

Changes for the Better

for a greener tomorrow



AIR CONDITIONING SYSTEMS

HYBRID

CITY MULTI

WD1 for YLM series

Mitsubishi Electric's

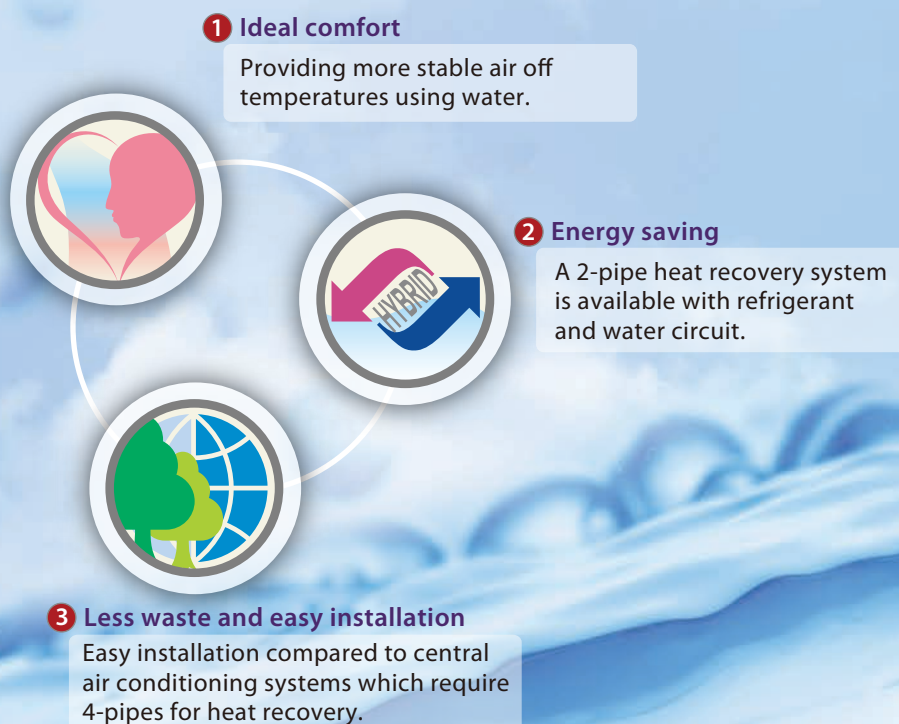


HYBRID CITY MULTI

The VRF industry's first and only Hybrid Technology

As a market leader in the VRF industry, Mitsubishi Electric has developed HYBRID CITY MULTI as a top-of-the-line CITY MULTI system by using the industry's first and only Hybrid Technology.

HYBRID CITY MULTI contains the following three elements of Hybrid Technology.



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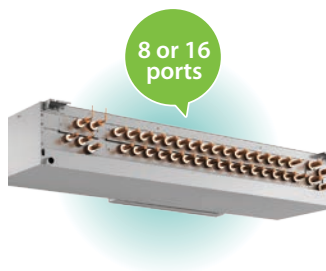
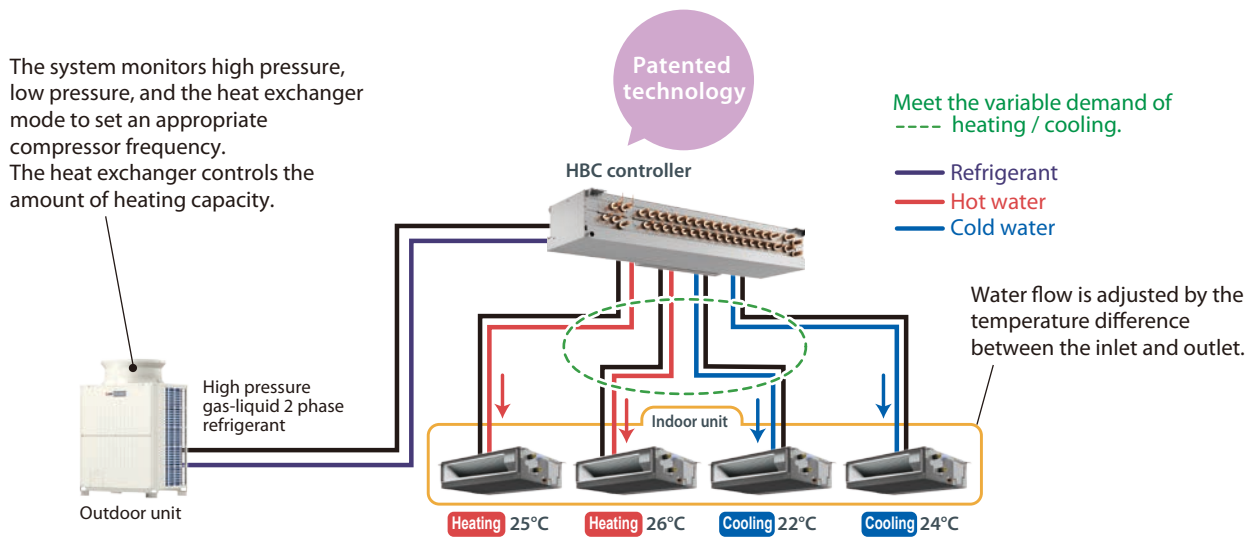
HYBRID CITY MULTI is the industry's first system which uses refrigerant between the outdoor unit and the HBC (Hydro BC Controller), and water between the HBC and the indoor units. The HBC is a very unique part of this system as it allows for heat to be exchanged between the refrigerant and water.

HYBRID CITY MULTI systems use unique Mitsubishi Electric technology to provide milder air-off temperatures. HYBRID CITY MULTI is suitable for a wide variety of installations by allowing centralised control, individual operation, and simultaneous heating and cooling with heat recovery.

What is HYBRID CITY MULTI?

- System Structure -

HYBRID CITY MULTI is a system that uses both refrigerant and water, which is achieved with the development of the HBC. The refrigerant between the outdoor unit and the HBC provides simultaneous heating and cooling, as does the water between the HBC and the indoor units.



■ HBC: the first and only Hybrid Technology

HYBRID CITY MULTI was developed using unique Mitsubishi Electric technology and the HBC.

■ Heat Recovery

The industry's first 2-pipe system allows energy-savings using simultaneous heating and cooling operation as well as heat recovery.

■ Heat exchange

The HBC is the most unique part of the system as it allows for heat to be exchanged between the refrigerant and water.

Reasons why HYBRID CITY MULTI is unbeatable

- Features -



Ideal comfort

● Simultaneous Heating and Cooling Operation

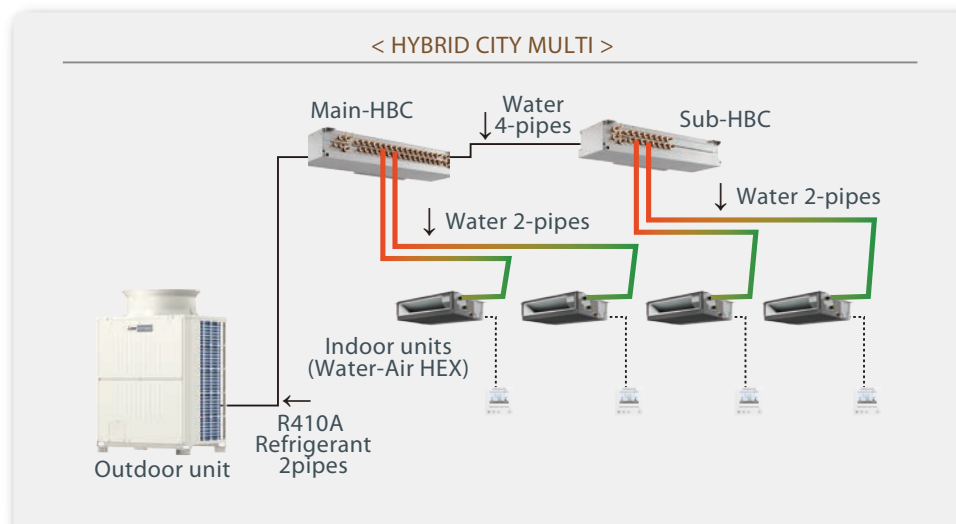
Provides simultaneous heating and cooling to cater to individual needs. With the 2-pipe system, the direction of refrigerant flow will not reverse when the main mode changes. This means that the compressor does not need to stop when the mode is changed.

● Milder Air-off Temperatures

This is achieved via a water system between the HBC and the indoor units. The temperature of the water is very stable all year round. Therefore HYBRID CITY MULTI systems will supply milder off coil temperatures.

● Reduction in Defrost Time

There is no drastic change in room temperature during defrost. HYBRID CITY MULTI uses the heat of the hot water that circulates between the HBC and the indoor units. This means the defrost time is shorter and the average capacity is higher.



- Features -



Energy saving

● Energy Saving

The HYBRID CITY MULTI system is energy efficient, saving more energy by utilising its heat recovery operation. The more frequently simultaneous heating and cooling operation occurs, the higher the energy savings.

