

# 1. SPECIFICATIONS

Ceiling cassette (4-way flow type)

| Model                                                              |                                     |                  |                     | PLFY-WL10VFM-E                                                                                                                                                                                                                                                    |             | PLFY-WL15VFM-E |             | PLFY-WL20VFM-E |  |
|--------------------------------------------------------------------|-------------------------------------|------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-------------|----------------|--|
| Power source                                                       |                                     |                  |                     | 1-phase 220-230-240V 50Hz<br>1-phase 220V 60Hz                                                                                                                                                                                                                    |             |                |             |                |  |
| Cooling capacity<br>(Nominal)                                      |                                     | *1               | kW                  | 1.2                                                                                                                                                                                                                                                               |             | 1.7            |             | 2.2            |  |
|                                                                    |                                     | *1               | BTU/h               | 4,100                                                                                                                                                                                                                                                             |             | 5,800          |             | 7,500          |  |
|                                                                    |                                     | Power input      |                     | kW                                                                                                                                                                                                                                                                |             | 0.02           |             | 0.02           |  |
|                                                                    |                                     | Current input    |                     | A                                                                                                                                                                                                                                                                 |             | 0.23           |             | 0.24           |  |
|                                                                    |                                     |                  |                     | 0.26                                                                                                                                                                                                                                                              |             |                |             |                |  |
| Heating capacity<br>(Nominal)                                      |                                     | *2               | kW                  | 1.4                                                                                                                                                                                                                                                               |             | 1.9            |             | 2.5            |  |
|                                                                    |                                     | *2               | BTU/h               | 4,800                                                                                                                                                                                                                                                             |             | 6,500          |             | 8,500          |  |
|                                                                    |                                     | Power input      |                     | kW                                                                                                                                                                                                                                                                |             | 0.02           |             | 0.02           |  |
|                                                                    |                                     | Current input    |                     | A                                                                                                                                                                                                                                                                 |             | 0.17           |             | 0.18           |  |
|                                                                    |                                     |                  |                     | 0.20                                                                                                                                                                                                                                                              |             |                |             |                |  |
| External finish                                                    |                                     |                  |                     | Galvanized steel sheet                                                                                                                                                                                                                                            |             |                |             |                |  |
| External dimension H × W × D                                       |                                     |                  | mm                  | 208 × 570 × 570                                                                                                                                                                                                                                                   |             |                |             |                |  |
|                                                                    |                                     |                  | in.                 | 8-1/4 × 22-1/2 × 22-1/2                                                                                                                                                                                                                                           |             |                |             |                |  |
| Net weight                                                         |                                     |                  | kg (lbs)            | 13(29)                                                                                                                                                                                                                                                            |             | 13(29)         |             | 14(31)         |  |
| Decoration panel                                                   | Model                               |                  |                     | SLP-2FA(L)(E)                                                                                                                                                                                                                                                     |             |                |             |                |  |
|                                                                    | External finish                     |                  |                     | MUNSELL (1.0Y 9.2/0.2)                                                                                                                                                                                                                                            |             |                |             |                |  |
|                                                                    | Dimension<br>H × W × D              |                  | mm                  | 10 × 625 × 625                                                                                                                                                                                                                                                    |             |                |             |                |  |
|                                                                    |                                     |                  | in.                 | 3/8 × 24-5/8 × 24-5/8                                                                                                                                                                                                                                             |             |                |             |                |  |
|                                                                    | Net weight                          |                  |                     | kg (lbs)                                                                                                                                                                                                                                                          | 3 (7)       |                |             |                |  |
| Heat exchanger                                                     |                                     |                  |                     | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          |             |                |             |                |  |
| Water Volume                                                       |                                     |                  | L                   | 0.5                                                                                                                                                                                                                                                               |             | 0.5            |             | 0.9            |  |
| FAN                                                                | Type × Quantity                     |                  |                     | Turbo Fan × 1                                                                                                                                                                                                                                                     |             |                |             |                |  |
|                                                                    | External static press.              |                  | Pa                  | 0                                                                                                                                                                                                                                                                 |             |                |             |                |  |
|                                                                    |                                     |                  | mmH <sub>2</sub> O  | 0                                                                                                                                                                                                                                                                 |             |                |             |                |  |
|                                                                    | Motor type                          |                  |                     | DC motor                                                                                                                                                                                                                                                          |             |                |             |                |  |
