MITSUBISHI ELECTRIC MULTIPLE SPLIT TYPE AIR CONDITIONERS R410A Series

⚠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 equipments and heat pumps contain a fluorinated greenhouse gas, R410A.

MITSUBISHI ELECTRIC CORPORATION

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Due to printing consideration, the actual colors may vary slightly from those shown inside brochure.

R410A CITY MULTI

MITSUBISHI ELECTRIC CORPORATION

MITSUBISHI ELECTRIC

*Changes for the Better*

AIR CONDITIONING SYSTEMS

# CITY MULTI


**CM23AS-Y**

CITY MULTI YKE-Series

# Further Enhanced Energy Saving

Saving energy is becoming ever more important all around the world.
Mitsubishi Electric is at the forefront of this development,
with advanced products that realize high-quality energy saving solutions
for customers in all fields.


## High rated performance

Compared to the conventional series, all models of the YKE series (8 to 60HP) have improved rated EER/COP. This means less energy will be consumed during peak hours, such as high-temperature periods in the daytime.

## High partial-load performance

The YKE-Series surpass the conventional series not only in rated specifications but also in terms of partial-load performance. During mornings and evenings, when the temperature is lower and less cooling power is required, better efficiency also enables significant energy savings.

## Energy saving assist function

The functions makes it possible to optimize energy saving performance by closely matching the requirements of the installation location. This makes it possible to achieve results that surpass the specifications of the product, contributing to truly energy-saving buildings.

# S-series

## PUMY

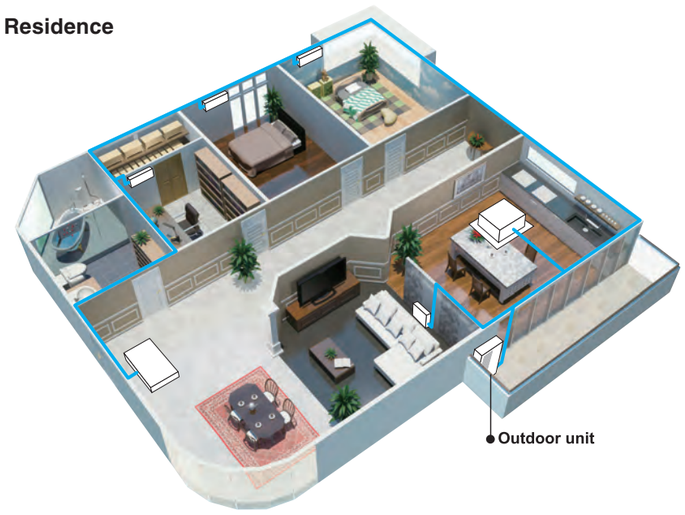
The line-up of side-flow type outdoor units includes models from 7 HP to 12 HP, which offers flexibility in installations in tight spaces. This type is suitable for small-scale offices and residences. 1-phase type (VKM).

**Cooling only**

- PUMY-CP YKM2
- PUMY-CP YBM2

**Installation image**

**Residence**




### Advantage of PUMY (for residences)

One outdoor unit (10 HP-12 HP) can be connected up to 29 indoor units (P15-250). Even when indoor units are installed in many rooms, one outdoor unit can connect multiple indoor units.

↓

**Space savings**

## Wide selection from 4 HP up to 12 HP

| Model | 175 | 200 | 225 | 250 | 300 |
|---|---|---|---|---|---|
| Cooling only | CP175-225YKM2 | | | CP250-300YBM2 | |

10-12 HP (P250-P300) is available!

### Cooling only

CP175-225

CP250-300

## Features

### ①Operation guaranteed at an outside air temperature of up to 46°C.

- New inverter technology has made it possible for units to operate at an outdoor air temperature as high as 46°C.

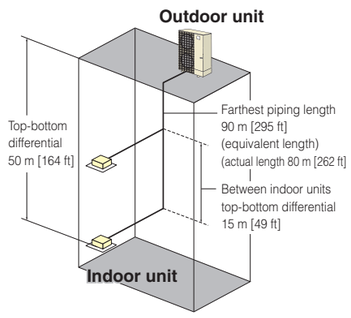
### ②Quiet mode

All models have three quiet modes in addition to the normal mode, and a suitable noise mode can be selected from among the four available modes. The noise level can be set according to the application, for example, in a residential zone where noise may be an issue.

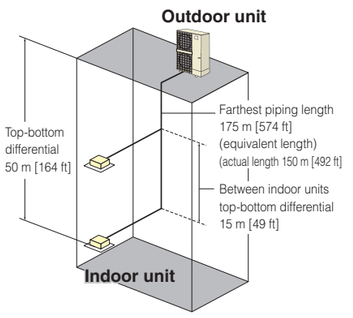
* Capacity reduction differs by mode setting.
* PAC-SC36NA-E is required to activate this mode.
* Available during cooling only.

## Piping length

**[CP175-225YKM2]**




**[CP250-300YBM2]**




| Refrigerant Piping Lengths (Maximum meters [feet]) | |
|---|---|
| Total length | 150 [492] |
| Maximum allowable length | 80 (90 equivalent) [262 (295)] |
| Farthest indoor from first branch | 30 [98] |

| Vertical differentials between units (Maximum meters [feet]) | |
|---|---|
| Indoor/outdoor (outdoor higher) | 50 [164] |
| Indoor/outdoor (outdoor lower) | 40 [131] |
| Indoor/indoor | 15 [49] |

| Refrigerant Piping Lengths (Maximum meters [feet]) | |
|---|---|
| Total length | 310 [1,017] |
| Maximum allowable length | 150 (175 equivalent) [492 (574)] |
| Farthest indoor from first branch | 30 [98] |

| Vertical differentials between units (Maximum meters [feet]) | |
|---|---|
| Indoor/outdoor (outdoor higher) | 50 [164] |
| Indoor/outdoor (outdoor lower) | 40 [131] |
| Indoor/indoor | 15 [49] |

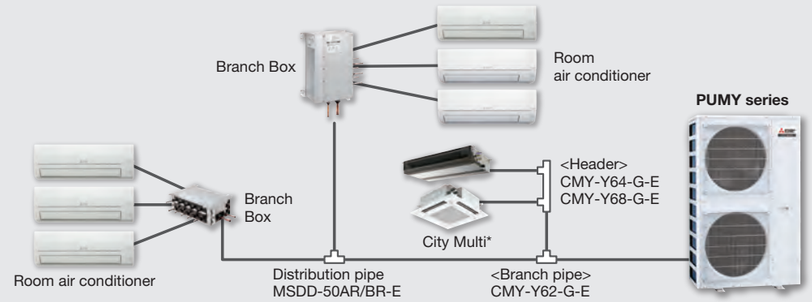
*1 Use liquid pipe of ø9.52 for less than P50 indoor units, when farthest length from the first branch exceeds 30m.

# Features of the Branch Box

**Connecting branch boxes makes it possible to connect to Mitsubishi Electric indoor units (room air conditioners, Mr. SLIM) that do not normally support M-NET connections.**


## System example

The use of branch boxes makes it possible for PUMY-Series devices to connect not only to CITY MULTI indoor units but also to Mitsubishi Electric indoor units that do not normally support M-NET connections. Thus it is possible to connect to room air conditioners and Mr. SLIM indoor units, allowing for a selection specifically designed to suit how the room is being used.



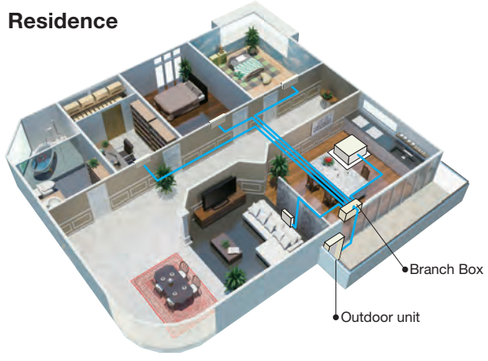

*PKFY-P15/20/25/32 VLM, PFFY-P**VKM, PFFY-P**VLEM and PFFY-P**VCM cannot be used in the mixed system with 4 to 5.5HP and 10 to 12HP outdoor units.

## Specifications

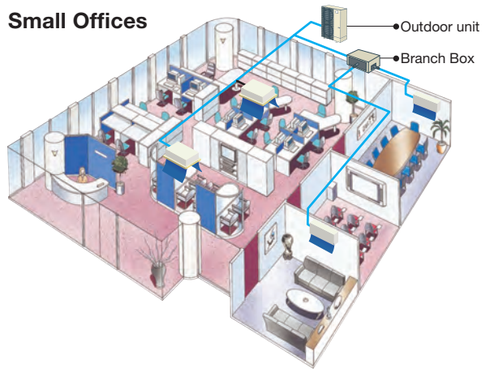
| Model | | | | PAC-MK54BC | PAC-MK34BC |
|---|---|---|---|---|---|
| Connectable Number of Indoor Units | | | | Max. 5 | Max. 3 |
| Power Supply | Source | | | Outdoor power supply, Branch Box / Outdoor separate power supply | |
| | Outdoor (V/Phase/Hz) | | | 1-phase, 220/230/240V, 50Hz, 1-phase, 220/230V, 60Hz | |
| Total Input | | | kW | 0.003 | |
| Operating Current | | | A | 0.05 | |
| Dimensions H x W x D | | | mm | 170 × 450 × 280 | |
| Weight | | | kg | 7.4 | 6.7 |
| Piping (diameter) | Branch (Indoor Side) | Liquid | mm | 6.35 × 5 | 6.35 × 3 |
| | | Gas | mm | 9.52 × 4, 12.7 × 1 | 9.52 × 3 |
| | Main (Outdoor Side) | Liquid | mm | 9.52 | |
| | | Gas | mm | 15.88 | |
| | Connection Method | | | Flared | |
| Wiring | to Indoor Unit | | | 3-wire + Earth wire | |
| | to Outdoor Unit | | | 3-wire + Earth wire | |

## Installation image

**Residence**




**Small Offices**




Consolidating heat sources for room air conditioners, which require a 1:1 connection between the outdoor unit and indoor unit, and reducing installation space is possible.
Because the branch box can be installed indoors or outdoors and mounted on a wall, ceiling, or floor, it is possible to meet the requirements of various installation situations flexibly.

*Please refer to installation manual for installation restrictions.



## Precautions for unit construction

- The capacity and number of indoor units when using a branch box differs from situations when no branch box is used. Refer to the installation manual for the each outdoor unit for more information. Moreover, the indoor unit lineup varies from country to country, so contact your local distributor for details.
- Capacity calculations for the entire system will depend on the connected indoor unit. Refer to the installation manual for more information.
- Piping lengths also differ when using a branch box. Refer to the installation manual for the each outdoor unit for more information.

## Comparison of Piping Lengths for PUMY-Series Models

| | | | Maximum Meter | | | |
|---|---|---|---|---|---|---|
| | | | Only City Multi *1 Indoor Unit | Only Branch Box Connection | Mixed System (City Multi *1 Indoor Unit + Branch Box) | |
| | | | | | City Multi *1 Indoor Unit | Via Branch Box |
| CP250/300 | Refrigerant Piping Length | Total Length | 310 | 240 | 310 | |
| | | Maximum Allowable Length | 150 (175 equivalent) *2 | 80 | 85 (95 equivalent) *2 | 80 |
| | | Farthest Indoor From First Branch | 30 | 30 *3 | 30 | 30 *3 |
| | Vertical Differentials Between Units | Indoor/Outdoor(Outdoor higher) | 50 | 50 | 50 | |
| | | Indoor/Outdoor(Outdoor Lower) | 40 | 40 | 40 | |
| | | Indoor/Indoor | 15 | 12 | 15 *4 | |
| | Refrigerant Piping Length | Total branch pipe length | — | 145 | — | 145 |
| | | Farthest branch pipe length | — | 25 | — | 25 |
| | | Total main pipe length | — | 95 | — | 95 |
| | | Farthest main pipe length | — | — | — | — |
| | Vertical Differentials Between Units | Branch box/Indoor | — | 15 | — | 15 |
| | | Branch box/Branch box | — | 15 | — | 15 |
| CP175/200/225 | Refrigerant Piping Length | Total Length | 150 | 150 | 150 | |
| | | Maximum Allowable Length | 80 (90 equivalent) *5 | 80 *5 | 80 (90 equivalent) *5 | 80 *5 |
| | | Farthest Indoor From First Branch | 30 | 30 *3 | 30 | 30 *3 |
| | Vertical Differentials Between Units | Indoor/Outdoor(Outdoor higher) | 50 | 50 | 50 | |
| | | Indoor/Outdoor(Outdoor Lower) | 40 | 40 | 40 | |
| | | Indoor/Indoor | 15 | 15 *4 | 15 *4 | |
| | Refrigerant Piping Length | Total branch pipe length | — | 95 | — | 95 |
| | | Farthest branch pipe length | — | 25 | — | 25 |
| | | Total main pipe length | — | 55 | — | 55 |
| | | Farthest main pipe length | — | 55 *5 | — | 55 *5 |
| | Vertical Differentials Between Units | Branch box/Indoor | — | 15 | — | 15 |
| | | Branch box/Branch box | — | 15 | — | 15 |

*1 Include system with connection kit
*2 Liquid pipe diameter: 12.7 mm, in case of further piping length is longer than 90 m, or connect with PEFY-P200/250.
*3 Farthest branch box from first branch.
*4 In case of branch box connection : 12m
*5 Liquid pipe diameter: 12.7 mm, in case of further piping length is longer than 60 m, or the farthest length of main pipe between outdoor unit and branch box is longer than 20 m in branch box system.
*6 Use liquid pipe of ø9.52 for less than P50 indoor units, when farthest length from the first branch exceeds 30m.

## Optional Parts for Branch Boxes

| Description | | Model | Remarks |
|---|---|---|---|
| Joint pipe | | MAC-A454JP-E | For φ9.52→φ12.7 |
| | | PAC-SG76RJ-E | For φ9.52→φ15.88 |
| | | PAC-493PI | For φ6.35→φ9.52 |
| | | MAC-A456JP-E | For φ12.7→φ15.88 |
| | | MAC-A455JP-E | For φ12.7→φ9.52 |
| | | PAC-SG71RJ-E | For φ15.88→φ22.2 |
| | | PAC-SG77RJ-E | For φ15.88→φ25.4 |
| Port connector | | PAC-SG75RJ-E | For φ15.88→φ19.05 |
| 2-Branch pipe | Braze | MSDD-50BR-E | To connect to two branch boxes |
| | Flare | MSDD-50AR-E | |
| Branch box outer cover | | PAC-AK350CVR-E | |
| Filter dryer for liquid pipe | | PAC-SG82DR-E | For φ9.52 |

OUTDOOR UNIT

# S-series PUMY-CP YKM2 (-BS)

CP175~225

## Specifications

| Model | | | | PUMY-CP175YKM2 (-BS) | PUMY-CP200YKM2 (-BS) | PUMY-CP225YKM2 (-BS) |
|---|---|---|---|---|---|---|
| Power source | | | | 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz | | |
| Cooling capacity (Nominal) | | *1 | kW | 20.0 | 22.4 | 25.0 |
| | | *1 | BTU/h | 68,200 | 76,400 | 85,300 |
| | Power input | | kW | 5.00 | 5.74 | 6.54 |
| | Current input | | A | 8.94-8.50-8.19, 8.94 | 10.03-9.53-9.18, 10.03 | 11.17-10.61-10.23, 11.17 |
| | EER | | kW/kW | 4.00 | 3.90 | 3.82 |
| Temp. range of cooling | Indoor temp. | | W.B. | 15.0 to 24.0°C (59 to 75°F) | | |
| | Outdoor temp. | | D.B. | 10 to 52.0°C (50 to 126°F) | | |
| Indoor unit connectable | Total capacity | | | 50 to 150% of outdoor unit capacity *2 | | |
| | Model/ Quantity | CITY MULTI | | 15–200/12 | 15–250/12 | 15–250/12 |
| Sound pressure level (measured in anechoic room) | | *3 | dB <A> | 57 | 57 | 58 |
| Refrigerant piping diameter | Liquid pipe | | mm (in.) | 9.52 (3/8) Flared*4 | | |
| | Gas pipe | | mm (in.) | 22.2 (7/8) Brazed | | |
| Fan | Type x Quantity | | | Propeller Fan × 2 | | |
| | Air flow rate | | $m^3$/min | 134 | 134 | 143.8 |
| | | | L/s | 2,233 | 2,233 | 2,397 |
| | | | cfm | 4,732 | 4,732 | 5,078 |
| | Motor output | *5 | kW | 0.20 + 0.20 | | |
| Compressor | Type x Quantity | | | Scroll hermetic compressor × 1 | | |
| | Starting method | | | Inverter | | |
| | Motor output | | kW | 3.5 | 3.9 | 4.3 |
| External finish | | | | Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1 | | |
| External dimension H x W x D | | | mm | 1,338 × 1,050 × 330 (+25) | | |
| | | | in. | 52-11/16 × 41-11/32 × 13 (+1) | | |
| Protection devices | High pressure protection | | | High pressure switch | | |
| | Inverter circuit (COMP./FAN) | | | Overcurrent detection, Overheat detection (Heat Sink thermistor) | | |
| | Compressor | | | Compressor thermistor, Overcurrent detection, Compressor protector | | |
| | Fan motor | | | Overheating, Voltage protection | | |
| Refrigerant | Type x original charge | | | R410A 6.3kg | | |
| Net weight | | | kg (lbs) | 130 (287) | | |
| Heat exchanger | | | | Cross Fin and Copper tube | | |
| Defrosting method | | | | Reversed refrigerant circuit | | |
| Optional parts | | | | Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E | | |
| Engery Labelling scheme | | | |  |  |  |

### Notes:

*1 Nominal conditions

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27ºC DB/19ºC WB (81ºF DB/66ºF WB) | 35ºC DB (95ºF DB) | 7.5m (24-9/16ft.) | 0m (0ft.) |

*2 Up to 150% can be connected. However, up to 130% for simultaneous operation.
*3 Cooling mode
*4 Liquid pipe diameter: 12.7mm in case that the farthest piping length is longer than 60m, or piping length from outdoor unit to a branch box is longer than 20m.
*Nominal conditions *1 are subject to ISO 15042.
*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

# S-series PUMY-CP YBM2 (-BS)

## Specifications

| Model | | | | PUMY-CP250YBM2 (-BS) | PUMY-CP300YBM2 (-BS) |
|---|---|---|---|---|---|
| Power source | | | | 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz | |
| Cooling capacity (Nominal) | | *1 | kW | 28.0 | 33.5 |
| | | *1 | BTU/h | 95,500 | 114,300 |
| | Power input | | kW | 7.18 | 8.59 |
| | Current input | | A | 11.73-11.14-10.74, 11.73 | 14.03-13.33-12.85, 14.03 |
| | EER | | kW/kW | 3.90 | 3.90 |
| Temp. range of cooling | Indoor temp. | | W.B. | 15.0 to 24.0°C (59 to 75°F) | |
| | Outdoor temp. | | D.B. | 10.0 to 52.0°C (50 to 126°F) | |
| Indoor unit connectable | Total capacity | | | 50 to 150% of outdoor unit capacity *2 | |
| | Model/ Quantity | CITY MULTI | | 15–250/24 | 15–250/29 |
| Sound pressure level (measured in anechoic room) | | | dB <A> | 59 | 60 |
| Refrigerant piping diameter | Liquid pipe | | mm (in.) | 9.52(3/8) Flared *5 | 12.7(1/2) Flared |
| | Gas pipe | | mm (in.) | 22.2(7/8) Brazed | 25.4(1) Brazed |
| Fan | Type x Quantity | | | Propeller Fan × 2 | |
| | Air flow rate | | $m^3$/min | 178 | 178 |
| | | | L/s | 2,966 | 2,966 |
| | | | cfm | 6,285 | 6,285 |
| | Motor output | | kW | 0.375 + 0.375 | |
| Compressor | Type x Quantity | *3 | | Scroll hermetic compressor × 1 | |
| | Starting method | | | Inverter | |
| | Motor output | | kW | 6.77 | 7.59 |
| External finish | | | | Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1 | |
| External dimension H x W x D | | | mm | 1,662 × 1,050 × 460 (+45) | |
| | | | in. | 65-7/16 × 41-11/32 × 18-7/64 (+1-49/64) | |
| Protection devices | High pressure protection | | | High pressure switch | |
| | Inverter circuit | | | Overcurrent detection, Overheat detection (Heat Sink thermistor) | |
| | Compressor | | | Compressor thermistor, Overcurrent detection, Compressor protector | |
| | Fan motor | | | Overcurrent, Overheating, Voltage protection | |
| Refrigerant | Type x original charge | | | R410A 8.0kg | |
| Net weight | | | kg (lbs) | 185 (408) *4 | |
| Heat exchanger | | | | Micro-Slit Fin and Copper tube | |
| Defrosting method | | | | — | |
| Optional parts | | | | Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E | |
| Engery Labelling scheme | | | |  |  |

### Notes:

*1 Nominal conditions

| | Indoor | Outdoor | Pipe length | Level difference | External static press. |
|---|---|---|---|---|---|
| Cooling | 27ºC DB/19ºC WB (81ºF DB/66ºF WB) | 35ºC DB (95ºF DB) | 7.5m (24-9/16ft.) | 0m (0ft.) | 0 Pa |

*2 Up to 150% can be connected. However, up to 130% for simultaneous operation.
*3 External static pressure option is available (30 Pa/3.1 mm$H_2O$).
*4 187 (413) for PUMY-CP250/300YBM2-BS.
*5 Liquid pipe diameter: 12.7mm, in case of farthest piping length (farthest indoor unit from outdoor unit) is longer than 90m, or connect with PEFY-P200/250.
*Nominal conditions *1 are subject to ISO 15042.
*Due to continuing improvement, above specification may be subject to change without notice.

# YKE-series NEW

The YKE series not only realize high energy savings and quality performance from Mitsubishi Electric, they also feature further improved reliability. This is especially important in the Asian climate which requires cooling capacity at high outside air temperatures.

**S** module

**L** module

**XL** module

* Product images are PUCY models

## Three series are lined up to meet required energy saving level.

| Standard (PUCY-P) | High standard (PUCY-GP) | High efficiency (PUCY-EP) |
|---|---|---|
| Compact designed with standard efficiency. Provides installation flexibility and high energy efficiency at same time. | Combining the standard line, achieves even better efficiency. | Achieves highest energy efficiency and partial load among the YKE lineup. |

## Further enhanced energy savings

- Higher rated EER in all models (compared to conventional model)
- Improved energy efficiency under partial-load conditions
- Evaporating temperature control provides further energy savings

## Cooling capacity at high outdoor air temperatures

- Operation guaranteed up to an outside air temperature (intake temperature) of 52°C
- The assist function for enhanced cooling power at high outside air temperatures
- Rapid mode reduces startup time

## High reliability

- Structure features a low-pressure shell compressor, polyurethane coated circuit boards and other high-reliability parts
- Emergency operation mode and rotation function, etc. contribute to enhanced operation reliability

## High installation flexibility

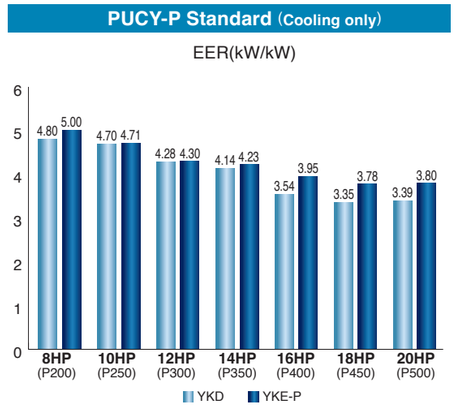
- Two-pipe system and M-NET wiring facilitate installation
- Selectable external static pressure setting to match site conditions

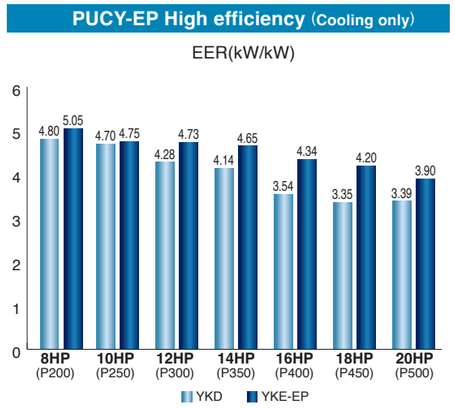


## Higher EER ratings

**Improved ratings for all models**

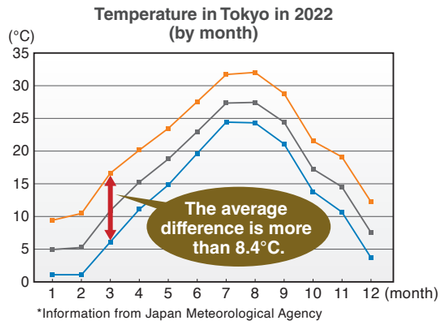
Compared to conventional products (YKD series), the YKE series achieves improved EER in all models from 8 to 60HP. The 8HP model (PUCY-P200YKE) boasts 20% improvement.

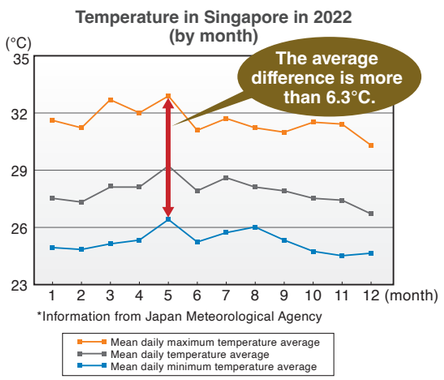


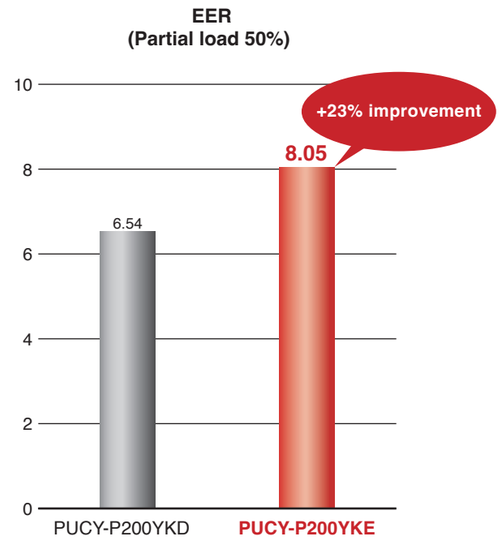




## High partial-load performance

At times when the temperature difference between daytime and morning/evening is large, efficient operation also under low-load conditions is important. The multi-port design of the compressor helps to improve partial-load efficiency compared to conventional models, enabling highly efficient operation throughout the year, including season changeover periods.



# Further enhanced energy savings

## Energy saving assist function

In addition to the basic energy saving design, energy saving assist functions can be activated easily via DIP switch settings. This allows matching the equipment to various installation patterns.

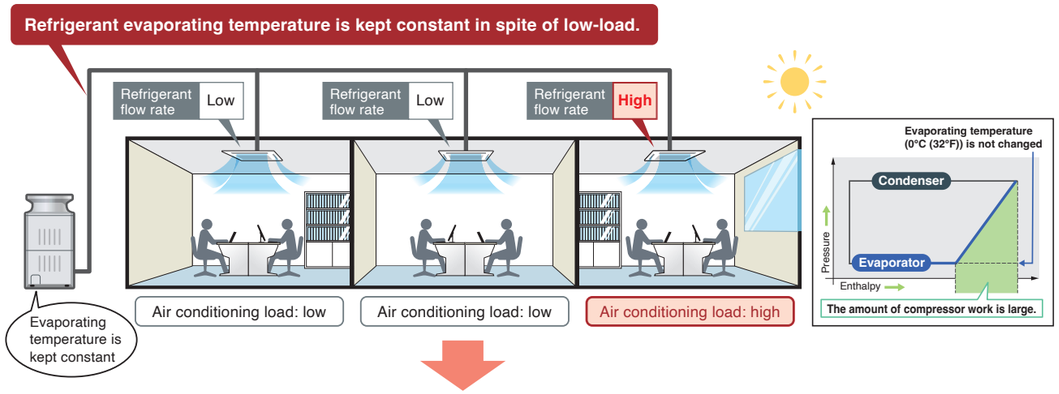
## Evaporating temperature control

PUCY P PUCY GP PUCY EP

During cooling operation, the temperature of the refrigerant can be controlled according to the air conditioning load. This helps energy efficient operation.

### Normal mode

The evaporating temperature is kept constant regardless of the load. Even at low loads, the normal evaporating temperature does not change, which leads to energy waste during partial load operation.




### Smart evaporation temperature control mode

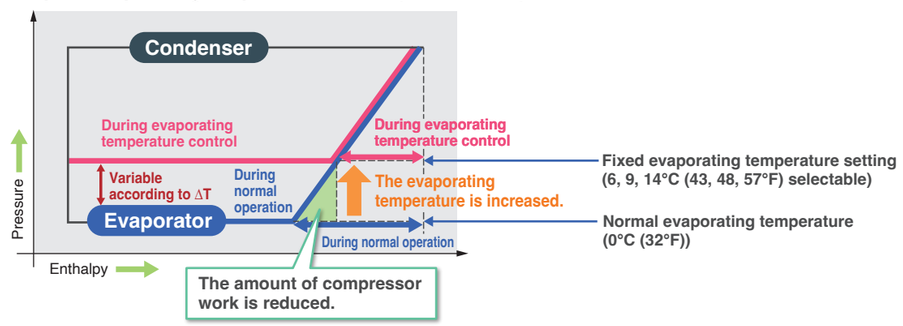
The YKE and YKD series supports evaporating temperature control which adjusts the refrigerant evaporating temperature. Two control methods are available: fixed control and automatic shift control.

* Changing the evaporating temperature is achieved by changing DIP switch settings on the outdoor unit. Refer to "Evaporating temperature setting method" and the Service Handbook for details.
* Raising the evaporating temperature will lower the latent heat processing capability. Select the appropriate mode for the installation location, taking factors such as ambient temperature into consideration.

#### 1. Fixed control

The target evaporating temperature is changed and controlled to be constant. Selecting an evaporating temperature that is higher than for normal cooling will reduce the load of the compressor and improve operation efficiency.

**• Concept of evaporating temperature control (fixed control)**




* Because evaporating temperature will constantly be higher, cooling capacity is reduced, which may result in the room not reaching the set temperature.
* To change the evaporating temperature setting, it is necessary to change the setting of the DIP switch on the outdoor unit.