● R410A Refrigerant

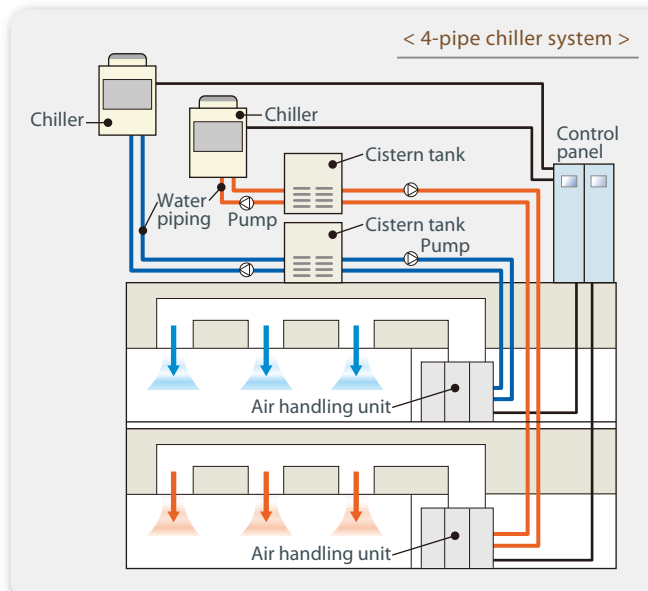
R410A refrigerant allows higher heat transfer over R22. An environmentally-friendly VRF system has been made a reality with significantly higher COPs and the reduction of CO₂ emissions.

| Comparison of COP in heating/cooling average (COP for outdoor unit only, not for the whole system) | 8HP | 10HP |
|---|-------------|-------------|
| R22 system PURY-Y(S)MF-B model | 2.80 | 2.78 |
| CITY MULTI PURY-EP-YLM-A1 model | 3.59 | 3.20 |
| Comparison | 128% | 115% |

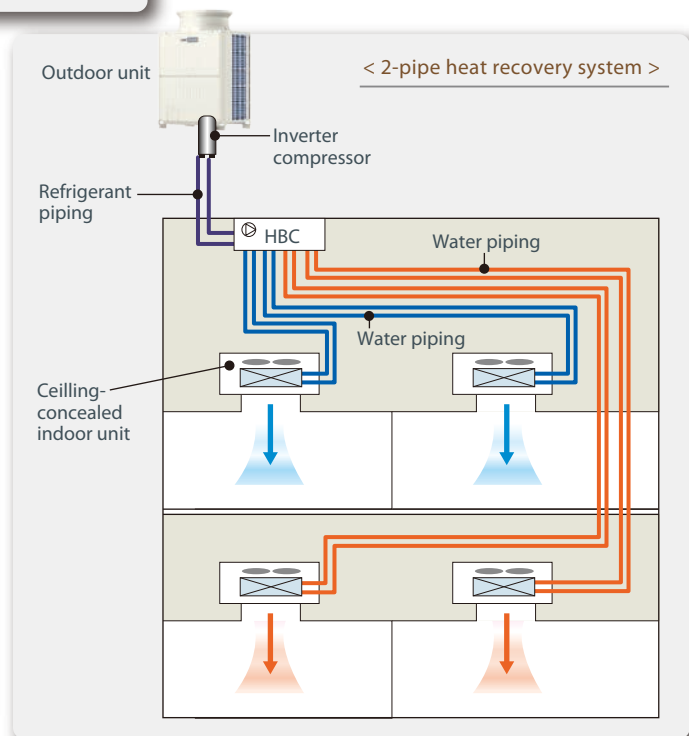


● Less Material and Equipment

The unique Mitsubishi Electric 2-pipe heat recovery system requires less pipes than a 4-pipe chiller system. This system does not need an external pump, tank, and control panel that are usually necessary for chillers. When compared to a chilling system, the 2-pipe heat recovery system offers savings in natural resources throughout the system.



Using an equally reduced number of materials and equipment as VRF



- Features -



Less waste and easy installation

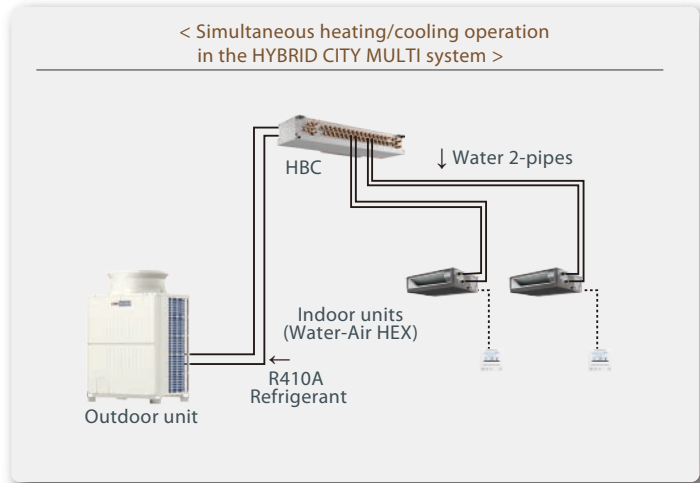
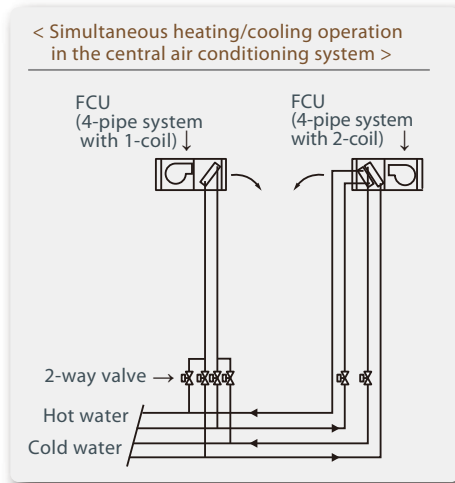
● Easier Installation

This is achieved by the world's first and only 2-pipe system that allows easier installation than a central air conditioning system. For example, a central AC system requires 2 heat source pipes and 4-pipes.

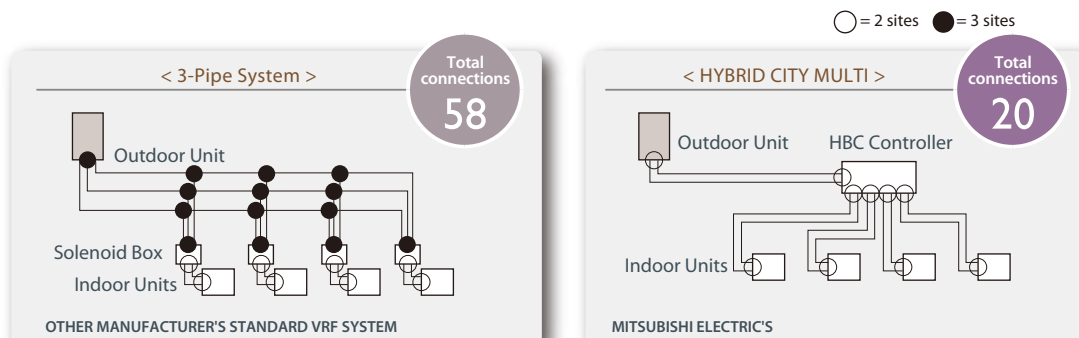
However, with this HVRF 2-pipe system we have drastically reduced the number of piping connections compared to a standard VRF 3-pipe system. A smaller number of piping connections lead to an improvement in reliability and simpler piping installation.

In addition to this, brazing is not necessary with HVRF if plastic water pipe is used between the HBC and the indoor units.

Comparison example of Central Air Conditioning system and HYBRID CITY MULTI



Comparison example of piping connections



- Application Example -

HYBRID CITY MULTI is suitable for various applications that require individual settings (e.g., offices/hotels/hospitals/retirement homes) using centralised control. Similar to standard City Multi VRF, the system allows for flexible building layouts.

for HOTELS

Individual settings and simultaneous heating/cooling operation allows for individual selection of operating modes, while milder air-off temperatures provide a comfortable environment for guests during their stay.



for OFFICES

The requirement for simultaneous heating and cooling operation all year round has increased along with the rise in use of computer equipment and diverse office layouts. This system can provide solutions to meet these demands with heat recovery technology.

for HOSPITALS

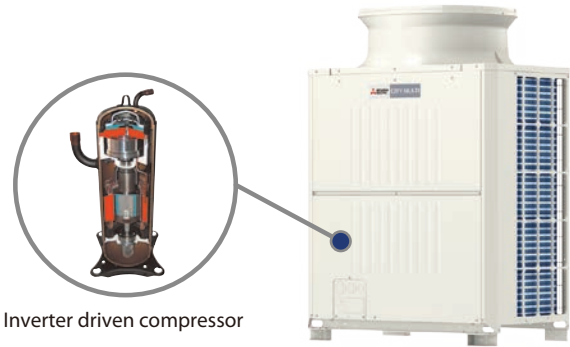
The system can provide appropriate levels of comfort simultaneously for different air conditioning load requirements, in spaces such as medical offices, wards, rehabilitation rooms, and staff rooms.



Lineup

- OUTDOOR UNIT -

CITY MULTI is a heat recovery unit with an inverter driven compressor and can provide heating and cooling simultaneously.

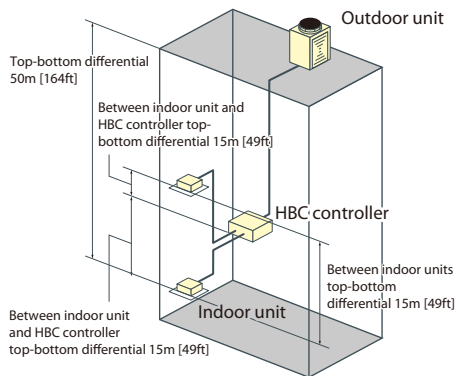


Inverter driven compressor

Lineup

| | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|
| Horse Power | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP |
| Capacity | 22.4kW | 28.0kW | 33.5kW | 40.0kW | 45.0kW | 50.0kW | 56.0kW |

Piping length



Refrigerant Piping Lengths Maximum meters [Feet]

| | |
|-------------------------------------|-----------|
| Distance between outdoor and HBC | 110 [360] |
| Farthest indoor from HBC controller | 60 [196] |

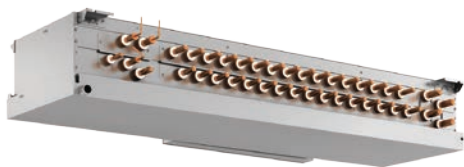
Vertical differentials between units Maximum meters [Feet]

| | |
|---|-----------------------|
| Outdoor/HBC controller (outdoor higher) | 50 [164] |
| Outdoor/HBC controller (outdoor lower) | 40 [131] |
| Indoor/outdoor (outdoor higher) | 50 [164] |
| Indoor/outdoor (outdoor lower) | 40 [131] |
| Indoor/HBC controller | 15 (10) [49 (32)]*1,2 |
| Indoor/indoor | 15 (10) [49 (32)]*2 |
| HBC/HBC controller | 15 (10) [49 (32)]*2 |

*1. Maximum length between HBC controller and indoor is dependent upon the vertical differential between the HBC controller and the indoor unit.

*2. Values in () are applied when indoor total capacity exceeds 130% of outdoor unit capacity

- HBC CONTROLLER -



The "HBC" is used for the connection between the outdoor unit and the indoor units. The heat exchange between refrigerant and water is performed by using this industry first and only Hybrid Technology.

Lineup NEW

| | | |
|------------------|-------------------------------|---------------------------------|
| Model | CMB-WP108V-GA1/CMB-WP108V-GB1 | CMB-WP1016V-GA1/CMB-WP1016V-GB1 |
| Number of branch | 8 | 16 |

- INDOOR UNIT -

- A new slim ceiling-concealed range
- A middle static pressure ceiling-concealed range

These indoor units are exclusive for use with HYBRID CITY MULTI.

