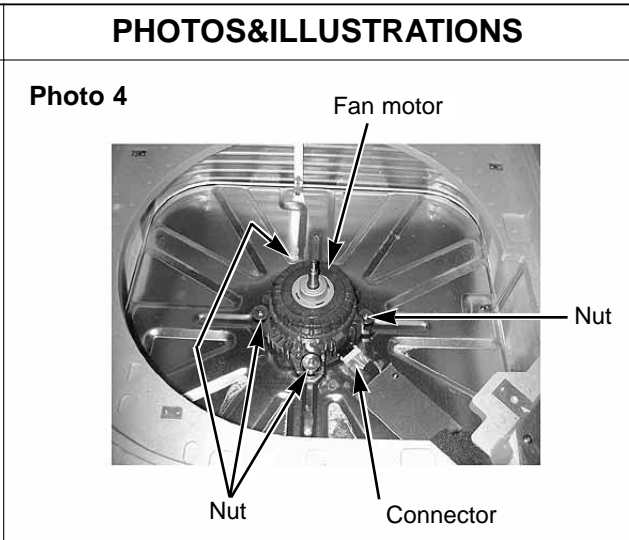




**OPERATING PROCEDURE**

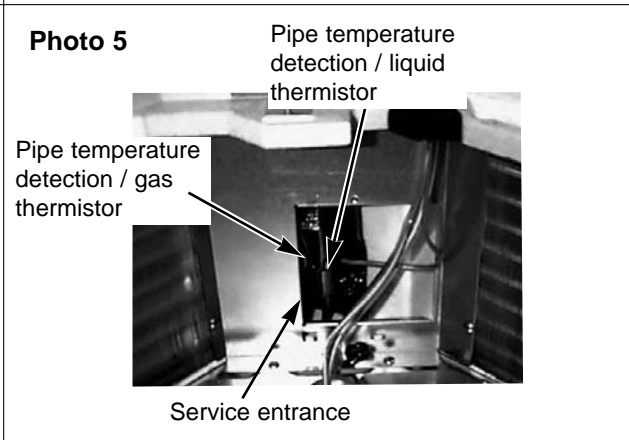
**5. Removing the fan motor**

- (1) Remove the fan guard.(See photo 1)
- (2) Remove the bell mouth.(See photo 2)
- (3) Remove the electrical box.(See photo 3)
- (4) Remove the turbo fan nut, washer and radiation cap(P100, P125).
- (5) Pull out the turbo fan.
- (6) Disconnect the connector of the fan motor lead wire.
- (7) Remove the 4 nuts of the fan motor.



**6. Removing the pipe temperature detection / liquid thermistor and the pipe temperature detection / gas thermistor**

- (1) Remove the fan guard.(See photo 1)
- (2) Remove the bell mouth.(See photo 2)
- (3) Remove the electrical box.(See photo 3)
- (4) Remove the turbo fan.
- (5) Remove the screw of the service panel.
- (6) Remove the service panel.
- (7) Remove the pipe temperature detection / liquid thermistor and the pipe temperature detection / gas thermistor which are inserted into the holder installed to the thin copper pipe.
- (8) Disconnect the each 2-pin white(liquid) and black(gas) connector.



**7. Removing the panel**

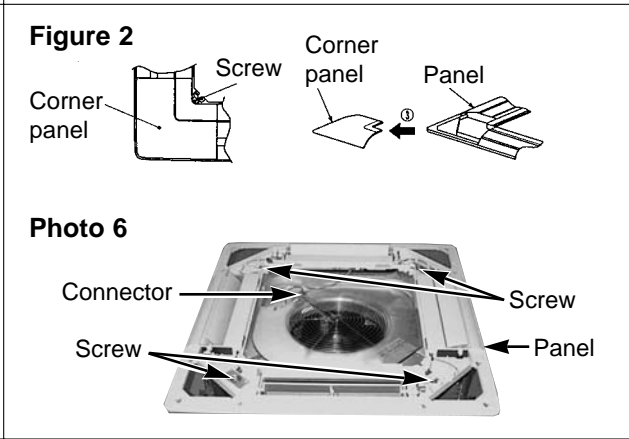
(1) Remove the air intake grille.(See figure 1)

**Corner panel (See figure 2)**

- (1) Remove the screw of the corner.
- (2) Slide the corner panel to the direction of the arrow ③, and remove the corner panel.

**Panel (See photo 6)**

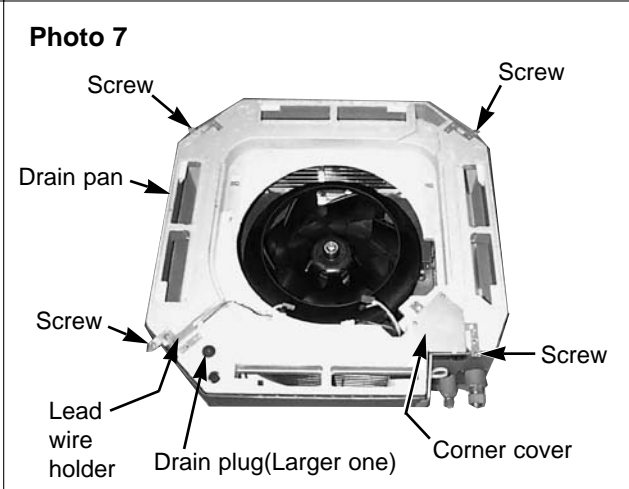
- (1) Disconnect the connector that connects with the unit.
- (2) Remove the 2 screws from the panel and loose another 2 screws, which fixed to the oval hole, have different diameter.
- (3) Rotate the panel a little to remove the panel. (Slide the panel so that the screw comes to a large diameter of the oval hole, which has two different diameters.)