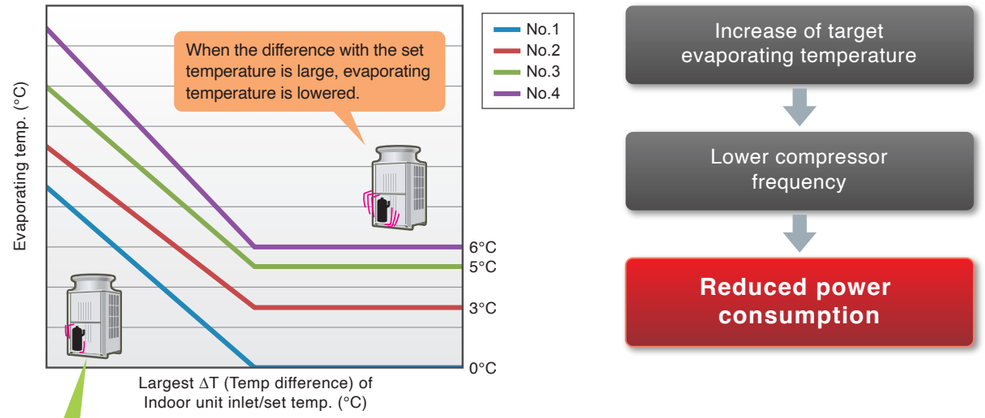


#### 2. Automatic shift control

Evaporating temperature is shifted according to the air conditioning load (ΔT). When approaching the set temperature, evaporating temperature is raised to reduce compressor workload and save energy. Four control patterns can be selected.

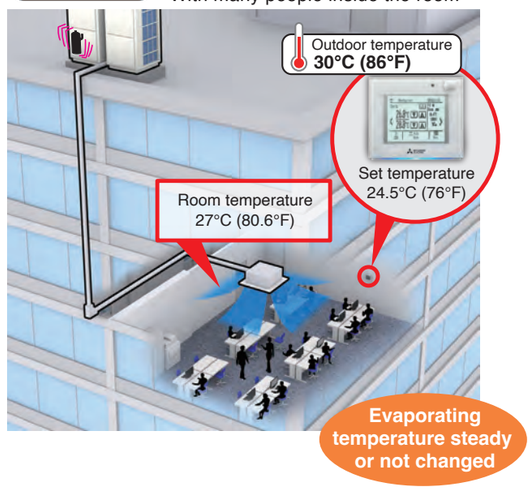
**• Concept of evaporating temperature control (automatic shift control)**

**4 patterns for setting target evaporating temperature**

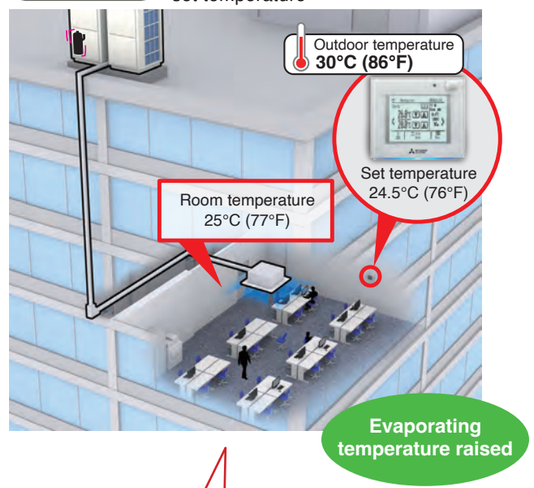



*1 To activate evaporating temperature control, use terminal external input.
*2 To change the evaporating temperature setting, it is necessary to change the setting of the DIP switch on the outdoor unit.

**High load** At start of operation / With many people inside the room



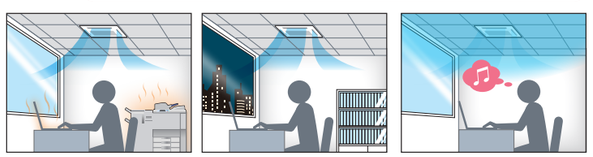

**Low load** As room temperature approaches set temperature




Evaporating temperature is changed according to the difference between room temperature and set temperature.

### Suitable situations

(1) Locations with mainly sensible heat load by OA equipment (offices and similar)
(2) Relatively low-load conditions during air conditioning season (mornings or nights)
(3) When higher temperature of discharge air is desired in windy conditions



# Cooling capacity at high outdoor air temperatures

## 1. Cooling operation possible up to intake temperature of 52°C

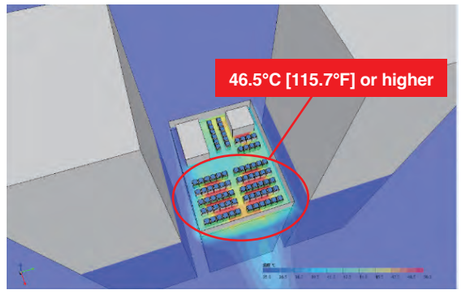
PUCY P PUCY GP PUCY EP

In built-up areas with a high density of buildings, winds may be blocked, causing an accumulation of warm air in the vicinity of the outdoor unit. Because the operation range of the YKE series has been guaranteed up to 52°C (126°F), operation will remain stable even in such situations.

**Example of flow analysis**

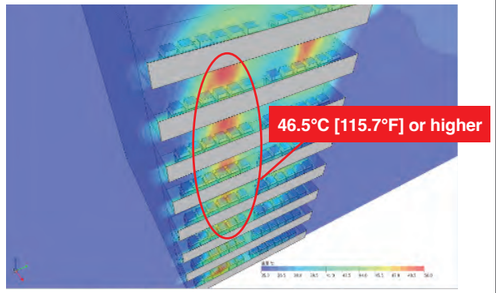
■ Conditions : Outdoor air temperature = 35°C (DB), Room temperature = 27°C (DB)

**Built-up area with buildings and outdoor units**




If the passage of air is blocked in a built-up area, the high-temperature air discharged from the outdoor units may be kept around the units.

**Installation on each floor a high-rise building**




When the outdoor units are installed on balconies, the high-temperature air discharged from the units may be kept in by upper balconies.

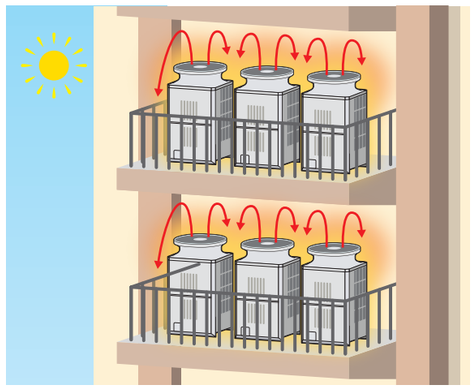
**Cooling even under high outside temperature**

**Cooling only model**

From 10°C [50°F] up to **52°C [126°F]**

### Suitable situations

Installation in locations such as on balconies or between buildings, where high-temperature air may tend to accumulate.



## 2. Cooling operation assist function

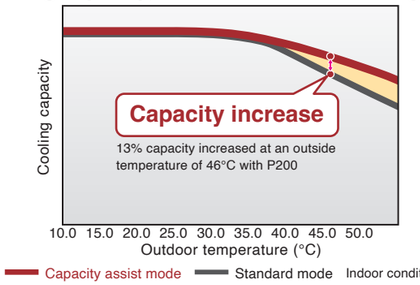
### Capacity assist mode

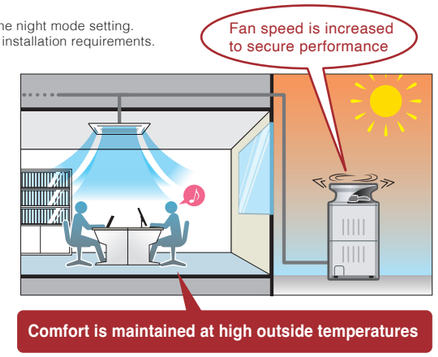
PUCY P PUCY GP PUCY EP

During cooling operation at high outside temperatures, cooling capacity tends to be decreased. The YKE and YKD series provides capacity assist mode where the fan speed is automatically raised when the outside temperature reaches or exceeds around 38°C. This prevents a drop in cooling capacity during operation at high outside air temperatures. Comfort is improved, thanks to continued high performance of the unit.

* Requires a DIP switch setting
* This function will be disabled when the unit is set to the outdoor high static pressure setting or to the night mode setting. The outdoor unit will make more noise due to an increased airflow. Choose the mode according to installation requirements.

**Cooling capacity, with indoor units running at 100%**



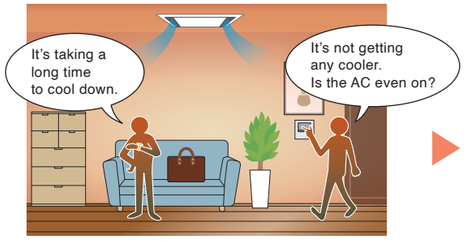




### Rapid mode during startup (Quick-start up)

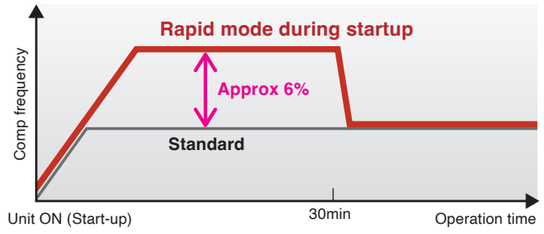
PUCY P PUCY GP PUCY EP

The rotation speed of the compressor can be raised during the first 30 minutes after cooling startup, to quickly establish comfortable conditions when returning home or at the start of a workday. Restarting after a power outage will also be faster, to quickly cool down the room.

* Requires a DIP switch setting
* Selecting this mode may increase operation noise. Choose the mode according to installation requirements.




The room does not cool off very quickly, and it takes a while before the room becomes comfortable.




### Priority Cooling Function

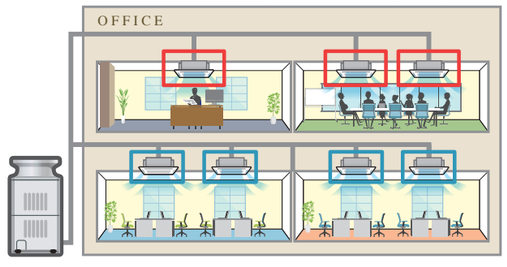
NEW PUCY P PUCY GP PUCY EP

The cooling priority function enables the assurance of optimal comfort within designated spaces.

* Up to 3 indoor units can be priorizied
* Maximum 20% capacity of thermo-ON indoor units

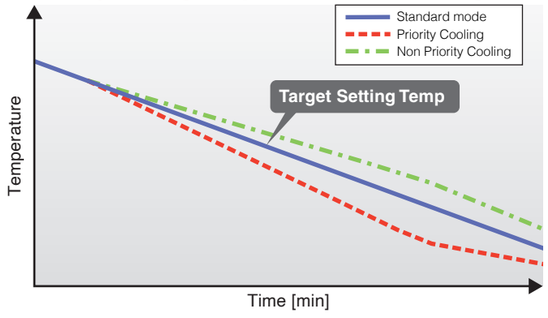
Priority Indoor Units
Non-Priority Indoor Units

* The room temp with Priority Cooling Indoor Units decreases faster
* Capacity with Non-priority cooling Indoor unit become a lower cooling capacity




Indoor units located in rooms which requires to be cooled down quickly can be selected for priority cooling.

**Priority Cooling Temperature transition image**

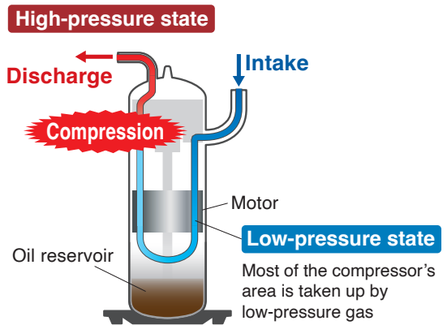


# High reliability

## 1. Compressor

Liquid and gas refrigerants are separated beforehand by the accumulator to prevent liquid refrigerant from flowing into the compressor. Moreover, compressor structure is filled with low-pressure gas refrigerant. If liquid backflow occurs, the liquid will not enter the scroll of the compressed part directly.

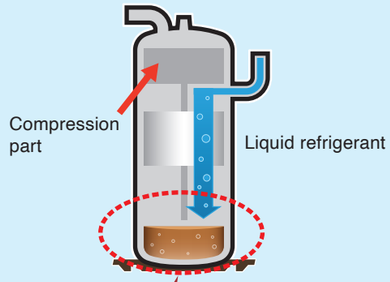
### Low-pressure shells PUCY P PUCY GP PUCY EP




**Cross section of compressor**

Most of the area in the compressor is taken up by the low-pressure gas. This prevents the motor and bearings from being heated up by the compressed high-pressure gas. The refrigerant is collected at the bottom of the shell to reduce the rate of compressor damage caused by liquid refrigerant compression.

**When liquid backflow has occurred**



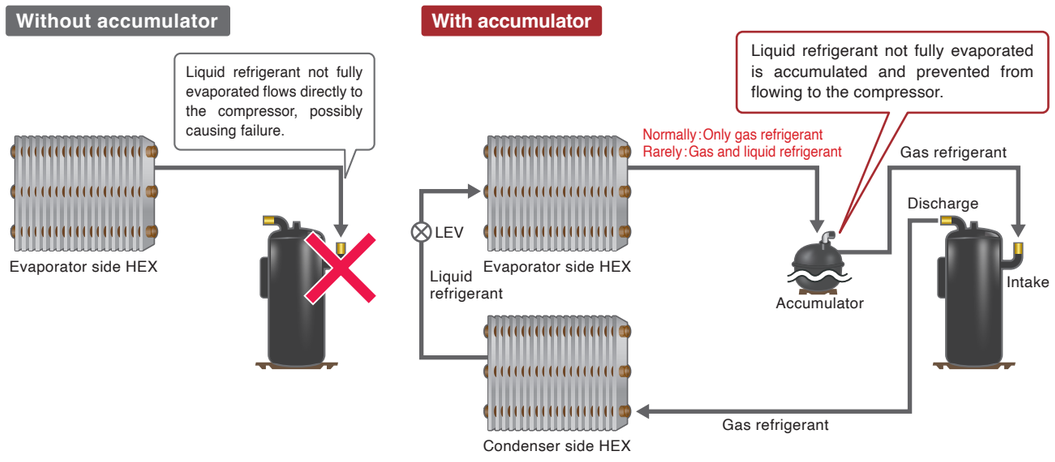

**Liquid refrigerant goes to bottom part firstly**

Liquid refrigerant doesn't go to compression part directly so that compressor itself is protected from malfunction due to liquid back .

### Accumulator for preventing liquid backflow PUCY P PUCY GP PUCY EP

When the refrigerant is not completely evaporated by the evaporator, it may remain as a liquid, flowing back into the compressor and causing liquid compression, which poses the risk of serious damage to the compressor. To counter this problem, Mitsubishi Electric uses an accumulator placed between the evaporator and the compressor to separate the liquid refrigerant.

* Adding too much refrigerant will cause excess refrigerant to accumulate in the accumulator, resulting in liquid back flow. Be sure to add only the proper amount of refrigerant.






### Operation with one compressor up to 20HP. PUCY P PUCY EP

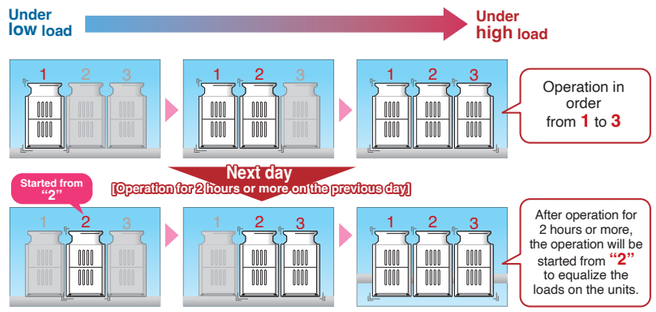
Outdoor units can be operated by one compressor, which contributes to improve service with less refrigerant piping work and compornents.

**1 compressor model**

**Lower number of required key parts reduces maintenance requirements**


### Rotation control PUCY P PUCY GP PUCY EP

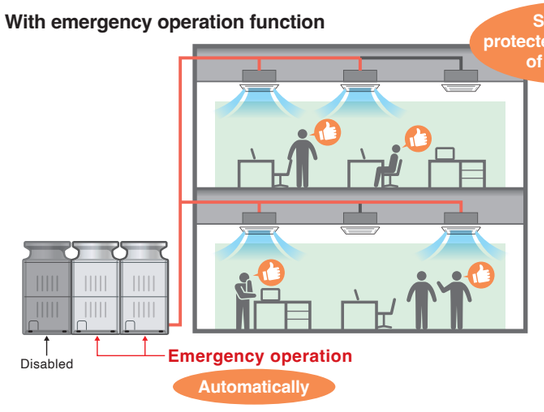
With the combination model, the outdoor units operate alternately. This reduces the operating load and leads to a longer service life.
After operation for 2 hours or more, the next operation will be started from the outdoor unit "2." The unit to be started first is changed to equalize the operating time of the units.




### Emergency operation mode PUCY P PUCY GP PUCY EP

Emergency operation is possible with the indoor unit's remote control. With the combination model, if there is at least one module that can operate normally, the other outdoor unit temporaly performs emergency operation.

**With emergency operation function**




**Even when one unit has fell in a malfunction, other outdoor units continue to operate.**

* The number of indoor units that can continue to operate during emergency operation is limited. For information on the maximum total capacity of indoor units, refer to the Service Handbook for the outdoor unit.

# High reliability

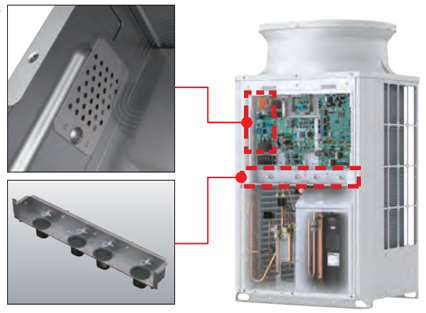
## 2. Electric parts

### Gecko Guard PUCY P PUCY GP PUCY EP NEW

In order to keep insects from entering the contol board box which may lead to malfunction, YKE model is equipped with prevenataive measures.

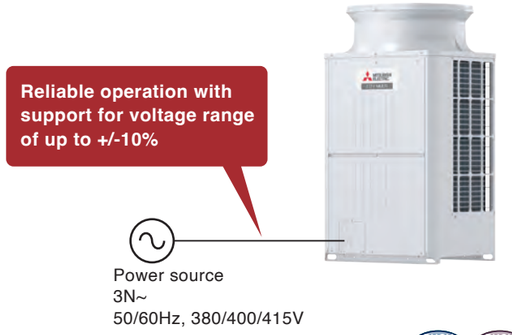
Slit prevents geckos to enter from the side.

Preventative measure has also been adopted on the bottom of the control board to prevent geckos entering.



### Allowable operating up to ±10% voltage range PUCY P PUCY GP PUCY EP

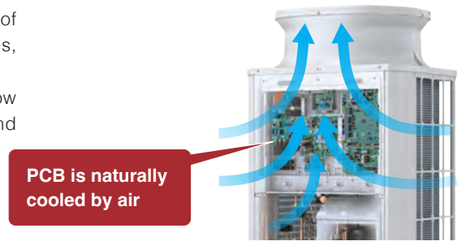
Operation of this model is guaranteed even for voltages up to 10% more or less than the indicated allowable voltage.




* When used 380V, operation is guaranteed even for voltages of up to maximum +20%

### Naturally cooled PCB (Print circuit board) PUCY P PUCY GP PUCY EP

PCBs (printed circuit boards) carry a large number of electronic components. When operation load increases, suitable cooling measures are required.
Mitsubishi Electric places PCBs in the natural air flow path which enables air cooling to maintain efficiency and improve reliability of each electronic component.




### Access from front panel PUCY P PUCY GP PUCY EP

Electrical parts are concentrated in the upper part of the panel which can be opened for easy replacement of PCBs if required.
Because the compressor is located in the lower right when the panel is opened, the service technician can easily perform maintenance from the front.


* Arrange a qualified technician for maintenance or service.

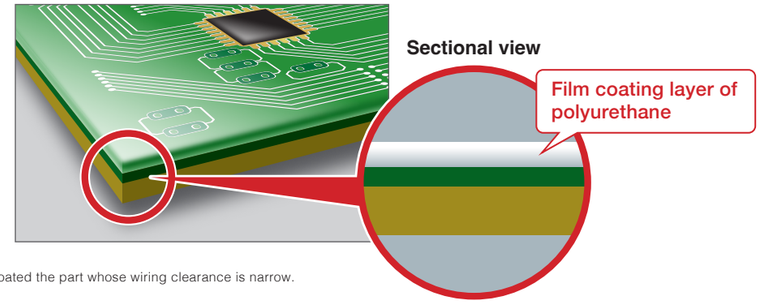
## 3. Corrosion resistance

Even in installation environments near coastal areas, Mitsubishi Electric products reduce the effects of corrosion due to salt damage by using a special designed for outdoor units.

* Effectiveness varies depending on the installation location.

### Film coating on PCB (Print circuit board) PUCY P PUCY GP PUCY EP

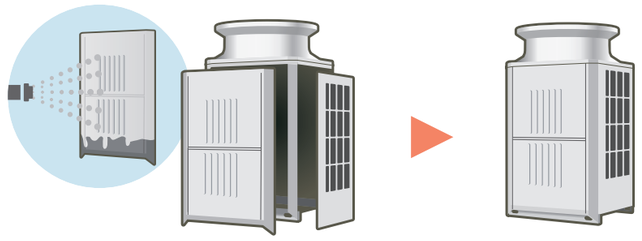
The printed circuit boards are protected by a film coating of polyurethane that covers the entire board to ensure resistance against salt corrosion.




* Standard model is only coated the part whose wiring clearance is narrow.

### Polyester coated sheet PUCY P PUCY GP PUCY EP

To prevent corrosion of the unit even in locations subject to the influence of sea breezes, the outdoor units are made with polyester coated steel sheets compliant with the JRA 9002 standard. The panel coating is used both on standard models and BS models, while BS models also include a thicker coating.



### New heat exchanger design PUCY P PUCY GP PUCY EP NEW

The new YKE series adopts a new heat exchanger with aluminium alloy flat tube and fins with anti-corrosion zinc treatment. They are especially effective in environments near costal areas and urban environments where salt or traffic air pollutions can damage the aluminum heat exchangers, reducing the capacity and life expectancy of the unit.

# High reliability

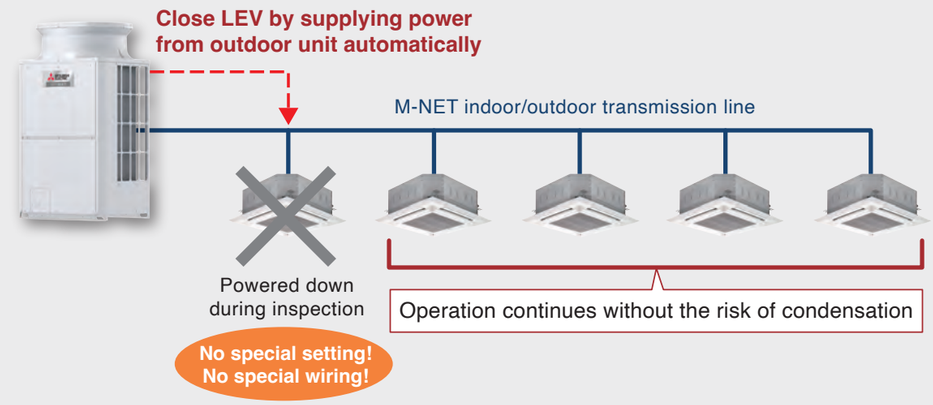
## 4. Operation support function

Without requiring any special settings or control steps, Mitsubishi Electric's original M-NET system enables other indoor units to continue operation even when one unit has stopped due to malfunction.

* Support for PUMY and PQHY models available.

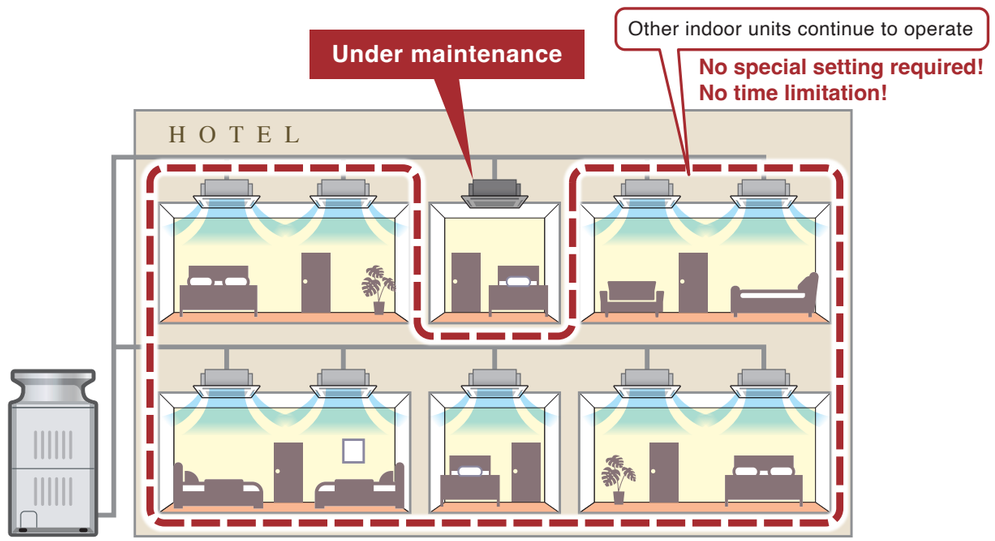
### With M-NET indoor/outdoor unit communication function (CITY MULTI)

Because Mitsubishi Electric's M-NET transmission line can also supply power, it is possible to close the LEV of indoor units that has caused problem through control command from outdoor unit. This eliminates the risk of condensation and enables the other units to keep working.




## For hotel application

Even if the system in one guest room cannot be used, air conditioning in other rooms does not need to be shut down, allowing business to continue.



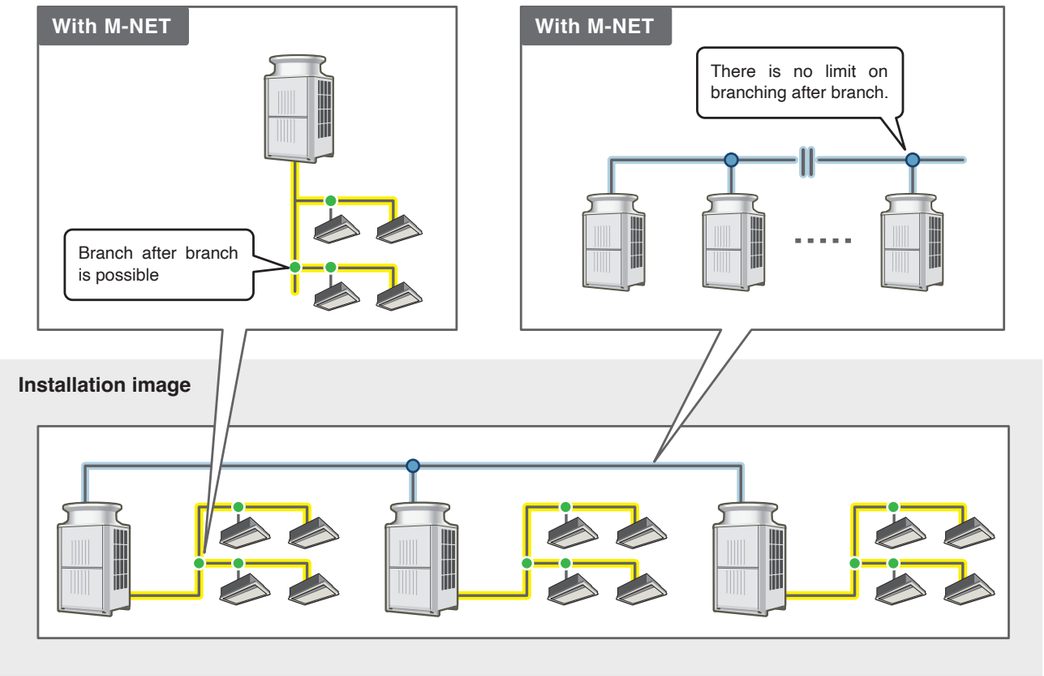



# High installation flexibility

## 1. Flexible wiring design

### Flexible M-NET design

The total wiring length of the original M-NET system connecting the CITY MULTI units of Mitsubishi Electric is unlimited. The system also supports multiple branching levels which greatly increases design flexibility for various buildings.

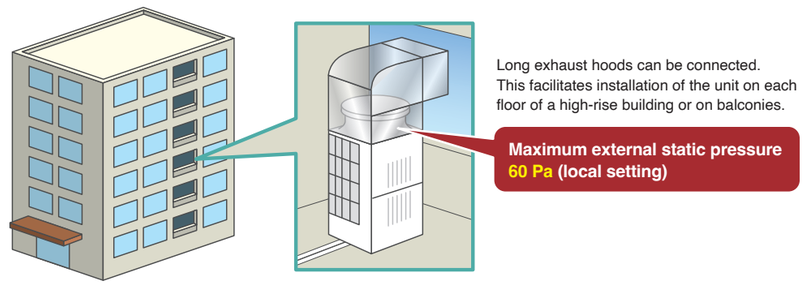



* The maximum power-supply distance of M-NET communication is 200 meters, a booster unit is required over 200 meters. Regarding maximum distance to the farthest device, please refer to "Explanatory material for M-NET 1000 m."

## 2. Flexible external static pressure setting

### Selectable external static pressure of the outdoor unit

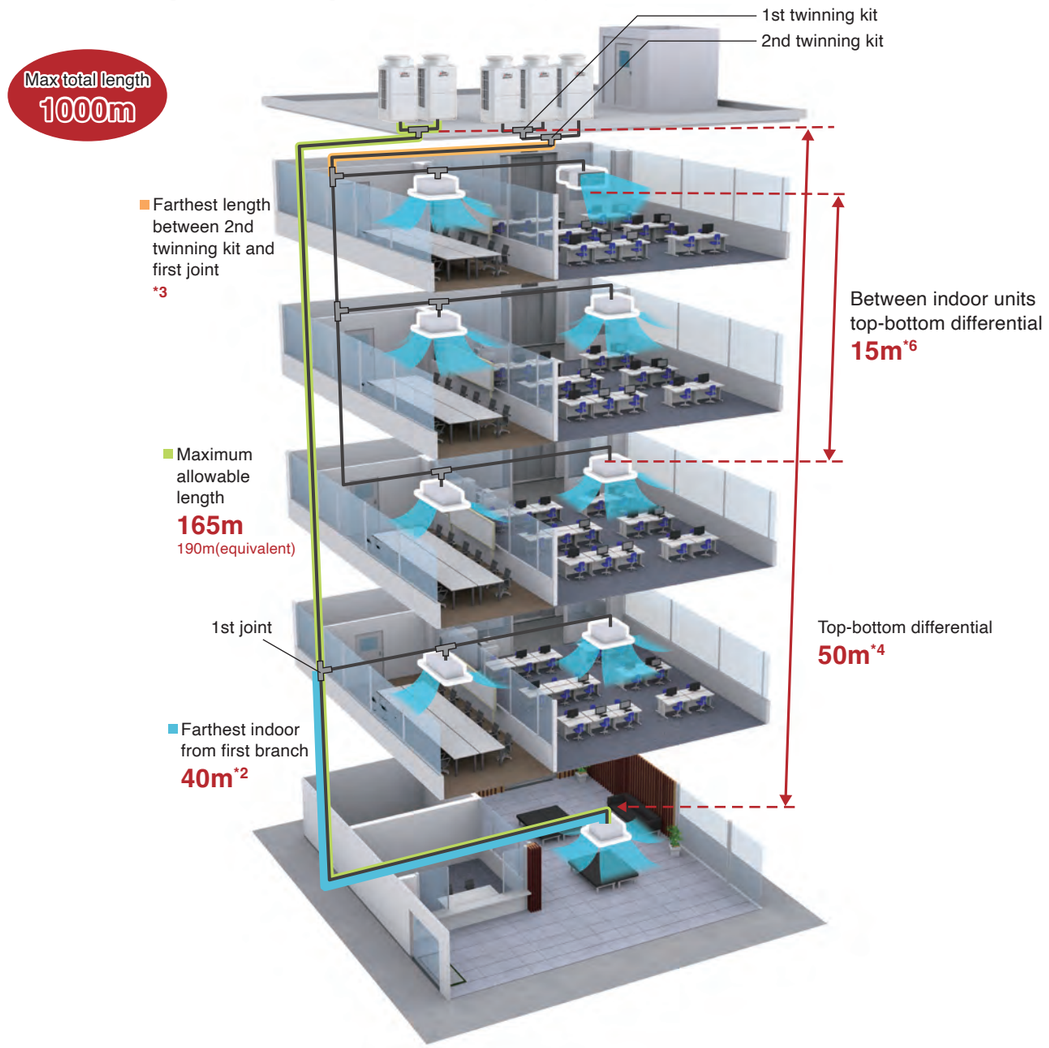
The static pressure specification of the outdoor unit can be selected (0, 30, 60 Pa).
This facilitates installation of the unit on each floor of a high-rise building or on balconies.