Lineup

| Model size | WP15 | WP20 | WP25 | WP32 | WP40 | WP50 |
|-----------------|-------|-------|-------|-------|-------|-------|
| PEFY-WP-VMS1-E | ● | ● | ● | ● | ● | ● |
| PEFY-WP-VMA-E | | ● | ● | ● | ● | ● |
| PLFY-WP-VBM-E | | | | ● | ● | ● |
| PFFY-WP-VLRMM-E | | ● | ● | ● | ● | ● |
| Capacity | 1.7kW | 2.2kW | 2.8kW | 3.6kW | 4.5kW | 5.6kW |



- CONTROLLER -

Remote Controller



PAR-31MAA

Advanced functions

- Error information
- Operation lock
- Language selection
- Timer
- Temperature range restriction



Centralised Controller

With the connection of three Expansion Controllers (AE-50E/EW-50E), a maximum of 200 units/groups can be connected to an AE-200E.



AE-200E

Advanced functions

- Operation setting
- Fan speed setting
- Language selection
- Temperature setting
- Local operation setting

This system also allows the use of other CITY MULTI remote controllers such as PAC-YT52CRA or AT-50B.



PAC-YT52CRA



AT-50B

Specifications



- OUTDOOR UNIT -

| Model | | PURY-P200YLM-A1 (-BS) | PURY-P250YLM-A1 (-BS) | |
|--|-----------------------------|---|---|-------|
| Power source | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | |
| Cooling capacity (Nominal) | *1 kW | 22.4 | 28.0 | |
| | *1 BTU / h | 76,400 | 95,500 | |
| | Power input kW | 7.00 | 9.92 | |
| | Current input A | 11.8-11.2-10.8 | 16.7-15.9-15.3 | |
| | EER kW / kW | 3.20 | 2.82 | |
| Temp. range of cooling | *3 Indoor W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | |
| | *3 Outdoor D.B. | -5.0~46.0°C (23~115°F) | -5.0~46.0°C (23~115°F) | |
| Heating capacity (Nominal) | *2 kW | 25.0 | 31.5 | |
| | *2 BTU / h | 85,300 | 107,500 | |
| | Power input kW | 7.08 | 10.06 | |
| | Current input A | 11.9-11.3-10.9 | 16.9-16.1-15.5 | |
| | COP kW / kW | 3.53 | 3.13 | |
| Temp. range of heating | *3 Indoor D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | |
| | *3 Outdoor W.B. | -20.0~15.5°C (-4~60°F) | -20.0~15.5°C (-4~60°F) | |
| Indoor unit connectable | Total capacity | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity | |
| | Model / Quantity | WP20~WP50/1~20 | WP20~WP50/1~25 | |
| Sound pressure level (measured in anechoic room) | dB <A> | 59 | 60 | |
| Sound power level (measured in anechoic room) | dB <A> | 82.5 | 83.5 | |
| Refrigerant piping diameter | High pressure mm (in.) | 15.88 (5/8) Brazed | 19.05 (3/4) Brazed | |
| | Low pressure mm (in.) | 19.05 (3/4) Brazed | 22.2 (7/8) Brazed | |
| FAN | Type x Quantity | Propeller fan x 1 | Propeller fan x 1 | |
| | Air flow rate | m ³ /min | 185 | 185 |
| | | L/s | 3,083 | 3,083 |
| | | cfm | 6,532 | 6,532 |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | |
| Motor output kW | 0.92 x 1 | 0.92 x 1 | | |
| *4 External static press. | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) | | |
| Compressor | Type x Quantity | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | |
| | Starting method | Inverter | Inverter | |
| | Motor output kW | 5.6 | 6.9 | |
| | Case heater kW | - | - | |
| External finish | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension HxWxD | mm | 1,710 (1,650 without legs) x 920 x 740 | 1,710 (1,650 without legs) x 920 x 740 | |
| | in. | 67-3/8 (65 without legs) x 36-1/4 x 29-3/16 | 67-3/8 (65 without legs) x 36-1/4 x 29-3/16 | |
| Protection devices | High pressure protection | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP/FAN) | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection | |
| | Compressor | - | - | |
| | Fan motor | - | - | |
| Refrigerant | Type x original charge | R410A x 9.5 kg (21 lbs) | R410A x 9.5 kg (21 lbs) | |
| Net weight | kg (lbs) | 205 (452) | 205 (452) | |
| Heat exchanger | | Salt-resistant cross fin & copper tube | Salt-resistant cross fin & copper tube | |
| Defrosting method | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional parts | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
 - 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
 - External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).
- *Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred in the installation manual.
*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

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

*Above specification data is subject to rounding variation.



| Model | | | PURY-P300YLM-A1 (-BS) | PURY-P350YLM-A1 (-BS) |
|--|-----------------------------|------------------------|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 kW | | 33.5 | 40.0 |
| | *1 BTU / h | | 114,300 | 136,500 |
| | Power input kW | | 13.34 | 17.93 |
| | Current input A | | 22.5-21.3-20.6 | 30.2-28.7-27.7 |
| | EER | kW / kW | 2.51 | 2.23 |
| Temp. range of cooling | *3 Indoor | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) |
| | *3 Outdoor | D.B. | -5.0~46.0°C (23~115°F) | -5.0~46.0°C (23~115°F) |
| Heating capacity (Nominal) | *2 kW | | 37.5 | 45.0 |
| | *2 BTU / h | | 128,000 | 153,500 |
| | Power input kW | | 12.71 | 15.51 |
| | Current input A | | 21.4-20.3-19.6 | 26.1-24.8-23.9 |
| | COP | kW / kW | 2.95 | 2.90 |
| Temp. range of heating | *3 Indoor | D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) |
| | *3 Outdoor | W.B. | -20.0~15.5°C (-4~60°F) | -20.0~15.5°C (-4~60°F) |
| Indoor unit connectable | Total capacity | | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity |
| | Model / Quantity | | WP20~WP50/1~30 | WP20~WP50/1~35 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 62.5 | 62.5 |
| Sound power level (measured in anechoic room) | | dB <A> | 86 | 86 |
| Refrigerant piping diameter | High pressure | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Low pressure | mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| FAN | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | m ³ /min | 230 | 230 |
| | | L/s | 3,833 | 3,833 |
| | | cfm | 8,121 | 8,121 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| Motor output | kW | 0.92 x 1 | 0.92 x 1 | |
| *4 External static press. | | | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) |
| Compressor | Type x Quantity | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter |
| | Motor output | kW | 8.1 | 10.5 |
| | Case heater | kW | - | - |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External dimension HxWxD | | mm | 1,710 (1,650 without legs) x 1,220 x 740 | 1,710 (1,650 without legs) x 1,220 x 740 |
| | | in. | 67-3/8 (65 without legs) x 48-1/16 x 29-3/16 | 67-3/8 (65 without legs) x 48-1/16 x 29-3/16 |
| Protection devices | High pressure protection | | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter circuit (COMP/FAN) | | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection |
| | Compressor | | - | - |
| | Fan motor | | - | - |
| Refrigerant | | Type x original charge | R410A x 10.3 kg (23 lbs) | R410A x 10.3 kg (23 lbs) |
| Net weight | | kg (lbs) | 248 (547) | 248 (547) |
| Heat exchanger | | | Salt-resistant cross fin & copper tube | Salt-resistant cross fin & copper tube |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) |
| Optional parts | | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
 - 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
 - External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).
- *Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred in the installation manual.
*Due to continuous improvement, above specifications may be subject to change without notification.

| Unit converter | |
|---|-------------------------------|
| BTU / h | =kW × 3,412 |
| cfm | =m ³ / min × 35.31 |
| lbs | =kg / 0.4536 |
| *Above specification data is subject to rounding variation. | |

- OUTDOOR UNIT -



| Model | | PURY-P400YLM-A1 (-BS) | PURY-P450YLM-A1 (-BS) | |
|--|---|---|---|--------|
| Power source | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | |
| Cooling capacity (Nominal) | *1 kW | 45.0 | 50.0 | |
| | *1 BTU / h | 153,500 | 170,600 | |
| | Power input kW | 16.65 | 17.92 | |
| | Current input A | 28.1-26.7-25.7 | 30.2-28.7-27.7 | |
| | EER kW / kW | 2.70 | 2.79 | |
| Temp. range of cooling | *3 Indoor W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | |
| | Outdoor D.B. | -5.0~46.0°C (23~115°F) | -5.0~46.0°C (23~115°F) | |
| Heating capacity (Nominal) | *2 kW | 45.0 | 56.0 | |
| | *2 BTU / h | 153,500 | 191,100 | |
| | Power input kW | 13.39 | 17.39 | |
| | Current input A | 22.6-21.4-20.6 | 29.3-27.8-26.8 | |
| | COP kW / kW | 3.36 | 3.22 | |
| Temp. range of heating | *3 Indoor D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | |
| | Outdoor W.B. | -20.0~15.5°C (-4~60°F) | -20.0~15.5°C (-4~60°F) | |
| Indoor unit connectable | Total capacity | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity | |
| | Model / Quantity | WP20~WP50/1~40 | WP20~WP50/1~45 | |
| Sound pressure level (measured in anechoic room) | dB <A> | 62.5 | 62.5 | |
| Sound power level (measured in anechoic room) | dB <A> | 86 | 86 | |
| Refrigerant piping diameter | High pressure mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | |
| | Low pressure mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | |
| FAN | Type x Quantity | Propeller fan x 1 | Propeller fan x 2 | |
| | Air flow rate | m ³ /min | 230 | 320 |
| | | L/s | 3,833 | 5,333 |
| | | cfm | 8,121 | 11,299 |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | | |
| Motor output kW | 0.92 x 1 | 0.92 x 2 | | |
| *4 External static press. | 0 Pa (0 mmH ₂ O) | | | |
| Compressor | Type x Quantity | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | |
| | Starting method | Inverter | Inverter | |
| | Motor output kW | 10.9 | 12.4 | |
| | Case heater kW | - | - | |
| External finish | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension HxWxD | mm | 1,710 (1,650 without legs) x 1,220 x 740 | 1,710 (1,650 without legs) x 1,750 x 740 | |
| | in. | 67-3/8 (65 without legs) x 48-1/16 x 29-3/16 | 67-3/8 (65 without legs) x 68-15/16 x 29-3/16 | |
| Protection devices | High pressure protection | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP./FAN) | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection | |
| | Compressor | - | - | |
| | Fan motor | - | - | |
| Refrigerant | Type x original charge | R410A x 10.3 kg (23 lbs) | R410A x 11.8 kg (27 lbs) | |
| Net weight | kg (lbs) | 246 (543) | 321 (708) | |
| Heat exchanger | Salt-resistant cross fin & copper tube | | | |
| Defrosting method | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | | | |
| Optional parts | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 | | | |
| | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Main BC controller: CMB-WP108,1016V-GA1 Sub BC controller: CMB-WP108,1016V-GB1 | | | |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred to in the installation manual.