**8. Removing the drain pan**

- (1) Remove the panel. (See photo 6)
- (2) Remove the drain plug (Larger one), drain the remaining water in the drain pan.
- (3) Remove the corner cover. (2 screws)
- (4) Remove the bell mouth. (See photo 2)
- (5) Remove the electrical box. (See photo 3)
- (6) Remove the lead wire holder. (1 screw)
- (7) Remove the 4 screws and pull out the drain pan.

\* Pull out the left and right of the pan gradually.  
Be careful not to crack or damage the pan.



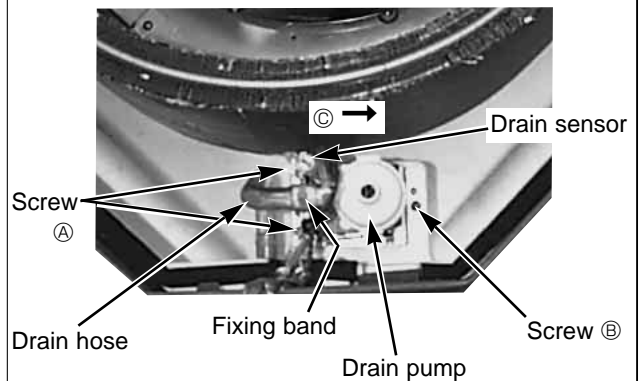
## OPERATING PROCEDURE

### 9. Removing the drain pump and drain sensor

- (1) Remove the panel. (See photo 6)
- (2) Remove the fan guard. (See photo 1)
- (3) Remove the bell mouth. (See photo 2)
- (4) Remove the electrical box. (See photo 3)
- (5) Remove the drain pan. (See photo 7)
- (6) Cut the drain hose band with scissors and pull out the drain hose from the drain pump.
- (7) Loosen the screw ① (2 screws) and remove the screw ② (1 screw). Slide the drain pump in the direction of the arrow ③ and remove it.
- (8) Remove the drain sensor with its holder from the drain pump.

## PHOTOS&ILLUSTRATIONS

Photo 8



### 10. Removing the heat exchanger

- (1) Remove the panel. (See photo 6)
- (2) Remove the fan guard. (See photo 1)
- (3) Remove the bell mouth. (See photo 2)
- (4) Remove the electrical box. (See photo 3)
- (5) Remove the drain pan. (See photo 7)
- (6) Remove the turbo fan. (See photo 4)
- (7) Remove the 3 screws of the piping cover, and pull out piping cover.
- (8) Remove the 4 screws of the outer wall cover, and pull out the outer wall cover.
- (9) Remove the screw of the coil support.
- (10) Remove the 2 screws of the coil.
- (11) Pull out the heat exchanger.

Photo 9

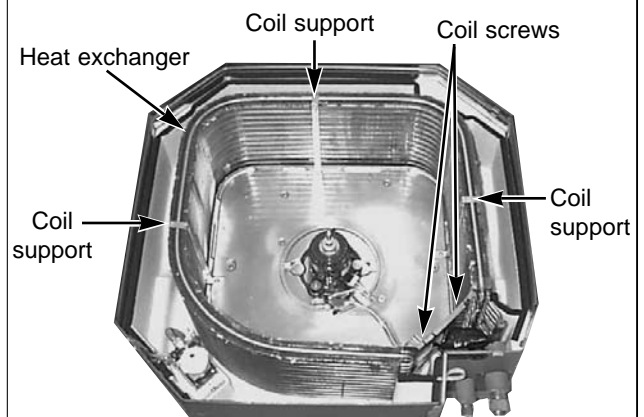
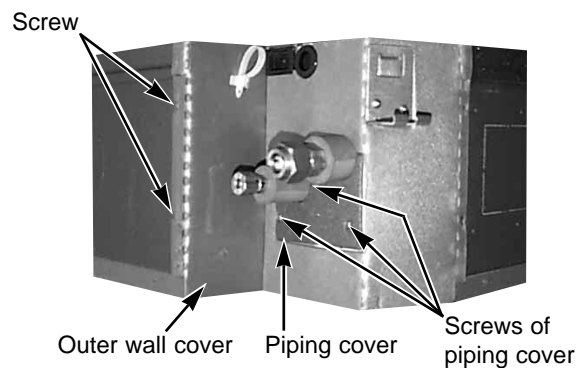