# High installation flexibility

## 3. Long piping length

Piping design also provides the flexibility to match the requirements of various buildings. With CITY MULTI, even large-scale building installations are no problem.




| Refrigerant Piping Lengths | Maximum meters [feet] |
|---|---|
| Total length | 1,000 [3,280]*1 |
| Maximum allowable length | 165 (190 equivalent) [541 (623)] |
| Farthest indoor from first branch | 40 [131]*2 |
| Farthest length between 2nd twinning kit and first joint | *3 |

| Vertical differentials between units | Maximum meters [feet] |
|---|---|
| Indoor/outdoor (outdoor higher) | 50 [164]*4 |
| Indoor/outdoor (outdoor lower) | 40 [131]*5 |
| Indoor/indoor | 15 [49]*6 |

*1 The maximum total piping length in systems with model units P1400 through P1500 800 m [2625 ft.].
*2 90m is available. When the piping length exceeds 40m, use one size larger liquid pipe starting with the section of piping where 40m is exceeded and all piping after that point.
[for PUCY-P-YKE(-BS) / PUCY-GP-YKE(-BS) / PUCY-EP-YKE(-BS)]
*3 In systems with model units P1400 through P1500, pipe length restrictions apply to the main pipes as follows:
P1400: 110 m [360 ft.] max.
P1450: 90 m [295 ft.] max.
P1500: 60 m [197 ft.] max.
*4 Depending on the model and installation conditions, top-bottom differential 90m [295ft]. For more detailed information, please contact your nearest sales office or distributor.
*5 4 m [13 ft.] or less in cooling at outdoor temperature 10°C [50°F] or lower for heat pump series.
*6 30m is available. If the height difference between indoor units exceeds 15 m [49 ft.] (but does not exceed 30 m [98 ft.]), use pipes that are one size larger for indoor unit liquid pipes.
[for PUCY-P-YKE(-BS) / PUCY-GP-YKE(-BS) / PUCY-EP-YKE(-BS)]



# Other useful Function

## Flexible Noise Setting PUCY P PUCY GP PUCY EP *1

The low-noise mode has four patterns 85%, 70%, 60% and 50% in respect to the fan speed. This can be set with the outdoor unit's dip switch. The pattern can be selected according to the customer's requests when low-noise operation is required.

*1 PUCY-P/GP/EP Low noise mode of 4 patterns 85%, 70%, 60%, 50% is available. NEW

- Achieve quite operation at night time
- Adjustable noise level options up to 4 patterns
- Flexibility to accomadate a variety of applications
- Easy setting and scheduling via AE-200E

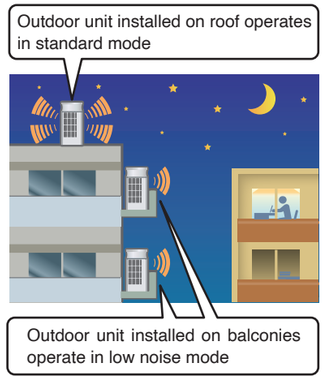
### PUCY-P200YKE

Standard 57dB
-13 dB
Flexible Noise Setting **44dB*** (50%)

* Operation noise may increase due to the installation environment or the operation status.
* Increased adaptability and model selection range for buildings where low noise is essential

AE-200E

Flexible Noise Setting can be scheduled from the Web browser of AE-200E by connecting the PC.



OUTDOOR UNIT

# YKE-series - Cooling-only Standard type

# PUCY-P YKE (-BS)

## Specifications

| Model | | | PUCY-P200YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P350YKE (-BS) |
|---|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.5 | 33.5 | 40.0 |
| | | BTU/h | 76,400 | 97,200 | 114,300 | 136,500 |
| | Power input | kW | 4.48 | 6.04 | 7.78 | 9.45 |
| | Current input | A | 7.5-7.1-6.9 | 10.1-9.6-9.3 | 13.1-12.4-12.0 | 15.9-15.1-14.6 |
| | EER | kW/kW | 5.00 | 4.71 | 4.30 | 4.23 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~17 | 1~21 | 1~26 | 1~30 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 57.0 | 58.0 | 61.0 | 61.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m) | 9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m) | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 150 | 150 | 210 |
| | | L/s | 2,500 | 2,500 | 2,500 | 3,500 |
| | | cfm | 5,296 | 5,296 | 5,296 | 7,415 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 3.0 | 4.3 | 5.8 | 7.3 |
| | Case heater | kW | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 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) | 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 | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 170 (375) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube |
| Optional parts | | | Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G |
| Engery Labelling Scheme | | |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series - Cooling-only Standard type

PUCY-P YKE (-BS)

## Specifications

| Model | | | PUCY-P400YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P500YKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 44.0 | 48.0 | 56.0 |
| | | BTU/h | 150,100 | 163,800 | 191,100 |
| | Power input | kW | 11.12 | 12.67 | 14.73 |
| | Current input | A | 18.7-17.8-17.1 | 21.3-20.3-19.5 | 24.8-23.6-22.7 |
| | EER | kW/kW | 3.95 | 3.78 | 3.80 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~34 | 1~39 | 1~43 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 63.5 | 64.0 | 65.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 250 | 250 | 320 |
| | | L/s | 4,167 | 4,167 | 5,333 |
| | | cfm | 8,828 | 8,828 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter | Inverter |
| | Motor output | kW | 8.7 | 10.0 | 10.9 |
| | Case heater | kW | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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) | 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 | Over-heat protection, Over-current protection |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 207 (457) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube |
| Optional parts | | | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G |
| Engery Labelling Scheme | | |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

**YKE**-series

- Cooling-only Standard type

# PUCY-P YSKE (-BS)

OUTDOOR UNIT

**YKE**-series

- Cooling-only Standard type

PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P550YSKE (-BS) | PUCY-P600YSKE (-BS) | PUCY-P650YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 62.0 | 68.5 | 72.5 |
| | | BTU/h | 211,500 | 233,700 | 247,400 |
| | Power input | kW | 14.09 | 15.39 | 17.63 |
| | Current input | A | 23.7-22.5-21.7 | 25.9-24.6-23.7 | 29.7-28.2-27.2 |
| | EER | kW/kW | 4.40 | 4.45 | 4.11 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~47 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 63.0 | 63.0 | 65.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |

**Set Model**

| Model | | | PUCY-P250YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P400YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 150 | 150 | 210 | 150 | 250 |
| | | L/s | 2,500 | 2,500 | 2,500 | 3,500 | 2,500 | 4,167 |
| | | cfm | 5,296 | 5,296 | 5,296 | 7,415 | 5,296 | 8,828 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 4.3 | 5.8 | 4.3 | 7.3 | 4.3 | 8.7 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 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) | | 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 | | Over-heat protection, Over-current protection | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 170 (375) | 207 (457) | 170 (375) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

## Specifications

| Model | | | PUCY-P700YSKE (-BS) | PUCY-P750YSKE (-BS) | PUCY-P800YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 76.5 | 81.5 | 88.0 |
| | | BTU/h | 261,000 | 278,100 | 300,300 |
| | Power input | kW | 18.98 | 21.27 | 23.46 |
| | Current input | A | 32.0-30.4-29.3 | 35.9-34.1-32.8 | 39.6-37.6-36.2 |
| | EER | kW/kW | 4.03 | 3.83 | 3.75 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 65.0 | 66.0 | 66.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 34.93 (1-3/8) Brazed | 34.93 (1-3/8) Brazed | 34.93 (1-3/8) Brazed |

**Set Model**

| Model | | | PUCY-P250YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P400YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 250 | 150 | 250 | 250 | 250 |
| | | L/s | 2,500 | 4,167 | 2,500 | 4,167 | 4,167 | 4,167 |
| | | cfm | 5,296 | 8,828 | 5,296 | 8,828 | 8,828 | 8,828 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 4.3 | 10.0 | 5.8 | 10.0 | 8.7 | 8.7 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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) | | 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 | | Over-heat protection, Over-current protection | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 207 (457) | 170 (375) | 207 (457) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 15.88 (5/8) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

## - Cooling-only Standard type

# PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P850YSKE (-BS) | PUCY-P900YSKE (-BS) | PUCY-P950YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) *1 | | kW | 92.0 | 96.0 | 104.0 |
| | | BTU/h | 313,900 | 327,600 | 354,800 |
| | Power input | kW | 25.06 | 26.74 | 28.88 |
| | Current input | A | 42.3-40.1-38.7 | 45.1-42.8-41.3 | 48.7-46.3-44.6 |
| | EER | kW/kW | 3.67 | 3.59 | 3.60 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 67.0 | 67.0 | 67.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P400YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P500YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 250 | 250 | 250 | 250 | 250 | 320 |
| | | L/s | 4,167 | 4,167 | 4,167 | 4,167 | 4,167 | 5,333 |
| | | cfm | 8,828 | 8,828 | 8,828 | 8,828 | 8,828 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 |
| *2 External static press. | | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 8.7 | 10.0 | 10.0 | 10.0 | 10.0 | 10.9 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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) | | 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 | | Over-heat protection, Over-current protection | |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series

- Cooling-only Standard type

PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P1000YSKE (-BS) | PUCY-P1050YSKE (-BS) | PUCY-P1100YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) *1 | | kW | 112.0 | 115.0 | 121.5 |
| | | BTU/h | 382,100 | 392,400 | 414,600 |
| | Power input | kW | 31.02 | 29.33 | 30.91 |
| | Current input | A | 52.3-49.7-47.9 | 49.5-47.0-45.3 | 52.1-49.5-47.7 |
| | EER | kW/kW | 3.61 | 3.92 | 3.93 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 68.0 | 67.0 | 67.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P500YKE (-BS) | PUCY-P500YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P450YKE (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 320 | 320 | 150 | 150 | 250 | 150 | 210 | 250 |
| | | L/s | 5,333 | 5,333 | 2,500 | 2,500 | 4,167 | 2,500 | 3,500 | 4,167 |
| | | cfm | 11,299 | 11,299 | 5,296 | 5,296 | 8,828 | 5,296 | 7,415 | 8,828 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | |
| | Motor output | kW | 0.92 x 2 | 0.92 x 2 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| *2 External static press. | | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 10.9 | 10.9 | 5.8 | 5.8 | 10.0 | 5.8 | 7.3 | 10.0 |
| | Case heater | kW | – | – | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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) | | | 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 | | | Over-heat protection, Over-current protection | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 260 (574) | 260 (574) | 170 (375) | 170 (375) | 207 (457) | 170 (375) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series - Cooling-only Standard type

# PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P1150YSKE (-BS) | PUCY-P1200YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) *1 | | kW | 128.0 | 132.0 |
| | | BTU/h | 436,700 | 450,400 |
| | Power input | kW | 33.33 | 35.20 |
| | Current input | A | 56.2-53.4-51.5 | 59.4-56.4-54.4 |
| | EER | kW/kW | 3.84 | 3.75 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 68.0 | 68.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P350YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P400YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 210 | 250 | 250 | 250 | 250 | 250 |
| | | L/s | 3,500 | 4,167 | 4,167 | 4,167 | 4,167 | 4,167 |
| | | cfm | 7,415 | 8,828 | 8,828 | 8,828 | 8,828 | 8,828 |
| | 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 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| *2 External static press. | | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 7.3 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

**Notes:**

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series - Cooling-only Standard type

PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P1250YSKE (-BS) | PUCY-P1300YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) *1 | | kW | 136.0 | 140.0 |
| | | BTU/h | 464,000 | 477,700 |
| | Power input | kW | 36.85 | 38.46 |
| | Current input | A | 62.2-59.0-56.9 | 64.9-61.6-59.4 |
| | EER | kW/kW | 3.69 | 3.64 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 2~50 | 2~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 68.5 | 69.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P400YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P400YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 250 | 250 | 250 | 250 | 250 | 250 |
| | | L/s | 4,167 | 4,167 | 4,167 | 4,167 | 4,167 | 4,167 |
| | | cfm | 8,828 | 8,828 | 8,828 | 8,828 | 8,828 | 8,828 |
| | 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 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| *2 External static press. | | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 8.7 | 8.7 | 10.0 | 8.7 | 10.0 | 10.0 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

**Notes:**

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

**YKE**-series

- Cooling-only Standard type

# PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P1350YSKE (-BS) | PUCY-P1400YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 144.0 | 152.0 |
| | | BTU/h | 491,300 | 518,600 |
| | Power input | kW | 40.11 | 42.33 |
| | Current input | A | 67.7-64.3-62.0 | 71.4-67.8-65.4 |
| | EER | kW/kW | 3.59 | 3.59 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 2~50 | 2~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 69.0 | 69.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P450YKE (-BS) | PUCY-P500YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 250 | 250 | 250 | 250 | 250 | 320 |
| | | L/s | 4,167 | 4,167 | 4,167 | 4,167 | 4,167 | 5,333 |
| | | cfm | 8,828 | 8,828 | 8,828 | 8,828 | 8,828 | 11,299 |
| | 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 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.9 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

**YKE**-series

- Cooling-only Standard type

# PUCY-P YSKE (-BS)

## Specifications

| Model | | | PUCY-P1450YSKE (-BS) | PUCY-P1500YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 160.0 | 168.0 |
| | | BTU/h | 545,900 | 573,200 |
| | Power input | kW | 44.44 | 46.53 |
| | Current input | A | 75.0-71.2-68.6 | 78.5-74.6-71.9 |
| | EER | kW/kW | 3.60 | 3.61 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 2~50 | 2~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 69.5 | 70.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P450YKE (-BS) | PUCY-P500YKE (-BS) | PUCY-P500YKE (-BS) | PUCY-P500YKE (-BS) | PUCY-P500YKE (-BS) | PUCY-P500YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 250 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 4,167 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 8,828 | 11,299 | 11,299 | 11,299 | 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 1 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 10.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series - Cooling-only High Standard type

# PUCY-GP YSKE (-BS)

## Specifications

| Model | | | PUCY-GP400YSKE (-BS) | PUCY-GP450YSKE (-BS) | PUCY-GP500YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 44.8 | 50.9 | 57.0 |
| | | BTU/h | 152,900 | 173,700 | 194,500 |
| | Power input | kW | 9.43 | 11.04 | 12.75 |
| | Current input | A | 15.9-15.1-14.5 | 18.6-17.7-17.0 | 21.5-20.4-19.7 |
| | EER | kW/kW | 4.75 | 4.61 | 4.47 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~34 | 1~39 | 1~43 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 60.0 | 60.5 | 61.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |

**Set Model**

| Model | | | PUCY-P200YKE (-BS) | PUCY-P200YKE (-BS) | PUCY-P200YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P250YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 150 | 150 | 150 | 150 | 150 |
| | | L/s | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 |
| | | cfm | 5,296 | 5,296 | 5,296 | 5,296 | 5,296 | 5,296 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 3.0 | 3.0 | 3.0 | 4.3 | 4.3 | 4.3 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 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) | | 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 | | Over-heat protection, Over-current protection | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 170 (375) | 170 (375) | 170 (375) | 170 (375) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

# YKE-series - Cooling-only High Standard type

# PUCY-GP YSKE (-BS)

## Specifications

| Model | | | PUCY-GP650YSKE (-BS) | PUCY-GP700YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 73.5 | 80.0 |
| | | BTU/h | 250,800 | 273,000 |
| | Power input | kW | 18.14 | 19.51 |
| | Current input | A | 30.6-29.0-28.0 | 32.9-31.2-30.1 |
| | EER | kW/kW | 4.05 | 4.10 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 64.0 | 64.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 34.93 (1-3/8) Brazed |

**Set Model**

| Model | | | PUCY-P300YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) |
|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 210 | 210 | 210 |
| | | L/s | 2,500 | 3,500 | 3,500 | 3,500 |
| | | cfm | 5,296 | 7,415 | 7,415 | 7,415 |
| | 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 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 5.8 | 7.3 | 7.3 | 7.3 |
| | Case heater | kW | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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 | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 207 (457) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | |
| | | |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

## - Cooling-only High Standard type

# PUCY-GP YSKE (-BS)

## Specifications

| Model | | | PUCY-GP750YSKE (-BS) | PUCY-GP800YSKE (-BS) | PUCY-GP850YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 84.8 | 90.9 | 97.0 |
| | | BTU/h | 289,300 | 310,200 | 331,000 |
| | Power input | kW | 18.84 | 20.61 | 22.45 |
| | Current input | A | 31.8-30.2-29.1 | 34.7-33.0-31.8 | 37.8-36.0-34.7 |
| | EER | kW/kW | 4.50 | 4.41 | 4.32 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 63.5 | 64.0 | 64.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 34.93 (1-3/8) Brazed | 34.93 (1-3/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P200YKE (-BS) | PUCY-P200YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P200YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P250YKE (-BS) | PUCY-P350YKE (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 150 | 210 | 150 | 150 | 210 | 150 | 150 | 210 |
| | | L/s | 2,500 | 2,500 | 3,500 | 2,500 | 2,500 | 3,500 | 2,500 | 2,500 | 3,500 |
| | | cfm | 5,296 | 5,296 | 7,415 | 5,296 | 5,296 | 7,415 | 5,296 | 5,296 | 7,415 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 3.0 | 3.0 | 7.3 | 3.0 | 4.3 | 7.3 | 4.3 | 4.3 | 7.3 |
| | Case heater | kW | – | – | – | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 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) | | | 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 | | | Over-heat protection, Over-current protection | | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 207 (457) | 170 (375) | 170 (375) | 207 (457) | 170 (375) | 170 (375) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series

- Cooling-only High Standard type

PUCY-GP YSKE (-BS)

## Specifications

| Model | | | PUCY-GP900YSKE (-BS) | PUCY-GP950YSKE (-BS) | PUCY-GP1000YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 102.0 | 107.0 | 113.5 |
| | | BTU/h | 348,000 | 365,100 | 387,300 |
| | Power input | kW | 24.34 | 26.35 | 28.09 |
| | Current input | A | 41.0-39.0-37.6 | 44.4-42.2-40.7 | 47.4-45.0-43.4 |
| | EER | kW/kW | 4.19 | 4.06 | 4.04 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 65.0 | 66.0 | 66.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P250YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P300YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 150 | 210 | 150 | 150 | 210 | 150 | 210 | 210 |
| | | L/s | 2,500 | 2,500 | 3,500 | 2,500 | 2,500 | 3,500 | 2,500 | 3,500 | 3,500 |
| | | cfm | 5,296 | 5,296 | 7,415 | 5,296 | 5,296 | 7,415 | 5,296 | 7,415 | 7,415 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) | 0 Pa ($mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 4.3 | 5.8 | 7.3 | 5.8 | 5.8 | 7.3 | 5.8 | 7.3 | 7.3 |
| | Case heater | kW | – | – | – | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 920 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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) | | | 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 | | | Over-heat protection, Over-current protection | | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 207 (457) | 170 (375) | 170 (375) | 207 (457) | 170 (375) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

## - Cooling-only High Standard type

# PUCY-GP YSKE (-BS)

## Specifications

| Model | | | PUCY-GP1050YSKE (-BS) | PUCY-GP1100YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 120.0 | 124.0 |
| | | BTU/h | 409,400 | 423,100 |
| | Power input | kW | 28.91 | 31.63 |
| | Current input | A | 48.8-46.3-44.6 | 53.3-50.7-48.8 |
| | EER | kW/kW | 4.15 | 3.92 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 66.0 | 67.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P350YKE (-BS) | PUCY-P400YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| Fan | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 210 | 210 | 210 | 210 | 210 | 250 |
| | | L/s | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 4,167 |
| | | cfm | 7,415 | 7,415 | 7,415 | 7,415 | 7,415 | 8,828 |
| | 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 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 8.7 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 | 1,650 x 1,220 x 740 |
| | | in. | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) | R410A x 5.0 kg (12 lbs) |
| Net weight | | kg (lbs) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) | 207 (457) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

# YKE-series

## - Cooling-only High Efficiency type

# PUCY-EP YKE (-BS)

## Specifications

| Model | | | PUCY-EP200YKE (-BS) | PUCY-EP250YKE (-BS) | PUCY-EP300YKE (-BS) | PUCY-EP350YKE (-BS) |
|---|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.5 | 33.5 | 40.0 |
| | | BTU/h | 76,400 | 97,200 | 114,300 | 136,500 |
| | Power input | kW | 4.43 | 6.00 | 7.08 | 8.60 |
| | Current input | A | 7.4-7.1-6.8 | 10.1-9.6-9.2 | 11.9-11.3-10.9 | 14.5-13.7-13.2 |
| | EER | kW/kW | 5.05 | 4.75 | 4.73 | 4.65 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~17 | 1~21 | 1~26 | 1~30 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 57.0 | 58.0 | 60.5 | 60.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m) | 9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m) | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| FAN | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 150 | 150 | 320 | 320 |
| | | L/s | 2,500 | 2,500 | 5,333 | 5,333 |
| | | cfm | 5,296 | 5,296 | 11,299 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 2.9 | 4.3 | 4.3 | 5.6 |
| | Case heater | kW | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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) | 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 | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 247 (545) | 262 (578) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube |
| Optional parts | | | Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G |
| Engery Labelling Scheme | | |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

**YKE**-series

- Cooling-only High Efficiency type

# PUCY-EP YKE (-BS)

## Specifications

| Model | | | PUCY-EP400YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP500YKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 44.0 | 48.0 | 56.0 |
| | | BTU/h | 150,100 | 163,800 | 191,100 |
| | Power input | kW | 10.13 | 11.42 | 14.33 |
| | Current input | A | 17.1-16.2-15.6 | 19.2-18.3-17.6 | 24.1-22.9-22.1 |
| | EER | kW/kW | 4.34 | 4.20 | 3.90 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~34 | 1~39 | 1~43 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 59.0 | 60.5 | 64.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 320 |
| | | L/s | 5,333 | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor | Inverter-control, Direct-driven by motor |
| | Motor output | kW | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor | Inverter scroll hermetic compressor |
| | Starting method | | Inverter | Inverter | Inverter |
| | Motor output | kW | 6.9 | 8.0 | 10.6 |
| | Case heater | kW | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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) | 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 | Over-heat protection, Over-current protection |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 260 (574) | 260 (574) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube | Salt-resistant corrugated fin & aluminium alloy tube |
| Optional parts | | | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G |
| Engery Labelling Scheme | | |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

**YKE**-series

- Cooling-only High Efficiency type

# PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP400YSKE (-BS) | PUCY-EP450YSKE (-BS) | PUCY-EP500YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 44.8 | 50.9 | 57.0 |
| | | BTU/h | 152,900 | 173,700 | 194,500 |
| | Power input | kW | 9.35 | 10.94 | 12.63 |
| | Current input | A | 15.7-14.9-14.4 | 18.4-17.5-16.9 | 21.3-20.2-19.5 |
| | EER | kW/kW | 4.79 | 4.65 | 4.51 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~34 | 1~39 | 1~43 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 60.0 | 60.5 | 61.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |

**Set Model**

| Model | | | PUCY-EP200YKE (-BS) | PUCY-EP200YKE (-BS) | PUCY-EP200YKE (-BS) | PUCY-EP250YKE (-BS) | PUCY-EP250YKE (-BS) | PUCY-EP250YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 1 |
| | Air flow rate | $m^3$/min | 150 | 150 | 150 | 150 | 150 | 150 |
| | | L/s | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 |
| | | cfm | 5,296 | 5,296 | 5,296 | 5,296 | 5,296 | 5,296 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 | 0.92 x 1 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 2.9 | 2.9 | 2.9 | 4.3 | 4.3 | 4.3 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 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) | | 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 | | Over-heat protection, Over-current protection | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 170 (375) | 170 (375) | 170 (375) | 170 (375) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

## - Cooling-only High Efficiency type

# PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP550YSKE (-BS) | PUCY-EP600YSKE (-BS) | PUCY-EP650YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 62.4 | 68.5 | 73.5 |
| | | BTU/h | 212,900 | 233,700 | 250,800 |
| | Power input | kW | 13.56 | 15.25 | 16.51 |
| | Current input | A | 22.8-21.7-20.9 | 25.7-24.4-23.5 | 27.8-26.4-25.5 |
| | EER | kW/kW | 4.60 | 4.49 | 4.45 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~47 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 62.5 | 63.5 | 63.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |

**Set Model**

| Model | | | PUCY-EP200YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP300YKE (-BS) | PUCY-EP300YKE (-BS) | PUCY-EP300YKE (-BS) | PUCY-EP350YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 1 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 150 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 2,500 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 5,296 | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| *2 | External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 2.9 | 5.6 | 4.3 | 4.3 | 4.3 | 5.6 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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) | | 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 | | Over-heat protection, Over-current protection | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 262 (578) | 247 (545) | 247 (545) | 247 (545) | 262 (578) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series

- Cooling-only High Efficiency type

PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP700YSKE (-BS) | PUCY-EP750YSKE (-BS) | PUCY-EP800YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 80.0 | 84.8 | 90.9 |
| | | BTU/h | 273,000 | 289,300 | 310,200 |
| | Power input | kW | 18.14 | 18.15 | 19.89 |
| | Current input | A | 30.6-29.0-28.0 | 30.6-29.1-28.0 | 33.5-31.8-30.7 |
| | EER | kW/kW | 4.41 | 4.67 | 4.57 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 63.5 | 63.5 | 63.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 34.93 (1-3/8) Brazed | 34.93 (1-3/8) Brazed | 34.93 (1-3/8) Brazed |

**Set Model**

| Model | | | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP200YKE (-BS) | PUCY-EP200YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP200YKE (-BS) | PUCY-EP250YKE (-BS) | PUCY-EP350YKE (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 150 | 150 | 320 | 150 | 150 | 320 |
| | | L/s | 5,333 | 5,333 | 2,500 | 2,500 | 5,333 | 2,500 | 2,500 | 5,333 |
| | | cfm | 11,299 | 11,299 | 5,296 | 5,296 | 11,299 | 5,296 | 5,296 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | |
| | Motor output | kW | 0.92 x 2 | 0.92 x 2 | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 |
| *2 | External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 5.6 | 5.6 | 2.9 | 2.9 | 5.6 | 2.9 | 4.3 | 5.6 |
| | Case heater | kW | – | – | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,750 x 740 | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 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) | | | 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 | | | Over-heat protection, Over-current protection | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 262 (578) | 262 (578) | 170 (375) | 170 (375) | 262 (578) | 170 (375) | 170 (375) | 262 (578) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |  |  |

## Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

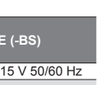
## - Cooling-only High Efficiency type

# PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP850YSKE (-BS) | PUCY-EP900YSKE (-BS) | PUCY-EP950YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 97.0 | 102.4 | 107.0 |
| | | BTU/h | 331,000 | 349,400 | 365,100 |
| | Power input | kW | 21.65 | 22.55 | 23.99 |
| | Current input | A | 36.5-34.7-33.4 | 38.0-36.1-34.8 | 40.4-38.4-37.0 |
| | EER | kW/kW | 4.48 | 4.54 | 4.46 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 64.0 | 64.5 | 65.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-EP250YKE (-BS) | PUCY-EP250YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP200YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP300YKE (-BS) | PUCY-EP300YKE (-BS) | PUCY-EP350YKE (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 1 | Propeller fan x 1 | Propeller fan x 2 | Propeller fan x 1 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 150 | 150 | 320 | 150 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 2,500 | 2,500 | 5,333 | 2,500 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 5,296 | 5,296 | 11,299 | 5,296 | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | |
| | Motor output | kW | 0.92 x 1 | 0.92 x 1 | 0.92 x 2 | 0.92 x 1 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 4.3 | 4.3 | 5.6 | 2.9 | 5.6 | 5.6 | 4.3 | 4.3 | 5.6 |
| | Case heater | kW | – | – | – | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 920 x 740 | 1,650 x 920 x 740 | 1,650 x 1,750 x 740 | 1,650 x 920 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 36-1/4 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 36-1/4 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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) | | | 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 | | | Over-heat protection, Over-current protection | | |
| Refrigerant | Type x original charge | | R410A x 3.0 kg (7 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 3.0 kg (7 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 170 (375) | 170 (375) | 262 (578) | 170 (375) | 262 (578) | 262 (578) | 247 (545) | 247 (545) | 262 (578) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series

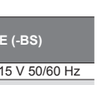
- Cooling-only High Efficiency type

PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP1000YSKE (-BS) | PUCY-EP1050YSKE (-BS) | PUCY-EP1100YSKE (-BS) |
|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 113.5 | 120.0 | 124.0 |
| | | BTU/h | 387,300 | 409,400 | 423,100 |
| | Power input | kW | 25.56 | 27.21 | 28.77 |
| | Current input | A | 43.1-40.9-39.5 | 45.9-43.6-42.0 | 48.5-46.1-44.4 |
| | EER | kW/kW | 4.44 | 4.41 | 4.31 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 65.5 | 65.5 | 65.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-EP300YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP350YKE (-BS) | PUCY-EP400YKE (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 | 11,299 |
| | Control, Driving mechanism | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | | Inverter-control, Direct-driven by motor | | |
| | Motor output | kW | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 4.3 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 6.9 |
| | Case heater | kW | – | – | – | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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) | | | 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 | | | Over-heat protection, Over-current protection | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 247 (545) | 262 (578) | 262 (578) | 262 (578) | 262 (578) | 262 (578) | 262 (578) | 262 (578) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

## - Cooling-only High Efficiency type

# PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP1150YSKE (-BS) | PUCY-EP1200YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) *1 | | kW | 128.0 | 132.0 |
| | | BTU/h | 436,700 | 450,400 |
| | Power input | kW | 30.33 | 31.96 |
| | Current input | A | 51.2-48.6-46.8 | 53.9-51.2-49.4 |
| | EER | kW/kW | 4.22 | 4.13 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 1~50 | 1~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 64.5 | 64.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-EP350YKE (-BS) | PUCY-EP400YKE (-BS) | PUCY-EP400YKE (-BS) | PUCY-EP400YKE (-BS) | PUCY-EP400YKE (-BS) | PUCY-EP400YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 | 11,299 | 11,299 | 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 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| *2 External static press. | | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 262 (578) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | | Excellent | Very Good | Very Good | Very Good | Very Good | Very Good |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series

- Cooling-only High Efficiency type

PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP1250YSKE (-BS) | PUCY-EP1300YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) *1 | | kW | 136.0 | 140.0 |
| | | BTU/h | 464,000 | 477,700 |
| | Power input | kW | 32.92 | 34.73 |
| | Current input | A | 55.5-52.7-50.8 | 58.6-55.6-53.6 |
| | EER | kW/kW | 4.13 | 4.03 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 2~50 | 2~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 64.5 | 65.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-EP400YKE (-BS) | PUCY-EP400YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP400YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP450YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 | 11,299 | 11,299 | 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 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| *2 External static press. | | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 6.9 | 6.9 | 8.0 | 6.9 | 8.0 | 8.0 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | | Very Good | Very Good | Good | Very Good | Good | Good |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT

# YKE-series

## - Cooling-only High Efficiency type

# PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP1350YSKE (-BS) | PUCY-EP1400YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 144.0 | 152.0 |
| | | BTU/h | 491,300 | 518,600 |
| | Power input | kW | 36.09 | 39.07 |
| | Current input | A | 60.9-57.8-55.7 | 65.9-62.6-60.3 |
| | EER | kW/kW | 3.99 | 3.89 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 2~50 | 2~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 65.5 | 67.0 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-EP450YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP450YKE (-BS) | PUCY-EP500YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 | 11,299 | 11,299 | 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 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 10.6 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.