*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

BTU / h = kW × 3,412
cfm = m³ / min × 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.



| Model | | PURY-P500YLM-A1 (-BS) | |
|---|------------------------------|---|--|
| Power source | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 kW | 56.0 | |
| | *1 BTU / h | 191,100 | |
| | Power input kW | 22.67 | |
| | Current input A | 38.2-36.3-35.0 | |
| | EER | 2.47 | |
| Temp. range of cooling | *3 Indoor | W.B. | 15.0~24.0°C (59~75°F) |
| | Outdoor | D.B. | -5.0~46.0°C (23~115°F) |
| Heating capacity (Nominal) | *2 kW | 58.0 | |
| | *2 BTU / h | 197,900 | |
| | Power input kW | 17.53 | |
| | Current input A | 29.5-28.1-27.0 | |
| | COP | 3.30 | |
| Temp. range of heating | *3 Indoor | D.B. | 15.0~27.0°C (59~81°F) |
| | Outdoor | W.B. | -20.0~15.5°C (-4~60°F) |
| Indoor unit connectable | Total capacity | | 50~150% of outdoor unit capacity |
| | Model / Quantity | | WP20~WP50/1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 63.5 |
| Sound power level (measured in anechoic room) | | dB <A> | 87 |
| Refrigerant piping diameter | High pressure | mm (in.) | 22.2 (7/8) Brazed |
| | Low pressure | mm (in.) | 28.58 (1-1/8) Brazed |
| FAN | Type x Quantity | | Propeller fan x 2 |
| | Air flow rate | m ³ /min | 380 |
| | | L/s | 6,333 |
| | | cfm | 13,418 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor |
| Motor output | kW | 0.92 x 2 | |
| *4 External static press. | | | 0 Pa (0 mmH ₂ O) |
| Compressor | Type x Quantity | | Inverter scroll hermetic compressor |
| | Starting method | | Inverter |
| | Motor output | kW | 13.4 |
| | Case heater | kW | - |
| External finish | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension HxWxD | mm | | 1,710 (1,650 without legs) x 1,750 x 740 |
| | in. | | 67-3/8 (65 without legs) x 68-15/16 x 29-3/16 |
| Protection devices | High pressure protection | | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter circuit (COMP./FAN) | | Over-heat protection, Over-current protection |
| | Compressor | | - |
| | Fan motor | | - |
| Refrigerant | Type x original charge | | R410A x 11.8 kg (27 lbs) |
| Net weight | kg (lbs) | | 321 (708) |
| Heat exchanger | | Salt-resistant cross fin & copper tube | |
| Defrosting method | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional parts | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred to in the installation manual.

*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

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

*Above specification data is subject to rounding variation.

- OUTDOOR UNIT -



| Model | | | PURY-EP200YLM-A1 (-BS) | PURY-EP250YLM-A1 (-BS) |
|--|-----------------------------|-----------------------------|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 kW | | 22.4 | 28.0 |
| | *1 BTU / h | | 76,400 | 95,500 |
| | Power input kW | | 6.27 | 8.77 |
| | Current input A | | 10.5-10.0-9.6 | 14.8-14.0-13.5 |
| | EER | kW / kW | 3.57 | 3.19 |
| Temp. range of cooling | *3 Indoor | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) |
| | *3 Outdoor | D.B. | -5.0~46.0°C (23~115°F) | -5.0~46.0°C (23~115°F) |
| Heating capacity (Nominal) | *2 kW | | 25.0 | 31.5 |
| | *2 BTU / h | | 85,300 | 107,500 |
| | Power input kW | | 6.92 | 9.84 |
| | Current input A | | 11.6-11.0-10.6 | 16.6-15.7-15.2 |
| | COP | kW / kW | 3.61 | 3.20 |
| Temp. range of heating | *3 Indoor | D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) |
| | *3 Outdoor | W.B. | -20.0~15.5°C (-4~60°F) | -20.0~15.5°C (-4~60°F) |
| Indoor unit connectable | Total capacity | | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity |
| | Model / Quantity | | WP20~WP50/1~20 | WP20~WP50/1~25 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 59 | 60 |
| Sound power level (measured in anechoic room) | | dB <A> | 82.5 | 83.5 |
| Refrigerant piping diameter | High pressure | mm (in.) | 15.88 (5/8) Brazed | 19.05 (3/4) Brazed |
| | Low pressure | mm (in.) | 19.05 (3/4) Brazed | 22.2 (7/8) Brazed |
| FAN | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | m ³ /min | 185 | 185 |
| | | L/s | 3,083 | 3,083 |
| | | cfm | 6,532 | 6,532 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| Motor output | kW | 0.92 x 1 | 0.92 x 1 | |
| *4 External static press. | | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) | |
| Compressor | Type x Quantity | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter |
| | Motor output | kW | 5.6 | 6.9 |
| | Case heater | kW | - | - |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External dimension HxWxD | mm | | 1,710 (1,650 without legs) x 920 x 740 | 1,710 (1,650 without legs) x 920 x 740 |
| | in. | | 67-3/8 (65 without legs) x 36-1/4 x 29-3/16 | 67-3/8 (65 without legs) x 36-1/4 x 29-3/16 |
| Protection devices | High pressure protection | | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter circuit (COMP/FAN) | | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection |
| | Compressor | | - | - |
| | Fan motor | | - | - |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | kg (lbs) | | 202 (446) | 202 (446) |
| Heat exchanger | | | Salt-resistant cross fin & aluminium tube | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional parts | | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
 - 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
 - External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).
- *Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred to in the installation manual.
*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

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

*Above specification data is subject to rounding variation.



| Model | | PURY-EP300YLM-A1 (-BS) | PURY-EP350YLM-A1 (-BS) | |
|---|-----------------------------|---|---|-------|
| Power source | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | |
| Cooling capacity (Nominal) | *1 kW | 33.5 | 40.0 | |
| | *1 BTU / h | 114,300 | 136,500 | |
| | Power input kW | 12.05 | 17.16 | |
| | Current input A | 20.3-19.3-18.6 | 28.9-27.5-26.5 | |
| | EER kW / kW | 2.78 | 2.33 | |
| Temp. range of cooling | *3 Indoor W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | |
| | *3 Outdoor D.B. | -5.0~46.0°C (23~115°F) | -5.0~46.0°C (23~115°F) | |
| Heating capacity (Nominal) | *2 kW | 37.5 | 45.0 | |
| | *2 BTU / h | 128,000 | 153,500 | |
| | Power input kW | 11.71 | 15.38 | |
| | Current input A | 19.7-18.7-18.1 | 25.9-24.6-23.7 | |
| Temp. range of heating | *3 Indoor D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | |
| | *3 Outdoor W.B. | -20.0~15.5°C (-4~60°F) | -20.0~15.5°C (-4~60°F) | |
| Indoor unit connectable | Total capacity | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity | |
| | Model / Quantity | WP20~WP50/1~30 | WP20~WP50/1~35 | |
| Sound pressure level (measured in anechoic room) | dB <A> | 62.5 | 62.5 | |
| Sound power level (measured in anechoic room) | dB <A> | 86 | 86 | |
| Refrigerant piping diameter | High pressure mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | |
| | Low pressure mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | |
| FAN | Type x Quantity | Propeller fan x 1 | Propeller fan x 1 | |
| | Air flow rate | m ³ /min | 230 | 230 |
| | | L/s | 3,833 | 3,833 |
| | | cfm | 8,121 | 8,121 |
| | Control, Driving mechanism | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | |
| Motor output kW | 0.92 x 1 | 0.92 x 1 | | |
| *4 External static press. | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) | | |
| Compressor | Type x Quantity | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | |
| | Starting method | Inverter | Inverter | |
| | Motor output kW | 8.1 | 10.5 | |
| | Case heater kW | - | - | |
| External finish | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension HxWxD | mm | 1,710 (1,650 without legs) x 1,220 x 740 | 1,710 (1,650 without legs) x 1,220 x 740 | |
| | in. | 67-3/8 (65 without legs) x 48-1/16 x 29-3/16 | 67-3/8 (65 without legs) x 48-1/16 x 29-3/16 | |
| Protection devices | High pressure protection | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | |
| | Inverter circuit (COMP/FAN) | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection | |
| | Compressor | - | - | |
| | Fan motor | - | - | |
| Refrigerant | Type x original charge | R410A x 8.0 kg (18 lbs) | R410A x 8.0 kg (18 lbs) | |
| Net weight | kg (lbs) | 244 (538) | 244 (538) | |
| Heat exchanger | | Salt-resistant cross fin & aluminium tube | | |
| Defrosting method | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | | |
| Optional parts | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred to in the installation manual.

*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

BTU / h = kW × 3,412
cfm = m³ / min × 35.31
lbs = kg / 0.4536

*Above specification data is subject to rounding variation.