|                                                                    | Motor output                        |                  |                     | kW                                                                                                                                                                                                                                                                |             |                |             |                |  |
|                                                                    | Driving mechanism                   |                  |                     | Direct-driven by motor                                                                                                                                                                                                                                            |             |                |             |                |  |
|                                                                    | Airflow flow rate<br>(Low-Mid-High) |                  | m <sup>3</sup> /min | 6.0-6.5-7.0                                                                                                                                                                                                                                                       |             | 6.0-7.0-8.0    |             | 6.5-7.0-8.0    |  |
|                                                                    |                                     |                  | L/s                 | 100-108-117                                                                                                                                                                                                                                                       |             | 100-117-133    |             | 108-117-133    |  |
| cfm                                                                |                                     |                  | 212-230-247         |                                                                                                                                                                                                                                                                   | 212-247-282 |                | 230-247-282 |                |  |
| Sound pressure level (measured in anechoic room)<br>(Low-Mid-High) |                                     |                  | dB <A>              | 25-26-27                                                                                                                                                                                                                                                          |             | 25-26-29       |             | 27-29-31       |  |
| Insulation material                                                |                                     |                  |                     | PS                                                                                                                                                                                                                                                                |             |                |             |                |  |
| Air filter                                                         |                                     |                  |                     | PP honeycomb                                                                                                                                                                                                                                                      |             |                |             |                |  |
| Protection device                                                  |                                     |                  |                     | Fuse                                                                                                                                                                                                                                                              |             |                |             |                |  |
| Refrigerant control device                                         |                                     |                  |                     | -                                                                                                                                                                                                                                                                 |             |                |             |                |  |
| Connectable HBC/Hydro unit                                         |                                     |                  |                     | CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A                                                                                                                                                                                                                  |             |                |             |                |  |
| Water piping diameter                                              | Connection size                     | Inlet            | mm O.D              | 22                                                                                                                                                                                                                                                                |             | 22             |             | 22             |  |
|                                                                    |                                     | Outlet           | mm O.D              | 22                                                                                                                                                                                                                                                                |             | 22             |             | 22             |  |
|                                                                    | Field pipe size                     | Inlet            | mm I.D              | 20                                                                                                                                                                                                                                                                |             | 20             |             | 20             |  |
|                                                                    |                                     | Outlet           | mm I.D              | 20                                                                                                                                                                                                                                                                |             | 20             |             | 20             |  |
| Field drain pipe size                                              |                                     |                  | mm (in.)            | O.D. 32 (1-1/4)                                                                                                                                                                                                                                                   |             |                |             |                |  |
| Drawing                                                            | External                            |                  |                     | RK01N261                                                                                                                                                                                                                                                          |             |                |             |                |  |
|                                                                    | Wiring                              |                  |                     | BH79N706                                                                                                                                                                                                                                                          |             |                |             |                |  |
|                                                                    | Refrigerant cycle                   |                  |                     | -                                                                                                                                                                                                                                                                 |             |                |             |                |  |
| Standard attachment                                                | Document                            |                  |                     | Installation Manual, Instruction Book                                                                                                                                                                                                                             |             |                |             |                |  |
|                                                                    | Accessory                           |                  |                     | Insulation template, Washer, Drain socket, Tie band                                                                                                                                                                                                               |             |                |             |                |  |
| Optional parts                                                     | Decoration panel *5                 |                  |                     | SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE/SLP-2FALM2/SPL-2FALME2                                                                                                                                                                                                        |             |                |             |                |  |
|                                                                    | 3D i-see Sensor corner panel        |                  |                     | PAC-SF1ME-E                                                                                                                                                                                                                                                       |             |                |             |                |  |
|                                                                    | Wireless signal receiver            |                  |                     | PAR-SF9FA-E                                                                                                                                                                                                                                                       |             |                |             |                |  |
|                                                                    | Valve kit *6                        |                  |                     | PAC-SK35VK-E                                                                                                                                                                                                                                                      |             |                |             |                |  |
|                                                                    |                                     |                  | 6m Lead wire        | PAC-SK40LW-E                                                                                                                                                                                                                                                      |             |                |             |                |  |
|                                                                    |                                     | Attachment plate | PAC-SK39AP-E        |                                                                                                                                                                                                                                                                   |             |                |             |                |  |
| Remarks                                                            |                                     |                  |                     | * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>* Due to continuing improvement, above specifications may be subject to change without notice. |             |                |             |                |  |

