

# Ceiling cassette type

## 2-way airflow type

PLFY-P VLMD-E **R410A**

• Technologies and functions ..... P.160



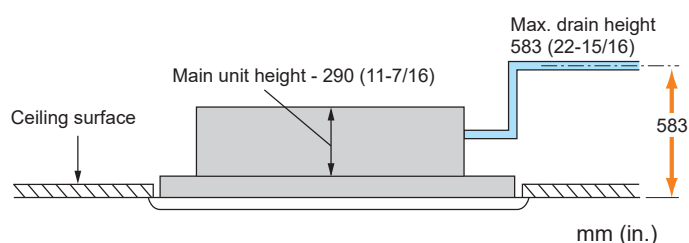
**Slim body (depth 634 mm) for up to P100.**  
**Recommended for corridors or long and narrow rooms.**

### Simple panel design

The in-take port is not a grille but made in a stylish design. It can be installed visually attractively in harmony with the ceiling and lightings.

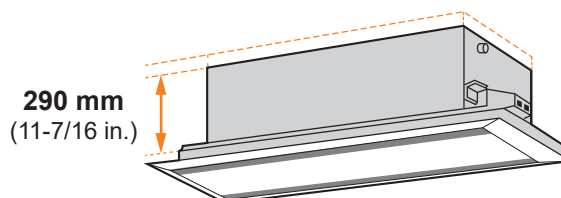
### Drain pump as a standard feature

The drain can be positioned anywhere up to 583 mm (22-15/16 in.) from the ceiling surface, providing greater flexibility with long cross-piping and allowing more versatility with piping layouts.



### Slim body - only 290 mm (11-7/16 in.) high

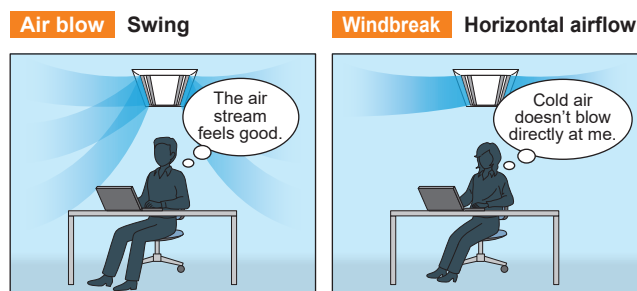
The slimline body is highly suited for installation in narrow ceiling spaces and for replacing obsolete air-conditioning equipment in older buildings. The height of the main unit is only 290 mm (11-7/16 in.).



### Vane control

Vane angle can be selected from 7 types, including "Horizontal fix" and "Swing," to set the air blow according to preference.

\*Airflow direction cannot be changed individually.