- OUTDOOR UNIT -



| Model | | | PURY-EP400YLM-A1 (-BS) | PURY-EP450YLM-A1 (-BS) |
|--|-----------------------------|---------------------|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 kW | | 45.0 | 50.0 |
| | *1 BTU / h | | 153,500 | 170,600 |
| | Power input kW | | 13.88 | 16.83 |
| | Current input A | | 23.4-22.2-21.4 | 28.4-26.9-26.0 |
| | EER | kW / kW | 3.24 | 2.97 |
| Temp. range of cooling | *3 Indoor | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) |
| | *3 Outdoor | D.B. | -5.0~46.0°C (23~115°F) | -5.0~46.0°C (23~115°F) |
| Heating capacity (Nominal) | *2 kW | | 50.0 | 56.0 |
| | *2 BTU / h | | 170,600 | 191,100 |
| | Power input kW | | 14.12 | 16.86 |
| | Current input A | | 23.8-22.6-21.8 | 28.4-27.0-26.0 |
| | COP | kW / kW | 3.54 | 3.32 |
| Temp. range of heating | *3 Indoor | D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) |
| | *3 Outdoor | W.B. | -20.0~15.5°C (-4~60°F) | -20.0~15.5°C (-4~60°F) |
| Indoor unit connectable | Total capacity | | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity |
| | Model / Quantity | | WP20~WP50/1~40 | WP20~WP50/1~45 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 62.5 | 62.5 |
| Sound power level (measured in anechoic room) | | dB <A> | 86 | 86 |
| Refrigerant piping diameter | High pressure | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed |
| | Low pressure | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | m ³ /min | 320 | 320 |
| | | L/s | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| Motor output | kW | 0.92 x 2 | 0.92 x 2 | |
| *4 | External static press. | | 0 Pa (0 mmH ₂ O) | 0 Pa (0 mmH ₂ O) |
| Compressor | Type x Quantity | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter |
| | Motor output | kW | 10.9 | 12.4 |
| | Case heater | kW | - | - |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> |
| External dimension HxWxD | | mm | 1,710 (1,650 without legs) x 1,750 x 740 | 1,710 (1,650 without legs) x 1,750 x 740 |
| | | in. | 67-3/8 (65 without legs) x 68-15/16 x 29-3/16 | 67-3/8 (65 without legs) x 68-15/16 x 29-3/16 |
| Protection devices | High pressure protection | | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter circuit (COMP/FAN) | | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection |
| | Compressor | | - | - |
| | Fan motor | | - | - |
| Refrigerant | Type x original charge | | R410A x 10.5 kg (24 lbs) | R410A x 11.8 kg (27 lbs) |
| Net weight | kg (lbs) | | 315 (695) | 336 (741) |
| Heat exchanger | | | Salt-resistant cross fin & aluminium tube | |
| Defrosting method | | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional parts | | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | |

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
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 (subject to JIS B8615-2)
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.)
 - 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
 - External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).
- *Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred to in the installation manual.
*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

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

*Above specification data is subject to rounding variation.



| Model | | PURY-EP500YLM-A1 (-BS) | |
|---|------------------------------|---|--|
| Power source | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 kW | 56.0 | |
| | *1 BTU / h | 191,100 | |
| | Power input kW | 21.22 | |
| | Current input A | 35.8-34.0-32.8 | |
| | EER kW / kW | 2.63 | |
| Temp. range of cooling | *3 Indoor W.B. | 15.0~24.0°C (59~75°F) | |
| | Outdoor D.B. | -5.0~46.0°C (23~115°F) | |
| Heating capacity (Nominal) | *2 kW | 63.0 | |
| | *2 BTU / h | 215,000 | |
| | Power input kW | 21.67 | |
| | Current input A | 36.5-34.7-33.4 | |
| | COP kW / kW | 2.90 | |
| Temp. range of heating | *3 Indoor D.B. | 15.0~27.0°C (59~81°F) | |
| | Outdoor W.B. | -20.0~15.5°C (-4~60°F) | |
| Indoor unit connectable | Total capacity | | 50~150% of outdoor unit capacity |
| | Model / Quantity | | WP20~WP50/1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 63.5 |
| Sound power level (measured in anechoic room) | | dB <A> | 87 |
| Refrigerant piping diameter | High pressure mm (in.) | 22.2 (7/8) Brazed | |
| | Low pressure mm (in.) | 28.58 (1-1/8) Brazed | |
| FAN | Type x Quantity | | Propeller fan x 2 |
| | Air flow rate | m ³ /min | 380 |
| | | L/s | 6,333 |
| | | cfm | 13,418 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor |
| | Motor output kW | 0.92 x 2 | |
| *4 External static press. | 0 Pa (0 mmH ₂ O) | | |
| Compressor | Type x Quantity | | Inverter scroll hermetic compressor |
| | Starting method | | Inverter |
| | Motor output kW | 13.4 | |
| | Case heater kW | 0.045 (240 V) | |
| External finish | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar> | |
| External dimension HxWxD | | mm | 1,710 (1,650 without legs) x 1,750 x 740 |
| | | in. | 67-3/8 (65 without legs) x 68-15/16 x 29-3/16 |
| Protection devices | High pressure protection | | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter circuit (COMP./FAN) | | Over-heat protection, Over-current protection |
| | Compressor | | - |
| | Fan motor | | - |
| Refrigerant | Type x original charge | R410A x 11.8 kg (27 lbs) | |
| Net weight | kg (lbs) | 349 (770) | |
| Heat exchanger | | Salt-resistant cross fin & aluminium tube | |
| Defrosting method | | Auto-defrost mode (Reversed refrigerant cycle, Hot gas) | |
| Optional parts | | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-WP108, 1016V-GA1 Sub BC controller: CMB-WP108, 1016V-GB1 | |

Notes:

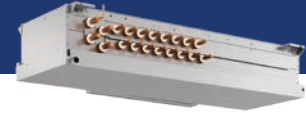
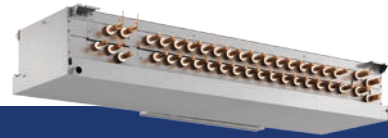
- Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
 - Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C 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.)
 - 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
 - External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).
- *Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items are referred to in the installation manual.
*Due to continuous improvement, above specifications may be subject to change without notification.

Unit converter

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

*Above specification data is subject to rounding variation.

- HBC CONTROLLER - Main-HBC



| Model | | | CMB-WP108V-GA1 | | | | | CMB-WP1016V-GA1 | | | | |
|---|-------------------------|-----------|--|----------------------|------------------------|----------------------|----------------------|--|----------------------|------------------------|----------------------|----------------------|
| Number of branch | | | 8 | | | | | 16 | | | | |
| Power source | | | 1-phase 220-230-240 V | | | | | 1-phase 220-230-240 V | | | | |
| | | | 50 Hz | | 60 Hz | | | 50 Hz | | 60 Hz | | |
| Power input (220/230/240) | Cooling | kW | 0.45/0.46/0.47 | | 0.45/0.46/0.47 | | | 0.45/0.46/0.47 | | 0.45/0.46/0.47 | | |
| | Heating | kW | 0.45/0.46/0.47 | | 0.45/0.46/0.47 | | | 0.45/0.46/0.47 | | 0.45/0.46/0.47 | | |
| Current input (220/230/240) | Cooling | A | 2.89/2.83/2.79 | | 2.89/2.83/2.79 | | | 2.89/2.83/2.79 | | 2.89/2.83/2.79 | | |
| | Heating | A | 2.89/2.83/2.79 | | 2.89/2.83/2.79 | | | 2.89/2.83/2.79 | | 2.89/2.83/2.79 | | |
| Sound pressure level (measured in anechoic room) | | dB <A> | 41 | | | | | 41 | | | | |
| Applicable temperature range of installation site | | °C(D.B.) | 0~32 | | | | | 0~32 | | | | |
| External finish | | | Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating) | | | | | Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating) | | | | |
| Connectable Outdoor unit | | | PURY-P200~500YLM-A1(-BS)/PURY-P400~500YLM-A1(-BS)/ PURY-EP200~500YLM-A1(-BS) | | | | | PURY-P200~500YLM-A1(-BS)/PURY-P400~500YLM-A1(-BS)/ PURY-EP200~500YLM-A1(-BS) | | | | |
| Indoor unit capacity connectable to 1 branch | | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | | | | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | | | | |
| External dimension HxWxD | | mm | 300 x 1,520 x 630 | | | | | 300 x 1,800 x 630 | | | | |
| | | in. | 11-13/16 x 59-7/8 x 24-13/16 | | | | | 11-13/16 x 70-7/8 x 24-13/16 | | | | |
| Refrigerant piping diameter | To Outdoor unit | | Connectable outdoor unit capacity | | | | | Connectable outdoor unit capacity | | | | |
| | | | To P200 | To P250/300 | To P350 | To P400 for each | To P450/500 for each | To P200 | To P250/300 | To P350 | To P400 for each | To P450/500 for each |
| | High press. Pipe (O.D.) | mm(in.) | 15.88 (5/8) Braze | 19.05 (3/4) Braze | 19.05 (3/4) Braze | 15.88 (5/8) Braze | 19.05 (3/4) Braze | 15.88 (5/8) Braze | 19.05 (3/4) Braze | 19.05 (3/4) Braze | 15.88 (5/8) Braze | 19.05 (3/4) Braze |
| Low press. Pipe (O.D.) | | mm(in.) | 19.05 (3/4) Braze | 22.2 (7/8) Braze | 28.58 (1-1/8) Braze | 19.05 (3/4) Braze | 22.2 (7/8) Braze | 19.05 (3/4) Braze | 22.2 (7/8) Braze | 28.58 (1-1/8) Braze | 19.05 (3/4) Braze | 22.2 (7/8) Braze |
| Water piping diameter | To Indoor unit | | | | | | | | | | | |
| | Inlet Pipe(O.D.) | mm | 20 | | | | | 20 | | | | |
| | Outlet Pipe(O.D.) | mm | 20 | | | | | 20 | | | | |
| Field drain pipe size | | mm(in.) | O.D. 32 (1-1/4) | | | | | O.D. 32 (1-1/4) | | | | |
| Net weight | | kg (lbs) | 85 (188) [95 (210) with water] | | | | | 97 (214) [110 (243) with water] | | | | |
| Standard attachment | | Accessory | Drain Connection pipe (with flexible hose and insulation) | | | | | Drain Connection pipe (with flexible hose and insulation) | | | | |
| Optional parts | | | - | | | | | - | | | | |

Notes:

1. Works not included:

Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not included in this specification table.

2. The equipment is for R410A refrigerant.

3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.

(For use in quiet environments with low background noise, position the HBC CONTROLLER at least 5m away from any indoor units.)

4. Please install the HBC controller in a place where noise will not be an issue.

5. Please attach an expansion vessel (field supply).

6. Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework.

Furthermore, when using copper pipework, use a non-oxidative brazing method.

Oxidation of the pipework will reduce the pump life.

7. When brazing the pipes, be sure to braze after placing a wet cloth over the insulation pipes of the units to prevent burning and shrinking.

8. Please install an air purge valve where air will gather in the water circuit.

9. Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.

10. Please refer to the databook or the installation manual for the recommended water quality.

11. This unit is not designed for outside installations.

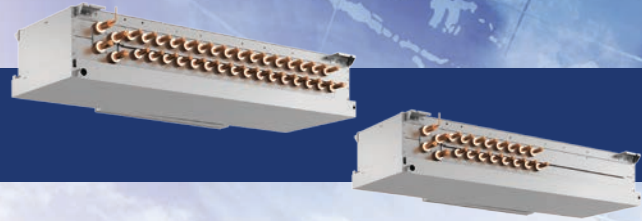
12. Please always make water circulate or pull out the circulation water completely when not using it.