## Notes:

- Nominal cooling conditions  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Be sure to install a valve on the water outlet.
- Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
- PLFY-WL-VFM-E should be used together with Decoration panel.
- Certain restrictions apply to indoor unit combinations.  
Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.  
When the valve kit is installed farther away from the HBC than the distance between the HBC and the WL-model indoor unit, the maximum allowable height difference between the HBC and the valve kit is 15 meters.  
The maximum allowable piping length between the indoor unit and the valve kit is 5 meters.  
\*Please group units that operate on 1 branch.

## Unit converter

BTU/h =kW × 3.412  
 cfm =m<sup>3</sup>/min × 35.31  
 lbs =kg/0.4536

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Ceiling cassette (4-way flow type)

| Model                                                              |                                     |               |                     | PLFY-WL25VFM-E                                                                                                                                                                                                                                                    |             | PLFY-WL32VFM-E |             | PLFY-WL40VFM-E |      |  |
|--------------------------------------------------------------------|-------------------------------------|---------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-------------|----------------|------|--|
| Power source                                                       |                                     |               |                     | 1-phase 220-230-240V 50Hz<br>1-phase 220V 60Hz                                                                                                                                                                                                                    |             |                |             |                |      |  |
| Cooling capacity<br>(Nominal)                                      |                                     | *1            | kW                  | 2.8                                                                                                                                                                                                                                                               |             | 3.6            |             | 4.5            |      |  |
|                                                                    |                                     | *1            | BTU/h               | 9,600                                                                                                                                                                                                                                                             |             | 12,300         |             | 15,400         |      |  |
|                                                                    |                                     | Power input   |                     | kW                                                                                                                                                                                                                                                                | 0.03        |                | 0.04        |                | 0.05 |  |
|                                                                    |                                     | Current input |                     | A                                                                                                                                                                                                                                                                 | 0.29        |                | 0.38        |                | 0.46 |  |
| Heating capacity<br>(Nominal)                                      |                                     | *2            | kW                  | 3.2                                                                                                                                                                                                                                                               |             | 4.0            |             | 5.0            |      |  |
|                                                                    |                                     | *2            | BTU/h               | 10,900                                                                                                                                                                                                                                                            |             | 13,600         |             | 17,100         |      |  |
|                                                                    |                                     | Power input   |                     | kW                                                                                                                                                                                                                                                                | 0.03        |                | 0.04        |                | 0.05 |  |
|                                                                    |                                     | Current input |                     | A                                                                                                                                                                                                                                                                 | 0.23        |                | 0.32        |                | 0.40 |  |
| External finish                                                    |                                     |               |                     | Galvanized steel sheet                                                                                                                                                                                                                                            |             |                |             |                |      |  |
| External dimension H × W × D                                       |                                     |               | mm                  | 208 × 570 × 570                                                                                                                                                                                                                                                   |             |                |             |                |      |  |
|                                                                    |                                     |               | in.                 | 8-1/4 × 22-1/2 × 22-1/2                                                                                                                                                                                                                                           |             |                |             |                |      |  |
| Net weight                                                         |                                     |               | kg (lbs)            | 14(31)                                                                                                                                                                                                                                                            |             | 14(31)         |             | 14 (31)        |      |  |
| Decoration panel                                                   | Model                               |               |                     | SLP-2FA(L)(E)                                                                                                                                                                                                                                                     |             |                |             |                |      |  |
|                                                                    | External finish                     |               |                     | MUNSELL (1.0Y 9.2/0.2)                                                                                                                                                                                                                                            |             |                |             |                |      |  |
|                                                                    | Dimension<br>H × W × D              |               | mm                  | 10 × 625 × 625                                                                                                                                                                                                                                                    |             |                |             |                |      |  |
|                                                                    |                                     |               | in.                 | 3/8 × 24-5/8 × 24-5/8                                                                                                                                                                                                                                             |             |                |             |                |      |  |
|                                                                    | Net weight                          |               |                     | kg (lbs)                                                                                                                                                                                                                                                          | 3 (7)       |                |             |                |      |  |
| Heat exchanger                                                     |                                     |               |                     | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          |             |                |             |                |      |  |
| Water Volume                                                       |                                     |               | L                   | 0.9                                                                                                                                                                                                                                                               |             | 0.9            |             | 0.9            |      |  |
| FAN                                                                | Type × Quantity                     |               |                     | Turbo Fan × 1                                                                                                                                                                                                                                                     |             |                |             |                |      |  |
|                                                                    | External static press.              |               | Pa                  | 0                                                                                                                                                                                                                                                                 |             |                |             |                |      |  |
|                                                                    |                                     |               | mmH <sub>2</sub> O  | 0                                                                                                                                                                                                                                                                 |             |                |             |                |      |  |
|                                                                    | Motor type                          |               |                     | DC motor                                                                                                                                                                                                                                                          |             |                |             |                |      |  |
|                                                                    | Motor output                        |               | kW                  | 0.050                                                                                                                                                                                                                                                             |             |                |             |                |      |  |