Photo 10



## PANEL PARTS

PLFY-P32VAM-E.UK

PLFY-P40VAM-E.UK

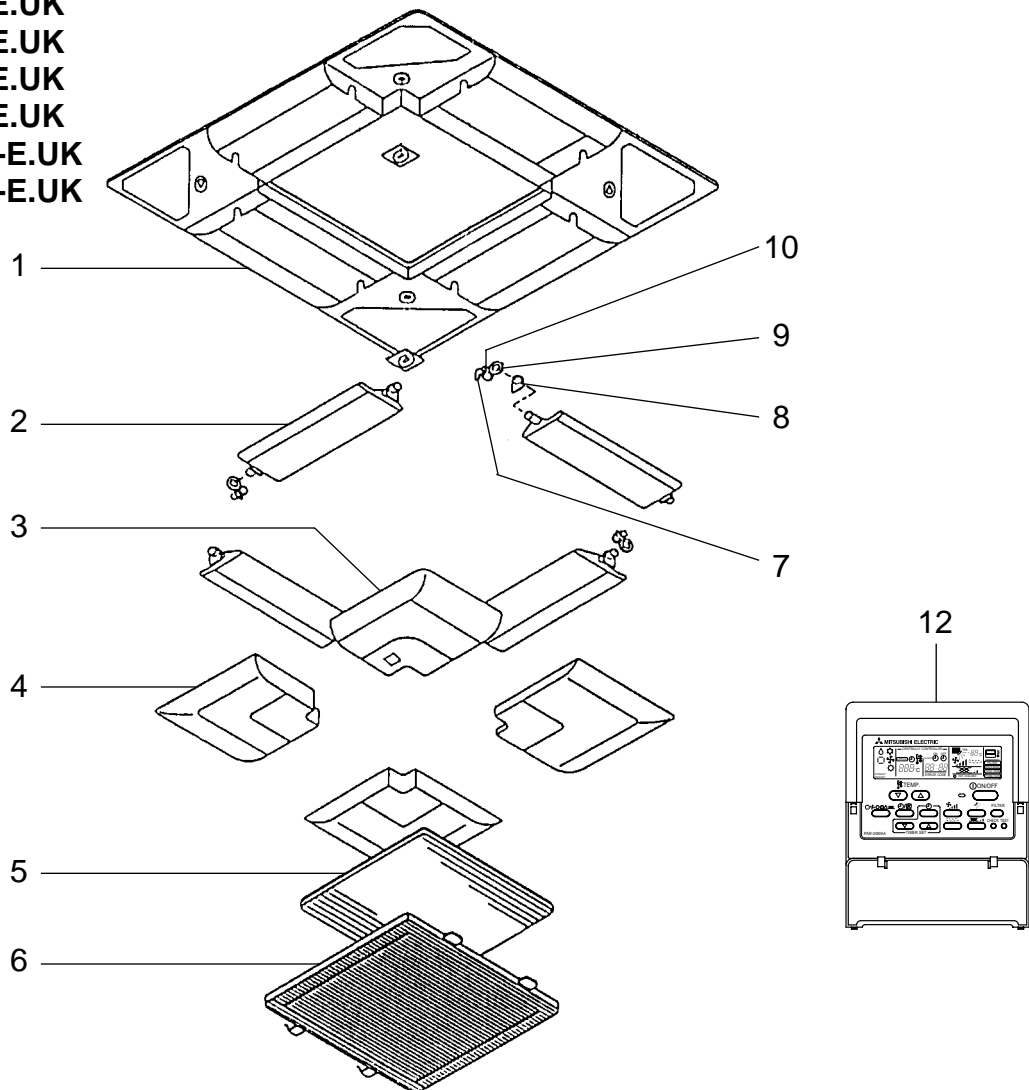
PLFY-P50VAM-E.UK

PLFY-P63VAM-E.UK

PLFY-P80VAM-E.UK

PLFY-P100VAM-E.UK

PLFY-P125VAM-E.UK



Part number 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 |        |
|-----|-------------|-------------------|---------------|--|--------------------------|-----------------------------|--------------------------|-------|--------|
|     |             |                   |               | PLFY-<br>P32, P40, P50, P63<br>P80, P100, P125<br>VAM-E.UK |                          |                             |                          | Unit  | Amount |
| 1   | S70 E10 003 | AIR OUTLET GRILLE |               | 1  | Including H2             |                             |                          |       |        |
| 2   | S70 E00 002 | AUTO VANE         |               | 4  |                          |                             |                          |       |        |
| 3   | S70 E01 638 | CORNER PANEL      |               | 1  |                          |                             |                          |       |        |
| 4   | S70 E00 638 | CORNER PANEL      |               | 3  |                          |                             |                          |       |        |
| 5   | S70 E00 500 | L.L. FILTER       |               | 1  |                          |                             |                          |       |        |
| 6   | S70 E00 691 | GRILLE ASSY       |               | 1  |                          |                             |                          |       |        |
| 7   | S70 E00 223 | VANE MOTOR        |               | 4  |                          | MV                          |                          |       |        |
| 8   | S70 E00 063 | VANE BUSH         |               | 8  |                          |                             |                          |       |        |
| 9   | S70 E00 040 | GEAR (VANE)       |               | 4  |                          |                             |                          |       |        |
| 10  | S70 E01 040 | GEAR (MOTOR)      |               | 4  |                          |                             |                          |       |        |
| ⑪   | S70 E01 673 | SCREW ASSY        |               | 1  |                          |                             |                          |       |        |
| 12  | S70 030 713 | REMOTE CONTROLLER | PAR-20MAA     | 1  |                          |                             |                          |       |        |