OUTDOOR UNIT

YKE-series

- Cooling-only High Efficiency type

PUCY-EP YSKE (-BS)

## Specifications

| Model | | | PUCY-EP1450YSKE (-BS) | PUCY-EP1500YSKE (-BS) |
|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity (Nominal) | *1 | kW | 160.0 | 168.0 |
| | | BTU/h | 545,900 | 573,200 |
| | Power input | kW | 42.10 | 45.40 |
| | Current input | A | 71.0-67.5-65.0 | 76.6-72.8-70.1 |
| | EER | kW/kW | 3.80 | 3.70 |
| Temp. range of cooling | Indoor | W.B. | 15.0~24.0 °C (59~75 °F) | 15.0~24.0 °C (59~75 °F) |
| | Outdoor | D.B. | 10.0~52.0 °C (50~126 °F) | 10.0~52.0 °C (50~126 °F) |
| Indoor unit connectable | Total capacity | | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Quantity | | 2~50 | 2~50 |
| Sound pressure level (measured in anechoic room) | | dB <A> | 68.5 | 69.5 |
| Refrigerant piping diameter | Liquid pipe | mm (in.) | 19.05 (3/4) Brazed | 19.05 (3/4) Brazed |
| | Gas pipe | mm (in.) | 41.28 (1-5/8) Brazed | 41.28 (1-5/8) Brazed |

**Set Model**

| Model | | | PUCY-EP450YKE (-BS) | PUCY-EP500YKE (-BS) | PUCY-EP500YKE (-BS) | PUCY-EP500YKE (-BS) | PUCY-EP500YKE (-BS) | PUCY-EP500YKE (-BS) |
|---|---|---|---|---|---|---|---|---|
| FAN | Type x Quantity | | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 | Propeller fan x 2 |
| | Air flow rate | $m^3$/min | 320 | 320 | 320 | 320 | 320 | 320 |
| | | L/s | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 | 5,333 |
| | | cfm | 11,299 | 11,299 | 11,299 | 11,299 | 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 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 | 0.92 x 2 |
| | *2 External static press. | | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) | 0 Pa (0 $mmH_2O$) |
| Compressor | Type | | Inverter scroll hermetic compressor | | | Inverter scroll hermetic compressor | | |
| | Starting method | | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Motor output | kW | 8.0 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| | Case heater | kW | – | – | – | – | – | – |
| External finish | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | | Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar> | | |
| External dimension H x W x D | | mm | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 | 1,650 x 1,750 x 740 |
| | | in. | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 x 68-15/16 x 29-3/16 | 65 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 | | |
| Refrigerant | Type x original charge | | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) | R410A x 6.0 kg (14 lbs) |
| Net weight | | kg (lbs) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) | 260 (574) |
| Heat exchanger | | | Salt-resistant corrugated fin & aluminium alloy tube | | | Salt-resistant corrugated fin & aluminium alloy tube | | |
| Pipe between unit and distributor | Liquid pipe | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| | Gas pipe | mm (in.) | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Optional parts | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G | | |
| Engery Labelling Scheme | | |  |  |  |  |  |  |

### Notes:

*1 Nominal cooling conditions (subject to JIS B8615-2)

| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.) | 35 °C D.B. (95 °F D.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.) |

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 $mmH_2O$, 6.1 $mmH_2O$). Consult your dealer about the specification when setting External static pressure option.
*3 The sound level may increase at high outside air temperature.
*Due to continuing improvement, above specifications may be subject to change without notice.

# Indoor unit

A suitable unit can be selected from among a wide lineup of 17 types of units according to a building's needs.
The lineup includes the cassette type, ensuring improved comfort and a pleasant appearance, the ceiling concealed type, excelling in quietness and ensuring flexible placement of air outlets, and the ceiling suspended and wall-mounted types.



## Various installation patterns for indoor situations

### Ceiling Cassette

### Ceiling Concealed

### Other Types

# PLFY-P VEM-PA
# PLFY-EP VEM-E

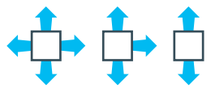

## Optimum Airflow

### 2-, 3-, 4-way Airflow Pattern Selection

Three outlet options to choose from-bidirectional, 3-way, and 4-way to suit different types of installation. Select, for example, 4-directional for installation in the center of the room and 3-directional for installation in the corner.

2-, 3-, 4-way airflow pattern selection

* Optional shuffle placement is required for 2- and 3-way patterns.

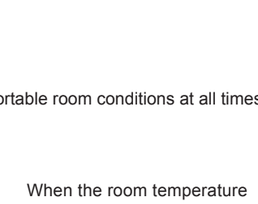


### Individual Vane Angle Settings

Vane directions can be changed or fixed from the remote controller to direct the supply air at or away from the objects or the occupants in the room.

Airflow direction at each vane can be set using the wired remote controller or the wireless remote controller (PAR-SL101A-E).


Multi-directional air-conditioning



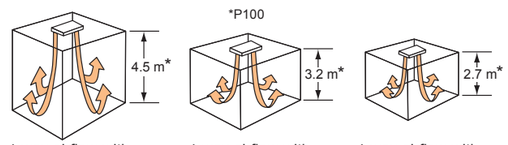
**2-, 3-, 4-way Airflow Pattern Selection**

**Individual Vane Angle Settings**

The combination of individual vane setting enables the optimal outlet setting for each room layout to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

## Equipped with High- and Low-ceiling Modes

Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match a room's height. The ability to choose the optimum airflow volume makes it possible to optimize the breezy sensation felt throughout the room.




4-way airflow with high-ceiling setting

4-way airflow with standard setting

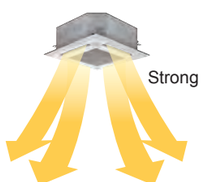
4-way airflow with low-ceiling setting

**Airflow Range**

| Airflow pattern \ Model | P32–P80 | | | P100/P125/P140 | | |
|---|---|---|---|---|---|---|
| | **High-ceiling setting** | Standard setting | **Low-ceiling setting** | **High-ceiling setting** | Standard setting | **Low-ceiling setting** |
| 4-way | **3.5 m** | 2.7 m | **2.5 m** | **4.5 m** | 3.2 m | **2.7 m** |
| 3-way | **3.5 m** | 3.0 m | **2.7 m** | **4.5 m** | 3.6 m | **3.0 m** |
| 2-way | **3.5 m** | 3.3 m | **3.0 m** | **4.5 m** | 4.0 m | **3.3 m** |

## Automatic Air-speed Adjustment

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




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


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

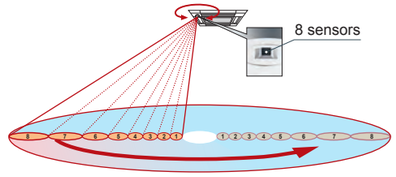


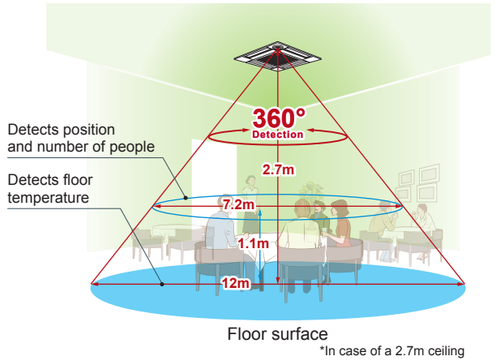


## 3D i-see Sensor

• Highly accurate people detection

A total of eight sensors rotate a full 360° in 3-minute intervals. In addition to detecting human body temperature, our original algorithm also detects people's positions and the number of people.



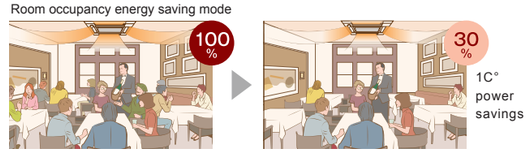

*In case of a 2.7m ceiling

• Detects number of people

### Room occupancy energy-saving mode

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

Room occupancy energy saving mode

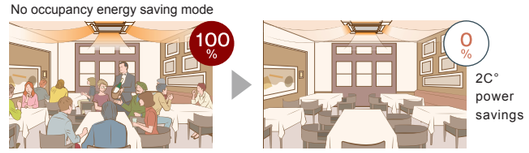



1C° power savings

### No occupancy energy-saving mode

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

No occupancy energy saving mode



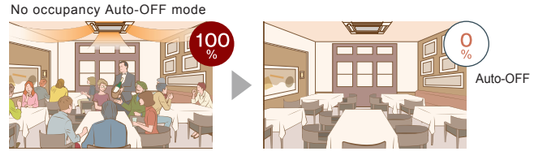

2C° power savings

### No occupancy Auto-OFF mode

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

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

No occupancy Auto-OFF mode



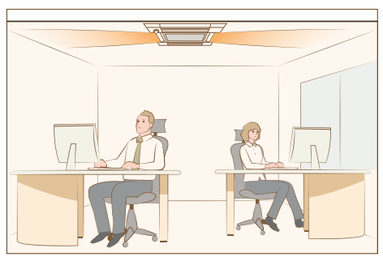

Auto-OFF

*PAR-41MAAM is required for each setting.

• Detects people's position

### Direct/Indirect settings*

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

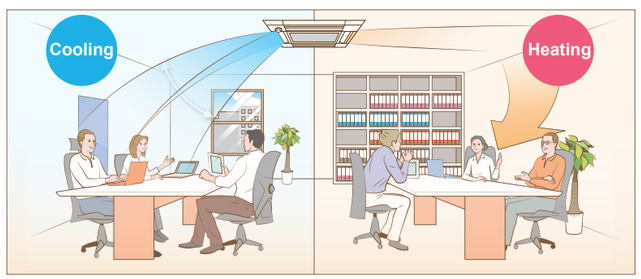


*PAR-41MAAM or PAR-SL101A-E is required for each setting.

### Seasonal airflow*

**<When cooling>**
Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

**<When heating>**
The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.




*PAR-41MAAM is required for each setting.

## Easy Installation

### Temporary hanging hook

The structure of the panel has been redesigned and is now equipped with a temporary hanging hook.
This has improved work efficiency during panel installation.


### No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply loosen them. This lowers the risk of losing screws.

• Corner panel

• Control box cover

### Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made complex wiring work easier.

• PLFY-P VBM-E → • PLFY-P VEM-PA

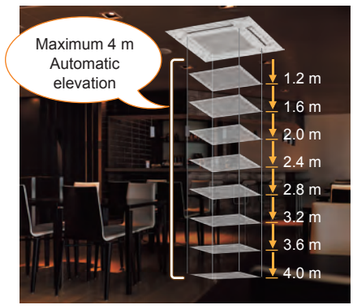

### Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving liquid pipe work and enabling it to be completed smoothly.

• PLFY-P VBM-E → • PLFY-P VEM-PA


## Easy Cleaning

With automatic elevation panel, cleaning the filter is easy, even with high ceilings.

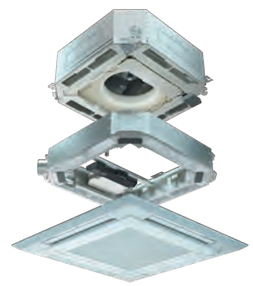



## Connectable to

**Plasma Quad Connect***

The optional Plasma Quad Connect PAC-SK51FT-E can be installed on the indoor units.

* Plasma Quad Connect (PAC-SK51FT-E) cannot be used with Auto elevation panel (PLP-6EAJ), Multi functional casement (PAC-SJ41TM-E), and High-efficiency filter element (PAC-SH59KF-E).



## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| Air outlet shutter plate | PAC-SJ37SP-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Multi-function casement | PAC-SJ41TM-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| High efficiency filter element | PAC-SH59KF-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| 3D i-see Sensor corner panel | PAC-SE1ME-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Auto elevation and signal receiver panel | PLP-6EAJ | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Wireless signal receiver | PAR-SE9FA-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Space panel | PAC-SJ65AS-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Duct flange for fresh air intake | PAC-SH65OF-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Plasma quad connect | PAC-SK51FT-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |
| Anti-allergy enzyme filter | PAC-SK44KF-E | P32, P40, P50, P63, P80, P100, P125, P140 / EP32, EP50 |

## Specifications

| Model | | | | PLFY-P32VEM-PA | PLFY-P40VEM-PA | PLFY-P50VEM-PA | PLFY-P63VEM-PA |
|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220-230V 60Hz | | | |
| Cooling capacity | | *1 | kW | 3.6 | 4.5 | 5.6 | 7.1 |
| | | *1 | BTU/h | 12,300 | 15,400 | 19,100 | 24,200 |
| | Power input | | kW | 0.03 | 0.03 | 0.03 | 0.03 |
| | Current input | | A | 0.32 | 0.32 | 0.32 | 0.36 |
| Heating capacity | | *2 | kW | 4.0 | 5.0 | 6.3 | 8.0 |
| | | *2 | BTU/h | 13,600 | 17,100 | 21,500 | 27,300 |
| | Power input | | kW | 0.03 | 0.03 | 0.03 | 0.03 |
| | Current input | | A | 0.25 | 0.25 | 0.25 | 0.29 |
| External finish | Unit | | | Galvanized steel sheet | | | |
| (Munsell No.) | Panel | | | MUNSELL (1.0Y 9.2/0.2) | | | |
| External dimension | Unit | | mm | 258 x 840 x 840 | | | |
| H x W x D | Panel | | mm | 40 x 950 x 950 | | | |
| Net weight | Unit | | kg | 19 | | | 21 |
| | Panel | | kg | 5 | | | |
| Heat exchanger | | | | Micro slit fin (Aluminum fin and copper tube) | | | |
| Fan | Type x Quantity | | | Turbo fan x 1 | | | |
| | Airflow rate (Low-Mid2-Mid1-High) | | $m^3$/min | 13-14-16-17 | 13-14-16-18 | 13-14-16-19 | 15-16-17-19 |
| | | | L/s | 217-233-267-283 | 217-233-267-300 | 217-233-267-317 | 250-267-283-317 |
| | | | cfm | 459-494-565-600 | 459-494-565-636 | 459-494-565-671 | 530-565-600-671 |
| | External static pressure | | Pa | 0 | | | |
| Motor | Type | | | DC motor | | | |
| | Output | | kW | 0.050 | | | |
| Air filter | | | | PP honeycomb | | | |
| Sound pressure level (Low-Mid2-Mid1-High) | | | dB (A) | 26-27-29-31 | 26-27-29-31 | 26-27-29-31 | 28-29-30-32 |
| Refrigerant control device | | | | LEV | | | |
| Diameter of refrigerant pipe | Liquid | | mm (in.) | ø6.35 (ø1/4) Flare | | | ø9.52 (ø3/8) Flare |
| | Gas | | mm (in.) | ø12.7 (ø1/2) Flare | | | ø15.88 (ø5/8) Flare |
| Field drain pipe size | | | mm (in.) | O.D 32 (1-1/4) | | | |

| Model | | | | PLFY-P80VEM-PA | PLFY-P100VEM-PA | PLFY-P125VEM-PA | PLFY-P140VEM-PA | PLFY-EP32VEM-E | PLFY-EP50VEM-E |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220-230V 60Hz | | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | |
| Cooling capacity | | *1 | kW | 9.0 | 11.2 | 14.0 | 16.0 | 3.6 | 5.6 |
| | | *1 | BTU/h | 30,700 | 38,200 | 47,800 | 54,600 | 12,300 | 19,100 |
| | Power input | | kW | 0.05 | 0.07 | 0.11 | 0.11 | 0.11 | 0.11 |
| | Current input | | A | 0.50 | 0.67 | 1.06 | 1.06 | 0.98 | 0.98 |
| Heating capacity | | *2 | kW | 10.0 | 12.5 | 16.0 | 18.0 | 4.0 | 6.3 |
| | | *2 | BTU/h | 34,100 | 42,700 | 54,600 | 61,400 | 13,600 | 21,500 |
| | Power input | | kW | 0.05 | 0.07 | 0.11 | 0.11 | 0.11 | 0.11 |
| | Current input | | A | 0.43 | 0.60 | 0.99 | 0.99 | 0.93 | 0.93 |
| External finish | Unit | | | Galvanized steel sheet | | | | | |
| (Munsell No.) | Panel | | | MUNSELL (1.0Y 9.2/0.2) | | | | | |
| External dimension | Unit | | mm | 258 x 840 x 840 | 298 x 840 x 840 | | | | |
| H x W x D | Panel | | mm | 40 x 950 x 950 | | | | | |
| Net weight | Unit | | kg | 21 | 24 | | 26 | 27 | |
| | Panel | | kg | 5 | | | | | |
| Heat exchanger | | | | Micro slit fin (Aluminum fin and copper tube) | | | | Cross fin (Aluminum fin and copper tube) | |
| Fan | Type x Quantity | | | Turbo fan x 1 | | | | | |
| | Airflow rate (Low-Mid2-Mid1-High) | | $m^3$/min | 15-18-20-23 | 20-23-26-29 | 24-26-30-35 | 22-27-31-35 | 22-26-30-34 | 22-26-30-34 |
| | | | L/s | 250-300-333-383 | 333-383-433-483 | 400-433-500-583 | 367-450-517-583 | 367-433-500-567 | 367-433-500-567 |
| | | | cfm | 530-636-706-812 | 706-812-918-1024 | 847-918-1060-1236 | 777-953-1095-1235 | 777-918-1059-1201 | 777-918-1059-1201 |
| | External static pressure | | Pa | 0 | | | | | |
| Motor | Type | | | DC motor | | | | | |
| | Output | | kW | 0.050 | 0.120 | | | | |
| Air filter | | | | PP honeycomb | | | | | |
| Sound pressure level (Low-Mid2-Mid1-High) | | | dB (A) | 28-31-34-37 | 34-37-39-41 | 35-39-42-45 | 36-39-42-45 | 34-38-42-45 | 34-38-42-45 |
| Refrigerant control device | | | | LEV | | | | | |
| Diameter of refrigerant pipe | Liquid | | mm (in.) | ø9.52 (ø3/8) Flare | | | | ø6.35 (ø1/4) Flare | |
| | Gas | | mm (in.) | ø15.88 (ø5/8) Flare | | | | ø12.7 (ø1/2) Flare | |
| Field drain pipe size | | | mm (in.) | O.D 32 (1-1/4) | | | | O.D. ø32 (1-1/4) (VP-25) | |

**Notes:**

*1. Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

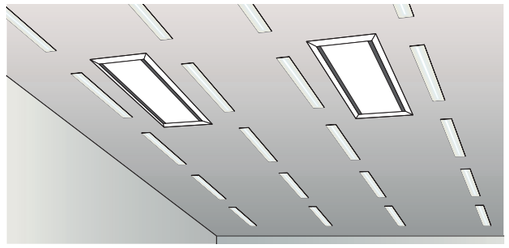
*2. Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

* PLFY-EP-VEM-E cannot be connected to PUMY.

# PLFY-P VLMD-E

## Simple panel design

In-take port is not a grille but made in stylish design. It can be installed visually beautifully in harmony with ceiling and illuminations.



## Vane Control

Vane angle can be selected from 7 types including "Horizontal fix" and "Swing" to set a airblow type according to your taste.

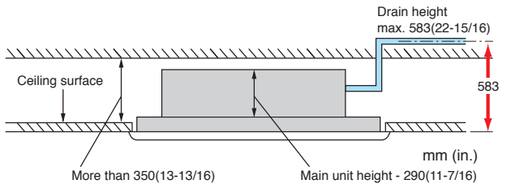
*Airflow direction cannot be changed individually.

**Air blow** Swing


**Windbreak** Horizontal airflow


## Drain pump is equipped as standard feature

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




## Optional Parts

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





## Specifications

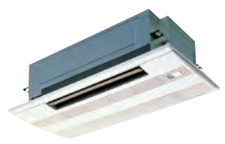
| Model | | | | PLFY-P20VLMD-E | PLFY-P25VLMD-E | PLFY-P32VLMD-E | PLFY-P40VLMD-E |
|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220-230V 60Hz | | | |
| Cooling capacity | | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | | *1 | BTU/h | 7,500 | 9,600 | 12,300 | 15,400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

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

**Notes:**

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

# PMFY-P VBM-E
# PMFY-P VFM-PA NEW



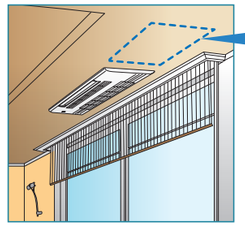
PMFY-P VBM-E (P20-P40)

PMFY-P VFM-PA (P50-P80)

Office School Restaurant Residence

## Ceiling Mounted

Installing a the 1-way airflow type unit in a room creates a more spacious feel that enhances room comfort. This overhead format is also an excellent solution when lighting equipment is installed at the center of the room and fixtures such as book shelves are mounted on wall surfaces.




## Expanded line-up

Newly introducing bigger capacity P50-P80 models to suit larger room sizes.

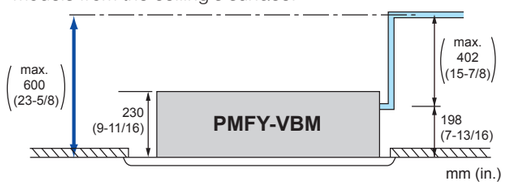
| Capacity | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 NEW |
|---|---|---|---|---|---|---|---|---|
| Model | PMFY-P VBM | | | | PMFY-P VFM | | | |

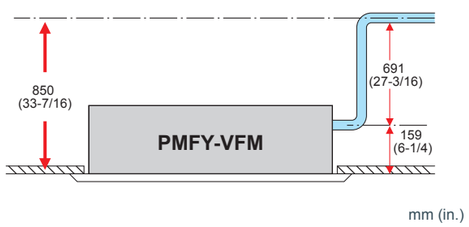
## Compact size for smooth installation and maintenance(PMFY-P VBM-E)

Unit body size has been standardized for all models at 812 mm for easier installation. Body weight is only 14 kg for the main unit and 3 kg for the panel, making this unit one of the lightest in the industry.

## Drain pump is equipped as stanadard feature

The drain can be positioned anywhere up to 600 mm (23-5/8 in.) for P20-40VBM models and 850 mm (33-7/16 in.) for P50-80VFM models from the ceiling's surface.

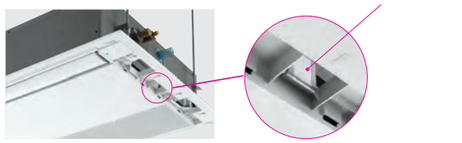



## Easy installation (PMFY-P VFM-PA)

### Temporary hanging hook

The panel is equipped with a temporary hanging hook. This structure makes work efficiency easier during panel installation.




### Easy access to suspension bolt

The structure of the panel makes access to suspension bolt easier for height adjustment during installation and maintenance.

## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| Decoration panel | PMP-40BMW | P20, P25, P32, P40 |
| | PMP-63FMW | P50, P63, P71, P80 |
| Anti-allergy enzyme filter | PAC-SK47KF-E | P50, P63, P71, P80 |
| Left/right airflow direction louver | PAC-SJ15LR-E | P50, P63, P71, P80 |
| External LEV box | PAC-SG95LE-E | P50, P63 |





## Specifications

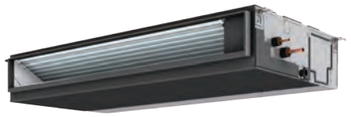
| Model | | | | PMFY-P20VBM-E | PMFY-P25VBM-E | PMFY-P32VBM-E | PMFY-P40VBM-E |
|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220V 60Hz | | | |
| Cooling capacity | | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | | *1 | BTU/h | 7,500 | 9,600 | 12,300 | 15,400 |
| Heating capacity | | *1 | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| | | *1 | BTU/h | 8,500 | 10,900 | 13,600 | 17,100 |
| Power consumption | Cooling | | kW | 0.042 | 0.044 | | 0.054 |
| | Heating | | kW | 0.042 | 0.044 | | 0.054 |
| Current | Cooling | | A | 0.20 | 0.21 | | 0.26 |
| | Heating | | A | 0.20 | 0.21 | | 0.26 |
| External finish (Munsell No.) | | | | White (6.4Y 8.9/0.4) | | | |
| Dimension H x W x D | Unit | | mm (in.) | 230 x 812 x 395 (9-1/16 x 32 x 15-9/16) | | | |
| | Panel | | mm (in.) | 30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16) | | | |
| Net weight | Unit | | kg (lbs.) | 14 (31) | | | |
| | Panel | | kg (lbs.) | 3 (7) | | | |
| Heat exchanger | | | | Cross fin (Aluminum plate fin and copper tube) | | | |
| Fan | Type x Quantity | | | Line flow fan x 1 | | | |
| | Airflow rate (Lo-Mid2-Mid1-Hi) | *2 | $m^3$/min | 6.5-7.2-8.0-8.7 | 7.3-8.0-8.6-9.3 | | 7.7-8.7-9.7-10.7 |
| | | | L/s | 108-120-133-145 | 122-133-143-155 | | 128-145-162-178 |
| | | | cfm | 230-254-283-307 | 258-283-304-328 | | 272-307-343-378 |
| | External static pressure | | Pa | 0 | | | |
| Motor | Type | | | 1-phase induction motor | | | |
| | Output | | kW | 0.028 | | | |
| Air filter | | | | PP Honeycomb fabric | | | |
| Refrigerant pipe diameter | Gas (Flare) | | mm (in.) | ø12.7 (ø1/2) | | | |
| | Liquid (Flare) | | mm (in.) | ø6.35 (ø1/4) | | | |
| Field drain pipe diameter | | | mm (in.) | O.D. 26 (1) | | | |
| Sound pressure level (Lo-Mid2-Mid1-Hi) | | *2 *3 | dB (A) | 27-30-33-35 | 32-34-36-37 | | 33-35-37-39 |

| Model | | | | PMFY-P50VFM-PA | PMFY-P63VFM-PA | PMFY-P71VFM-PA | PMFY-P80VFM-PA |
|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220-230V 60Hz | | | |
| Cooling capacity | | *1 | kW | 5.6 | 7.1 | 8.0 | 9.0 |
| | | *1 | BTU/h | 19,100 | 24,200 | 27,300 | 30,700 |
| Heating capacity | | *1 | kW | 6.3 | 8.0 | 9.0 | 10.0 |
| | | *1 | BTU/h | 21,500 | 27,300 | 30,700 | 34,100 |
| Power consumption | Cooling | | kW | 0.060 | 0.075 | 0.090 | 0.13 |
| | Heating | | kW | 0.045 | 0.060 | 0.075 | 0.12 |
| Current | Cooling | | A | 0.47 | 0.63 | 0.74 | 1.01 |
| | Heating | | A | 0.42 | 0.55 | 0.62 | 0.96 |
| External finish (Munsell No.) | | | | White (6.4Y 8.9/0.4) | | | |
| Dimension H x W x D | Unit | | mm (in.) | 225 x 1112 x 724 (8-7/8 x 43-3/4 x 24-1/2) | | | |
| | Panel | | mm (in.) | 20 x 1340 x 800 (13/16 x 52-3/4 x 31-1/2) | | | |
| Net weight | Unit | | kg (lbs.) | 26 (57) | 28 (62) | | 29 (64) |
| | Panel | | kg (lbs.) | 6.5 (14) | | | |
| Heat exchanger | | | | Cross fin (Aluminum plate fin and copper tube) | | | |
| Fan | Type x Quantity | | | Sirocco fan x 2 | Sirocco fan x 3 | | |
| | Airflow rate (Lo-Mid2-Mid1-Hi) | *2 | $m^3$/min | 11-12-14-16 | 14-16-17-19 | 14-16-18-20 | 12-16-20-24 |
| | | | L/s | 183-200-233-267 | 233-267-283-317 | 233-267-300-333 | 200-270-330-400 |
| | | | cfm | 388-424-494-565 | 494-565-600-671 | 494-565-636-706 | 420-570-710-850 |
| | External static pressure | | Pa | 0 | | | |
| Motor | Type | | | DC motor | | | |
| | Output | | kW | 0.09 | 0.095 | | |
| Air filter | | | | PP honeycomb fabric | | | |
| Refrigerant pipe diameter | Gas (Flare) | | mm (in.) | ø12.7 (ø1/2) | ø15.88 (ø5/8) | | |
| | Liquid (Flare) | | mm (in.) | ø6.35 (ø1/4) | ø9.52 (ø3/8) | | |
| Field drain pipe diameter | | | mm (in.) | O.D.32 (1-1/4) | | | |
| Sound pressure level (Lo-Mid2-Mid1-Hi) | | *2 *3 | dB (A) | 29-32-35-38 | 32-35-37-39 | 32-35-38-41 | 36-41-46-50 |

**Notes:**

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

# PEFY-P VMA(L)-E4

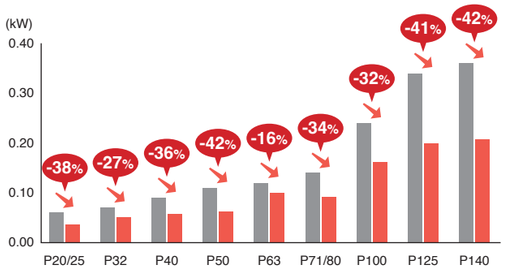


PEFY-P VMA(L)-E4

## Less power consumption

The shape of fan wing and casing is improved to provide more smooth airflow. Besides, the drain pump motor is changed from AC motor to high-efficient DC motor. Operation efficiency is increased by the air flow and motor, which realizes up to 42% reduction in energy consumption (P50/140).