*Please do not use it as a drinking water.

13. Please do not use ground or well water.

14. When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the databook and the installation manual).

Sub-HBC

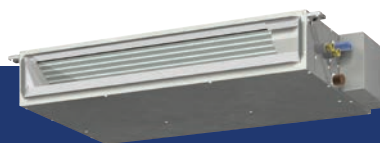


| Model | | | CMB-WP108V-GB1 | | CMB-WP1016V-GB1 | |
|---|------------------------|---|--|---|--|----------------|
| Number of branch | | | 8 | | 16 | |
| Power source | | | 1-phase 220-230-240 V | | 1-phase 220-230-240 V | |
| | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Power input (220/230/240) | Cooling | kW | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 |
| | Heating | kW | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 | 0.01/0.01/0.01 |
| Current input (220/230/240) | Cooling | A | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 |
| | Heating | A | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 | 0.05/0.05/0.05 |
| Sound pressure level (measured in anechoic room) | | dB <A> | - | | - | |
| Applicable temperature range of installation site | | °C(D.B.) | 0~32 | | 0~32 | |
| External finish | | | Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating) | | Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating) | |
| Connectable Outdoor unit | | | - | | - | |
| Indoor unit capacity connectable to 1 branch | | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | | Model P80 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P81) | |
| External dimension HxWxD | | mm | 300 x 1,520 x 630 | | 300 x 1,520 x 630 | |
| | | in. | 11-13/16 x 59-7/8 x 24-13/16 | | 11-13/16 x 59-7/8 x 24-13/16 | |
| Water piping diameter | To Main HBC controller | | | | | |
| | Inlet Pipe (O.D.) | mm(in.) | 20 (13/16) | | 20 (13/16) | |
| | Outlet Pipe (O.D.) | mm(in.) | 20 (13/16) | | 20 (13/16) | |
| | To Indoor unit | | | | | |
| | Inlet Pipe(O.D.) | mm | 20 | | 20 | |
| | Outlet Pipe(O.D.) | mm | 20 | | 20 | |
| Field drain pipe size | | mm(in.) | O.D. 32 (1-1/4) | | O.D. 32 (1-1/4) | |
| Net weight | | kg (lbs) | 43 (95) [48 (106) with water] | | 51 (113) [60 (133) with water] | |
| Standard attachment | Accessory | Drain Connection pipe (with flexible hose and insulation) | | Drain Connection pipe (with flexible hose and insulation) | | |
| Optional parts | | - | | - | | |

Notes:

- Works not included:
Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items are not included in this specification table.
- The equipment is for R410A refrigerant.
- Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the HBC CONTROLLER at least 5m away from any indoor units.)
- Please install the HBC controller in a place where noise will not be an issue.
- Please attach an expansion vessel (field supply).
- Please use copper or plastic pipes for the water circuit. Do not use steel or stainless steel pipework.
Furthermore, when using copper pipework, use a non-oxidative brazing method.
Oxidation of the pipework will reduce the pump life.
- When brazing the pipes, be sure to braze after placing a wet cloth over the insulation pipes of the units to prevent burning and shrinking.
- Please install an air purge valve where air will gather in the water circuit.
- Please install a pressure reducing valve and a strainer on the water supply to the HBC controller.
- Please refer to the databook or the installation manual for the recommended water quality.
- This unit is not designed for outside installations.
- Please always make water circulate or pull out the circulation water completely when not using it.
*Please do not use it as a drinking water.
- Please do not use ground or well water.
- When installing the HBC unit in an environment which may drop below 0 °C, please add antifreeze to the circulating water. (Refer to the databook and the installation manual).

- INDOOR UNIT -



| Model | | | PEFY-WP15VMS1-E | PEFY-WP20VMS1-E | PEFY-WP25VMS1-E | | | |
|---|-------------------------|----------------|---|---|---|-----------------------------|-----------------------------|-----------------|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | | | |
| Cooling capacity (Nominal) | *1 | kW | 1.7 | 2.2 | 2.8 | | | |
| | *1 | kcal/h | 1,500 | 1,900 | 2,400 | | | |
| | *1 | BTU/h | 5,800 | 7,500 | 9,600 | | | |
| | *2 | Power input | kW | 0.050 | 0.051 | 0.060 | | |
| | *2 | Current input | A | 0.44 | 0.49 | 0.51 | | |
| Heating capacity (Nominal) | *3 | kW | 1.9 | 2.5 | 3.2 | | | |
| | *3 | kcal/h | 1,600 | 2,200 | 2,800 | | | |
| | *3 | BTU/h | 6,500 | 8,500 | 10,900 | | | |
| | *2 | Power input | kW | 0.030 | 0.031 | 0.040 | | |
| | *2 | Current input | A | 0.33 | 0.38 | 0.40 | | |
| External finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | | | |
| External dimension H x W x D | | mm | 200 x 790 x 700 | 200 x 790 x 700 | 200 x 790 x 700 | | | |
| | | in. | 7-7/8 x 31-1/8 x 27-9/16 | 7-7/8 x 31-1/8 x 27-9/16 | 7-7/8 x 31-1/8 x 27-9/16 | | | |
| Net weight | | kg(lbs) | 19 (42) | 20 (45) | 20 (45) | | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | | | |
| | | | Water Volume | L | 0.7 | 0.9 | 0.9 | |
| FAN | | | Type x Quantity | Sirocco fan x 2 | Sirocco fan x 2 | | | |
| | | | *4 External static press. | Pa | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> | <5> - 15 - <35> - <50> | |
| | | | | mmHzO | <0.5> - 1.5 - <3.6> - <5.1> | <0.5> - 1.5 - <3.6> - <5.1> | <0.5> - 1.5 - <3.6> - <5.1> | |
| | | | Motor Type | | DC motor | DC motor | DC motor | |
| | | | Motor output | | kW | 0.096 | 0.096 | 0.096 |
| | | | Driving mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | |
| | | | Air flow rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | |
| | | | | | m ³ /min | 5.0 - 6.0 - 7.0 | 5.5 - 6.5 - 8.0 | 5.5 - 7.0 - 9.0 |
| L/s | 83 - 100 - 117 | 92 - 108 - 133 | | | 92 - 117 - 150 | | | |
| | | cfm | 177 - 212 - 247 | 194 - 230 - 282 | 194 - 247 - 318 | | | |
| Sound pressure level (measured in anechoic room) | | *2 dB <A> | (Low-Mid-High) 22-24-28 | (Low-Mid-High) 23-25-29 | (Low-Mid-High) 23-26-30 | | | |
| Insulation material | | | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam | | | |
| Air filter | | | PP honeycomb fabric. | PP honeycomb fabric. | PP honeycomb fabric. | | | |
| Protection device | | | Fuse | Fuse | Fuse | | | |
| Connectable outdoor unit / HBC controller | | | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | | | |
| Water piping diameter | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | | | |
| | *5,6 Outlet | in. | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | | | |
| Field drain pipe size | | mm(in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | | | |
| Standard attachment | Accessory | | Insulation pipe for water pipe, Washer, Drain hose, Tie band | Insulation pipe for water pipe, Washer, Drain hose, Tie band | Insulation pipe for water pipe, Washer, Drain hose, Tie band | | | |
| Optional parts | Control Box Replace kit | | PAC-KE70HS-E | PAC-KE70HS-E | PAC-KE70HS-E | | | |

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.)
- The values are measured at the factory setting of external static pressure.
- 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.)
- The factory setting of external static pressure is shown without < > .
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- 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 any foreign matter.
- Please group units that operate on 1 branch.

Unit converter

| | |
|----------|-------------------------------|
| kcal / h | =kW × 860 |
| BTU / h | =kW × 3,412 |
| cfm | =m ³ / min × 35.31 |
| lbs | =kg / 0.4536 |

*Above specification data is subject to rounding variation.



| Model | | | PEFY-WP32VMS1-E | PEFY-WP40VMS1-E | PEFY-WP50VMS1-E | |
|--|------------------------|---------------|--|--|--|--------------------|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 | kW | 3.6 | 4.5 | 5.6 | |
| | *1 | kcal/h | 3,100 | 3,900 | 4,800 | |
| | *1 | BTU/h | 12,300 | 15,400 | 19,100 | |
| | *2 | Power input | kW | 0.071 | 0.090 | 0.090 |
| | *2 | Current input | A | 0.61 | 0.73 | 0.77 |
| Heating capacity (Nominal) | *3 | kW | 4.0 | 5.0 | 6.3 | |
| | *3 | kcal/h | 3,400 | 4,300 | 5,400 | |
| | *3 | BTU/h | 13,600 | 17,100 | 21,500 | |
| | *2 | Power input | kW | 0.051 | 0.070 | 0.070 |
| | *2 | Current input | A | 0.50 | 0.62 | 0.66 |
| External finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate | |
| External dimension H x W x D | | mm | 200 x 990 x 700 | 200 x 990 x 700 | 200 x 1,190 x 700 | |
| | | in. | 7-7/8 x 39 x 27-9/16 | 7-7/8 x 39 x 27-9/16 | 7-7/8 x 46-7/8 x 27-9/16 | |
| Net weight | | kg(lbs) | 25 (56) | 25 (56) | 27 (60) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | |
| Water Volume | | L | 1.0 | 1.0 | 1.7 | |
| FAN | | | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 4 | |
| *4 | Type x Quantity | | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 4 | |
| | External static press. | Pa mmHzO | <5> - 15 - <35> - <50> <0.5> - 1.5 - <3.6> - <5.1> | <5> - 15 - <35> - <50> <0.5> - 1.5 - <3.6> - <5.1> | <5> - 15 - <35> - <50> <0.5> - 1.5 - <3.6> - <5.1> | |
| Motor Type | | | DC motor | DC motor | DC motor | |
| Motor output | | kW | 0.096 | 0.096 | 0.096 | |
| Driving mechanism | | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor | |
| Air flow rate | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | |
| | | | m ³ /min | 8.0 - 9.0 - 11.0 | 9.5 - 11.0 - 13.0 | 12.0 - 14.0 - 16.5 |
| | | | L/s | 133 - 150 - 183 | 158 - 183 - 217 | 200 - 233 - 275 |
| | | | cfm | 282 - 318 - 388 | 335 - 388 - 459 | 424 - 494 - 583 |
| Sound pressure level (measured in anechoic room) | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | |
| *2 | | dB <A> | 28-30-33 | 30-32-35 | 30-33-36 | |
| Insulation material | | | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam | |
| Air filter | | | PP honeycomb fabric. | PP honeycomb fabric. | PP honeycomb fabric. | |
| Protection device | | | Fuse | Fuse | Fuse | |
| Connectable outdoor unit / HBC controller | | | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | |
| Water piping diameter | *5,6 | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw | |
| | | Outlet | in. | Rc 3/4 screw | Rc 3/4 screw | |
| Field drain pipe size | | mm(in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | |
| Standard attachment | | | Insulation pipe for water pipe, Washer, Drain hose, Tie band | Insulation pipe for water pipe, Washer, Drain hose, Tie band | Insulation pipe for water pipe, Washer, Drain hose, Tie band | |
| Optional parts | | | Control Box Replace kit | PAC-KE70HS-E | PAC-KE70HS-E | |

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.)
- The values are measured at the factory setting of external static pressure.
- 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.)
- The factory setting of external static pressure is shown without < > .
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- 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 any foreign matter.
- Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
 BTU / h =kW × 3,412
 cfm =m³ / min × 35.31
 lbs =kg / 0.4536

*Above specification data is subject to rounding variation.