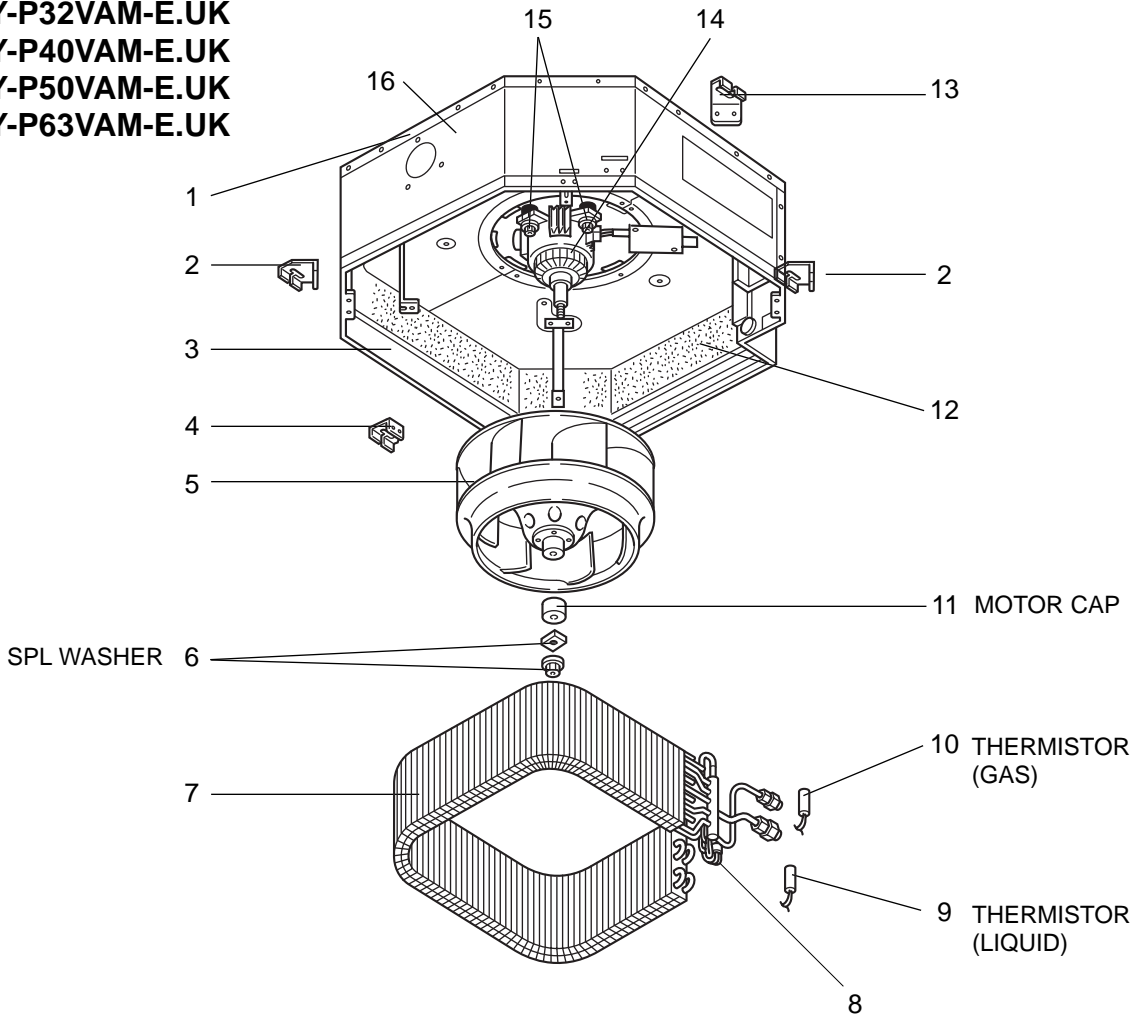
## FUNCTIONAL PARTS

PLFY-P32VAM-E.UK

PLFY-P40VAM-E.UK

PLFY-P50VAM-E.UK

PLFY-P63VAM-E.UK



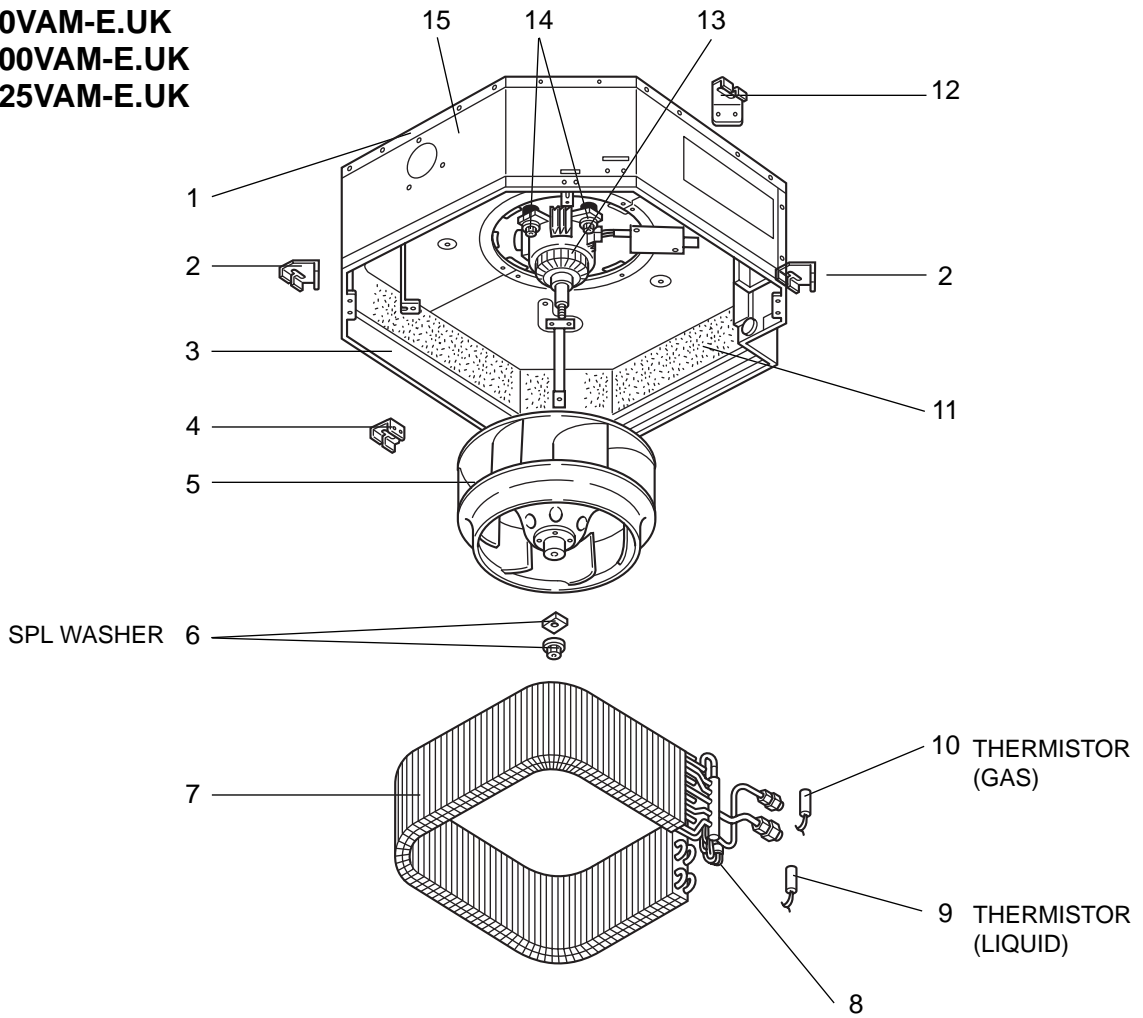
| No. | Parts No.   | Parts Name             | Specifi-<br>cation | Q'ty / set       |     |     |     | Remarks<br>(Drawing<br>No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |
|-----|-------------|------------------------|--------------------|------------------|-----|-----|-----|-----------------------------|-----------------------------|--------------------------|-------|--------|
|     |             |                        |                    | PLFY- . VAM-E.UK |     |     |     |                             |                             |                          | Unit  | Amount |
|     |             |                        |                    | P32              | P40 | P50 | P63 |                             |                             |                          |       |        |
| 1   | S70 003 687 | BASE DWG               |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 2   | S70 E01 130 | LEG                    |                    | 2                | 2   | 2   | 2   |                             |                             |                          |       |        |
| 3   | S70 005 688 | DRUM 1 ASSY            |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 4   | S70 E00 130 | LEG                    |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 5   | S70 E00 114 | TURBO FAN              |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 6   | S70 08K 097 | SPL WASHER             |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 7   | S70 E60 480 | HEAT EXCHANGER         |                    | 1                |     |     |     |                             |                             |                          |       |        |
|     | S70 E61 480 | HEAT EXCHANGER         |                    |                  | 1   |     |     |                             |                             |                          |       |        |