**Comparison of energy consumption in cooling operation**




* The values are measured at high fan speed setting and external static pressure of 50 Pa.

## External static pressure is settable up to 150 Pa (VMA(L)-E4)

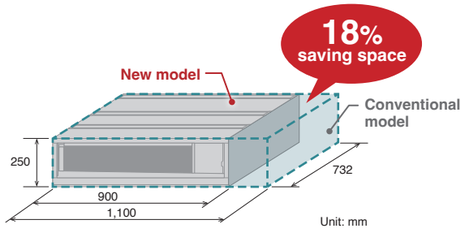
Five-stage external static pressure settings provide flexibility for duct extension, branching, and air outlet configuration and are adjustable to meet different application conditions. Setting ranges to maximum of 150 Pa.

**External static pressure settings**

| Series | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 140 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PEFY-P VMA(L)-E4 | 35/50/70/100/150 Pa | | | | | | 40/50/70/100/150 Pa | | | | |

## Compact unit requires less installation space (applicable to the PEFY-P63VMA-E4 model only)

The use of new fan with improved air pathway helps to reduce the size of the P63 model unit. The P63 model unit is 200 mm less in width and fits into tighter ceiling space.

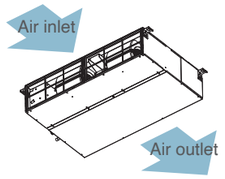



## Air inlet direction can be easily changed

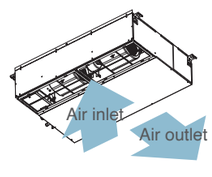
By simply switching the closing board and air filter, the inlet layout can be changed from the rear inlet to the bottom inlet. (At factory shipment: Rear inlet)

**Two air inlet options can be chosen, rear or bottom:**

1. Rear inlet



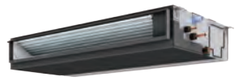

2. Bottom inlet



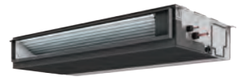

* Unit with a bottom inlet make more noise than those with a rear inlet. It is recommended that the rear inlet be selected when installing the units in rooms that should be quiet, such as bedrooms.

## Drain pump is optionally selectable

The lineup consists of two types: models with or without a built-in drain pump, thus allowing more freedom in piping layout design.

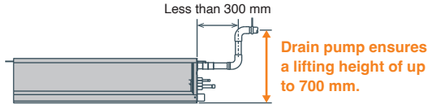


**PEFY-P VMA-E4 Built-in drain pump**



**PEFY-P VMAL-E4 No drain pump**

| | |
|---|---|
| Built-in drain pump | PEFY-P VMA-E4, PEFY-P-VMA3/4-E |
| No drain pump | PEFY-P VMAL-E4 |








## Specifications

* [ ] is in case of PEFY-P VMAL-E4.

| Model | | | PEFY-P32VMA(L)-E4 | PEFY-P40VMA(L)-E4 | PEFY-P50VMA(L)-E4 | PEFY-P63VMA(L)-E4 |
|---|---|---|---|---|---|---|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | | | |
| Cooling capacity (Nominal) | *1 | kW | 3.6 | 4.5 | 5.6 | 7.1 |
| | *1 | BTU/h | 12,300 | 15,400 | 19,100 | 24,200 |
| | Power input *2 | kW | 0.044 [0.042] | 0.047 [0.045] | 0.066 [0.064] | 0.087 [0.085] |
| | Current input *2 (220-230-240 V) | A | 0.36 - 0.34 - 0.33 | 0.39 - 0.37 - 0.36 | 0.53 - 0.51 - 0.49 | 0.69 - 0.66 - 0.63 |
| Heating capacity (Nominal) | *3 | kW | 4.0 | 5.0 | 6.3 | 8.0 |
| | *3 | BTU/h | 13,600 | 17,100 | 21,500 | 27,300 |
| | Power input *2 | kW | 0.042 | 0.045 | 0.064 | 0.085 |
| | Current input *2 (220-230-240 V) | A | 0.36 - 0.34 - 0.33 | 0.39 - 0.37 - 0.36 | 0.53 - 0.51 - 0.49 | 0.69 - 0.66 - 0.63 |
| External finish | | | Galvanized steel plate | | | |
| External dimension H x W x D | | mm | 250 x 700 x 732 | 250 x 900 x 732 | 250 x 900 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 | 9-7/8 x 35-7/16 x 28-7/8 | 9-7/8 x 35-7/16 x 28-7/8 |
| Net weight | | kg (lbs) | 21.5 (49) [21 (47)] | 26 (58) [25.5 (58)] | 26 (58) [25.5 (58)] | 27 (60) [26.5 (60)] |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | |
| FAN | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 |
| | External static press. *4 | Pa | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> |
| | Motor Type | | DC motor | | | |
| | Motor output | kW | 0.085 | 0.121 | 0.121 | 0.121 |
| | Air flow rate (Lo-Mid-Hi) | $m^3$/min | 7.5 - 9.0 - 10.5 | 10.0 - 12.0 - 14.0 | 12.0 - 14.5 - 17.0 | 13.5 - 16.0 - 19.0 |
| | | L/s | 125 - 150 - 175 | 167 - 200 - 233 | 200 - 242 - 283 | 225 - 267 - 317 |
| | | cfm | 265 - 318 - 371 | 353 - 424 - 494 | 424 - 512 - 600 | 477 - 565 - 671 |
| Sound pressure level (measured in anechoic room) (Lo-Mid-Hi) | *2 *5 | dB <A> | 24.0 - 28.0 - 31.0 | 24.0 - 29.0 - 32.0 | 25.0 - 32.0 - 35.0 | 28.0 - 32.0 - 36.0 |
| Air filter | | | PP honeycomb fabric. | | | |
| Refrigerant piping diameter | Liquid (R410A) | mm (in.) | 6.35 (1/4) Brazed | 6.35 (1/4) Brazed | 6.35 (1/4) Brazed | 9.52 (3/8) Brazed |
| | Gas (R410A) | mm (in.) | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed |
| Field drain pipe size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |

| Model | | | PEFY-P71VMA(L)-E4 | PEFY-P80VMA(L)-E4 | PEFY-P100VMA(L)-E4 | PEFY-P125VMA(L)-E4 | PEFY-P140VMA(L)-E4 |
|---|---|---|---|---|---|---|---|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | | | | |
| Cooling capacity (Nominal) | *1 | kW | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 |
| | *1 | BTU/h | 27,300 | 30,700 | 38,200 | 47,800 | 54,600 |
| | Power input *2 | kW | 0.080 [0.078] | 0.080 [0.078] | 0.142 [0.140] | 0.199 [0.197] | 0.208 [0.206] |
| | Current input *2 (220-230-240 V) | A | 0.60 - 0.57 - 0.55 | 0.60 - 0.57 - 0.55 | 1.01 - 0.97 - 0.93 | 1.29 - 1.23 - 1.18 | 1.40 - 1.34 - 1.28 |
| Heating capacity (Nominal) | *3 | kW | 9.0 | 10.0 | 12.5 | 16.0 | 18.0 |
| | *3 | BTU/h | 30,700 | 34,100 | 42,700 | 54,600 | 61,400 |
| | Power input *2 | kW | 0.078 | 0.078 | 0.140 | 0.197 | 0.206 |
| | Current input *2 (220-230-240 V) | A | 0.60 - 0.57 - 0.55 | 0.60 - 0.57 - 0.55 | 1.01 - 0.97 - 0.93 | 1.29 - 1.23 - 1.18 | 1.40 - 1.34 - 1.28 |
| External finish | | | Galvanized steel plate | | | | |
| External dimension H x W x D | | mm | 250 x 1,100 x 732 | 250 x 1,100 x 732 | 250 x 1,400 x 732 | 250 x 1,400 x 732 | 250 x 1,600 x 732 |
| | | in. | 9-7/8 x 43-5/16 x 28-7/8 | 9-7/8 x 43-5/16 x 28-7/8 | 9-7/8 x 55-1/8 x 28-7/8 | 9-7/8 x 55-1/8 x 28-7/8 | 9-7/8 x 63 x 28-7/8 |
| Net weight | | kg (lbs) | 30 (67) [29.5 (67)] | 30 (67) [29.5 (67)] | 37.5 (84) [37 (82)] | 38.5 (86) [38 (84)] | 41.5 (93) [41 (91)] |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 3 |
| | External static press. *4 | Pa | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> |
| | Motor Type | | DC motor | | | | |
| | Motor output | kW | 0.121 | 0.121 | 0.300 | 0.300 | 0.300 |
| | Air flow rate (Lo-Mid-Hi) | $m^3$/min | 14.5 - 18.0 - 21.0 | 14.5 - 18.0 - 21.0 | 23.0 - 28.0 - 32.0 | 28.0 - 34.0 - 37.0 | 29.5 - 35.5 - 40.0 |
| | | L/s | 242 - 300 - 350 | 242 - 300 - 350 | 383 - 467 - 533 | 467 - 567 - 617 | 492 - 592 - 667 |
| | | cfm | 512 - 636 - 742 | 512 - 636 - 742 | 812 - 989 - 1,130 | 989 - 1,201 - 1,306 | 1,042 - 1,254 - 1,412 |
| Sound pressure level (measured in anechoic room) (Lo-Mid-Hi) | *2 *5 | dB <A> | 26.0 - 32.0 - 35.0 | 26.0 - 32.0 - 35.0 | 31.0 - 36.0 - 39.0 | 35.0 - 39.0 - 41.0 | 34.0 - 38.0 - 41.0 |
| Air filter | | | PP honeycomb fabric. | | | | |
| Refrigerant piping diameter | Liquid (R410A) | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed |
| | Gas (R410A) | mm (in.) | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed | 15.88 (5/8) Brazed |
| Field drain pipe size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |

**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 airflow mode and external static pressure mode 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 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

# PEFY-P VMH(S)-E

PEFY-P VMH-E

PEFY-P VMHS-E (P40-P140)

PEFY-P VMHS-E (P200/P250)


## Sufficient external static pressure ensuring flexible duct design

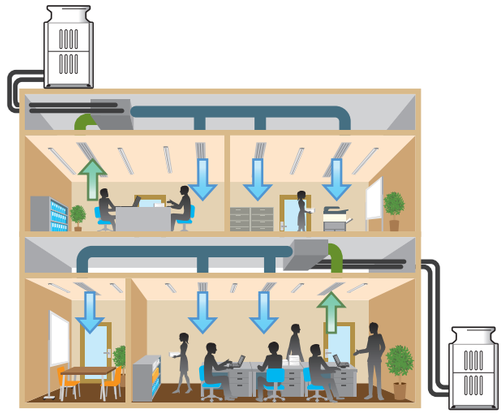
Sufficient external static pressure enables designs with long ducts and greatly expands design possibilities. Ducted air-conditioning that maches an interior design can be realized.

| PEFY-P VMHS | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 |
|---|---|---|---|---|---|---|---|---|
| External static pressure (Pa) | 50 – <100> – <150> – <200> | | | | | | | |

| PEFY-P VMHS-E | P200 | P250 |
|---|---|---|
| External static pressure (Pa) | <50> – <100> – 150 – <200> – <250>* | |

* The rated external static pressure is shown without < >.
The factory setting is the rated value.

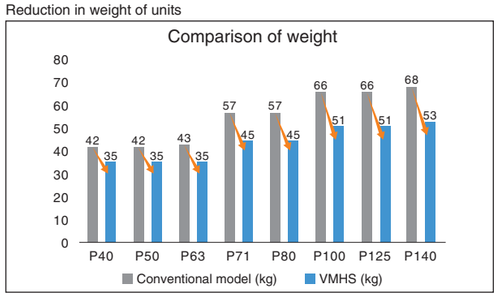
| PEFY-P VMH-E | | P200 | P250 |
|---|---|---|---|
| External static pressure (Pa) | 380 V | <110> – 220 | |
| | 400/415 V | <130> – 260 | |



## Low Power Consumption and Weight by DC motor(VMHS)

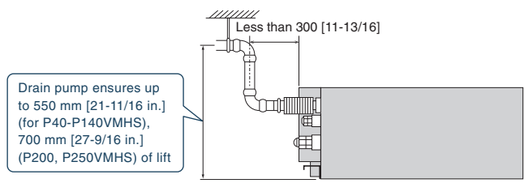
P40 to P140VMHS Models use DC motors. This reduces the power consumption and weight of the units.

Reduction in weight of units




## Drain pump (option) ensures up to 550 mm [21-11/16 in.] for P40-P140VMHS, P200/P250VMH model / 700 mm [27-9/16 in.] for P200/P250VMHS models

The introduction of an upper drain pump allows the drain connection to be raised as high as 550 mm [21-11/16 in.] for P40-P140VMHS, P200/P250VMH models/700 mm [27-9/16 in.] for P200, 500VMHS models, allowing more freedom in piping layout design and reducing horizontal piping requirements.




mm (in.)

## Optional Parts

| Description | Model | Applicable capacity | | Remarks |
|---|---|---|---|---|
| | | VMH-E | VMHS-E | |
| Drain pump | PAC-KE04DM-F | P200, P250 | - | |
| | PAC-KE05DM-F | - | P200, P250 | |
| | PAC-DRP10DP-E2 | - | P40-P140 | |
| Long life filter | PAC-KE86LAF | - | P40, P50, P63 | |
| | PAC-KE88LAF | - | P71, P80 | |
| | PAC-KE89LAF | - | P100, P125, P140 | |
| | PAC-KE85LAF | P200, P250 | P200, P250 | |
| Filter box | PAC-KE63TB-F | - | P40, P50, P63 | Required when long life filter is used |
| | PAC-KE99TB-F | - | P71, P80 | |
| | PAC-KE140TB-F | - | P100, P125, P140 | |
| | PAC-KE250TB-F | P200, P250 | P200, P250 | |





## Specifications

| Model | | | | PEFY-P40VMHS-E | PEFY-P50VMHS-E | PEFY-P63VMHS-E | PEFY-P71VMHS-E | PEFY-P80VMHS-E | PEFY-P100VMHS-E | PEFY-P125VMHS-E | PEFY-P140VMHS-E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-230-240 V 50/60 Hz | | | | | | | |
| Cooling capacity | | *1 | kW | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 |
| | | *1 | BTU/h | 15,400 | 19,100 | 24,200 | 27,300 | 30,700 | 38,200 | 47,800 | 54,600 |
| | *2 | Power input | kW | 0.055 | | 0.090 | 0.075 | 0.090 | 0.160 | | 0.190 |
| | *2 | Current input (220-230-240 V) | A | 0.41-0.39-0.38 | | 0.64-0.62-0.59 | 0.54-0.52-0.50 | 0.63-0.61-0.58 | 1.05-1.01-0.96 | | 1.24-1.19-1.14 |
| Heating capacity | | *3 | kW | 5.0 | 6.3 | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 | 18.0 |
| | | *3 | BTU/h | 17,100 | 21,500 | 27,300 | 30,700 | 34,100 | 42,700 | 54,600 | 61,400 |
| | *2 | Power input | kW | 0.055 | | 0.090 | 0.075 | 0.090 | 0.160 | | 0.190 |
| | *2 | Current input (220-230-240 V) | A | 0.41-0.39-0.38 | | 0.64-0.62-0.59 | 0.54-0.52-0.50 | 0.63-0.61-0.58 | 1.05-1.01-0.96 | | 1.24-1.19-1.14 |
| External finish | | | | Galvanized steel plate | | | | | | | |
| External dimension H x W x D | | | mm | 380 x 745 x 900 | | | 380 x 1,030 x 900 | | 380 x 1,195 x 900 | | |
| | | | in. | 15 x 29-3/8 x 35-7/16 | | | 15 x 40-9/16 x 35-7/16 | | 15 x 47-1/16 x 35-7/16 | | |
| Net weight | | | kg (lbs.) | 35 (78) | | | 45 (100) | | 51 (113) | | 53 (117) |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | | | | | |
| Fan | Type x Quantity | | | Sirocco fan x 1 | | | Sirocco fan x 2 | | | | |
| | *4 External static press. | | Pa | 50-<100>-<150>-<200> | | | | | | | |
| | | | $mmH_2O$ | 5.1-<10.2>-<15.3>-<20.4> | | | | | | | |
| | Motor Type | | | DC motor | | | | | | | |
| | Motor output | | kW | 0.121 | | | 0.244 | | 0.375 | | |
| | Air flow rate | | | (Low-Mid-High) | | | | | | | |
| | | | $m^3$/min | 10.0-12.0-14.0 | | 13.5-16.0-19.0 | 15.5-18.0-22.0 | 18.0-21.5-25.0 | 26.5-32.0-38.0 | | 28.0-34.0-40.0 |
| | | | L/s | 167-200-233 | | 225-267-317 | 258-300-367 | 300-358-417 | 442-533-633 | | 467-567-667 |
| | | | cfm | 353-424-494 | | 477-565-671 | 547-636-777 | 636-759-883 | 936-1,130-1,342 | | 989-1,201-1,412 |
| Sound pressure level (measured in anechoic room) | | | | (Low-Mid-High) | | | | | | | |
| | | *2 | dB <A> | 20-23-27 | | 24-27-32 | 24-26-30 | 25-27-30 | 27-31-34 | | 27-32-36 |
| Air filter | | | | Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended. | | | | | | | |
| Refrigerant piping diameter | Gas (R410A) | | mm (in.) | 12.7 (1/2) Brazed | | 15.88 (5/8) Brazed | | | | | |
| | Liquid (R410A) | | mm (in.) | 6.35 (1/4) Brazed | | 9.52 (3/8) Brazed | | | | | |
| Field drain pipe diameter | | | mm (in.) | O.D.32 (1-1/4) | | | | | | | |

| Model | | | | PEFY-P200VMHS-E | PEFY-P250VMHS-E |
|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220-240V 60Hz | |
| Cooling capacity | | *5 | kW | 22.4 | 28.0 |
| | | *5 | BTU/h | 76,400 | 95,500 |
| Heating capacity | | *5 | kW | 25.0 | 31.5 |
| | | *5 | BTU/h | 85,300 | 107,500 |
| Power consumption | Cooling | | kW | 0.63 *2 | 0.82 *2 |
| | Heating | | kW | 0.63 *2 | 0.82 *2 |
| Current | Cooling | 380-415V | A | – | |
| | | 220-230-240V | A | 3.47-3.32-3.18 *2 | 4.72-4.43-4.14 *2 |
| | Heating | 380-415V | A | – | |
| | | 220-230-240V | A | 3.47-3.32-3.18 *2 | 4.72-4.43-4.14 *2 |
| External finish | | | | Galvanized steel plate | |
| Dimension H x W x D | | | mm | 470 x 1,250 x 1,120 | |
| | | | in. | 18-9/16 x 49-1/4 x 44-1/8 | |
| Net weight | | | kg (lbs.) | 97 (214) | 100 (221) |
| Heat exchanger | | | | Cross fin (Aluminum plate fin and copper tube) | |
| Fan | Type x Quantity | | | Sirocco fan x 2 | |
| | Airflow rate | | $m^3$/min | – | |
| | | | L/s | – | |
| | | | cfm | – | |
| | | Lo-Mid-Hi | $m^3$/min | 50.0-61.0-72.0 | 58.0-71.0-84.0 |
| | | | L/s | 833-1017-1200 | 967-1183-1400 |
| | | | cfm | 1766-2154-2542 | 2048-2507-2966 |
| | External static pressure | 380V | Pa | – | |
| | | 400, 415V | Pa | – | |
| | | | Pa | <50>-<100>-150-<200>-<250> *9 | |
| | | | $mmH_2O$ | <5.1>-<10.2>-15.3-<20.4>-<25.5> *9 | |
| Motor | Type | | | DC motor | |
| | Output | | kW | 0.87 | |
| Air filter (option) | | | | Synthethic fiber unwoven cloth filter (long life filter) and filter box are recommended. | |
| Refrigerant piping diameter | Gas (Brazing) | | mm (in.) | ø19.05 (ø3/4) | ø22.2 (ø7/8) |
| | Liquid (Brazing) | | mm (in.) | ø9.52 (ø3/8) | |
| Field drain pipe diameter | | | mm (in.) | O.D. 32 (1-1/4) | |
| Sound pressure level | 380V | | dB (A) | – | |
| | 400, 415V | | dB (A) | – | |
| | Lo-Mid-Hi | | dB (A) | 36-39-43 *10 | 39-42-46 *10 |

### Notes:

*1 Nominal cooling conditions
Indoor: 27˚CD.B./19˚CW.B. (81˚FD.B./66˚FW.B.), Outdoor: 35˚CD.B. (95˚FD.B.)
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˚CD.B. (68˚FD.B.), Outdoor: 7˚CD.B./6˚CW.B. (45˚FD.B./43˚FW.B.)
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 Cooling/heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
*6 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
*7 The value are that at 415V.
*8 It is measured in anechoic room.
*9 The rated external static pressure is shown without < >.
The factory setting is the rated value.
*10 It is measured at the rated external static pressure in anechoic room.

# PEFY-P VMHS-E-F

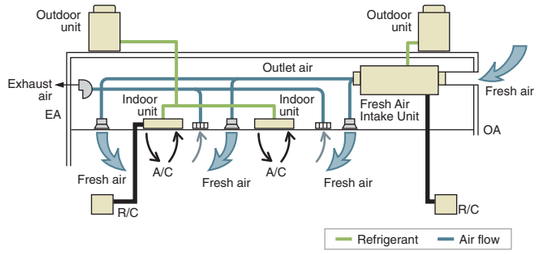
PEFY-P VMHS-E-F (P125)

PEFY-P VMHS-E-F (P200/P250)

## Enables Intake of Outside Air

Fresh air can be taken in with temperature control. Fresh air intake is available for each air-conditioning zone.

* Fresh air intake type indoor unit is designed to supply pretreated outside air into the room. Do not use to handle internal thermal load.




## Controllable Outlet Air Temperature

Pre-treating the intake air before being supplied to the room contributes to the stability of room temperature, ensuring optimized comfort of the occupants.

* Outlet air temperature may fluctuate, depending on the outside air temperature and the operating status of indoor and outdoor units.

## Equipped with DC Fan Motor

Fan motor has been changed to higher efficiency DC motor. Power source has been changed from three-phase power supply to single-phase power supply, which allows for easier installation.

* Comparison with PEFY-P140, 200, 250VMH-E-F

## Flexible Air-Flow Setting

Four levels of external static pressure levels to choose from compared to the three levels on the existing models

| Model | P125 | P200 | P250 |
|---|---|---|---|
| External static pressure (Pa) | <100> – <150> – 200 – <250> | | |

*The factory setting of external static pressure is shown without chevrons "< >".

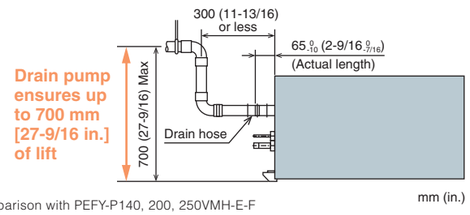
Two types of air-flow modes are available, each of which has three air-flow rates to choose from.

| Mode | Normal-airflow rate | High-airflow rate |
|---|---|---|
| Air-flow rate | Low-Medium-High | Low-Medium-High |

*Air-flow rates are accessible from the remote controller.

## Drain Pump (Optional)

Greater design flexibility made possible by the increased head height (Max. 700 mm)*




* Comparison with PEFY-P140, 200, 250VMH-E-F

## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| Drain pump kit | PAC-DRP10DP-E2 | P125 |
| | PAC-KE06DM-F | P200, 250 |
| Long life filter | PAC-KE89LAF | P125 |
| | PAC-KE85LAF | P200, 250 |
| Filter box | PAC-KE140TB-F | P125 |
| | PAC-KE250TB-F | P200, 250 |





## Specifications

| Model | | | PEFY-P125VMHS-E-F | PEFY-P200VMHS-E-F | PEFY-P250VMHS-E-F *6 |
|---|---|---|---|---|---|
| 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 | 14.0 | 22.4 | 28.0 |
| | *1 | BTU/h | 47,800 | 76,400 | 95,500 |
| | *2 Power input | kW | 0.220 | 0.260 | 0.350 |
| | *2 Current input (220 V) | A | 1.43 | 1.66 | 2.16 |
| Temp. range of cooling | | | 17°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 17°CD.B. | 17°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 17°CD.B. | 17°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 17°CD.B. |
| Heating capacity (Nominal) | *3 | kW | 8.9 | 13.9 | 17.4 |
| | *3 | BTU/h | 30,400 | 47,400 | 59,400 |
| | *2 Power input | kW | 0.230 | 0.270 | 0.360 |
| | *2 Current input (220 V) | A | 1.52 | 1.85 | 2.38 |
| Temp. range of heating | | | -10°CD.B. ~ 20°CD.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CD.B. | -10°CD.B. ~ 20°CD.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CD.B. | -10°CD.B. ~ 20°CD.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CD.B. |
| External finish | | | Galvanized | Galvanized | Galvanized |
| External dimension HxWxD | | mm | 380 x 1,195 x 900 | 470 x 1,250 x 1,120 | 470 x 1,250 x 1,120 |
| | | in. | 15 x 47-1/16 x 35-7/16 | 18-9/16 x 49-1/4 x 44-1/8 | 18-9/16 x 49-1/4 x 44-1/8 |
| Net weight | | kg (lbs.) | 49 (109) | 78 (172) | 81 (179) |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| FAN | Type x Quantity | | Sirocco fan x 1 | Sirocco fan x 2 | Sirocco fan x 2 |
| *4, 5 | External static press. | Pa | <100> - <150> - 200 - <250> | <100> - <150> - 200 - <250> | <100> - <150> - 200 - <250> |
| | | mmH2O | <10.2> - <15.3> - 20.4 - <25.5> | <10.2> - <15.3> - 20.4 - <25.5> | <10.2> - <15.3> - 20.4 - <25.5> |
| | Motor Type | | DC motor | DC motor | DC motor |
| | Motor output | kW | 0.244 | 0.375 | 0.375 |
| | Driving mechanism | | Direct-driven by motor | Direct-driven by motor | Direct-driven by motor |
| *4, 5 | Air flow rate (Low-Mid-High) | | Normal-airflow rate mode / <High-airflow rate mode> | Normal-airflow rate mode / <High-airflow rate mode> | Normal-airflow rate mode / <High-airflow rate mode> |
| | | m3/min | 14.0 - 15.5 - 18.0 / 15.5 - 18.0 - 20.0 | 22.5 - 25.0 - 28.0 / 25.0 - 28.0 - 32.0 | 28.0 - 31.0 - 35.0 / 31.0 - 35.0 - 40.0 |
| | | L/s | 233 - 258 - 300 / 258 - 300 - 333 | 375 - 417 - 467 / 417 - 467 - 533 | 467 - 517 - 583 / 517 - 583 - 667 |
| | | cfm | 494 - 547 - 636 / 547 - 636 - 706 | 794 - 883 - 989 / 883 - 989 - 1,130 | 989 - 1,095 - 1,236 / 1,095 - 1,236 - 1,412 |
| Sound pressure level (measured in anechoic room) (Low-Mid-High) | | | Normal-airflow rate mode / <High-airflow rate mode> | Normal-airflow rate mode / <High-airflow rate mode> | Normal-airflow rate mode / <High-airflow rate mode> |
| | *2 | dB <A> | 34-37-41 / 36-40-42 | 35-38-41 / 36-39-42 | 38-40-44 / 38-41-45 |
| Air filter | | | Option: Synthetic fiber unwoven cloth filter (long life filter). | Option: Synthetic fiber unwoven cloth filter (long life filter). | Option: Synthetic fiber unwoven cloth filter (long life filter). |
| Refrigerant piping diameter | Liquid (R410A) | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed |
| | Gas (R410A) | mm (in.) | 15.88 (5/8) Brazed | 19.05 (3/4) Brazed | 22.22 (7/8) Brazed |
| Field drain pipe size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |
| Optional parts | Drain pump kit | | PAC-DRP10DP-E2 | PAC-KE06DM-F | PAC-KE06DM-F |
| | Long life filter | | PAC-KE89LAF | PAC-KE85LAF | PAC-KE85LAF |
| | Filter box | | PAC-KE140TB-F | PAC-KE250TB-F | PAC-KE250TB-F |

### Notes:

*1 Cooling capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 33°CDB/28°CWB, Outdoor 33°CDB. The set temperature of the remote controller is 18°C.
*2 The value are measured at the factory setting of airflow mode and external static pressure.
*3 Heating capacity indicates the maximum value at operation under the following condition. Heating: Indoor 0°CDB/-2.9°CWB, Outdoor 0°CDB/-2.9°CWB. The set temperature of the remote controller is 25°C.
*4 The factory setting of airflow mode and external static pressure mode 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 If the airflow rate is over the usable range, dew drop can be caused from the air outlet and the air flow rate is changed automatically because of the output down by the fan motor control. If the air flow rate is less than the usable range, condensation from the unit surface can be caused.
*6 Regarding P250VMHS-E-F, the middle notch air flow rate is different from the spec value when the external static pressure setting is set to 100Pa. See "Fan characterics curves" in DATA BOOK for the details.

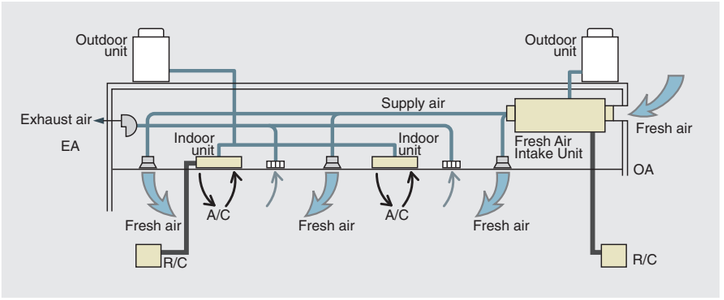
- The combination of fresh air intake type indoor units with other types of indoor units to handle internal thermal load which may cause the conflict of operation mode. It is not recommended when fresh air intake type indoor unit is connected to the Y or WY series.
- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the discharge temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- Fresh air intake type indoor units cannot be connected to PUMY series, except for PUMY-SP125/140V(Y)KM2, PUMY-CP125/140VKM2, PUMY-CP125/140/200/225YKM2, PUMY-P200/225YKM3, PUMY-(C)P250/300YBM2. Fresh air intake type indoor unit and PUMY have to be one to one connection. Fresh air intake type unit cannot be connected to an outdoor unit together with PWFY series.
- The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
- The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit.
- The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.
- The fan temporary stops during defrost.
- The cooling and heating capacities are the maximum capacities that were obtained by operating in the above air conditions and with a refrigerant pipe of about 7.5 m and a level difference of 0 m.
- The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information in DATA BOOK for the details.
- Thermo off (Fan) operation automatically starts either when temperature is lower than 17°CDB in cooling mode or when the temperature exceeds 20°CDB in heating mode.
- Dry mode is not available.
- When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
- Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.

# PEFY-P VMH-E-F

Office Hospital School Restaurant

## Example design for an outside air treatment unit system

The Fresh Air intake indoor unit can take fresh outdoor air into any building.




* Fresh air intake type indoor unit is designed to supply pretreated outside air into the room. Do not use to handle internal thermal load.
* Discharge temperature control is not possible. PEFY-P VMH-E-F models turn the thermo ON or OFF depending on the room temperature. Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature. During thermo-off (FAN-mode), outside air blows directly into the room.