|                                                                    | Driving mechanism                   |               |                     | Direct-driven by motor                                                                                                                                                                                                                                            |             |                |             |                |      |  |
|                                                                    | Airflow flow rate<br>(Low-Mid-High) |               | m <sup>3</sup> /min | 6.5-7.5-9.0                                                                                                                                                                                                                                                       |             | 6.5-9.0-12.0   |             | 6.5-11.5-13.0  |      |  |
|                                                                    |                                     |               | L/s                 | 108-125-150                                                                                                                                                                                                                                                       |             | 108-150-200    |             | 108-192-217    |      |  |
| cfm                                                                |                                     |               | 230-265-318         |                                                                                                                                                                                                                                                                   | 230-318-424 |                | 230-406-459 |                |      |  |
| Sound pressure level (measured in anechoic room)<br>(Low-Mid-High) |                                     |               | dB <A>              | 27-30-34                                                                                                                                                                                                                                                          |             | 27-33-41       |             | 27-40-43       |      |  |
| Insulation material                                                |                                     |               |                     | PS                                                                                                                                                                                                                                                                |             |                |             |                |      |  |
| Air filter                                                         |                                     |               |                     | PP honeycomb                                                                                                                                                                                                                                                      |             |                |             |                |      |  |
| Protection device                                                  |                                     |               |                     | Fuse                                                                                                                                                                                                                                                              |             |                |             |                |      |  |
| Refrigerant control device                                         |                                     |               |                     | -                                                                                                                                                                                                                                                                 |             |                |             |                |      |  |
| Connectable HBC/Hydro unit                                         |                                     |               |                     | CMB-WM-V-AA, CMB-WM-F-AA, CMB-WM-V-BB/CMH-WM-V-A                                                                                                                                                                                                                  |             |                |             |                |      |  |
| Water piping diameter                                              | Connection size                     | Inlet         | mm O.D              | 22                                                                                                                                                                                                                                                                |             | 22             |             | 22             |      |  |
|                                                                    |                                     | Outlet        | mm O.D              | 22                                                                                                                                                                                                                                                                |             | 22             |             | 22             |      |  |
|                                                                    | Field pipe size                     | Inlet         | mm I.D              | 20                                                                                                                                                                                                                                                                |             | 20             |             | 20             |      |  |
|                                                                    |                                     | Outlet        | mm I.D              | 20                                                                                                                                                                                                                                                                |             | 20             |             | 20             |      |  |
| Field drain pipe size                                              |                                     |               | mm (in.)            | O.D. 32 (1-1/4)                                                                                                                                                                                                                                                   |             |                |             |                |      |  |
| Drawing                                                            | External                            |               |                     | RK01N261                                                                                                                                                                                                                                                          |             |                |             |                |      |  |
|                                                                    | Wiring                              |               |                     | BH79N706                                                                                                                                                                                                                                                          |             |                |             |                |      |  |
|                                                                    | Refrigerant cycle                   |               |                     | -                                                                                                                                                                                                                                                                 |             |                |             |                |      |  |
| Standard attachment                                                | Document                            |               |                     | Installation Manual, Instruction Book                                                                                                                                                                                                                             |             |                |             |                |      |  |
|                                                                    | Accessory                           |               |                     | Insulation template, Washer, Drain socket, Tie band                                                                                                                                                                                                               |             |                |             |                |      |  |
| Optional parts                                                     | Decoration panel *5                 |               |                     | SLP-2FA/SLP-2FAE/SLP-2FAL/SLP-2FALE/SLP-2FALM2/SPL-2FALME2                                                                                                                                                                                                        |             |                |             |                |      |  |
|                                                                    | 3D i-see Sensor corner panel        |               |                     | PAC-SF1ME-E                                                                                                                                                                                                                                                       |             |                |             |                |      |  |
|                                                                    | Wireless signal receiver            |               |                     | PAR-SF9FA-E                                                                                                                                                                                                                                                       |             |                |             |                |      |  |
|                                                                    | Valve kit *6                        |               |                     | PAC-SK35VK-E                                                                                                                                                                                                                                                      |             |                |             |                |      |  |
|                                                                    |                                     |               | 6m Lead wire        | PAC-SK40LW-E                                                                                                                                                                                                                                                      |             |                |             |                |      |  |
|                                                                    |                                     |               | Attachment plate    | PAC-SK39AP-E                                                                                                                                                                                                                                                      |             |                |             |                |      |  |
| Remarks                                                            |                                     |               |                     | * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>* Due to continuing improvement, above specifications may be subject to change without notice. |             |                |             |                |      |  |

## Notes:

- Nominal cooling conditions  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Be sure to install a valve on the water outlet.
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Refer to the section on the valve kit in the chapter "OPTIONAL PARTS" in the DATA BOOK for the restrictions.  
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\*Please group units that operate on 1 branch.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW × 3,412                  |
| cfm   | =m <sup>3</sup> /min × 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.