

INDOOR UNIT

Ceiling cassette type

2-way airflow

PLFY-P VLMD-E

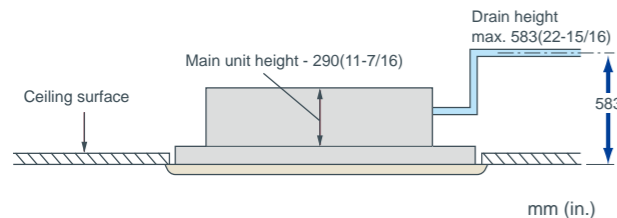


Slim body of 290mm(11-7/16in.) height



Equipped with drain pump mechanism as standard

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



Compact unit and low noise level attained!

Sound pressure level table (Standard static pressure) at 0Pa

| Sound pressure level | Capacity | dB(A) | | | | | | | | | |
|----------------------|----------|-------|-----|-----|-----|-----|-----|-------|------|------|--|
| | | P20 | P25 | P32 | P40 | P50 | P63 | P80 | P100 | P125 | |
| | | High | 33 | 36 | 37 | 39 | 39 | 42 | 46 | | |
| Fan Speed | Mid | 30 | 33 | 34 | 37 | 36 | 39 | 42/44 | | | |
| | Low | 27 | 29 | 31 | 32 | 33 | 36 | 40 | | | |

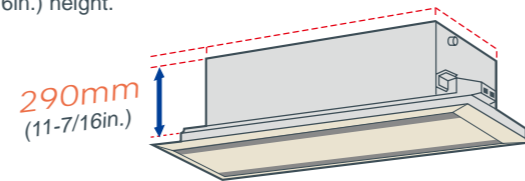
<220V,240V>

| Sound pressure level | Capacity | dB(A) | | | | | | | | | |
|----------------------|----------|-------|-----|-----|-----|-----|-----|-------|------|------|--|
| | | P20 | P25 | P32 | P40 | P50 | P63 | P80 | P100 | P125 | |
| | | High | 34 | 37 | 38 | 40 | 40 | 43 | 46 | | |
| Fan Speed | Mid | 31 | 34 | 35 | 38 | 37 | 41 | 42/44 | | | |
| | Low | 28 | 30 | 32 | 33 | 34 | 37 | 40 | | | |

<230V>

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

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



Terminal block on outside of main unit makes wiring easier

Fresh air directly taken in

Fresh air can be taken in to the main unit directly (optional accessories needed.)

Long life filter equipped as standard

The antibacterial long life filter does not require maintenance for approximately a year.

Easy installation

Lighter panel and placing the electric board near the panel make installation and maintenance easier. Also, the heat exchanger is washable by displacing the center panel, filter, and fan.

Specifications

| | | 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 (Munsell No.) | Unit | Galvanized steel plate | | | | |
| | Panel | Pure white (6.4Y 8.9/0.4) | | | | |
| Dimension H x W x D | Unit mm (in.) | 290 x 776 x 634 (11-7/16 x 30-9/16 x 25) | | | | |
| | 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 *2 (Lo-Mid-Hi) | 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 pressure | Pa | 0 | | | | |
| Motor | Type | 1-phase induction motor | | | | |
| | Output kW | 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 (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 (Munsell No.) | Unit | Galvanized steel plate | | | | | |
| | Panel | Pure white (6.4Y 8.9 / 0.4) | | | | | |
| Dimension H x W x D | 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) | | 280 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8) | |
| | 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 | | Turbo fan x 1 | | Turbo fan x 2 | | Sirocco fan x 4 | |
| Fan | Type x Quantity | Turbo fan x 1 | | Turbo fan x 2 | | Sirocco fan x 4 | |
| | Airflow rate *2 (P50-P100:Lo-Mid-Hi) (P125:Lo-Mid2-Mid1-Hi) | 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 pressure | Pa | 0 | | | | | |
| Motor | Type | 1-phase induction motor | | | | | |
| | Output kW | 0.020 (at 240V) | | 0.020 (at 240V) | | 0.030 (at 240V) | |
| Air filter | | PP honeycomb fabric (long life type) | | | | Synthetic fiber unwoven cloth filter (long life) | |
| Refrigerant pipe diameter | Gas (Flare) mm(in.) | ø12.7 (ø1/2) | | ø15.88 (ø5/8) | | | |
| | 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 (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 | |
| | 230V dB(A) | 32-35-38 | 33-38-40 | 34-37-40 | 37-41-43 | (Lo-Mid2-Mid1-Hi) | |

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.