# Ceiling cassette type **R410A**

## 2-way airflow type **PLFY-P VLMD-E**

|                                           |                             |          | PLFY-P20VLMD-E                                |             | PLFY-P25VLMD-E |        | PLFY-P32VLMD-E |         | PLFY-P40VLMD-E |              |  |
|-------------------------------------------|-----------------------------|----------|-----------------------------------------------|-------------|----------------|--------|----------------|---------|----------------|--------------|--|
| Power source                              |                             |          | 1-phase 220-240V 50Hz / 1-phase 220-230V 60Hz |             |                |        |                |         |                |              |  |
| Cooling capacity                          |                             | *1       | kW                                            | 2.2         |                | 2.8    |                | 3.6     |                | 4.5          |  |
|                                           |                             | *1       | BTU/h                                         | 7,500       |                | 9,600  |                | 12,300  |                | 15,400       |  |
| Heating capacity                          |                             | *1       | kW                                            | 2.5         |                | 3.2    |                | 4.0     |                | 5.0          |  |
|                                           |                             | *1       | BTU/h                                         | 8,500       |                | 10,900 |                | 13,600  |                | 17,100       |  |
| Power consumption                         | Cooling                     | kW       | 0.072 / 0.075                                 |             | 0.072 / 0.075  |        | 0.072 / 0.075  |         | 0.081 / 0.085  |              |  |
|                                           | Heating                     | kW       | 0.065 / 0.069                                 |             | 0.065 / 0.069  |        | 0.065 / 0.069  |         | 0.074 / 0.079  |              |  |
| Current                                   | Cooling                     | A        | 0.36 / 0.37                                   |             | 0.36 / 0.37    |        | 0.36 / 0.37    |         | 0.40 / 0.42    |              |  |
|                                           | Heating                     | A        | 0.30 / 0.32                                   |             | 0.30 / 0.32    |        | 0.30 / 0.32    |         | 0.34 / 0.37    |              |  |
| External finish<br>(Munsell No.)          | Unit                        |          | Galvanized steel plate                        |             |                |        |                |         |                |              |  |
|                                           | Panel                       |          | Pure white (6.4Y 8.9/0.4)                     |             |                |        |                |         |                |              |  |
| Dimension                                 | Unit                        | mm(in.)  | 290 x 776 x 634 (11-7/16 x 30-9/16 x 25)      |             |                |        |                |         |                |              |  |
| H x W x D                                 | Panel                       | mm(in.)  | 20 x 1080 x 710 (13/16 x 42-9/16 x 28)        |             |                |        |                |         |                |              |  |
| Net weight                                | Unit                        | kg(lbs.) | 23 (51)                                       |             |                |        |                | 24 (53) |                |              |  |
|                                           | Panel                       | kg(lbs.) | 6.5 (15)                                      |             |                |        |                |         |                |              |  |
| Heat exchanger                            |                             |          | Cross fin                                     |             |                |        |                |         |                |              |  |
| FAN                                       | Type x Quantity             |          | Turbo fan x 1                                 |             |                |        |                |         |                |              |  |
|                                           | Airflow rate<br>(Lo-Mid-Hi) | *2       | m³/min                                        | 6.5-8.0-9.5 |                |        |                |         |                | 7.0-8.5-10.5 |  |
|                                           |                             | L/s      | 108-133-158                                   |             |                |        |                |         | 117-142-175    |              |  |
|                                           |                             | cfm      | 230-283-335                                   |             |                |        |                |         | 247-300-371    |              |  |
| External static press.                    |                             | Pa       | 0                                             |             |                |        |                |         |                |              |  |
| Motor                                     | Type                        |          | 1-phase induction motor                       |             |                |        |                |         |                |              |  |
|                                           | Output                      |          | 0.015 (at 240V)                               |             |                |        |                |         |                |              |  |
| Air filter                                |                             |          | PP honeycomb fabric (long life type)          |             |                |        |                |         |                |              |  |
| Refrigerant                               | Gas(Flare)                  | mm(in.)  | ø12.7 (ø1/2)                                  |             |                |        |                |         |                |              |  |
| pipe diameter                             | Liquid(Flare)               | mm(in.)  | ø6.35 (ø1/4)                                  |             |                |        |                |         |                |              |  |
| Field drain pipe diameter                 | mm(in.)                     |          | O.D.32 (1-1/4)                                |             |                |        |                |         |                |              |  |
| Sound pressure level<br>(Lo-Mid-Hi) *2 *3 | 220V/240V                   | dB<A>    | 27-30-33                                      |             |                |        |                |         | 29-33-36       |              |  |
|                                           | 230V                        | dB<A>    | 28-31-34                                      |             |                |        |                |         | 30-34-37       |              |  |

