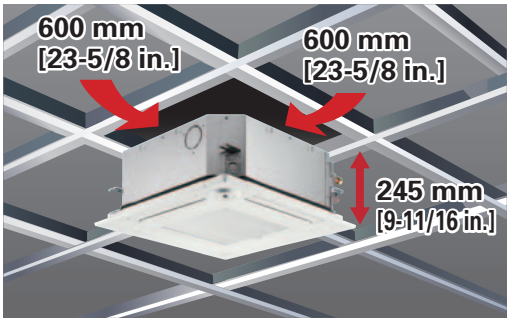
# PLFY-P VFM-E1

## Flexible Design

The straight square design matches 2 × 2 (600mm∗600mm [ [23-5/8 in.∗23-5/8 in.]) ceiling construction specifications. The unit height is 245 mm and it can be installed in a narrow ceiling space.

## Compact and light design

The panel weighs 3 kg, and the unit body weighs 14 kg (P15, P20 and P25 models) or 15 kg (P32, P40 and P50 models).
Their weight is 5 kg lighter than PLFY-VCM-E2 model, allowing them to be easily suspended.




## Detects number of people

### Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. Air-conditioning power equivalent to 1°C is saved during both cooling and heating operation at an occupancy rate of approximately 30%. The temperature is controlled according to the number of people.

### No occupancy energy-saving mode

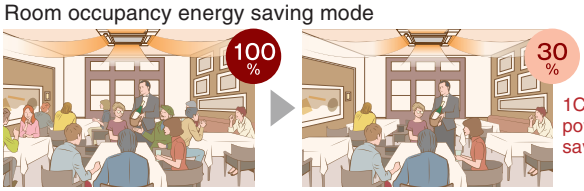
When 3D i-see Sensor detects that no one is in the room, the system is switched to a preset power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C is saved during both cooling and heating operation. This contributes to preventing waste in terms of heating and cooling.

### No occupancy Auto-OFF mode

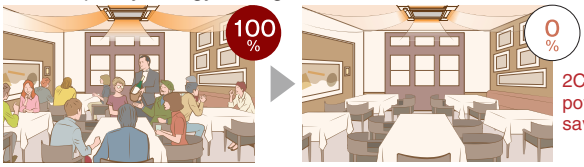
When the room remains unoccupied for a preset period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

*No occupancy Auto-OFF mode is not available when multiple indoor units are operated by one MA remote controller.

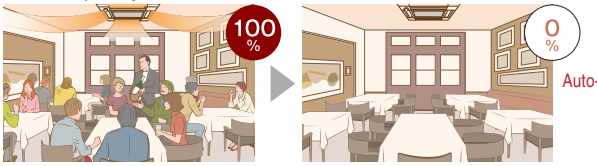
Room occupancy energy saving mode




No occupancy energy saving mode



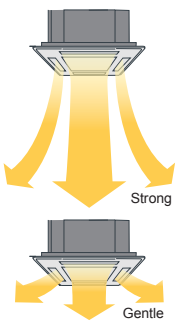

No occupancy Auto-OFF mode




*PAR-33MAA is required for each setting

## Automatic Air-speed Adjustment

An automatic air-speed mode that adjusts airflow speed automatically is adopted to maintain comfortable room conditions at all times. This setting automatically adjusts the air-speed to conditions that match the room environment.

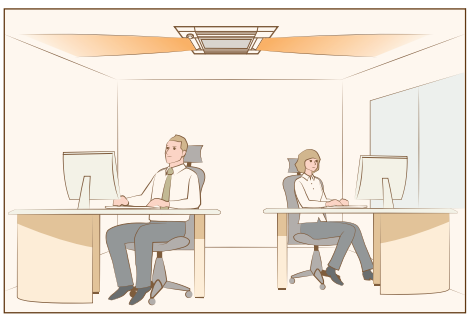



At the start of the heating / cooling operation, the airflow is set to high-speed to quickly heat / cool the room.

When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable and comfortable heating/cooling operation.

## Direct/Indirect settings*

Some people do not like the feeling of wind, while others want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane.



*PAR-33MAA or PAR-SL100A-E is required for each setting.

# Specifications

| Model | | | | PLFY-P15VFM-E1 | PLFY-P20VFM-E1 | PLFY-P25VFM-E1 | PLFY-P32VFM-E1 | PLFY-P40VFM-E1 | PLFY-P50VFM-E1 |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/220V 60Hz | | | | | |
| Cooling capacity | | *1 | kW | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| | | *1 | BTU/h | 5,800 | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 |
| Heating capacity | | *1 | kW | 1.9 | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| | | *1 | BTU/h | 6,500 | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 |
| Power consumption | Cooling | | kW | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 |
| | Heating | | kW | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 |
| Current | Cooling | | A | 0.19 | 0.21 | 0.22 | 0.23 | 0.28 | 0.40 |
| | Heating | | A | 0.14 | 0.16 | 0.17 | 0.18 | 0.23 | 0.35 |
| External finish (Munsell No.) | Unit | | | Galvanized steel sheet | | | | | |
| | Panel | | | MUNSELL (1.0Y 9.2/0.2) | | | | | |
| Dimension H x W x D | Unit | | mm (in.) | 208 x 570 x 570 (8-1/4 x 22-1/2 x 22-1/2) | | | | | |
| | Panel | | mm (in.) | 10 x 625 x 625 (3/8 x 24-5/8 x 24-5/8) | | | | | |
| Net weight | Unit | | kg (lbs.) | 14 (31) | | | 15 (33) | | |
| | Panel | | kg (lbs.) | 3 (7) | | | | | |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | | | |
| Fan | Type x Quantity | | | Turbo fan x 1 | | | | | |
| | Airflow rate (Lo-Mid-Hi) | | $m^3$/min | 6.5-7.5-8.0 | 6.5-7.5-8.5 | 6.5-8.0-9.0 | 7.0-8.0-9.5 | 7.5-9.0-11.0 | 9.0-11.0-13.0 |
| | | | L/s | 108-125-133 | 108-125-142 | 108-133-150 | 117-133-158 | 125-150-183 | 150-183-217 |
| | | | cfm | 230-265-282 | 230-265-300 | 230-282-318 | 247-282-335 | 265-318-388 | 318-388-459 |
| | External static pressure | | Pa | 0 | | | | | |
| Motor | Type | | | DC motor | | | | | |
| | Output | | kW | 0.05 | | | | | |
| Air filter | | | | PP Honeycomb fabric (long life type) | | | | | |
| Refrigerant pipe diameter | Gas (Flare) | | mm (in.) | ø12.7 (ø1/2) | | | | | |
| | Liquid (Flare) | | mm (in.) | ø6.35 (ø1/4) | | | | | |
| Field drain pipe diameter | | | mm (in.) | O.D. 32 (1-1/4) (PVC pipe VP-25 connectable) | | | | | |
| Sound pressure level (Lo-Mid-Hi) | | *2 | dB (A) | 26-28-30 | 26-29-31 | 26-30-33 | 26-30-34 | 28-33-39 | 33-39-43 |

**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 It is measured in anechoic room at power source 230V.