- INDOOR UNIT -



| Model | | | PEFY-WP20VMA-E | PEFY-WP25VMA-E | |
|--|------------------------|--------------------|--|--|--------------------|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | |
| | *1 | kcal / h | 1,900 | 2,400 | |
| | *1 | BTU / h | 7,500 | 9,600 | |
| | *2 | Power input kW | 0.07 | 0.09 | |
| | *2 | Current input A | 0.55 | 0.64 | |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | |
| | *3 | kcal / h | 2,200 | 2,800 | |
| | *3 | BTU / h | 8,500 | 10,900 | |
| | *2 | Power input kW | 0.05 | 0.07 | |
| | *2 | Current input A | 0.44 | 0.53 | |
| External finish | | | Galvanized steel plate | Galvanized steel plate | |
| External dimension HxWxD | | mm | 250 x 700 x 732 | 250 x 900 x 732 | |
| | | in. | 9-7/8 x 27-9/16 x 28-7/8 | 9-7/8 x 35-7/16 x 28-7/8 | |
| Net weight | | kg(lbs) | 21 (47) | 26 (58) | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | |
| FAN | | Water Volume L | 0.7 | 1.0 | |
| | | Type x Quantity | Sirocco fan x 1 | Sirocco fan x 1 | |
| *4 | External static press. | Pa | <35> - 50 - <70> - <100> - <150> | <35> - 50 - <70> - <100> - <150> | |
| | | mmH ₂ O | <3.6> - 5.1 - <7.1> - <10.2> - <15.3> | <3.6> - 5.1 - <7.1> - <10.2> - <15.3> | |
| | | Motor Type | DC motor | DC motor | |
| | | Motor output kW | 0.085 | 0.085 | |
| | | Driving mechanism | Direct-driven by motor | Direct-driven by motor | |
| | | Air flow rate | (Low-Mid-High) | (Low-Mid-High) | |
| | | | m ³ / min | 7.5 - 9.0 - 10.5 | 10.0 - 12.0 - 14.0 |
| | | | L/s | 125 - 150 - 175 | 167 - 200 - 233 |
| | | | cfm | 265 - 318 - 371 | 353 - 424 - 494 |
| Sound pressure level (measured in anechoic room) | | *2 dB<A> | (Low-Mid-High) 23-26-29 | (Low-Mid-High) 23-27-30 | |
| Insulation material | | | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam | |
| Air filter | | | PP honeycomb fabric. | PP honeycomb fabric. | |
| Protection devices | | | Fuse | Fuse | |
| Connectable outdoor unit / HBC controller | | | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | |
| Water piping diameter *5,6 | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw | |
| | Outlet | in. | Rc 3/4 screw | Rc 3/4 screw | |
| Field drain pipe size | | mm(in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | |
| Standard attachment | Accessory | | Insulation pipe for water pipe, Washer, Drain hose, Tie band | Insulation pipe for water pipe, Washer, Drain hose, Tie band | |
| Optional parts | | Filter box | PAC-KE91TB-E | PAC-KE92TB-E | |

Notes :

1. Nominal cooling conditions

Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2. The values are measured at the factory setting of external static pressure.

3. Nominal heating conditions

Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

4. The factory setting of external static pressure is shown without <>.

Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

5. Be sure to install a valve on the water outlet.

6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove any foreign matter.

7. Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860

BTU / h =kW × 3,412

cfm =m³ / min × 35.31

lbs =kg / 0.4536

* Above specification data is subject to rounding variation.



| Model | | | PEFY-WP32VMA-E | PEFY-WP40VMA-E | PEFY-WP50VMA-E |
|---|------------------------|----------------------|---|---|---|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 3.6 | 4.5 | 5.6 |
| | *1 | kcal / h | 3,100 | 3,900 | 4,800 |
| | *1 | BTU / h | 12,300 | 15,400 | 19,100 |
| | *2 | Power input | kW | 0.11 | 0.14 |
| | *2 | Current input | A | 0.74 | 1.15 |
| Heating capacity (Nominal) | *3 | kW | 4.0 | 5.0 | 6.3 |
| | *3 | kcal / h | 3,400 | 4,300 | 5,400 |
| | *3 | BTU / h | 13,600 | 17,100 | 21,500 |
| | *2 | Power input | kW | 0.09 | 0.12 |
| | *2 | Current input | A | 0.63 | 1.04 |
| External finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External dimension HxWxD | | mm | 250 x 900 x 732 | 250 x 1,100 x 732 | 250 x 1,100 x 732 |
| | | in. | 9-7/8 x 35-7/16 x 28-7/8 | 9-7/8 x 43-5/16 x 28-7/8 | 9-7/8 x 43-5/16 x 28-7/8 |
| Net weight | | kg(lbs) | 26 (58) | 31 (69) | 31 (69) |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| Water Volume | | L | 1.0 | 1.8 | 1.8 |
| FAN | | | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 |
| *4 | External static press. | Pa | <35> - 50 - <70> - <100> - <150> | <35> - 50 - <70> - <100> - <150> | <35> - 50 - <70> - <100> - <150> |
| | | mmH ₂ O | <3.6> - 5.1 - <7.1> - <10.2> - <15.3> | <3.6> - 5.1 - <7.1> - <10.2> - <15.3> | <3.6> - 5.1 - <7.1> - <10.2> - <15.3> |
| Motor Type | | | DC motor | DC motor | DC motor |
| Motor output | | kW | 0.085 | 0.121 | 0.121 |
| Driving mechanism | | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| Air flow rate | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | m ³ / min | 12.0 - 14.5 - 17.0 | 14.5 - 18.0 - 21.0 | 14.5 - 18.0 - 21.0 |
| | | L/s | 200 - 242 - 283 | 242 - 300 - 350 | 242 - 300 - 350 |
| | | cfm | 424 - 512 - 600 | 512 - 636 - 742 | 512 - 636 - 742 |
| Sound pressure level (measured in anechoic room) | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| *2 | | dB<A> | 25-29-32 | 26-29-34 | 26-29-34 |
| Insulation material | | | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam | EPS, Polyethylene foam, Urethane foam |
| Air filter | | | PP honeycomb fabric. | PP honeycomb fabric. | PP honeycomb fabric. |
| Protection devices | | | Fuse | Fuse | Fuse |
| Connectable outdoor unit / HBC controller | | | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 |
| Water piping | | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw |
| diameter | | *5,6 | Outlet | in. | Rc 3/4 screw |
| Field drain pipe size | | | mm(in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Standard attachment | | | Accessory | Insulation pipe for water pipe, Washer, Drain hose, Tie band | Insulation pipe for water pipe, Washer, Drain hose, Tie band |
| Optional parts | | | Filter box | PAC-KE92TB-E | PAC-KE93TB-E |

Notes :

1. Nominal cooling conditions

Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2. The values are measured at the factory setting of external static pressure.

3. Nominal heating conditions

Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

4. The factory setting of external static pressure is shown without < > .

Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

5. Be sure to install a valve on the water outlet.

6. Install a strainer (40 mesh or more) on the pipe next to the valve to remove any foreign matter.

7. Please group units that operate on 1 branch.

Unit converter

kcal / h =kW × 860
BTU / h =kW × 3,412
cfm =m³ / min × 35.31
lbs =kg / 0.4536

* Above specification data is subject to rounding variation.