## Applications across a wide range of design

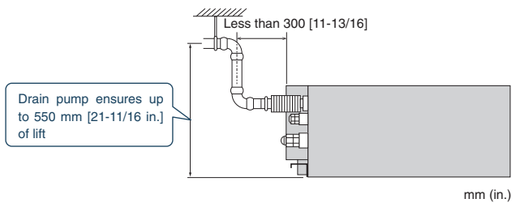
Sufficient external static pressure (up to 240 Pa) enables designs with long ducts and expands design possibilities.

| PEFY-P VMH-E-F | | P80 | P140 | P200 | P250 |
|---|---|---|---|---|---|
| External static pressure (Pa) | 208 V | <35> – 85 – <170> | <35> – 85 – <170> | <140> – 200 | <110> – 190 |
| | 220 V | <40> – 115 – <190> | <50> – 115 – <190> | <150> – 210 | <120> – 200 |
| | 230 V | <50> – 130 – <210> | <60> – 130 – <220> | <160> – 220 | <130> – 210 |
| | 240 V | <80> – 170 – <220> | <100> – 170 – <240> | – | – |

*The factory setting for external static pressure is shown without "< >".
Refer to "Fan characteristics curves", according to the external static pressure, in the DATA BOOK for the usable range of the air flow rate.

## Drain pump (option) ensures up to 550 mm [21-11/16 in.] of lift

The introduction of an upper drain pump allows the drain connection to be raised as high as 550 mm [21-11/16 in.], allowing more freedom in piping layout design and reducing horizontal piping requirements.




mm (in.)

## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| Long life filter | PAC-KE88LAF | P80 |
| | PAC-KE89LAF | P140 |
| | PAC-KE85LAF | P200, P250 |
| Filter box | PAC-KE80TB-F | P80 |
| | PAC-KE140TB-F | P140 |
| | PAC-KE250TB-F | P200/P250 |
| Drain pump | PAC-KE04DM-F | P80, P140, P200, P250 |





## Specifications

| Model | | | | PEFY-P80VMH-E-F | PEFY-P140VMH-E-F |
|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz | |
| Cooling capacity | | *1 | kW | 9.0 | 16.0 |
| | | *1 | BTU/h | 30,700 | 54,600 |
| Temp. range of cooling | | | | 21°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B.<br>* Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 21°CD.B. | |
| Heating capacity | | *1 | kW | 8.5 | 15.1 |
| | | *1 | BTU/h | 29,000 | 51,500 |
| Temp. range of heating | | | | -10°CD.B. ~ 20°CD.B.<br>* Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CD.B. | |
| Power consumption | | *2 Cooling | kW | 0.16 / 0.21 | 0.29 / 0.33 |
| | | *2 Heating | kW | 0.16 / 0.21 | 0.29 / 0.33 |
| Current | | *2 Cooling | A | 0.67 / 0.91 | 1.24 / 1.48 |
| | | *2 Heating | A | 0.67 / 0.91 | 1.24 / 1.48 |
| External finish | | | | Galvanized | |
| Dimension H x W x D | | | mm (in.) | 380 x 1,000 x 900<br>(15 x 39-3/8 x 35-7/16) | 380 x 1,200 x 900<br>(15 x 47-1/4 x 35-7/16) |
| Net weight | | | kg (lbs) | 50 (111) | 67 (148) |
| Heat exchanger | | | | Cross fin (Aluminum plate fin and copper tube) | |
| Fan | Type x Quantity | | | Sirocco fan x 1 | Sirocco fan x 2 |
| | Airflow rate | | $m^3$/min | 9.0 | 18.0 |
| | | | L/s | 150 | 300 |
| | | | cfm | 318 | 636 |
| | External static pressure *3 | 208V | Pa | <35> - 85 - <170> | <35> - 85 - <170> |
| | | 220V | Pa | <40> - 115 - <190> | <50> - 115 - <190> |
| | | 230V | Pa | <50> - 130 - <210> | <60> - 130 - <220> |
| | | 240V | Pa | <80> - 170 - <220> | <100> - 170 - <240> |
| | | 380V | Pa | - | - |
| | | 400V | Pa | - | - |
| | | 415V | Pa | - | - |
| Motor | Type | | | 1-phase induction motor | |
| | Output | | kW | 0.09 (220V, 115Pa) | 0.14 (220V, 115Pa) |
| Air filter (option) | | | | Synthetic fiber unwoven cloth filter (long life) | |
| Refrigerant pipe diameter | | Gas | mm (in.) | ø15.88 (ø5/8) Flare | |
| | | Liquid | mm (in.) | ø9.52 (ø3/8) Flare | |
| Field drain pipe diameter | | | mm (in.) | O.D.32 (1-1/4) | |
| Sound pressure level (measured in anechoic room)*2 *4 | | 208, 220V | dB<A> | 38 | 38 |
| | | 230, 240V | dB<A> | 43 | 43 |
| | | 380V | dB<A> | - | - |
| | | 400V | dB<A> | - | - |
| | | 415V | dB<A> | - | - |

**Notes:**

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

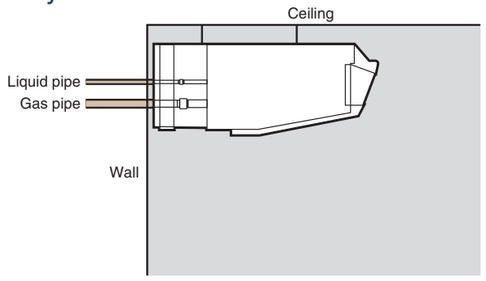
| | Indoor | Outdoor | Pipe length | Level difference |
|---|---|---|---|---|
| Cooling | 33°CDB/28°CWB (91°FDB/82°FWB) | 33°CDB (91°FDB) | 7.5 m (24-9/16 ft) | 0m (0ft.) |
| Heating | 0°CDB/-2.9°CWB (32°FDB/27°FWB) | 0°CDB/-2.9°CWB (32°FDB/27°FWB) | 7.5 m (24-9/16 ft) | 0m (0ft.) |

*2 The values are measured at the factory setting of external static pressure.
The figure of Electrical characteristic indicates at 240V 50Hz/230V 60Hz (PEFY-P80, 140VMH-E-F type), at 50Hz/60Hz (PEFY-P200, 250VMH-E-F type).
*3 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.
*4 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the outlet air temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit.
- The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.
- The fan temporary stops during defrost.
- Dry mode is not available.
- In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan characteristics curves" in DATA BOOK for the details.
- When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
- Air filter must be installed in the air intake side. The filter should be attached where easy maintenance in possible in case of usage of field supply filters.
- Fresh air intake type indoor units cannot be connected to PUMY series, except for PUMY-SP125/140V(Y)KM2, PUMY-CP125/140VKM2, PUMY-CP125/140/200/225YKM2, PUMY-P200/225YKM3. Fresh air intake type indoor unit and PUMY have to be one to one connection. Fresh air intake type unit cannot be connected to an outdoor unit together with PWFY series.

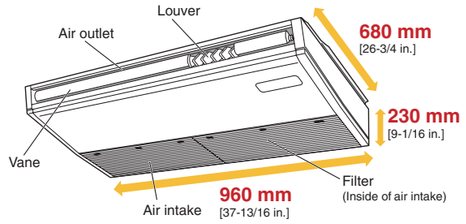
# PCFY-P VKM-E

## Easy installation




The ceiling suspended cassette can easily be installed without requiring duct work, even if the ceiling does not have sufficient space.

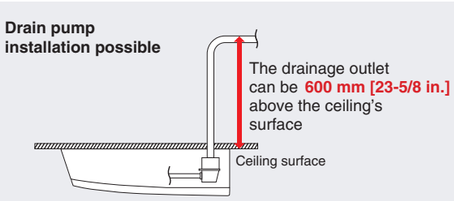
## 230 mm [9-1/16 in.] high unit is designed in consideration of interior design coordination




Sleek and slim with stylishly curved lines, the PCFY-Series is designed to blend into interior.

## Drain pump is available for all models

The optional drain pump allows the drain connection to be raised as high as 600mm [23-5/8 in.], expanding flexibility in choosing the unit's location.




## Auto Vane Control

Outlet vanes can be moved up and down using the remote controller. This improved airflow control feature solves the problem of drafts.


## Equipped with automatic air-speed adjustment

In addition to the conventional 4-speed settings, units are now equipped with an automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.


## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| Drain pump kit | PAC-SH83DM-E | P40 |
| | PAC-SH84DM-E | P63, 100, 125 |
| High efficiency filter | PAC-SH88KF-E | P40 |
| | PAC-SH89KF-E | P63 |
| | PAC-SH90KF-E | P100, 125 |
| Wireless remote controller kit | PAR-SL94B-E | P40, 63, 100, 125 |
| Anti-allergy enzyme filter | PAC-SK48KF-E | P40 |
| | PAC-SK49KF-E | P63 |
| | PAC-SK50KF-E | P100, 125 |





## Specifications

| Model | | | | PCFY-P40VKM-E | PCFY-P63VKM-E | PCFY-P100VKM-E | PCFY-P125VKM-E |
|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz/1-phase 220V 60Hz | | | |
| Cooling capacity | | *1 | kW | 4.5 | 7.1 | 11.2 | 14.0 |
| | | *1 | BTU/h | 15,400 | 24,200 | 38,200 | 47,800 |
| Heating capacity | | *1 | kW | 5.0 | 8.0 | 12.5 | 16.0 |
| | | *1 | BTU/h | 17,100 | 27,300 | 42,700 | 54,600 |
| Power consumption | Cooling | | kW | 0.04 | 0.05 | 0.09 | 0.11 |
| | Heating | | kW | 0.04 | 0.05 | 0.09 | 0.11 |
| Current | Cooling | | A | 0.28 | 0.33 | 0.65 | 0.76 |
| | Heating | | A | 0.28 | 0.33 | 0.65 | 0.76 |
| External finish (Munsell No.) | | | | 6.4Y 8.9/ 0.4 | | | |
| Dimension H x W x D | | | mm | 230 x 960 x 680 | 230 x 1,280 x 680 | 230 x 1,600 x 680 | |
| | | | in. | 9-1/16 x 37-13/16 x 26-3/4 | 9-1/16 x 50-3/8 x 26-3/4 | 9-1/16 x 63 x 26-3/4 | |
| Net weight | | | kg (lbs.) | 24 (53) | 32 (71) | 36 (79) | 38 (84) |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | |
| Fan | Type x Quantity | | | Sirocco fan x 2 | Sirocco fan x 3 | Sirocco fan x 4 | |
| | Airflow rate (Lo-Mid2-Mid1-Hi) | *2 | $m^3$/min | 10-11-12-13 | 14-15-16-18 | 21-24-26-28 | 21-24-27-31 |
| | | | L/s | 167-183-200-217 | 233-250-267-300 | 350-400-433-467 | 350-400-450-517 |
| | | | cfm | 353-388-424-459 | 494-530-565-636 | 742-847-918-989 | 742-847-953-1,095 |
| | External static pressure | | Pa | 0 | | | |
| Motor | Type | | | DC motor | | | |
| | Output | | kW | 0.090 | 0.095 | 0.160 | |
| Air filter | | | | PP Honeycomb (long life) | | | |
| Refrigerant pipe diameter | Gas (Flare) | | mm (in.) | ø12.7 (ø1/2) | ø15.88 (ø5/8) | | |
| | Liquid (Flare) | | mm (in.) | ø6.35 (ø1/4) | ø9.52 (ø3/8) | | |
| Field drain pipe diameter | | | mm (in.) | O.D. 26 (1) | | | |
| Sound pressure level (Lo-Mid2-Mid1-Hi) | | *2 *3 | dB (A) | 29-32-34-36 | 31-33-35-37 | 36-38-41-43 | 36-39-42-44 |

**Notes:**

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(80.6°F)DB/19°C(66.2°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(44.6°F)DB/6°C(42.8°F)WB
*2 Airflw rate/Sound pressure level are shown in (low-middle 2-middle 1-high).
*3 It is measured in anechoic room.

# PKFY-P VLM-E
# PKFY-P VKM-E


PKFY-P VLM (P15~P32)


PKFY-P VLM (P40/P50)


PKFY-P VKM (P63/P100)

## New design that matches the room's interior (VLM model)

P15~P25


PKFY-P VBM

P32~P50


PKFY-P VHM

Conventional model

P15~P32


PKFY-P VLM

P40/P50

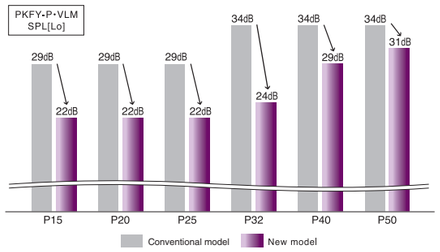

PKFY-P VLM

Current model

A sharp and simple form that combines beauty and function. The simple square design harmonizes beautifully with the straight lines created by the intersection of the walls, floor and ceiling. Also adopted a new white body color. It will make your life and space beautiful and comfortable without disturbing the atmosphere of the room.

## Low noise

The noise level has been reduced compared to the conventional model (PKFY-P VBM/VHM) by improving the unit structure such as the line flow fan.




* Measurement condition (Fan speed: Low)
* It is measured in anehoic room.

## Improved Airflow control

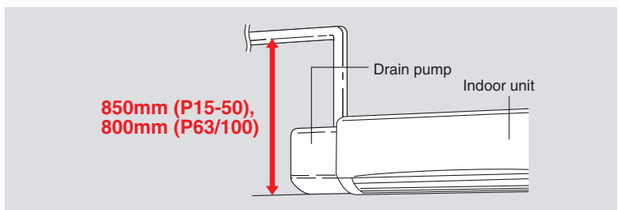
Fan speed and Vane control

The new model (VLM) can set the fan speed to 4 steps and auto mode. Also, the vane angle can be set to 5 steps. This has enabled air conditioning to be tailored to your taste.

| | | Conventional | | Current |
|---|---|---|---|---|
| | | PKFY-P**VBM | PKFY-P**VHM | PKFY-P**VLM-E |
| Fan Speed | | 4 speeds | 3 speeds + AUTO | 4 speeds + AUTO |
| Vane Control | Vane Angle | 4 steps | 5 steps | 5 steps |
| | Swing mode | – | ✓ | ✓ |

## Drain pump option

The optional drain pump allows the drain connection to be raised as high as 850mm (P15-50), 800mm (P63/100), allowing more flexible in piping layout design.




## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| External LEV Box | PAC-SG95LE-E | P15, 20, 25, 32, 40, 50, 63 |
| Drain pump kit | PAC-SK01DM-E | P15, 20, 25, 32, 40, 50 |
| | PAC-SH94DM-E | P63,100 |
| Plasma quad connect | MAC-100FT-E | P15, 20, 25, 32, 40, 50, 63, 100 |





## Specifications

| Model | | | | PKFY-P25VLM-E | PKFY-P32VLM-E | PKFY-P40VLM-E | PKFY-P50VLM-E |
|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240 V 50 Hz, 1-phase 220-230 V 60Hz | | | |
| Cooling capacity (Nominal) | | *1 | kW | 2.8 | 3.6 | 4.5 | 5.6 |
| | | *1 | BTU/h | 9,600 | 12,300 | 15,400 | 19,100 |
| | Power input | | kW | 0.03 | 0.04 | 0.04 | 0.05 |
| | Current input | | A | 0.25 | 0.35 | 0.35 | 0.45 |
| Heating capacity (Nominal) | | *2 | kW | 3.2 | 4.0 | 5.0 | 6.3 |
| | | *2 | BTU/h | 10,900 | 13,600 | 17,100 | 21,500 |
| | Power input | | kW | 0.02 | 0.03 | 0.03 | 0.04 |
| | Current input | | A | 0.20 | 0.30 | 0.30 | 0.40 |
| External finish (Munsell No.) | | | | Plastic (0.7PB 9.2/0.4) | | | |
| External dimension H x W x D | | | mm | 299 x 773 x 237 | | 299 x 898 x 237 | |
| | | | in. | 11-25/32 x 30-7/16 x 9-11/32 | | 11-25/32 x 35-3/8 x 9-11/32 | |
| Net weight | | | kg (lbs.) | 11 (25) | | 13 (29) | |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | | | |
| Fan | Type x Quantity | | | Line flow fan x 1 | | | |
| | External static press | | Pa ($mmH_2O$) | 0 (0) | | | |
| | Motor type | | | DC motor | | | |
| | Motor output | | kW | 0.03 | | | |
| | Driving mechanism | | | Direct driven | | | |
| | Airflow rate (Lo-Mid2-Mid1-Hi) | | $m^3$/min | 4.0-4.6-5.4-6.7 | 4.3-5.4-6.9-8.4 | 6.3-7.4-8.6-10.0 | 6.8-8.3-10.2-12.4 |
| | | | L/s | 67-77-90-112 | 72-90-115-140 | 105-123-143-167 | 113-138-170-207 |
| | | | cfm | 141-162-191-237 | 152-191-244-297 | 222-261-304-353 | 240-293-360-438 |
| Noise level (measured in anechoic room) | | | dB (A) | 22-27-31-35 | 24-31-37-41 | 29-34-37-40 | 31-36-41-46 |
| Insulation material | | | | Polyethylene sheet | | | |
| Air filter | | | | PP honeycomb | | | |
| Protection device | | | | Fuse | | | |
| Refrigerant control device | | | | LEV | | | |
| Refrigerant piping diameter | Liquid (Flare) | | mm (in.) | ø6.35 (ø1/4) | | | |
| | Gas (Flare) | | mm (in.) | ø12.7 (ø1/2) | | | |
| Field drain pipe diameter | | | mm (in.) | I.D.16 (5/8) | | | |
| Optional parts | DRAIN PUMP KIT | | | PAC-SK01DM-E | | | |
| | EXTERNAL LEV BOX | | | PAC-SG95LE-E | | | |

**Notes:**

*1 Nominal cooling conditions (subject to JIS B8615-1) Indoor : 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor 35°CD.B. (95°FD.B.) Pipe length : 7.5 m (24-9/16 ft.), Level difference : 0 m (0 ft.)
*2 Nominal heating conditions (subject to JIS B8615-1) Indoor : 20°CD.B. (68°FD.B.), Outdoor 7°CD.B./6°CW.B (45°FD.B./43°FW.B.) Pipe length : 7.5 m (24-9/16 ft.), Level difference : 0 m (0 ft.)

| Model | | | | PKFY-P63VKM-E | PKFY-P100VKM-E |
|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-240V 50Hz, 1-phase 220V 60Hz | |
| Cooling capacity (Nominal) | | *1 | kW | 7.1 | 11.2 |
| | | *1 | BTU/h | 24,200 | 38,200 |
| | Power input | | kW | 0.05 | 0.08 |
| (220V) | Current input | | A | 0.37 | 0.58 |
| Heating capacity (Nominal) | | *2 | kW | 8.0 | 12.5 |
| | | *2 | BTU/h | 27,300 | 42,600 |
| | Power input | | kW | 0.04 | 0.07 |
| (220V) | Current input | | A | 0.30 | 0.51 |
| External finish (Munsell No.) | | | | Plastic, MUNSELL (1.0Y 9.2/0.2) | |
| External dimension H x W x D | | | mm | 365x1170x295 | |
| | | | in. | 14-3/8 x 46-1/16 x 11-5/8 | |
| Net weight | | | kg (lbs.) | 21(46) | |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | |
| Fan | Type x Quantity | | | Line flow fan x 1 | |
| | External static press | | Pa ($mmH_2O$) | 0 (0) | |
| | Motor type | | | DC motor | |
| | Motor output | | kW | 0.056 | |
| | Driving mechanism | | | Direct-drive | |
| | Airflow rate (Low-High) | | $m^3$/min | 16-20 | 20-26 |
| | | | L/s | 267-333 | 333-433 |
| | | | cfm | 565-706 | 706-918 |
| Sound pressure level (measured in anechoic room) | | | dB (A) | 39-45 | 41-49 |
| Insulation material | | | | Polyethylene sheet | |
| Air filter | | | | PP honeycomb | |
| Protection device | | | | Fuse | |
| Refrigerant control device | | | | LEV | |
| Refrigerant piping diameter | Liquid (Flare) | | mm (in.) | ø9.52 (ø3/8) | |
| | Gas (Flare) | | mm (in.) | ø15.88 (ø5/8) | |
| Field drain pipe diameter | | | mm (in.) | I.D.16 (5/8) | |
| Optional parts | DRAIN PUMP KIT | | | PAC-SH94DM-E | |
| | EXTERNAL LEV BOX | | | PAC-SG95LE-E | - |

**Notes:**

*1 Nominal cooling conditions (subject to JIS B8615-1) Indoor : 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor 35°CD.B. (95°FD.B.) Pipe length : 7.5 m (24-9/16 ft.), Level difference : 0 m (0 ft.)
*2 Nominal heating conditions (subject to JIS B8615-1) Indoor : 20°CD.B. (68°FD.B.), Outdoor 7°CD.B./6°CW.B (45°FD.B./43°FW.B.) Pipe length : 7.5 m (24-9/16 ft.), Level difference : 0 m (0 ft.)

# Wall-mounted type

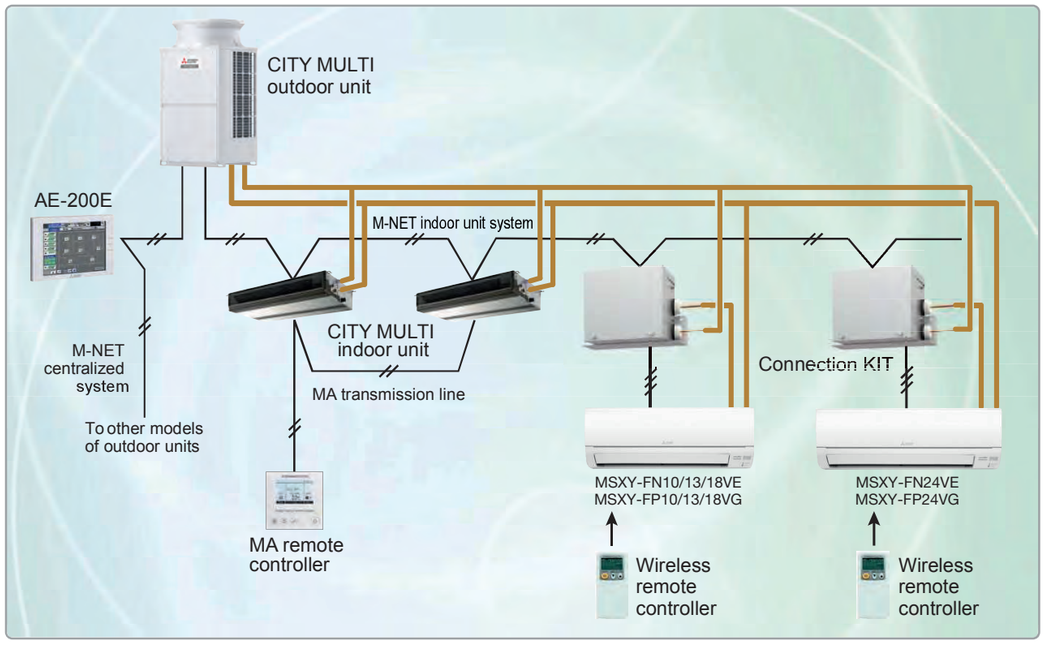
## Starmex Series

MSXY-FN10/13/18VE
MSXY-FP10/13/18VG

MSXY-FN24VE
MSXY-FP24VG

Starmex Indoor Units with LEV kit / Branch Box for residential uses.


## System Structure




*Refer to the relevant materials for detailed installation and resistance.

## Specifications

| Model | | | | MSXY-FN10VE | MSXY-FN13VE | MSXY-FN18VE | MSXY-FN24VE |
|---|---|---|---|---|---|---|---|
| Rated capacity | | | kW | 2.8 | 3.5 | 5.0 | 7.1 |
| Power input | | | kW | 0.028 | 0.036 | 0.042 | 0.059 |
| Running current | | | A | 0.27 | 0.33 | 0.38 | 0.52 |
| Airflow rate | | | $m^3$/min | 4.1-6.3-9.1-12.9 | 4.1-6.3-9.1-14.1 | 6.2-9.5-12.1-14.8 | 9.1-13.5-16.0-19.9 |
| Sound level | | | dB (A) | 19-29-36-45 | 19-30-36-47 | 28-38-44-49 | 30-41-45-50 |
| External dimension (W x D x H) | | | mm | 799 x 232 x 290 | | | 923 x 250 x 305 |
| Net Weight | | | Kg | 9 | | | 13 |
| External Piping | Diameter | Gas (ϕ) | mm | 9.52 | | 12.70 | 15.88 |
| | | Liquid (ϕ) | mm | 6.35 | | | 9.52 |

| Model | | | | MSXY-FP10VG | MSXY-FP13VG | MSXY-FP18VG | MSXY-FP24VG |
|---|---|---|---|---|---|---|---|
| Rated capacity | | | kW | 2.8 | 3.5 | 5.0 | 7.1 |
| Power input | | | kW | 0.028 | 0.036 | 0.042 | 0.059 |
| Running current | | | A | 0.27 | 0.33 | 0.38 | 0.52 |
| Airflow rate | | | $m^3$/min | 4.1-5.1-6.3-9.1-12.9 | 4.1-5.1-6.3-9.1-14.1 | 6.2-7.7-9.5-12.1-14.8 | 9.3-11.1-13.7-16.1-20.0 |
| Sound level | | | dB (A) | 19-24-29-36-45 | 19-24-30-36-47 | 28-33-38-44-49 | 30-35-41-45-50 |
| External dimension (W x D x H) | | | mm | 799 x 232 x 290 | | | 923 x 250 x 305 |
| Net Weight | | | Kg | 9 | | | 13 |
| External Piping | Diameter | Gas (ϕ) | mm | 9.52 | | | 12.70 |
| | | Liquid (ϕ) | mm | 6.35 | | | |

### Notes:

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

| Model | | | PAC-LV11M-J |
|---|---|---|---|
| Power source | | | Single / 220-240V / 50-Hz |
| Connectable Number of Indoor Unit | | | 1 |
| Extenal finish | | | Galvanized steel sheet (No external finish) |
| Dimension (H x W x D) | | mm (in.) | 183 x 355 x 142 |
| Net Weight | | Kg (lbs.) | 3.5 |
| Refigerant pipe diameter | Gas (Flare) | mm (in.) | – |
| | Liquid (Flare) | mm (in.) | 6.35 Brazed |
| Wiring | To Outdoor Unit | | 2-core shield cable |

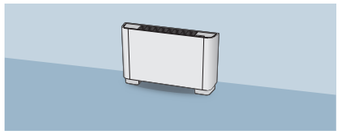
# PFFY-P VEM-E NEW

## New design

The new sophisticated design in clear white and pearl grey blends in with any interior.
With a depth of 217 mm [8-9/16 in.], the compact unit is ideal for installation in the perimeter zone of a room.
Three installation options are available to suit a wide range of applications.

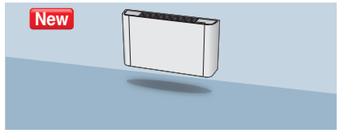

### Three installation options

**Floorstanding**



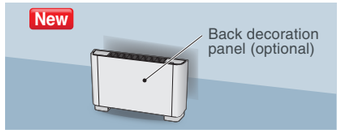
Conventional floorstanding installation is possible.

**Wall-mounted**




Wall-mounted installation allows for a stylish interior design.

**Freestanding**




With the optional back decoration panel, the unit can be installed away from the wall for more design flexibility.

*The legs are not attached to the unit at the time of shipment from the factory. They need to be attached when installing the unit on the floor.

## Reduced power consumption and noise

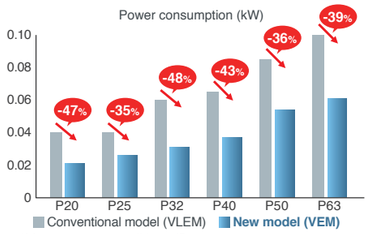
PFFY-P VEM-E features new components and an optimized structure for more efficient and comfortable operation.

A high-efficiency DC fan motor is equipped.

The inner pipes of the heat exchanger have been downsized from ø9.52 to ø7.0 to fit in more pipings.

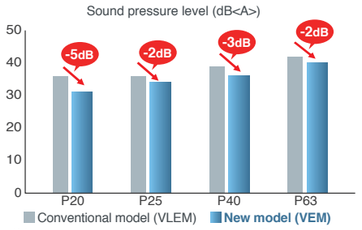
The new structure realizes smooth airflow and reduces pressure loss in the air pathway.

**Reduced power consumption**




*Measurement conditions (Power source: AC220-240V/50Hz, Fan speed: High)
The unit consumes the same amount of power in both cooling and heating modes.

**Reduced noise**




*Measurement conditions (Measured point: 1.5m×1.5m, Power source: AC230V/50Hz)
The sound pressure level is measured in an anechoic room.

## Flexible airflow rate setting

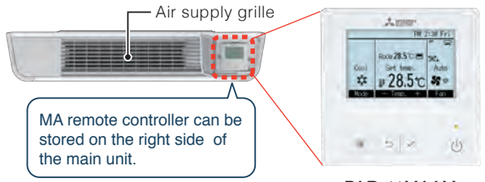
Airflow rate can be set to three levels to suit various installation conditions and maintain a comfortable room temperature.

**Airflow rate setting**

| | Model | Airflow rate |
|---|---|---|
| **New** | PFFY-P VEM | Low-**Mid**-High* |
| Conventional | PFFY-P VLEM | Low-High |

* Airflow rate setting has been increased from two to three levels.

## Remote controller storage in the main unit

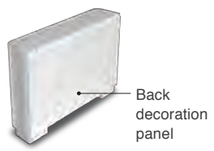



PAR-41MAAM

## Optional Parts

| Description | Model | Remarks |
|---|---|---|
| Back decoration panel* | PAC-BP32VEM-E | For PFFY-P20, 25, 32VEM-E |
| | PAC-BP50VEM-E | For PFFY-P40, 50VEM-E |
| | PAC-BP63VEM-E | For PFFY-P63VEM-E |

* The back decoration panel is required for freestanding installation. When it is attached to the main unit, the pipes must run under the floor. Refer to the Installation Manual for details.