|     | S70 E62 480 | HEAT EXCHANGER         |                    |                  |     | 1   |     |                             |                             |                          |       |        |
|     | S70 E63 480 | HEAT EXCHANGER         |                    |                  |     |     | 1   |                             |                             |                          |       |        |
| 8   | S70 E60 401 | LINEAR EXPANSION VALVE |                    | 1                | 1   | 1   | 1   | LEV                         |                             |                          |       |        |
| 9   | S70 17J 202 | THERMISTOR (LIQUID)    |                    | 1                | 1   | 1   | 1   | TH22                        |                             |                          |       |        |
| 10  | S70 E50 129 | MOTOR CAP              |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 11  | S70 79N 202 | THERMISTOR (GAS)       |                    | 1                | 1   | 1   | 1   | TH23                        |                             |                          |       |        |
| 12  | S70 E00 659 | INNER COVER ASSY       |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 13  | S70 E02 130 | LEG                    |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |
| 14  | S70 E06 762 | FAN MOTOR              | D17B6P70MS         | 1                | 1   | 1   | 1   | MF                          |                             |                          |       |        |
| 15  | S70 A41 105 | MOTOR MOUNT            |                    | 4                | 4   | 4   | 4   |                             |                             |                          |       |        |
| 16  | S70 006 688 | DRUM 2 ASSY            |                    | 1                | 1   | 1   | 1   |                             |                             |                          |       |        |