|                                           |                                                                |          | PLFY-P50VLMD-E                                |               | PLFY-P63VLMD-E |                | PLFY-P80VLMD-E      |                                            | PLFY-P100VLMD-E     |                | PLFY-P125VLMD-E                  |                     |                                                  |  |
|-------------------------------------------|----------------------------------------------------------------|----------|-----------------------------------------------|---------------|----------------|----------------|---------------------|--------------------------------------------|---------------------|----------------|----------------------------------|---------------------|--------------------------------------------------|--|
| Power source                              |                                                                |          | 1-phase 220-240V 50Hz / 1-phase 220-230V 60Hz |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
| Cooling capacity                          |                                                                | *1       | kW                                            | 5.6           |                | 7.1            |                     | 9.0                                        |                     | 11.2           |                                  | 14.0                |                                                  |  |
|                                           |                                                                | *1       | BTU/h                                         | 19,100        |                | 24,200         |                     | 30,700                                     |                     | 38,200         |                                  | 47,800              |                                                  |  |
| Heating capacity                          |                                                                | *1       | kW                                            | 6.3           |                | 8.0            |                     | 10.0                                       |                     | 12.5           |                                  | 16.0                |                                                  |  |
|                                           |                                                                | *1       | BTU/h                                         | 21,500        |                | 27,300         |                     | 34,100                                     |                     | 42,700         |                                  | 54,600              |                                                  |  |
| Power consumption                         | Cooling                                                        | kW       | 0.082 / 0.086                                 |               | 0.101 / 0.105  |                | 0.147 / 0.156       |                                            | 0.157 / 0.186       |                | 0.28 / 0.28                      |                     |                                                  |  |
|                                           | Heating                                                        | kW       | 0.075 / 0.080                                 |               | 0.094 / 0.099  |                | 0.140 / 0.150       |                                            | 0.150 / 0.180       |                | 0.27 / 0.27                      |                     |                                                  |  |
| Current                                   | Cooling                                                        | A        | 0.41 / 0.43                                   |               | 0.49 / 0.51    |                | 0.72 / 0.74         |                                            | 0.75 / 0.88         |                | 1.35 / 1.35                      |                     |                                                  |  |
|                                           | Heating                                                        | A        | 0.35 / 0.38                                   |               | 0.43 / 0.46    |                | 0.66 / 0.69         |                                            | 0.69 / 0.83         |                | 1.33 / 1.33                      |                     |                                                  |  |
| External finish<br>(Munsell No.)          | Unit                                                           |          | Galvanized steel plate                        |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
|                                           | Panel                                                          |          | Pure white (6.4Y 8.9/0.4)                     |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
| Dimension                                 | Unit                                                           | mm(in.)  | 290 x 946 x 634 (11-7/16 x 37-1/4 x 25)       |               |                |                |                     | 290 x 1446 x 634 (11-7/16 x 56-15/16 x 25) |                     |                |                                  |                     | 290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)     |  |
| H x W x D                                 | Panel                                                          | mm(in.)  | 20 x 1250 x 710 (13/16 x 49-1/4 x 28)         |               |                |                |                     | 20 x 1750 x 710 (13/16 x 68-15/16 x 28)    |                     |                |                                  |                     | 20 x 2010 x 710 (13/16 x 79-3/16 x 28)           |  |
| Net weight                                | Unit                                                           | kg(lbs.) | 27 (60)                                       |               | 28 (62)        |                | 44 (98)             |                                            | 47 (104)            |                | 56 (124)                         |                     |                                                  |  |
|                                           | Panel                                                          | kg(lbs.) | 7.5 (17)                                      |               |                |                | 12.5 (28)           |                                            |                     |                | 13.0 (29)                        |                     |                                                  |  |
| Heat exchanger                            |                                                                |          | Cross fin                                     |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
| FAN                                       | Type x Quantity                                                |          | Turbo fan x 1                                 |               |                |                |                     | Turbo fan x 2                              |                     |                |                                  |                     | Sirocco fan x 4                                  |  |
|                                           | Airflow rate<br>(P50-P100:Lo-Mid-Hi)<br>(P125:Lo-Mid2-Mid1-Hi) | *2       | m³/min                                        | 9.0-11.0-12.5 |                | 11.0-13.0-15.5 |                     | 15.5-18.5-22.0                             |                     | 17.5-21.0-25.0 |                                  | 24.0-27.0-30.0-33.0 |                                                  |  |
|                                           |                                                                | L/s      | 150-183-208                                   |               | 167-217-258    |                | 258-308-367         |                                            | 292-350-417         |                | 400-450-500-550                  |                     |                                                  |  |
|                                           |                                                                | cfm      | 318-388-441                                   |               | 353-459-547    |                | 547-653-777         |                                            | 618-742-883         |                | 848-953-1,059-1,165              |                     |                                                  |  |
| External static press.                    |                                                                | Pa       | 0                                             |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
| Motor                                     | Type                                                           |          | 1-phase induction motor                       |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
|                                           | Output                                                         | kW       | 0.020 (at 240V)                               |               |                |                | 0.020 x 2 (at 240V) |                                            | 0.030 x 2 (at 240V) |                | 0.078 x 2 (at 240V)              |                     |                                                  |  |
| Air filter                                |                                                                |          | PP honeycomb fabric (long life type)          |               |                |                |                     |                                            |                     |                |                                  |                     | Synthetic fiber unwoven cloth filter (long life) |  |
| Refrigerant                               | Gas(Flare)                                                     | mm(in.)  | ø12.7 (ø1/2)                                  |               |                |                | ø15.88 (ø5/8)       |                                            |                     |                |                                  |                     |                                                  |  |
| pipe diameter                             | Liquid(Flare)                                                  | mm(in.)  | ø6.35 (ø1/4)                                  |               |                |                | ø9.52 (ø3/8)        |                                            |                     |                |                                  |                     |                                                  |  |
| Field drain pipe diameter                 | mm(in.)                                                        |          | O.D.32 (1-1/4)                                |               |                |                |                     |                                            |                     |                |                                  |                     |                                                  |  |
| Sound pressure level<br>(Lo-Mid-Hi) *2 *3 | 220V/240V                                                      | dB<A>    | 31-34-37                                      |               | 32-37-39       |                | 33-36-39            |                                            | 36-39-42            |                | 40-42-44-46<br>(Lo-Mid2-Mid1-Hi) |                     |                                                  |  |
|                                           | 230V                                                           | dB<A>    | 32-35-38                                      |               | 33-38-40       |                | 34-37-40            |                                            | 37-41-43            |                |                                  |                     |                                                  |  |

### Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.  
Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB  
Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB  
\*2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high).  
\*3 It is measured in anechoic room.

## Optional parts

| Description      | Model        | Applicable capacity                     |
|------------------|--------------|-----------------------------------------|
| Decoration panel | CMP-40VLW-C  | P20, P25, P32, P40                      |
|                  | CMP-63VLW-C  | P50, P63                                |
|                  | CMP-100VLW-C | P80, P100                               |
|                  | CMP-125VLW-C | P125                                    |
| OA duct flange   | PAC-KH11OF   | P20, P25, P32, P40, P50, P63, P80, P100 |