## Specifications

| Model | | | PFFY-P20VEM-E | PFFY-P25VEM-E | PFFY-P32VEM-E | PFFY-P40VEM-E | PFFY-P50VEM-E | PFFY-P63VEM-E |
|---|---|---|---|---|---|---|---|---|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | *1 | BTU/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 |
| | Power input | kW | 0.021 | 0.026 | 0.031 | 0.037 | 0.054 | 0.061 |
| | Current input | A | 0.26-0.25-0.24 | 0.31-0.30-0.29 | 0.37-0.35-0.34 | 0.39-0.38-0.36 | 0.58-0.56-0.55 | 0.52-0.50-0.48 |
| Heating capacity (Nominal) | *2 | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| | *2 | BTU/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 |
| | Power input | kW | 0.021 | 0.026 | 0.031 | 0.037 | 0.054 | 0.061 |
| | Current input | A | 0.26-0.25-0.24 | 0.31-0.30-0.29 | 0.37-0.35-0.34 | 0.39-0.38-0.36 | 0.58-0.56-0.55 | 0.52-0.50-0.48 |
| External finish | | | Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37) | | | | | |
| External dimension H x W x D | | mm | 669 (726) x 1,142 x 217 | 669 (726) x 1,142 x 217 | 669 (726) x 1,142 x 217 | 669 (726) x 1,342 x 217 | 669 (726) x 1,342 x 217 | 669 (726) x 1,542 x 217 |
| | *3 | in. | 26-3/8 (28-5/8) x 45 x 8-9/16 | 26-3/8 (28-5/8) x 45 x 8-9/16 | 26-3/8 (28-5/8) x 45 x 8-9/16 | 26-3/8 (28-5/8) x 52-7/8 x 8-9/16 | 26-3/8 (28-5/8) x 52-7/8 x 8-9/16 | 26-3/8 (28-5/8) x 60-3/4 x 8-9/16 |
| Net weight | | kg (lbs.) | 29.5 (67) | 29.5 (67) | 30 (67) | 35 (78) | 35 (78) | 39.5 (89) |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 4 |
| | External static press. | Pa | 0 | | | | | |
| | | $mmH_2O$ | 0.0 | | | | | |
| | Motor Type | | DC motor | | | | | |
| | Motor output | kW | 0.096 | | | | | |
| | Driving mechanism | | Direct-driven by motor | | | | | |
| | Air flow rate | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (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 - 8.5 | 8.0 - 9.5 - 11.0 | 10.0 - 11.5 - 13.5 | 12.0 - 14.0 - 16.5 |
| | | L/s | 83 - 100 - 117 | 92 - 108 - 133 | 92 - 117 - 142 | 133 - 158 - 183 | 167 - 192 - 225 | 200 - 233 - 275 |
| | | cfm | 177 - 212 - 247 | 194 - 230 - 282 | 194 - 247 - 300 | 282 - 335 - 388 | 353 - 406 - 477 | 424 - 494 - 583 |
| Sound pressure level (measured in anechoic room) | | | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) | (Low-Mid-High) |
| | | dB <A> | 23.0-27.0-31.0 | 25.0-29.0-34.0 | 25.0-31.0-36.0 | 29.0-33.0-36.0 | 34.0-37.0-41.0 | 32.0-36.0-40.0 |
| Air filter | | | PP honeycomb fabric. | | | | | |
| Refrigerant piping diameter | Liquid (R410A) | mm (in.) | 6.35 (1/4) Brazed | 6.35 (1/4) Brazed | 6.35 (1/4) Brazed | 6.35 (1/4) Brazed | 6.35 (1/4) Brazed | 9.52 (3/8) Brazed |
| | Gas (R410A) | mm (in.) | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed |
| Field drain pipe size | | mm (in.) | O.D.32 (1-1/4) | | | | | |
| Optional parts | Back decoration panel | | PAC-BP32VEM-E | PAC-BP32VEM-E | PAC-BP32VEM-E | PAC-BP50VEM-E | PAC-BP50VEM-E | PAC-BP63VEM-E |

**Notes:**

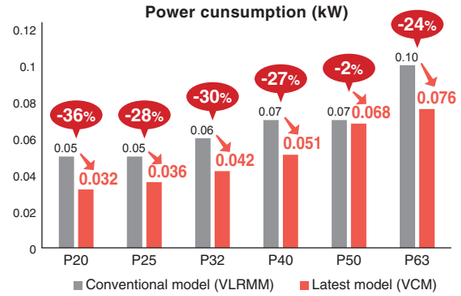
*1. Nominal cooling conditions
Indoor: 27° CD.B./19° CW.B. (81° FD.B./66° FW.B.), Outdoor: 35° CD.B. (95° FD.B.), Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*2. Nominal heating conditions
Indoor: 20° CD.B. (68° FD.B.), Outdoor: 7° CD.B./6° CW.B. (45° FD.B./43° FW.B.), Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*3. The values in () show the height of unit with leg.
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
* Due to continuing improvement, above specifications may be subject to change without notice.

# PFFY-P VCM-E

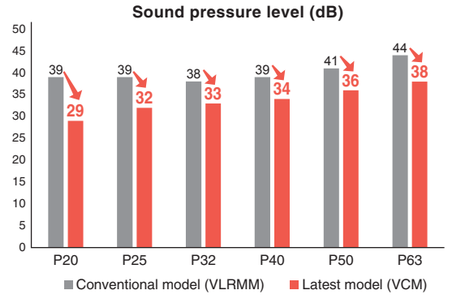
Office Hotel

## Reduced power consumption and noise

The structure realizes smooth airflow to reduce pressure loss in the air pathway. Additionally, the inner pipes of its heat exchanger have been downsized from ø9.52 to ø7.0 to contain a larger number of pipings.
The combination of the structure and components contributes to reducing power consumption and operation noise.




* Measurement condition (External static pressure: 40Pa Fan speed: High)
* The unit consumes the same power in both cooling and heating modes.

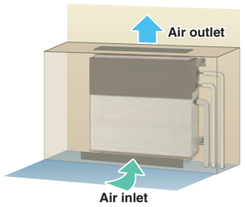



* Measurement condition (External static pressure: 40Pa Fan speed: High)
* The sound pressure level in operation is measured at 1.5 m apart from the front side and bottom side of the unit in anechoic room.

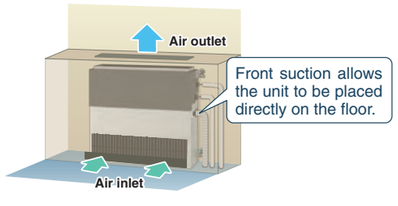
## Flexible installation pattern ideal for perimeter zone air conditioning

Air inlet can be selected from two patterns, bottom suction or front suction, by changing the panel, fan guard and filter.

**• Bottom suction*1**

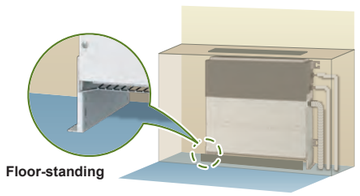



**• Front suction*2**




**• Floor standing with legs**

The unit can be placed on the floor with the supplied legs attached.




* Height of unit (with legs) is 690 mm.

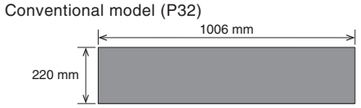
*1 Select a site where the flow of supply air is not blocked. The unit cannot be placed directly on the floor in the case of bottom suction.

*2 Front suction makes more noise than bottom suction. Bottom suction is recommended when installing the unit in rooms that need to be quiet, such as bedrooms.

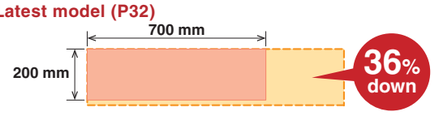
## Smaller footprint

The latest model (P32) has a 36% smaller footprint compared to the PFFY-VLRMM, owing to a redesigning of the positions of the inner components.

Conventional model (P32)




**Latest model (P32)**




## Flexible airflow and external static pressure setting

Airflow rate and external static pressure can be selected to suit various installation conditions.

| | Conventional | | Latest |
|---|---|---|---|
| Model Name | PFFY-P VLRM | PFFY-P VLRMM | PFFY-P VCM |
| Airflow rate | Low-High | Low-Mid-High | Low-Mid-High |
| External static pressure(Pa) | 0 | 20-40-60 | 0-10-40-60 |





## Specifications

| Model | | | PFFY-P20VCM-E | PFFY-P25VCM-E | PFFY-P32VCM-E |
|---|---|---|---|---|---|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 2.2 | 2.8 | 3.6 |
| | *1 | BTU/h | 7,500 | 9,600 | 12,300 |
| | *2 Power input | kW | 0.022 | 0.026 | 0.031 |
| | *2 Current input | A | 0.25 | 0.30 | 0.34 |
| Heating capacity (Nominal) | *3 | kW | 2.5 | 3.2 | 4.0 |
| | *3 | BTU/h | 8,500 | 10,900 | 13,600 |
| | *2 Power input | kW | 0.022 | 0.026 | 0.031 |
| | *2 Current input | A | 0.25 | 0.30 | 0.34 |
| External finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External dimension | *4 | mm | 615 (690) x 700 x 200 | 615 (690) x 700 x 200 | 615 (690) x 700 x 200 |
| H x W x D | | in. | 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 | 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 | 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 |
| Net weight | | kg (lbs) | 18 (40) | 18 (40) | 18.5 (42) |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | |
| FAN | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 |
| | *5 External static press. | Pa | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> |
| | | $mmH_2O$ | <0.0> - 1.0 - <4.1> - <6.1> | <0.0> - 1.0 - <4.1> - <6.1> | <0.0> - 1.0 - <4.1> - <6.1> |
| | 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) | | |
| | | $m^3$/min | 5.0 - 6.0 - 7.0 | 5.5 - 6.5 - 8.0 | 5.5 - 7.0 - 8.5 |
| | | L/s | 83 - 100 - 117 | 92 - 108 - 133 | 92 - 117 - 142 |
| | | cfm | 177 - 212 - 247 | 194 - 230 - 282 | 194 - 247 - 300 |
| Sound pressure level (measured in anechoic room) | *2 | dB<A> | (Low-Mid-High) 21-23-26 | 22-25-29 | 23-26-30 |
| Air filter | | | PP honeycomb fabric. | PP honeycomb fabric. | PP honeycomb fabric. |
| Refrigerant piping diameter | Liquid (410A) | mm (in.) | 6.35 (1/4)Brazed | 6.35 (1/4)Brazed | 6.35 (1/4)Brazed |
| | Gas (410A) | mm (in.) | 12.7 (1/2)Brazed | 12.7 (1/2)Brazed | 12.7 (1/2)Brazed |
| Field drain pipe size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |

| Model | | | PFFY-P40VCM-E | PFFY-P50VCM-E | PFFY-P63VCM-E |
|---|---|---|---|---|---|
| Power source | | | 1-phase 220-230-240 V 50/60 Hz | | |
| Cooling capacity (Nominal) | *1 | kW | 4.5 | 5.6 | 7.1 |
| | *1 | BTU/h | 15,400 | 19,100 | 24,200 |
| | *2 Power input | kW | 0.038 | 0.052 | 0.058 |
| | *2 Current input | A | 0.38 | 0.50 | 0.49 |
| Heating capacity (Nominal) | *3 | kW | 5.0 | 6.3 | 8.0 |
| | *3 | BTU/h | 17,100 | 21,500 | 27,300 |
| | *2 Power input | kW | 0.038 | 0.052 | 0.058 |
| | *2 Current input | A | 0.38 | 0.50 | 0.49 |
| External finish | | | Galvanized steel plate | Galvanized steel plate | Galvanized steel plate |
| External dimension | *4 | mm | 615 (690) x 900 x 200 | 615 (690) x 900 x 200 | 615 (690) x 1,100 x 200 |
| H x W x D | | in. | 24-1/4 (27-3/16) x 35-7/16 x 7-7/8 | 24-1/4 (27-3/16) x 35-7/16 x 7-7/8 | 24-1/4 (27-3/16) x 43-5/16 x 7-7/8 |
| Net weight | | kg (lbs) | 22.5 (51) | 22.5 (51) | 25.5 (58) |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | |
| FAN | Type x Quantity | | Sirocco fan x 3 | Sirocco fan x 3 | Sirocco fan x 4 |
| | *5 External static press. | Pa | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> |
| | | $mmH_2O$ | <0.0> - 1.0 - <4.1> - <6.1> | <0.0> - 1.0 - <4.1> - <6.1> | <0.0> - 1.0 - <4.1> - <6.1> |
| | 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) | | |
| | | $m^3$/min | 8.0 - 9.5 - 11.0 | 10.0 - 11.5 - 13.5 | 12.0 - 14.0 - 16.5 |
| | | L/s | 133 - 158 - 183 | 167 - 192 - 225 | 200 - 233 - 275 |
| | | cfm | 282 - 335 - 388 | 353 - 406 - 477 | 424 - 494 - 583 |
| Sound pressure level (measured in anechoic room) | *2 | dB<A> | (Low-Mid-High) 25-27-30 | 28-31-34 | 28-32-35 |
| Air filter | | | PP honeycomb fabric. | PP honeycomb fabric. | PP honeycomb fabric. |
| Refrigerant piping diameter | Liquid (410A) | mm (in.) | 6.35 (1/4)Brazed | 6.35 (1/4)Brazed | 9.52 (3/8)Brazed |
| | Gas (410A) | mm (in.) | 12.7 (1/2)Brazed | 12.7 (1/2)Brazed | 15.88 (5/8)Brazed |
| Field drain pipe size | | mm (in.) | O.D.32 (1-1/4) | O.D.32 (1-1/4) | O.D.32 (1-1/4) |

**Notes:**

*1. Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
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°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*4. The values in ( ) show the height of unit with leg.
*5. 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.
*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
*Due to continuing improvement, above specifications may be subject to change without notice.

# Floor standing exposed type

## PFFY-P YM-E
## PFFY-P YMH-E

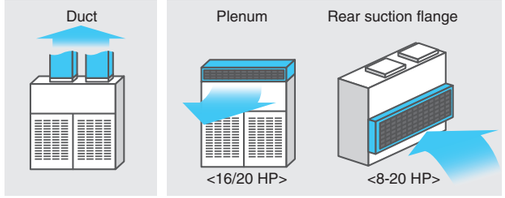
Restaurant Airport hall

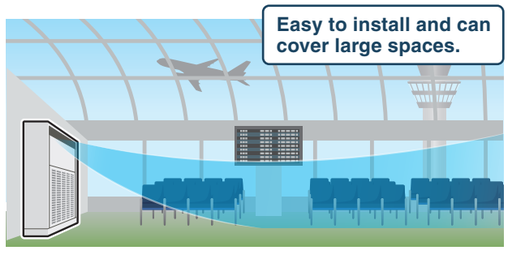
## Reduces installation and maintenance time

This series is a floor-standing, large capacity, indoor unit, which reduces the piping and installation burdens, and makes maintenance easy.

## Increased adaptation to local needs

In addition to the standard duct blowing, both plenum blowing and rear suction are optionally selectable.




## Wide ranges of airflow rate and static pressure options are available to suit a greater variety of needs

| | | Air flow rate (m³/min [ft.³/min]) | Static pressure (Pa) |
|---|---|---|---|
| | | High, 50/60 Hz | 380 V, 50/60 Hz |
| PFFY-P200YM-E | 8 HP | 65.0/69.0 [2300/2430] | 0 |
| PFFY-P250YM-E | 10 HP | 77.0/72.0 [2720/2540] | 0 |
| PFFY-P200YMH-E* | 8 HP | 65.0 [2300] | 180/200 |
| PFFY-P250YMH-E* | 10 HP | 72.0 [2540] | 180/210 |
| PFFY-P400YM-E | 16 HP | 150.0 [5300] | 210/390 |
| PFFY-P500YM-E | 20 HP | 200.0 [7060] | 290/510 |

*High static pressure model

## Pulley belt option

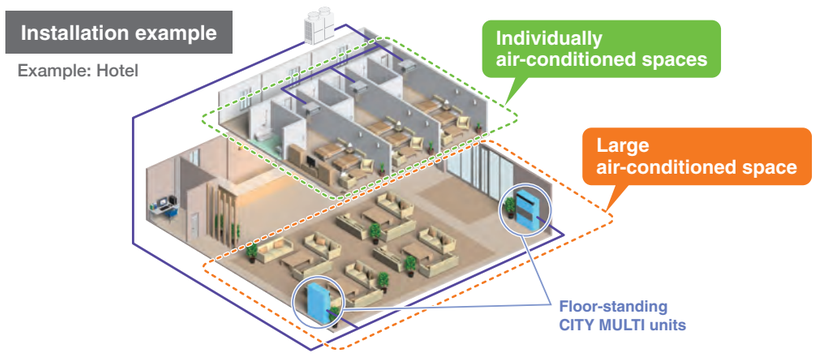
This option supports the use of wider ranges of airflow rates and static pressures to suit a greater variety of needs.

## Both large-scale and individual air conditioning can be performed

When this model is used in a large space and CITY MULTI indoor units are used in individual rooms, one outdoor unit can control the air conditioners in these rooms of various sizes.

## Multiple units can be connected to one outdoor unit

Multiple units of this model can be connected to one outdoor unit. Air can be spread throughout a large room.




## Optional Parts

| Description | Model | Applicable capacity |
|---|---|---|
| OA duct flange | PAC-ODF10DF-E | P200, 250 |
| | PAC-ODF20DF-E | P400, 500 |
| Plenum | PAC-PLE20PL-E1 | P400, 500 |

## Specifications

| Model | | | PFFY-P200YM-E | PFFY-P250YM-E | PFFY-P200YMH-E | PFFY-P250YMH-E | PFFY-P400YM-E | PFFY-P500YM-E |
|---|---|---|---|---|---|---|---|---|
| Power source | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | | | | | |
| Cooling capacity (Nominal) | *1 | kW | 22.4 | 28.0 | 22.4 | 28.0 | 45.0 | 56.0 |
| | *1 | BTU/h | 76,400 | 95,500 | 76,400 | 95,500 | 153,500 | 191,100 |
| | *2 Power input | kW | 0.490/0.680 | 1.05/1.26 | 1.00/1.41 | 1.31/1.41 | 2.86/3.79 | 3.94/5.30 |
| | *2 Current input (380-400-415 V) | A | 0.97-0.98-0.99/ 1.24-1.23-1.22 | 1.74-1.83-1.88/ 2.06-2.05-2.04 | 1.82-1.85-1.87/ 2.37-2.37-2.37 | 2.14-2.18-2.20/ 2.18-2.18-2.18 | 5.23-5.25-5.33/ 6.16-6.18-6.26 | 7.66-7.68-7.76/ 8.49-8.51-8.58 |
| Heating capacity (Nominal) | *3 | kW | 25.0 | 31.5 | 25.0 | 31.5 | 50.0 | 63.0 |
| | *3 | BTU/h | 85,300 | 107,500 | 85,300 | 107,500 | 170,600 | 215,000 |
| | *2 Power input | kW | 0.490/0.680 | 1.05/1.26 | 1.00/1.41 | 1.31/1.41 | 2.86/3.79 | 3.94/5.30 |
| | *2 Current input (380-400-415 V) | A | 0.97-0.98-0.99/ 1.24-1.23-1.22 | 1.74-1.83-1.88/ 2.06-2.05-2.04 | 1.82-1.85-1.87/ 2.37-2.37-2.37 | 2.14-2.18-2.20/ 2.18-2.18-2.18 | 5.23-5.25-5.33/ 6.16-6.18-6.26 | 7.66-7.68-7.76/ 8.49-8.51-8.58 |
| External finish | | | Galvanized steel plate (with polyester coating) <MUNSELL 3.0Y 7.8/1.1 or similar> | | | | | |
| External dimension H x W x D | | mm | 1,665 x 1,200 x 500 | 1,665 x 1,200 x 500 | 1,465 x 1,200 x 500 | 1,465 x 1,200 x 500 | 1,800 x 1,860 x 650 | 1,800 x 1,860 x 650 |
| | | in. | 65-9/16 x 47-1/4 x 19-11/16 | 65-9/16 x 47-1/4 x 19-11/16 | 57-11/16 x 47-1/4 x 19-11/16 | 57-11/16 x 47-1/4 x 19-11/16 | 70-7/8 x 73-1/4 x 25-5/8 | 70-7/8 x 73-1/4 x 25-5/8 |
| Net weight | | kg (lbs) | 157 (347) | 158 (349) | 138 (305) | 139 (307) | 310 (684) | 362 (799) |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | |
| Fan | Type x Quantity | | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 | Sirocco fan x 2 |
| | External static press. (380 V) | Pa | 0 | 0 | 180/200 | 180/210 | 210/390 | 290/510 |
| | | $mmH_2O$ | 0.0 | 0.0 | 18.4/20.4 | 18.4/21.4 | 21.4/39.8 | 29.6/52.0 |
| | Motor Type | | 3-phase induction motor | | | | | |
| | Motor output | kW | 0.400 | 0.500 | 0.770 | 0.770 | 3.700 | 5.500 |
| | Driving mechanism | | Direct-driven by motor | | | | Belt driving | |
| | Air flow rate | | (High-Low) | | (High) | | | |
| | | m³/min | 65.0-59.0/69.0-60.0 | 77.0-56.0/72.0-50.0 | 65.0 | 72.0 | 150.0 | 200.0 |
| | | L/s | 1,083-983/1,150-1,000 | 1,283-933/1,200-833 | 1,083 | 1,200 | 2,500 | 3,333 |
| | | cfm | 2,295-2,083/2,436-2,119 | 2,719-1,977/2,542-1,766 | 2,295 | 2,542 | 5,297 | 7,062 |
| Sound pressure level (measured in anechoic room) (380 V) | | *2 dB (A) | (High-Low) 58-56/60-56 | 63-60/62-60 | (High) 58/60 | 60/61 | 68/69 | 69/69 |
| Air filter | | | PP honeycomb fabric. | | | | | |
| Refrigerant piping diameter | Liquid (R410A) | mm (in.) | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 9.52 (3/8) Brazed | 12.7 (1/2) Brazed | 15.88 (5/8) Brazed |
| | Gas (R410A) | mm (in.) | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed | 28.58 (1-1/8) Brazed |
| Field drain pipe size | | in. | Rc 1 | Rc 1 | Rc 1 | Rc 1 | Rc 1-1/4 | Rc 1-1/4 |

**Notes:**

*1 Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*2 The values are measured in fan mode and at the factory setting of external static pressure.
*3 Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*4 Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.
*5 In case of this type of unit is connected, the maximum connected indoor unit capacity to one outdoor unit have to be less than or equal to 100%.
*6 This unit cannot be connected to R2 or WR2-Series. (PFFY-P400, P500YM-E only)
*7 This unit cannot be connected to PUMY-Series.

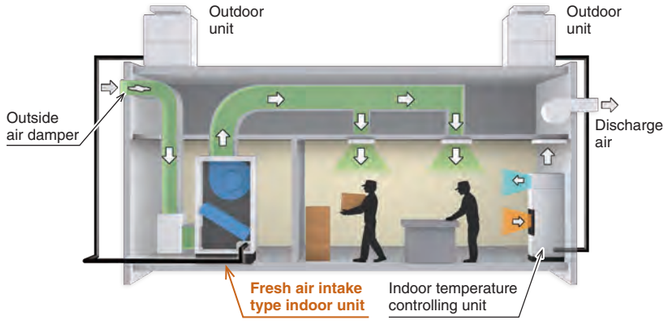
* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
* Due to continuing improvement, above specifications may be subject to change without notice.

# PFFY-P YM-E-F

## Enable intake of outside air

This model can take in the outside air, it delivers fresh air to indoors and improves comfort even in places where much ventilation is required, such as factories.

*This product is for use in occupant spaces and not suitable for use in spaces requiring stringent thermostatic control.
*Fresh air intake type is designed to supply conditioned outside air into the room. Do not use to handle internal thermal load.




*Please prepare dampers, ducts, and grilles locally in the field.

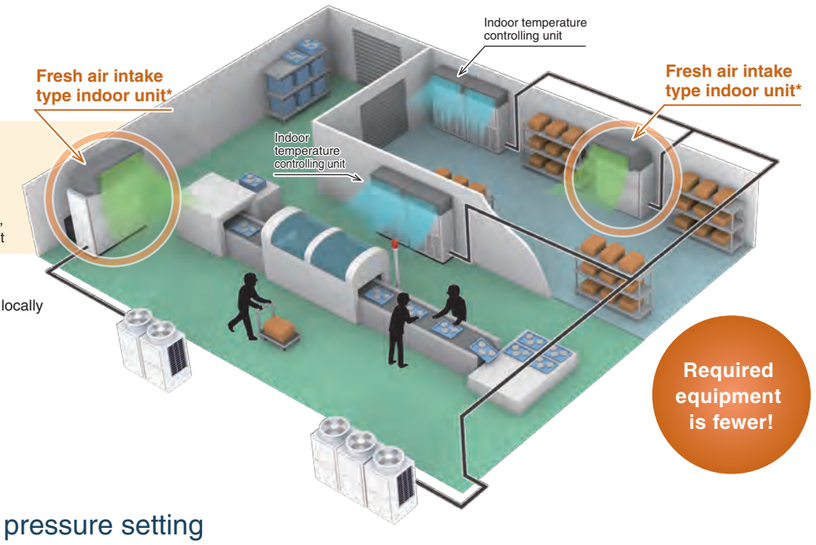
## Usable in combination with CITY MULTI indoor units

P300 is usable in combination with the CITY MULTI indoor units in a single refrigerant system*.
By installing an outdoor unit and indoor units that match the size of each room, it is possible to achieve individual air conditioning and intaking fresh air.

*When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity. Please refer to NOTEs of specification regarding the details.

## Installation example

### Example: Factory




**Suitable for use to require outside air intake**
Example: Factory, Airport, Hall, Restaurant

*Please prepare plenums locally in the field.

**Required equipment is fewer!**

## Air flow rate, external static pressure setting

The airflow rate of this product at High speed is 45 m³/min for the P300 model and 90 m³/min for the P600 model. Two patterns of static pressure setting are selectable, depending on the size and the use of the building.

| | Air flow rate (m³/min) | External static pressure |
|---|---|---|
| | High | |
| PFFY-P300YM-E-F | 45.0 | 80 Pa, 140 Pa |
| PFFY-P600YM-E-F | 90.0 | 120 Pa, 200 Pa |





## Specifications

| Model | | | | PFFY-P300YM-E-F | PFFY-P600YM-E-F |
|---|---|---|---|---|---|
| Power source | | | | 3-phase 4-wire 380-400-415 V 50/60 Hz | |
| Cooling capacity (Nominal) | | *1 | kW | 33.5 | 67.0 |
| | | *1 | BTU/h | 114,300 | 228,600 |
| | *2 | Power input | kW | 0.350-0.360-0.370/0.450-0.450-0.470 | 0.790-0.810-0.860/0.960-0.960-0.980 |
| | *2 | Current input | A | 0.86-0.88-0.91/0.92-0.93-0.91 | 2.76-3.03-3.46/2.38-2.39-2.52 |
| Temp. range of cooling | | | | 21°C D.B./15.5°C W.B. ~ 43°C D.B./35°C W.B.<br>* Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 21°C D.B. | |
| Heating capacity (Nominal) | | *3 | kW | 28.0 | 56.0 |
| | | *3 | BTU/h | 95,500 | 191,100 |
| | *2 | Power input | kW | 0.350-0.360-0.370/0.450-0.450-0.470 | 0.790-0.810-0.860/0.960-0.960-0.980 |
| | *2 | Current input | A | 0.86-0.88-0.91/0.92-0.93-0.91 | 2.76-3.03-3.46/2.38-2.39-2.52 |
| Temp. range of heating | | | | 0°C D.B. ~ 20°C D.B.<br>* Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°C D.B. | |
| External finish | | | | Galvanized steel plate (with polyester coating)<br><MUNSELL 3.0Y 7.8/1.1 or similar> | |
| External dimension H x W x D | | | mm | 1,465 x 1,200 x 500 | 1,805 x 1,860 x 710 |
| | | | in. | 57-11/16 x 47-1/4 x 19-11/16 | 71-1/8 x 73-1/4 x 28 |
| Net weight | | | kg (lbs) | 146 (322) | 357 (788) |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |
| Fan | Type x Quantity | | | Sirocco fan x 2 | Sirocco fan x 2 |
| | External static press. | | Pa | 80/140 | 120/200 |
| | | | $mmH_2O$ | 8.2/14.3 | 12.2/20.4 |
| | Motor Type | | | 3-phase induction motor | 3-phase induction motor |
| | Motor output | | kW | 0.400 | 2.200 |
| | Driving mechanism | | | Direct-driven by motor | Belt driving |
| | Air flow rate | | | (High) | (High) |
| | | | m³/min | 45.0 | 90.0 |
| | | | L/s | 750 | 1,500 |
| | | | cfm | 1,589 | 3,178 |
| Sound pressure level (measured in anechoic room) | | | | (High) | (High) |
| | | | *2 dB (A) | 48.5/48.5 | 54.0/56.0 |
| Air filter | | | | PP honeycomb fabric 1012 × 720<br>Dust collection efficiency (Weight Method) 17% | PP honeycomb fabric 894 x 612 x 2<br>Dust collection efficiency (Weight Method) 17% |
| Refrigerant piping diameter | Liquid | (R410A) | mm (in.) | 9.52 (3/8) Brazed | 15.88 (5/8) Brazed |
| | Gas | (R410A) | mm (in.) | 22.2 (7/8) Brazed | 28.58 (1-1/8) Brazed |
| Field drain pipe size | | | in. | Rc 1 | Rc 1-1/4 |

### Notes:

*1 Nominal cooling conditions
Indoor: 33°C D.B./28°C W.B., Outdoor: 33°C D.B.
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*2 The values are measured in fan mode and at the factory setting of external static pressure.
*3 Nominal heating conditions
Indoor: 7°C D.B., Outdoor: 7°C D.B./3°C W.B.
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
• Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.
• This unit cannot be connected to PUMY, R2 and WR2 series.
• Fresh air intake type indoor units cannot be connected to an outdoor unit together with PWFY series.
• When this fresh air intake type indoor unit is included in the system, the upper limit of connectable indoor unit capacity range is 100% of the connected outdoor unit capacity.
• When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
• The actual capacity characteristics vary with the combination of indoor and outdoor units.
See the technical information in DATA BOOK for the details.
• Thermo off (Fan) operation automatically starts either when temperature is lower than 21°C D.B. in cooling mode or when the temperature exceeds 20°C D.B. in heating mode.
• Dry mode is not available.
• When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
• Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation, which may occur dew condensation on the grills and ducts. Please insulate the grills, ducts, and rooms to prevent dew condensation properly.
• Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.
• Fresh air intake type indoor unit is designed to supply pretreated outside air into the room.
Do not use to handle internal thermal load.
• Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the outlet air temperature may swing.
Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
• The fan temporary stops during defrost.

* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
* Due to continuing improvement, above specifications may be subject to change without notice.

# Remote Controller

## Remote controller list

### Building Management Zone

**Centralized control**

*This image shows AE-200E.

**AE-200E/EW-50E with BACnet Interface**

For BACnet®

BMS and CITY MULTI can be connected. This enables control of the entire building and air-conditioning control on the BMS side.

### Floor Management Zone

**System controller**

**AE-200E**

This model, featuring a color LCD screen, can control up to 50 indoors unit when used independently, and up to 200 indoor units when connected to AE-50E/EW-50E.

**EW-50E**

This model can control up to 50 indoor units when used independently, or when connected to the AE-200E as an expansion unit.

**PAC-YT40ANRA**

The power can be turned on and off easily for 50 indoor units in up to 16 groups with this single unit.

**AT-50B**

This model is suitable for control on each floor. You can control up to 50 indoor units on the color LCD screen.

The air conditioners in each group can be turned on and off, and their modes can be changed. The weekly timer allows them to be turned on automatically before work starts, and off after closing time.

**Local remote controller**

**PAR-41MAAM** NEW

(MA remote controller)

The temperature can be set in steps of 0.5°C [1°F] increments, and the air flow direction and error icons are displayed on the screen.