NEW



- INDOOR UNIT -

| Model | | PLFY-WP32VBM-E | PLFY-WP40VBM-E | PLFY-WP50VBM-E |
|---|----------------------------------|---|--|--|
| Power source | | 1-phase 220-230-240 V 50/60Hz | 1-phase 220-230-240 V 50/60Hz | 1-phase 220-230-240 V 50/60Hz |
| Cooling capacity | *1 kW | 3.6 | 4.5 | 5.6 |
| | *1 kcal/h | 3,100 | 3,900 | 4,800 |
| | *1 BTU/h | 12,300 | 15,400 | 19,100 |
| | Power input kW | 0.04 | 0.04 | 0.05 |
| | Current input A | 0.35 | 0.35 | 0.45 |
| Heating capacity | *2 kW | 4.0 | 5.0 | 6.3 |
| | *2 kcal/h | 3,400 | 4,300 | 5,400 |
| | *2 BTU/h | 13,600 | 17,100 | 21,500 |
| | Power input kW | 0.03 | 0.03 | 0.04 |
| | Current input A | 0.28 | 0.28 | 0.38 |
| External finish | | Galvanized steel sheet | Galvanized steel sheet | Galvanized steel sheet |
| External dimension H x W x D | mm | 258 x 840 x 840 | 258 x 840 x 840 | 258 x 840 x 840 |
| | in. | 10-3/16 x 33-3/32 x 33-3/32 | 10-3/16 x 33-3/32 x 33-3/32 | 10-3/16 x 33-3/32 x 33-3/32 |
| Net weight | | kg(lbs) | 22(49) | 22(49) |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| Water Volume | | L | 1.5 | 1.5 |
| FAN | Type x Quantity | | Turbo Fan x 1 | Turbo Fan x 1 |
| | External static press | Pa | 0 | 0 |
| | Motor Type | | DC motor | DC motor |
| | Motor output | kW | 0.05 | 0.05 |
| | Driving mechanism | | Direct-driven by motor | Direct-driven by motor |
| | Air flow rate | | (Low-Mid1-Mid2-High) | (Low-Mid1-Mid2-High) |
| | | m ³ /min | 13 - 14 - 15 - 16 | 13 - 14 - 15 - 16 |
| | L/s | 217 - 233 - 250 - 267 | 217 - 233 - 250 - 267 | |
| | cfm | 459 - 494 - 530 - 565 | 459 - 494 - 530 - 565 | |
| Sound pressure level | | (Low-Mid1-Mid2-High) | (Low-Mid1-Mid2-High) | (Low-Mid1-Mid2-High) |
| | dB <A> | 27 - 29 - 30 - 31 | 27 - 29 - 30 - 31 | 27 - 30 - 32 - 34 |
| Insulation material | | PS | PS | PS |
| Air filter | | PP honeycomb | PP honeycomb | PP honeycomb |
| Protection device | | Fuse | Fuse | Fuse |
| Refrigerant control device | | - | - | - |
| Connectable Outdoor unit/HBC controller | | CITY MULTI YLM series/CMB-WP-V-GA1/CMB-WP-V-GB1 | | |
| Water piping diameter *3,4 | Inlet | in. | Rc 3/4 screw | Rc 3/4 screw |
| | Outlet | in. | Rc 3/4 screw | Rc 3/4 screw |
| Field drain pipe size | | mm(in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Optional parts | Decoration panel | *5 | PLP-6BA | PLP-6BA |
| | Automatic filter elevation panel | *5 | PLP-6BAJ | PLP-6BAJ |
| | Space panel | | PAC-SH48AS-E | PAC-SH48AS-E |
| | Air outlet shutter plate | | PAC-SH51SP-E | PAC-SH51SP-E |
| | High efficiency filter element | *6 | PAC-SH59KF-E | PAC-SH59KF-E |
| | Multi-function casement | | PAC-SH53TM-E | PAC-SH53TM-E |
| | i-see sensor corner panel | | PAC-SA1ME-E | PAC-SA1ME-E |
| | Flange for fresh air intake | | PAC-SH65OF-E | PAC-SH65OF-E |
| Wireless signal receiver | | | PAR-SF9FA-E | PAR-SF9FA-E |

Notes :

- Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
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 any foreign matter.
- PLFY-WP-VBM-E should use together with PLP-6BA(J).
- PAC-SH53TM-E is necessary to use with filter PAC-SH59KF-E.
- Please group units that operate on 1 branch.

Unit converter

kcal / h =kW x 860
 BTU / h =kW x 3,412
 cfm =m³ / min x 35.31
 lbs =kg / 0.4536

*Above specification data is subject to rounding variation.



| Model | | PFFY-WP20VLRMM-E | PFFY-WP25VLRMM-E | PFFY-WP32VLRMM-E |
|---|------------------------|--|--------------------------------|--|
| Power source | | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz | 1-phase 220-230-240 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 kW | 2.2 | 2.8 | 3.6 |
| | *1 kcal/h | 1,900 | 2,400 | 3,100 |
| | *1 BTU/h | 7,500 | 9,600 | 12,300 |
| | *2 Power input kW | 0.040 | 0.040 | 0.050 |
| | *2 Current input A | 0.35 | 0.35 | 0.47 |
| | | | | |
| Heating capacity (Nominal) | *3 kW | 2.5 | 3.2 | 4.0 |
| | *3 kcal/h | 2,200 | 2,800 | 3,400 |
| | *3 BTU/h | 8,500 | 10,900 | 13,600 |
| | *2 Power input kW | 0.040 | 0.040 | 0.050 |
| | *2 Current input A | 0.35 | 0.35 | 0.47 |
| | | | | |
| External finish | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External dimension H x W x D | | mm | 639 x 886 x 220 | 639 x 1,006 x 220 |
| | | in. | 25-3/16 x 34-15/16 x 8-11/16 | 25-3/16 x 39-5/8 x 8-11/16 |
| Net weight | | kg(lbs) | 22 (49) | 25 (56) |
| Heat exchanger | | Cross fin (Aluminum fin and copper tube) | | Cross fin (Aluminum fin and copper tube) |
| | | Water Volume L | 0.9 | 1.3 |
| FAN | | Sirocco fan x 1 | | Sirocco fan x 2 |
| *4 | Type x Quantity | | Sirocco fan x 2 | |
| | External static press. | Pa | 20 - <40> - <60> | 20 - <40> - <60> |
| | | mmHzO | 2.0 - <4.1> - <6.1> | 2.0 - <4.1> - <6.1> |
| | Motor Type | | DC motor | |
| | Motor output kW | | 0.096 | |
| | Driving mechanism | | Direct-driven by motor | |
| | Air flow rate | | (Low-Mid-High) | |
| | | | m ³ /min | 4.5 - 5.0 - 6.0 |
| | | | L/s | 75 - 83 - 100 |
| | | | cfm | 159 - 177 - 212 |
| Sound pressure level (measured in anechoic room) *2 dB <A> | | (Low-Mid-High) | | |
| | | 31-33-38 | | |
| Insulation material | | Polyethylene foam, Urethane foam | | |
| Air filter | | PP honeycomb fabric. | | |
| Protection device | | Fuse | | |
| Connectable outdoor unit/HBC controller | | CITY MULTI YLM series/ CMB-WP-V-GA1/CMB-WP-V-GB1 | | |
| Water piping diameter *5,6 | Inlet in. | Rc 3/4 screw | | |
| | Outlet in. | Rc 3/4 screw | | |
| Field drain pipe size | | mm(in.) I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))> | | |
| Standard attachment | | Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band | | |

Notes :

- Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- The values are measured at the factory setting of external static pressure.
- Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- 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 any foreign matter.
- Please group units that operate on 1 branch.

Unit converter

| | |
|----------|-------------------------------|
| kcal / h | =kW × 860 |
| BTU / h | =kW × 3,412 |
| cfm | =m ³ / min × 35.31 |
| lbs | =kg / 0.4536 |

*Above specification data is subject to rounding variation.

- INDOOR UNIT -



| Model | | | PFFY-WP40VLRMM-E | PFFY-WP50VLRMM-E | |
|---|------------------------|---------------------|--|------------------|-------|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 4.5 | 5.6 | |
| | *1 | kcal/h | 3,900 | 4,800 | |
| | *1 | BTU/h | 15,400 | 19,100 | |
| | *2 | Power input | kW | 0.050 | 0.070 |
| | *2 | Current input | A | 0.47 | 0.65 |
| Heating capacity (Nominal) | *3 | kW | 5.0 | 6.3 | |
| | *3 | kcal/h | 4,300 | 5,400 | |
| | *3 | BTU/h | 17,100 | 21,500 | |
| | *2 | Power input | kW | 0.050 | 0.070 |
| | *2 | Current input | A | 0.47 | 0.65 |
| External finish | | | Galvanized steel plate | | |
| External dimension H x W x D | | | mm | | |
| | | | 639 x 1,246 x 220 | | |
| | | | in. | | |
| | | | 25-3/16 x 49-1/16 x 8-11/16 | | |
| Net weight | | | kg(lbs) | | |
| | | | 29 (64) | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | |
| Water Volume | | | L | | |
| | | | 1.5 | | |
| FAN | | | Sirocco fan x 2 | | |
| *4 | Type x Quantity | Sirocco fan x 2 | | | |
| | External static press. | Pa | 20 - <40> - <60> | | |
| mmHzO | | 2.0 - <4.1> - <6.1> | | | |
| Motor Type | | | DC motor | | |
| Motor output | | | kW | | |
| | | | 0.096 | | |
| Driving mechanism | | | Direct-driven by motor | | |
| Air flow rate | | | (Low-Mid-High) | | |
| | | | m ³ /min | | |
| | | | 8.0 - 10.0 - 11.5 | | |
| | | | 10.5 - 13.0 - 15.0 | | |
| | | | L/s | | |
| | | | 133 - 167 - 192 | | |
| | | | cfm | | |
| | | | 282 - 353 - 406 | | |
| Sound pressure level (measured in anechoic room) | | | (Low-Mid-High) | | |
| | | | dB <A> | | |
| | | | 34-37-40 | | |
| Insulation material | | | Polyethylene foam, Urethane foam | | |
| Air filter | | | PP honeycomb fabric. | | |
| Protection device | | | Fuse | | |
| Connectable outdoor unit/HBC controller | | | CITY MULTI YLM series/CMB-WP-V-GA1/CMB-WP-V-GB1 | | |
| Water piping | | | Rc 3/4 screw | | |
| diameter | Inlet | in. | Rc 3/4 screw | | |
| | *5,6 Outlet | in. | Rc 3/4 screw | | |
| Field drain pipe size | | | mm(in.) | | |
| | | | I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end: O.D.20 (13/16))> | | |
| Standard attachment | | | Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band | | |
| Accessory | | | Insulation pipe for water pipe, Drain hose (flexible joint), Screw plate, Level adjusting screw, Hose band | | |

Notes :

- Nominal cooling conditions
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB. (95°FDB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- The values are measured at the factory setting of external static pressure.
- Nominal heating conditions
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- The factory setting of external static pressure is shown without < > .
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- 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 any foreign matter.
- Please group units that operate on 1 branch.

Unit converter

| | |
|----------|-------------------------------|
| kcal / h | =kW × 860 |
| BTU / h | =kW × 3,412 |
| cfm | =m ³ / min × 35.31 |
| lbs | =kg / 0.4536 |

*Above specification data is subject to rounding variation.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



FM33568 / ISO 9001:2008

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality management for the production of refrigeration and air conditioning equipment.

ISO Authorization System

The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO). Registered on March 10, 1998.

Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
 - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air-conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A.

MEE14K022

For more information on Mitsubishi Electric City Multi, please call our customer service team on 0800 784 382



www.mitsubishi-electric.co.nz

WELLINGTON HEAD OFFICE

1 Parliament Street
PO Box 30772
Lower Hutt 5040

Phone (04) 560 9147
Fax (04) 560 9133

AUCKLAND BRANCH

Unit 1, 4 Walls Road
PO Box 12726
Penrose, Auckland 1642

Phone (09) 526 9347
Fax (09) 526 9369

CHRISTCHURCH BRANCH

44 Halwyn Drive
PO Box 16904
Hornby, Christchurch 8441

Phone (03) 341 2837
Fax (03) 341 2838



Black Diamond Technologies

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