## FUNCTIONAL PARTS

PLFY-P80VAM-E.UK

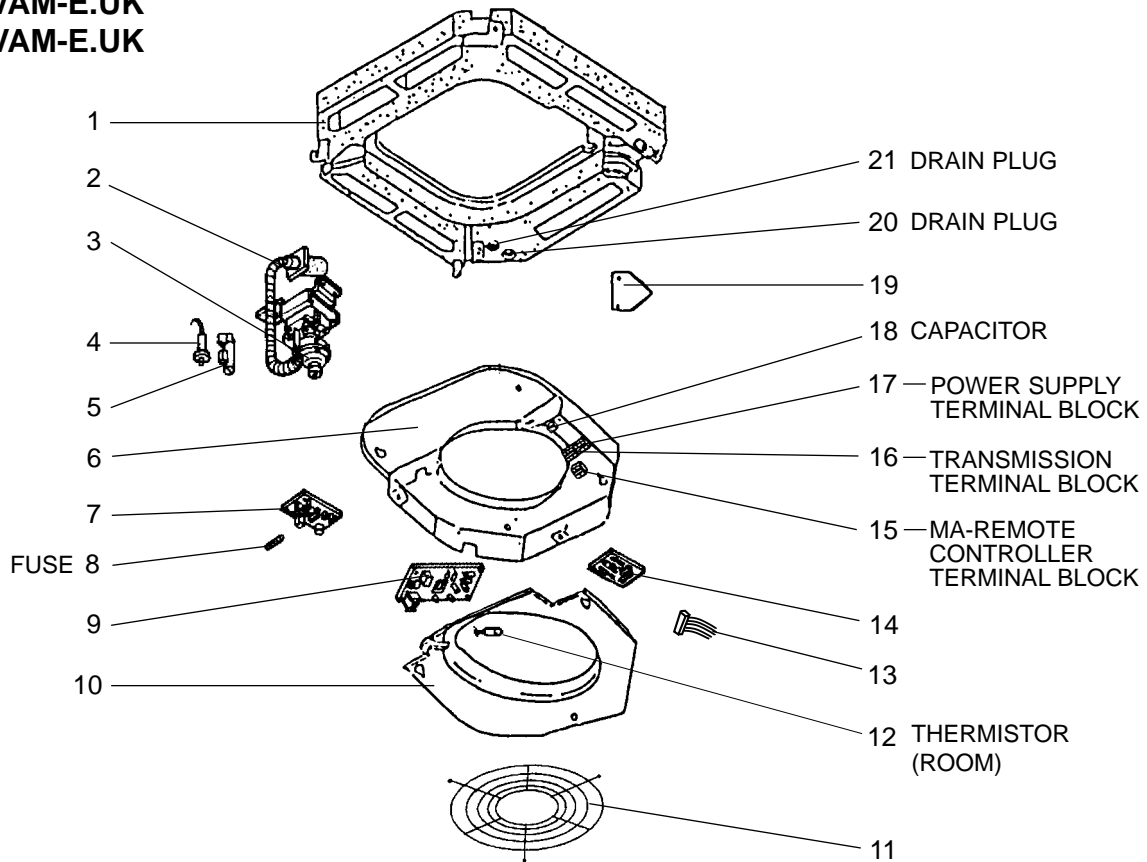
PLFY-P100VAM-E.UK

PLFY-P125VAM-E.UK



| No. | Parts No.   | Parts Name             | Specifi-<br>cation | Q'ty / set      |      |      | Remarks<br>(Drawing<br>No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |
|-----|-------------|------------------------|--------------------|-----------------|------|------|-----------------------------|-----------------------------|--------------------------|-------|--------|
|     |             |                        |                    | PLFY - VAM-E.UK |      |      |                             |                             |                          | Unit  | Amount |
|     |             |                        |                    | P80             | P100 | P120 |                             |                             |                          |       |        |
| 1   | S70 003 687 | BASE DWG               |                    | 1               | 1    | 1    |                             |                             |                          |       |        |
| 2   | S70 E01 130 | LEG                    |                    | 2               | 2    | 2    |                             |                             |                          |       |        |
| 3   | S70 005 688 | DRUM 1 ASSY            |                    | 1               |      |      |                             |                             |                          |       |        |
|     | S70 007 688 | DRUM 1 ASSY            |                    |                 | 1    | 1    |                             |                             |                          |       |        |
| 4   | S70 E00 130 | LEG                    |                    | 1               | 1    | 1    |                             |                             |                          |       |        |
| 5   | S70 E00 114 | TURBO FAN              |                    | 1               |      |      |                             |                             |                          |       |        |
|     | S70 E01 114 | TURBO FAN              |                    |                 | 1    | 1    |                             |                             |                          |       |        |
| 6   | S70 08K 097 | SPL WASHER             |                    | 1               | 1    | 1    |                             |                             |                          |       |        |
| 7   | S70 E64 480 | HEAT EXCHANGER         |                    | 1               |      |      |                             |                             |                          |       |        |
|     | S70 E65 480 | HEAT EXCHANGER         |                    |                 | 1    | 1    |                             |                             |                          |       |        |
| 8   | S70 E70 401 | LINEAR EXPANSION VALVE |                    | 1               | 1    | 1    |                             | LEV                         |                          |       |        |
| 9   | S70 17J 202 | THERMISTOR (LIQUID)    |                    | 1               | 1    | 1    |                             | TH22                        |                          |       |        |
| 10  | S70 79N 202 | THERMISTOR (GAS)       |                    | 1               | 1    | 1    |                             | TH23                        |                          |       |        |
| 11  | S70 E00 659 | INNER COVER ASSY       |                    | 1               |      |      |                             |                             |                          |       |        |
|     | S70 E02 659 | INNER COVER ASSY       |                    |                 | 1    | 1    |                             |                             |                          |       |        |
| 12  | S70 E02 130 | LEG                    |                    | 1               | 1    | 1    |                             |                             |                          |       |        |
| 13  | S70 E06 762 | FAN MOTOR              | D17B6P70MS         | 1               |      |      |                             | MF                          |                          |       |        |
|     | S70 E07 762 | FAN MOTOR              | D176P120MS         |                 | 1    | 1    |                             | MF                          |                          |       |        |
| 14  | S70 A41 105 | MOTOR MOUNT            |                    | 4               | 4    | 4    |                             |                             |                          |       |        |
| 15  | S70 006 688 | DRUM 2 ASSY            |                    | 1               |      |      |                             |                             |                          |       |        |
|     | S70 008 688 | DRUM 2 ASSY            |                    |                 | 1    | 1    |                             |                             |                          |       |        |

**FUNCTIONAL PARTS**  
**PLFY-P32VAM-E.UK**  
**PLFY-P40VAM-E.UK**  
**PLFY-P50VAM-E.UK**  
**PLFY-P63VAM-E.UK**

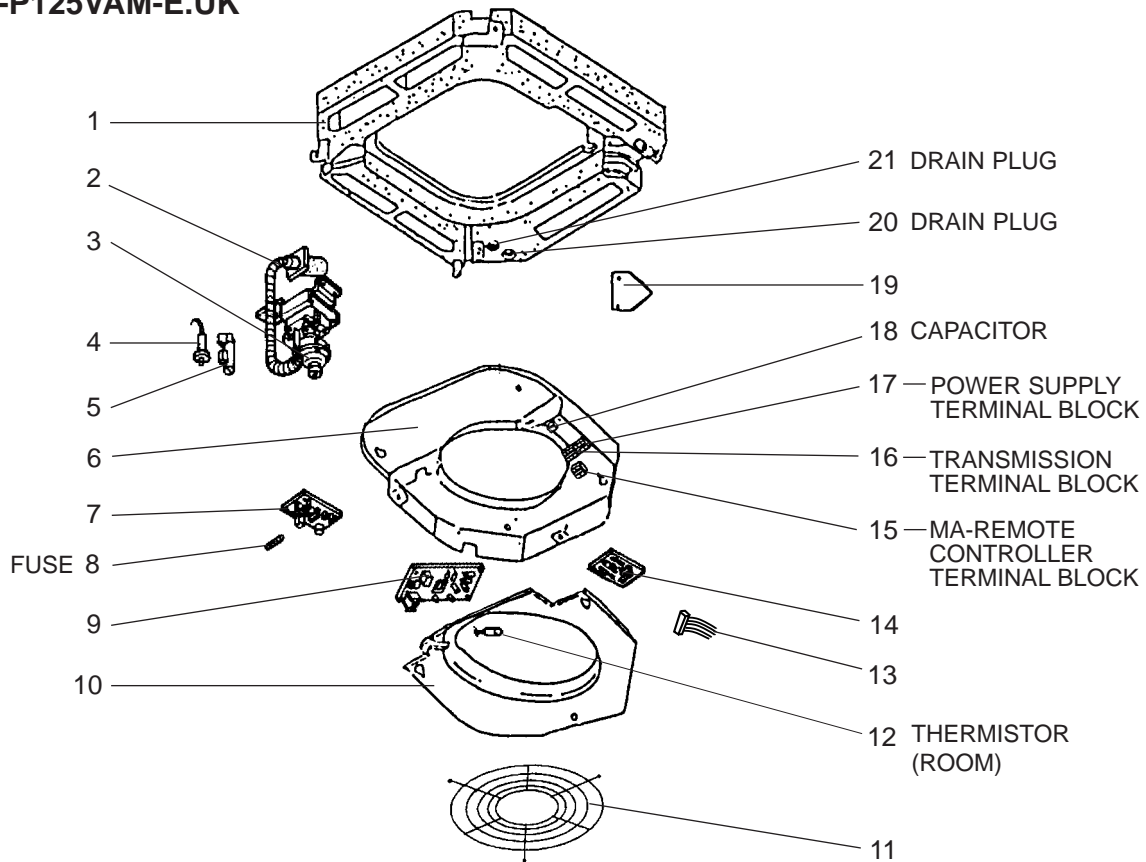


Part numbers that is circled is not shown in the figure.

| No. | Parts No.   | Parts Name                          | Specifi-<br>cation | Q'ty / set       |                    | Remarks<br>(Drawing<br>No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |
|-----|-------------|-------------------------------------|--------------------|------------------|--------------------|-----------------------------|-----------------------------|--------------------------|-------|--------|
|     |             |                                     |                    | PLFY- . VAM-E.UK | P32, P40, P50, P63 |                             |                             |                          | Unit  | Amount |
| 1   | S70 E02 529 | DRAIN PAN                           |                    | 1                |                    |                             |                             |                          |       |        |
| 2   | S70 A41 523 | DRAIN SOCKET                        |                    | 1                |                    |                             |                             |                          |       |        |
| 3   | S70 E01 355 | DRAIN PUMP                          |                    | 1                |                    |                             | DP                          |                          |       |        |
| 4   | S70 E00 266 | DRAIN SENSOR                        |                    | 1                |                    |                             | DS                          |                          |       |        |
| 5   | S70 31K 241 | DRAIN SENSOR HOLDER                 |                    | 1                |                    |                             |                             |                          |       |        |
| 6   | S70 E00 503 | CONTROL BOX                         |                    | 1                |                    |                             |                             |                          |       |        |
| 7   | S70 E02 313 | POWER BOARD                         |                    | 1                |                    |                             | P.B                         |                          |       |        |
| 8   | S70 520 239 | FUSE                                | 6.3A 250V          | 1                |                    |                             | FUSE                        |                          |       |        |
| 9   | S70 E35 310 | INDOOR CONTROLLER BOARD             |                    | 1                |                    |                             | I.B ※                       |                          |       |        |
| 10  | S70 003 503 | CONTROL COVER ASSY                  |                    | 1                |                    |                             |                             |                          |       |        |
| 11  | S70 E10 675 | FAN GUARD                           |                    | 1                |                    |                             |                             |                          |       |        |
| 12  | S70 E00 202 | THERMISTOR (ROOM)                   |                    | 1                |                    |                             | TH21                        |                          |       |        |
| 13  | S70 E00 304 | ADDRESS CABLE                       |                    | 1                |                    |                             |                             |                          |       |        |
| 14  | S70 B02 294 | ADDRESS BOARD                       |                    | 1                |                    |                             | A.B                         |                          |       |        |
| 15  | S70 512 716 | MA-REMOTE CONTROLLER TERMINAL BLOCK | 2P(1, 2)           | 1                |                    |                             | TB15                        |                          |       |        |
| 16  | S70 B02 716 | TRANSMISSION TERMINAL BLOCK         | (M1, M2, S)        | 1                |                    |                             | TB5                         |                          |       |        |
| 17  | S70 521 716 | POWER SUPPLY TERMINAL BLOCK         | (L, N, E)          | 1                |                    |                             | TB2                         |                          |       |        |
| 18  | S70 576 255 | FAN MOTOR CAPACITOR                 | 3.0μF 440V         | 1                |                    |                             | C                           |                          |       |        |
| 19  | S70 001 663 | CORNER COVER                        |                    | 1                |                    |                             |                             |                          |       |        |
| 20  | S70 A48 524 | DRAIN PLUG                          |                    | 1                |                    |                             |                             |                          |       |        |
| 21  | S70 A41 524 | DRAIN PLUG                          |                    | 1                |                    |                             |                             |                          |       |        |

※ The part name of symbol "I.B" is "SPCB".

**FUNCTIONAL PARTS**  
**PLFY-P80VAM-E.UK**  
**PLFY-P100VAM-E.UK**  
**PLFY-P125VAM-E.UK**



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

| No. | Parts No.   | Parts Name                          | Specifi-<br>cation | Q'ty / set      |            | Remarks<br>(Drawing<br>No.) | Wiring<br>Diagram<br>Symbol | Recom-<br>mended<br>Q'ty | Price |        |
|-----|-------------|-------------------------------------|--------------------|-----------------|------------|-----------------------------|-----------------------------|--------------------------|-------|--------|
|     |             |                                     |                    | PLFY - VAM-E.UK |            |                             |                             |                          | Unit  | Amount |
|     |             |                                     |                    | P80             | P100, P125 |                             |                             |                          |       |        |
| 1   | S70 E02 529 | DRAIN PAN                           |                    | 1               |            |                             |                             |                          |       |        |
|     | S70 E01 529 | DRAIN PAN                           |                    |                 | 1          |                             |                             |                          |       |        |
| 2   | S70 A41 523 | DRAIN SOCKET                        |                    | 1               | 1          |                             |                             |                          |       |        |
| 3   | S70 E01 355 | DRAIN PUMP                          |                    | 1               | 1          |                             | DP                          |                          |       |        |
| 4   | S70 E00 266 | DRAIN SENSOR                        |                    | 1               | 1          |                             | DS                          |                          |       |        |
| 5   | S70 31K 241 | DRAIN SENSOR HOLDER                 |                    | 1               | 1          |                             |                             |                          |       |        |
| 6   | S70 E00 503 | CONTROL BOX                         |                    | 1               | 1          |                             |                             |                          |       |        |
| 7   | S70 E02 313 | POWER BOARD                         |                    | 1               | 1          |                             | P.B                         |                          |       |        |
| 8   | S70 520 239 | FUSE                                | 6.3A 250V          | 1               | 1          |                             | FUSE                        |                          |       |        |
| 9   | S70 E35 310 | INDOOR CONTROLLER BOARD             |                    | 1               | 1          |                             | I.B ※                       |                          |       |        |
| 10  | S70 003 503 | CONTROL COVER ASSY                  |                    | 1               | 1          |                             |                             |                          |       |        |
| 11  | S70 E10 675 | FAN GUARD                           |                    | 1               | 1          |                             |                             |                          |       |        |
| 12  | S70 E00 202 | THERMISTOR (ROOM)                   |                    | 1               | 1          |                             | TH21                        |                          |       |        |
| 13  | S70 E00 304 | ADDRESS CABLE                       |                    | 1               | 1          |                             |                             |                          |       |        |
| 14  | S70 B02 294 | ADDRESS BOARD                       |                    | 1               | 1          |                             | A.B                         |                          |       |        |
| 15  | S70 512 716 | MA-REMOTE CONTROLLER TERMINAL BLOCK | 2P(1, 2)           | 1               | 1          |                             | TB15                        |                          |       |        |
| 16  | S70 B02 716 | TRANSMISSIONTERMINAL BLOCK          | (M1, M2, S)        | 1               | 1          |                             | TB5                         |                          |       |        |
| 17  | S70 521 716 | POWER SPPLY TERMINAL BLOCK          | (L, N, E)          | 1               | 1          |                             | TB2                         |                          |       |        |
| 18  | S70 17T 255 | FAN MOTOR CAPACITOR                 | 3.5 $\mu$ F 440V   | 1               |            |                             | C                           |                          |       |        |
|     | S70 E02 255 | FAN MOTOR CAPACITOR                 | 7.0 $\mu$ F 440V   |                 | 1          |                             | C                           |                          |       |        |
| 19  | S70 001 663 | CORNER COVER                        |                    | 1               | 1          |                             |                             |                          |       |        |
| 20  | S70 A48 524 | DRAIN PLUG                          |                    | 1               | 1          |                             |                             |                          |       |        |
| 21  | S70 A41 524 | DRAIN PLUG                          |                    | 1               | 1          |                             |                             |                          |       |        |

※ The part name of symbol "I.B" is "SPCB".

**11****OPTIONAL PARTS****11-1. Multi function casement**

|          |              |
|----------|--------------|
| Part No. | PAC-SG03TM-E |
|----------|--------------|

**11-2. Air outlet shutter plate (20 sets)**

|          |              |
|----------|--------------|
| Part No. | PAC-SG06SP-E |
|----------|--------------|

**11-3. High efficiency filter (PAC-SG03TM-E is required in using this optional part.)**

|          |            |
|----------|------------|
| Part No. | PAC-SG01KF |
|----------|------------|