**PAR-U02MEDA**

(ME remote controller)

All elements appear on the LCD screen, which features an occupancy sensor. All conditions including grouping can be set on this one controller.

**PAR-CT01MAA-S**

(MA remote controller)

All elements appear on the LCD screen. The background and character colors can be selected.

**PAC-YT52CRA**

(MA remote controller)

A simple remote controller dedicated to setting the temperature and fan speed

**PAR-FL32MA**

(MA Wireless remote controller)

* Requires wireless signal receiving unit

**PAR-SL101A-E**

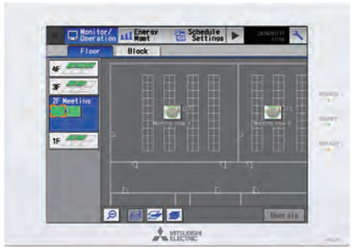
(MA Wireless remote controller)

* Connected only to PLFY-P VEM-PA / PLFY-P VFM-E1/PKFY-P VLM-E
* Requires wireless signal receiving unit

A suitable remote controller can be selected to control the air conditioners in each room according to each use situation.

Centralized controller

# AE-200E/AE-50E



Dimensions 284(W) x 200(H) x 65(D) mm
11-3/16(W) x 7-7/8(H) x 2-9/16(D) in.

## Mounted with color LCD touch panel excelling in visibility and operability.

- A 10.4-in LCD touch panel with high definition is used. The large display screen and the floor screen image*1 are excellent invisibility, and the equipment can be operated by touching the icons on the touch panel.

*1. The floor plan image function is optional.

## An optimal system can be easily and flexibly established according to a facility's scale.

- Up to 50 indoor units can be managed.
- Centralized control of up to 200 indoor units can be performed with three "AE-50E/EW-50E" expansion controllers.
- More than 200 indoor units can be managed by connecting the PC to the web browser.*1

*1. Please contact your local distributor regarding support for this feature.

## Airflow direction and airflow rate can be adjusted finely according to the schedule.

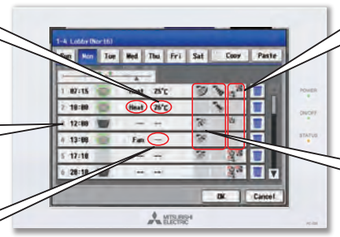
- For indoor units, LOSSNAY and general-purpose devices controlled by AE-200E, schedules by group, block and floor and for the entire building can be set.

## Detailed settings for each indoor unit can also be managed from the AE-200E

**Presetting of set temperature**
Even if the set temperature is changed on a remote controller, the temperature can be automatically returned to the standard temperature at the specified time.

**Prevention of forgetting to turn off**
A command to stop can be given to prevent forgetting to turn off.

**Change of set temperature according to time slot**
The set temperature in each time slot can be changed.



**Prohibition of operation of remote controllers**
It is possible to prohibit operation (ON/OFF, change operation mode, set temperature.) of the remote controllers.

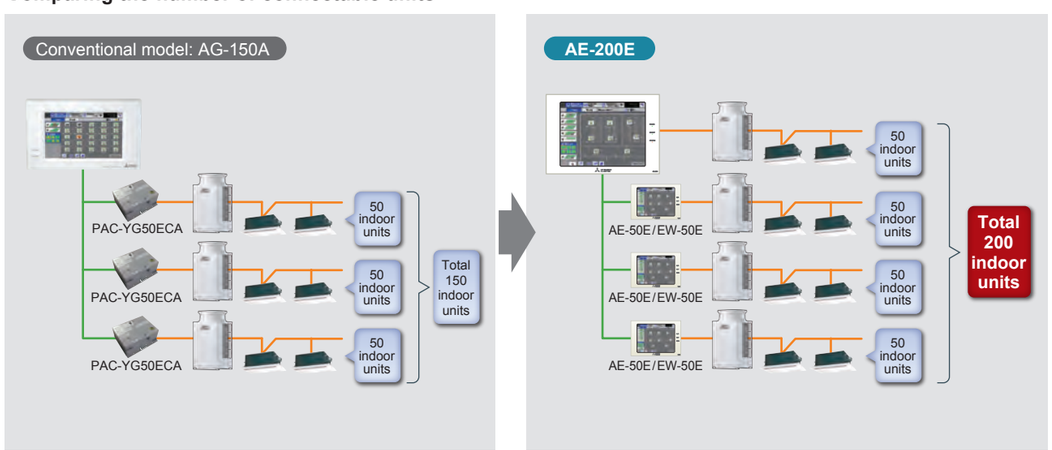
**Air flow direction and fan speed can be set**
The air flow direction and fan speed can be set. The detailed setting improves the comfort.

**Operation items to be prohibited can be selected arbitrarily.**

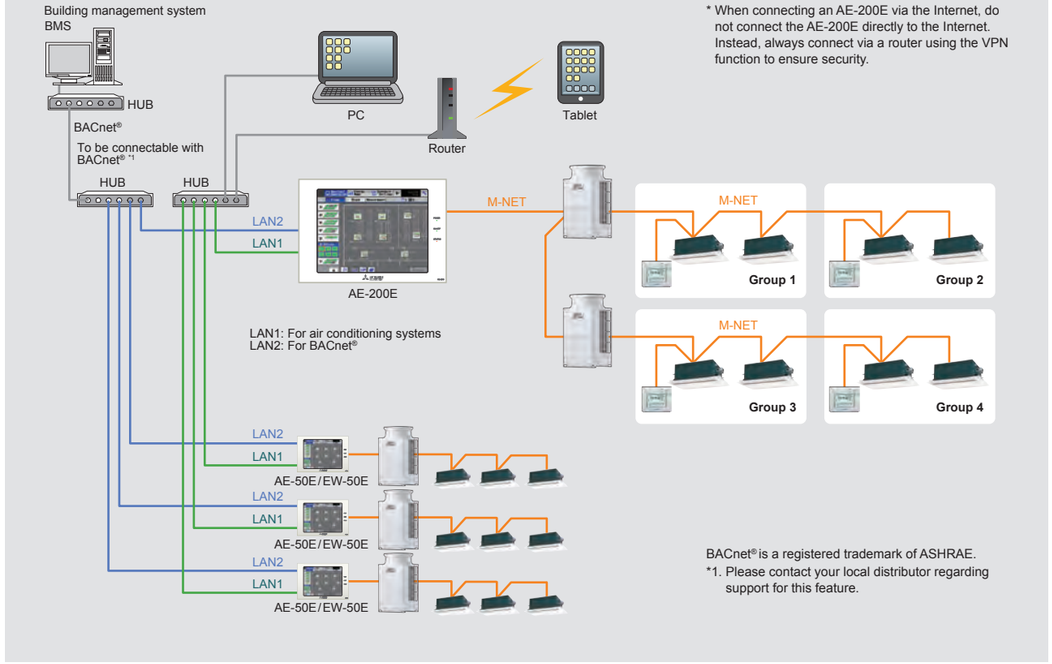
**24 times of actions per day can be set in minutes.**

**Can be set from the Web browser.**

## Comparing the number of connectable units




## System Structure




* When connecting an AE-200E via the Internet, do not connect the AE-200E directly to the Internet. Instead, always connect via a router using the VPN function to ensure security.

BACnet® is a registered trademark of ASHRAE.
*1. Please contact your local distributor regarding support for this feature.

## Functions

□: Each unit ○: Each group ●: Each block △: Each floor ◎: Collective ×: Not available

| Item | Description | Setting | Display |
|---|---|---|---|
| Controllable number of units | Up to 50 units/50 groups | | |
| ON/OFF | ON and OFF operation for the air conditioning units and general equipment.<br>(PAC-YG66DCA is required to operate general equipment.) | ○◎△● | ○◎ |
| Operation mode | Switches between several operation modes depending on the air conditioning unit.<br>Air conditioning unit: Cool/Dry/Auto(*)/Fan/Heat<br>LOSSNAY unit: Heat Recovery/Bypass/Auto<br>* Auto mode is for CITY MULTI R2 and WR2 Series only. | ○◎△● | ○ |
| Temperature setting | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. | ○◎△● | ○ |
| Fan speed setting | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low<br>Models with 3 air flow speed settings: Hi/Mid/Low<br>Models with 2 air flow speed settings: Hi/Low<br>Fan speed setting (including Auto) varies depending on the model. | ○◎△● | ○ |
| Air flow direction setting | Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set) | ○◎△● | ○ |
| Schedule operation | Weekly schedule can be set by groups based on daily operation pattern. | ○◎△● | ○ |
| Permit/prohibit local operation | Individually prohibits operation of each local remote controller function.<br>(ON/OFF, Operation mode, Set temperature, Filter sign reset, Air Direction*, Fan Speed*, Timer*)<br>* This function depends on the model. | ○◎△● | ○ |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating. | × | ○ |
| Error | When an error is currently occurring on an air conditioning unit, the affected unit and the error code are displayed. | × | □◎ |
| Test run | This operates air conditioning units in test run mode. | ○◎△● | ○ |
| Ventilation interlock | The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts. | ○◎△● | ○ |
| External input<br>(timer connection,<br>emergency stop input, etc.) | Using a level signal or pulse signal, it is possible to input the following:<br>Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input.<br>Pulse signal: Batch ON/OFF or Operation Disable/Enable<br>* Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately.<br>Only one input can be selected from the above inputs. | ◎ | ◎ |
| Energy Management | Bar Graph: Indoor unit Electric Energy, FAN operation time, Thermo-ON time (TOTAL, Cooling, Heating) can be displayed hourly, daily, and monthly.<br>Line Graph: Outdoor temp., Room temp., Set temp. (Heating, Cooling) input from PAC-YG63MCA. | × | □○●*3 |
| ME remote controller | The status of sensor on this controller can be monitored. | × | ○ |
| Smartphone/Tablet | The specified web browser on iOS and Android OS can monitor and operate the AE-200E. *1 | ○ | ○ |
| New web design | Revised web screen design for a more user friendly interface. *1 | ○◎△● | ○ |
| Apportionment of power consumption | Apportionment of power consumption can be calculated on the AE-200 *2 | ● | □● *3 |
| BACnet® communication | ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1 | ○ | × *3 |

*1. Please contact your local distributor regarding support for this feature.
*2. Even when the number of indoor units is 50 or less, the system must consist of AE-200E and EW-50E/AE-50E.
*3. Energy Management License Pack (optional) is required.

Centralized controller

# EW-50E

Dimensions 209(W) x 172(H) x 92(D) mm
8-1/4(W) x 6-25/32(H) x 3-5/8(D) in.

## Main Features

- **Can be used as an expansion controller for the AE-200E**
  Up to 200 indoor units can be operated and monitored by connecting three EW-50E units to an AE-200E controller.
- **Function to apportion electricity charges**
  The power consumption of each air conditioner can be calculated with an AE-200E controller. The calculated data can be output to a PC via a USB memory device or LAN, and billing charges can be prepared using a specific charge calculation tool.

*To use the function to apportion electricity charge, the AE-200E and EW-50E are required.
*For other restrictions, refer to the Installation Manual and Instruction Book.

## Functions

* The functions and specifications are subject to change.

◎: By group or multiple groups ○: By group □: Batch only

| Item | Remarks | Setting | Display |
|---|---|---|---|
| ON/OFF | Switches air conditioners and general equipment ON or OFF. | ◎ | ◎ |
| Operation mode switching | Switches to cool, dry, auto, fan, or heat operation. * Some modes are not available depending on the unit. | ◎ | ○ |
| Temperature setting | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. | ◎ | ○ |
| Set temperature 0.5°C/1°F increments | The temperature can be set and displayed in 0.5°C/1°F increments.<br>* With some unit combinations, the temperature is set in 1°C/2°F increments. | ◎ | ○ |
| Fan speed setting | The fan speed can be set to 4 levels, 3 levels, 2 levels, or automatic. * Available fan speeds differ depending on the unit. | ◎ | ○ |
| Air direction setting | Fixed swing in 5 levels or auto air direction can be set. * Available air directions differ depending on the unit. | ◎ | ○ |
| Prohibition of local remote controller operation | It is possible to disable the ability to use to local remote controller to run or stop the operation mode, set temperature, filter sign reset, wind speed, wind direction and timer operation.<br>* In the Lossnay group, only ON/OFF and filter reset can be disabled.<br>* Disabling of the fan speed, air direction, and timer operation can be set for the AT-50B, PAR-41MAA, PAR-U02MEDA, and PAC-YT52CR models. | ◎ | ○ |
| Room temperature display | Displays the suction temperature of the indoor unit. | — | ○ |
| Error display | Displays the current error content together with the address. | — | ◎ |
| Schedule operation | Today/weekly/weekly by season/yearly<br>Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan | ◎ | ○ |
| Energy management | Displays the power consumption* or operating hours. * Optional part required. | — | ◎ |
| Ventilator operation (solo) | Group operation is be possible for free plan Lossnay units only.<br>* The above group operation mode includes auto ventilation, heat exchange, and normal ventilation. | ◎ | ○ |
| Ventilator operation (interlocked) | Free plan Lossnay units and indoor units can be interlocked and operated together.<br>* At this point, air volume can be operated, but the ventilation mode cannot be selected. | ◎ | ○ |
| External input (timer connection, emergency stop input, etc.) | Using a level signal or pulse signal, it is possible to input the following:<br>Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input.<br>Pulse signal: Batch ON/OFF or Operation Disable/Enable<br>* Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately.<br>Only one input can be selected from the above inputs. | □ | — |
| External output (error output, operation output) | Using the level signal, ON/OFF, and Error/Normal are output.<br>* Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately. | — | □ |
| Web browser | Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy-saving control setting (option), energy-saving peak cut setting (option), set temperature range restrictions, other | ◎*1 | ◎*1 |
| Filter reset | Filter sign reset | ○ | ○ |
| Connectable location | Centralized system transmission line: Connectable Recommended<br>Indoor and outdoor transmission line: Connectable | — | — |

* Functions and specifications differ depending on the connected equipment and model.
* Electric energy can be proportionally divided using the EW-50E alone.
However, the apportioned electricity charge function requires an AE-200E.

■Connectable equipment: CITY MULTI
A Mr. SLIM Control (Can be connected using an M-NET adapter or special outdoor unit)
Room air conditioner (Requires a system control interface or M-NET control interface)
Lossnay
AI controller, PI controller, DIDO controller

■Notes
* 1. Some items do not support the multi group setting and display.





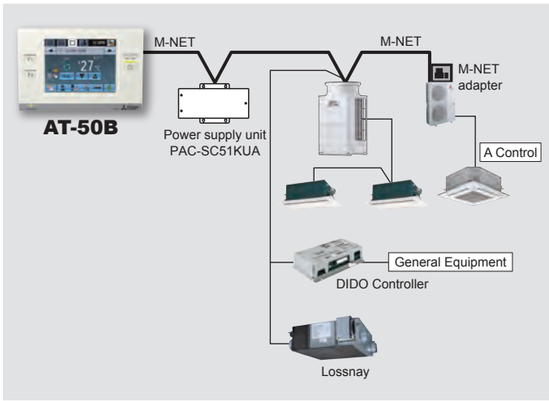
Advanced Touch controller

# AT-50B


Dimensions 180(W) x 120(H) x 30(D) mm
7-2/16(W) x 4-3/4(H) x 1-3/16(D) in.

**The color touch panel is easy to see and operate.**
**The operation screen can be selected according to the intended use.**

### System structure




## Advanced Functions

□: Each unit ○: Each group ◎: Group or collective ×: Not available

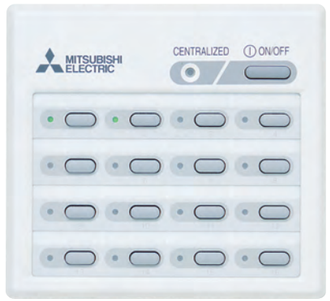
| Item | Description | Setting | Display |
|---|---|---|---|
| Permit / Prohibit | The ON/OFF, operation mode, setting temperature, fan speed, air direction, filter sign reset operations, and timer using the local remote controllers can be prohibited.<br>Only ON/OFF and filter reset can be prohibited for the LOSSNAY group.<br>*The settable items vary depending on the models. | ◎ | ◎ |
| Operation lock | The operation lock can be set to the input operation of the AT-50B.<br>Each button can be set. (Function Button 1, Function Button 2, Collective ON/OFF, Touch Panel)<br>Each function can be set. (Operation mode, Setting temperature, Fan speed, Menu button)<br>The password for the lock release can be set. | ◎ | ◎ |
| Error display | When an error is occurring on an air conditioner unit, the affected unit and the error code are displayed.<br>* When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen shows on abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code, and source of detection. | × | □◎ |
| Ventilation (independent) | Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups. | ◎ | ◎ |
| Ventilation (interlocked) | The LOSSNAY will run in interlock with the operation of the indoor unit.<br>The mode cannot be changed. The LED will turn ON during operation after interlocking. | ◎ | ◎ |
| Temperature set limitation | Batch-setting to temperature range limit in cooling, heating, and auto modes.<br>This function cannot be used with the MA remote controller. (Depends on the indoor unit model.) | ◎ | ◎ |
| Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit) | When set as the main controller, operation of the following modes with the local remote controllers can be prohibited:<br>When cooling is prohibited: Cooling, dry, automatic can not be chosen.<br>When heating is prohibited: Heating, automatic can not be chosen.<br>When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen. | ◎ | ◎ |
| External input (Emergency stop input, etc.) | The following input with level signals or pulse signals are available.<br>Level signal: "Emergency stop input" or "Collective ON/OFF"<br>Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit"<br>One input can be selected from those above.<br>* An external input/output adapter (PAC-YT51HAA (sold separately)) is required.<br>Relays and DC power supply or other devices must be prepared at the site. | ◎ | ◎ |
| External output (Error output, operation output) | "ON/OFF" and "error/normal" are output with the level signal.<br>* An external input/output adapter (PAC-YT51HAA (sold separately)) is required.<br>Relays and DC power supply or other devices must be prepared at the site. | ◎ | ◎ |
| Checking the Gas Amount | Use this function to check for a refrigerant leak from the outdoor unit.<br>* When this function is used, the gas amount checking function of the outdoor unit cannot be used.<br>This function is for CITY MULTI R2 and Y (PUMY is excluded.) Series only. | □ | □ |
| Schedule operation | Weekly schedule setting of up to 12 patterns is available.<br>In one pattern, up to 16 settings for "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction", and "Permit / Prohibit local operation" can be scheduled.<br>Two types of weekly schedules (Summer/Winter) can be set. Today's schedule allows setting of up to 5 patterns. | ○ | ○ |

* Depending on the installation conditions, power supply unit (PAC-SC51KUA) is required. Please contact your local distributor or MITSUBISHI ELECTRIC branch office for further information.

ON/OFF remote controller

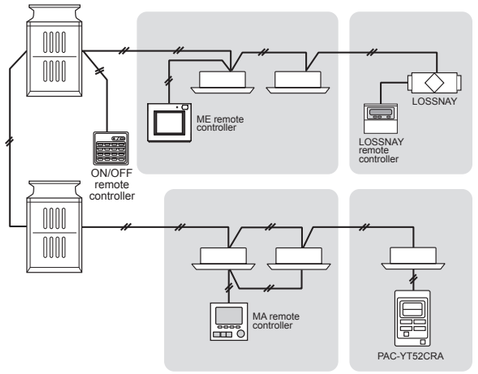
# PAC-YT40ANRA

Just press a switch to start. All of the units can be switched ON/OFF by pressing the main switch, and each unit in the group can be switched ON/OFF with individual switches. The PAC-YT40ANRA also has a hardwired connection available (ON/OFF input, fire alarm input, run output, fault output).




Dimensions 130(W) x 120(H) x 19(D) mm
5-1/8(W) x 4-3/4(H) x 3/4(D) in.

**System example**




- **Control of up to 16 groups/50 indoor units is possible**
  - Up to 16 groups/50 units can be operated with one ON/OFF remote controller.
  - A general-purpose interface is available for control, allowing general devices to also be turned ON and OFF.
- **Just press a switch to start**
  - All of the units can be started and stopped by pressing the main switch, and each unit in the group can be started and stopped with individual switches.
- **LED flashing during failure**
  - If any error should occur in the air conditioner, its details can be confirmed easily with the flashing LED. The LED also indicates whether each group is running or stopped.
- **Interlock operation with external system is possible**
  - It can be flexibly interlocked with a card reader, fire alarm system, or building management system, etc., using the incorporated external input/output function.
- **Flexible group setting**
  - Groups can be easily configured, allowing the group pattern to be freely set according to the layout.
  - The ON/OFF remote controller can be connected at the indoor/outdoor transmission line without the power supply unit.

NOTE
The dual set point function is available depending on the controller version.
Please contact your local distributor regarding the availability of this function.

○: Each group □: Batch only ×: Not available

| Function | Description | PAC-YT40ANRA | |
|---|---|---|---|
| UNITS | Max No.Units | 50 units/16 groups | |
| | | Setting | Display |
| ON/OFF | ON and OFF operation | ○ | ○ |
| Error indication | LED flashes during failure.<br>(The error code can be confirmed by removing the cover.) | × | ○ |
| Ventilation operation (Independent) | Group operation of only LOSSNAY units possible.<br>*Only ON/OFF of group. | ○ | ○ |
| Ventilation operation (Interlocked) | The LOSSNAY will run in interlock with the operation of the indoor unit.<br>*The fan rate and mode cannot be changed.<br>The LED will turn ON only during operation after interlocking. | ○ | ○ |
| External input | On and Off operation / Fire Alarm* | □ | × |
| External output | On and Off operation / Faults* | × | □ |

* Applicable to collective only
Not applicable to groups







Wired MA remote controller

# PAR-41MAAM NEW


Dimensions 120(W) x 120(H) x 14.5(D) mm
4-23/32(W) x 4-23/32(H) x 37/64(D) in.

**Highlight display**

The screen background can be set to black to suit the ambience of the room.


*Factory setting : White

- **Backlit LCD (Liquid Crystal Display)**
  Large, easy-to-see display
  Full-dot LCD display with large characters for easy viewing
  Contrast also adjustable
- **Night Setback**
  When the room temperature goes outside of a certain range during the predetermined period, this function automatically starts heating or cooling operation to prevent dew condensation or an excessive temperature increase in the room.
- **3D i-see sensor***
  Settings for 3D i-see sensor can be performed.
- **Draft reduction***
  “Close” has been added to the manual vane angle selection. The air outlet can be closed to reduce drafts from the air conditioner.
- **Auto descending panel***
  Panels can be lowered/raised using the remote controller. The descending distance of the panel can also be selected.

*The availability of the function depends on the indoor unit model. For details, please contact your local distributor.

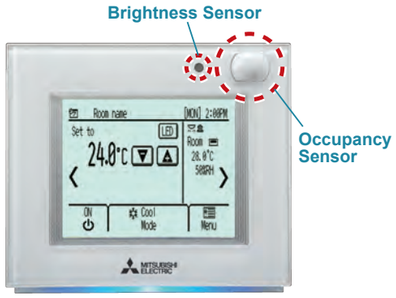
## Functions

○: Available ×: Not available

| Item | Description | Setting | Display |
|---|---|---|---|
| ON/OFF | Switches between ON and OFF. | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Fan / Auto / Heat. | ○ | ○ |
| Temperature setting | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. | ○ | ○ |
| Air flow direction setting | Changes airflow direction.<br>* Available airflow directions vary depending on the model. | ○ | ○ |
| Louver setting | Switches between louver ON/OFF. | ○ | ○ |
| Ventilation equipment control | Interlocked setting and interlocked operation setting with CITY MULTI LOSSNAY units can be performed.<br>The Stop/Low/High settings of the ventilation equipment can be controlled. | ○ | ○ |
| Error information | When an error occurs, an error code and the unit address appear.<br>Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs.<br>(The above information needs to be entered in advance.)<br>* An error code may not appear depending on the error. | – | ○ |
| Timer | ON/OFF timer<br>Turns ON and OFF daily at a set time.<br>• Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only.<br>Auto-OFF timer<br>Turns off the unit after a certain period of operation.<br>• Operation time can be set to a value from 30 to 240 minutes in 10-minute increments. | ○ | ○ |
| Allows/disallows local operation | The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode, temperature, filter sign reset, air direction, fan speed and timer.<br>* While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode). | × | ○ |
| Operation lock | The following operations can be prohibited: “Location,” “ON/OFF,” “Mode,” “Set temp.,” “Menu,” “Fan,” “Louver,” or “Vane.” | ○ | ○ |
| Temperature range restriction | The room temperature range for each operation mode can be restricted. | ○ | ○ |
| Auto return | The units operate at the preset temperature after a designated period.<br>(Time can be set to a value from 30 to 120 minutes in 10-minute increments.)<br>* Not valid when the temperature setting range is restricted. | ○ | × |
| Daylight saving time | The start / end time for daylight saving time can be set.<br>The daylight saving time function will be activated based on the setting contents. | ○ | ○ |

ME remote controller

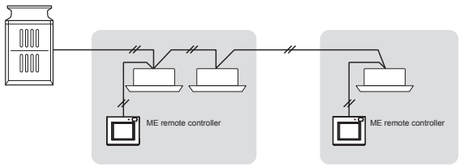
# PAR-U02MEDA



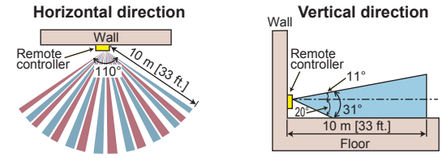

Dimensions: 140(W) x 120(H) x 25(D) mm
5-9/16(W) x 4-3/4(H) x 1(D) in.

- **Occupancy Sensor**
  The occupancy sensor detects when the room is empty and provides energy-saving control.
- **Touch Panel & Backlit LCD**
  The operation settings screen is a touch panel.
  When the backlight is off, touching the panel turns on the backlight.
  The backlight will remain on for a preset length of time.
- **LED Indicator**
  The color of the LED indicator indicates operation status.
  The LED indicator is lit during normal operations, and is not lit when units are stopped. In case of error, the indicator blinks.
- **Brightness Sensor**
  The brightness sensor detects brightness in the room and provides energy-saving control.
- **Temperature & Humidity Sensor**
  The sensor detects room temperature and relative humidity.

**Example of system configuration**




**Occupancy Sensor detection zone**




## Functions

○: Available ×: Not available

| Item | Description | Setting | Display |
|---|---|---|---|
| ON/OFF | Switches between ON and OFF. | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Fan / Heat / Auto.<br>Operation modes vary depending on the indoor unit model. | ○ | ○ |
| Temperature setting | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. | ○ | ○ |
| Fan speed setting | Changes fan speed.<br>* Available fan speeds vary depending on the model. | ○ | ○ |
| Air flow direction setting | Changes airflow direction.<br>* Available airflow directions vary depending on the model. | ○ | ○ |
| Allows/disallows local operation | The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset.<br>* While an operation is prohibited, the operation icon lights up. | × | ○ |
| Error information | When an error occurs, an error code and the unit address appear.<br>A contact number can be set to appear when an error occurs.<br>(The information above needs to be entered in the Service menu.) | — | ○ |
| Schedule (Weekly timer) | Weekly ON/OFF times, operation mode, and set temperatures can be set.<br>• Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week.<br>* Not valid when the ON/OFF timer is set. | ○ | ○ |
| Timer | ON/OFF timer<br>Turns ON and OFF daily at a set time.<br>• Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only.<br>Auto-OFF timer<br>Turns off the unit after a certain period of operation.<br>• Operation time can be set to a value from 30 to 240 in 10-minute increments. | ○ | ○ |
| Energy-save control during vacancy | When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated.<br>Four control types are available for selection:<br>ON/OFF/Set temperature/Fan speed/Thermo-off.<br>The brightness sensor can be used in conjunction with the occupancy sensor to detect the occupancy/vacancy status more accurately. | ○ | ○ |





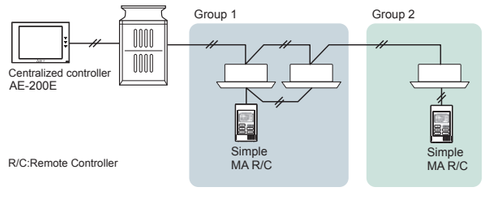


Simple MA remote controller

# PAC-YT52CRA

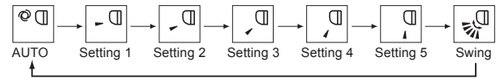

Dimensions: 70(W) x 120(H) x 14.5(D) mm
2-3/4(W) x 4-3/4(H) x 19/32(D) in.

**Example of system configuration**




- **Backlit LCD**
  Backlight for operation in dark areas
- **Flat back**
  Slim and flat type. Hole-free installation on walls
  Less than 14.5 mm [19/32 in.] thick.
- **Vane button (standard)**
  A vane adjustment button has been added to allow the user to change the direction of the air flow (ceiling-cassette and wall-mounted types).

  Pressing the button will switch the vane directions.




  * Air flow direction settings will vary depending on the connected indoor unit model.
  * For models without a vane adjustment function, air flow direction cannot be set. In such cases, the vane icon blinks when the button is pressed.
- **Only cross-over wiring based on two-wire signal lines is required.**
- **Room temperature sensor is built-in.**
- **Can be used to operate all types of indoor units.**
  *As this controller has limited functions, please use it in conjunction with the standard controller or a central controller.
- **LCD temperature settings and display are in 1°C /2°F increments.**

## Functions

□: Each unit ○: Each group ×: Not available

| Item | Description | Setting | Display |
|---|---|---|---|
| ON/OFF | Switches between ON and OFF. | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Fan / Heat / Auto.<br>Operation modes vary depending on the indoor unit model. | ○ | ○ |
| Temperature setting | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. | ○ | ○ |
| Fan speed setting | Changes fan speed.<br>* Available fan speeds vary depending on the model. | ○ | ○ |
| Vane setting | Switches the vane directions.<br>* The settable vane direction varies depending on the indoor unit model to be connected. | ○ | ○ |
| Permit / Prohibit local operation | By setting a centralized controller, the following local operations can be prohibited: ON/OFF, operation mode, preset temperature.<br>* The CENTRAL icon appears while local operations are prohibited. | × | ○ |
| Error | Displays the current error status with the address.<br>* The address may hot be displayed depending on the error status. | × | □ |
| Ventilation equipment | When the CITY MULTI indoor unit is connected, interlocked setting of the CITY MULTI LOSSNAY unit is possible.<br>When the Mr. SLIM indoor unit (A-control) is connected, interlocked operation LOSSNAY unit (LGH-R(V) X Type) is possible. | ○ | ○ |
| Set temperature range limit | The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO). | ○ | ○ |

MA remote controller

# PAR-CT01MAA-S

| Dimensions | 65(W) x 120(H) x 14.1(D) mm<br>2-9/16(W) x4-3/4(H) x 9/16(D) in. |
|---|---|

- **User-friendly**
  Large icons are easily visible on the full color touch panel display.
- **Flexibility**
  Customized display, color of parameter and background, editable parameter on the initial display.

## User-friendly

Full color touch panel display

Touch Panel

3.5 inch/HVGA
Full Color LCD

## Operation panels

Temperature setting

Operation mode

Fan speed

Vane control

Ventilation

Louver control

## Flexibility

### Multiple color patterns

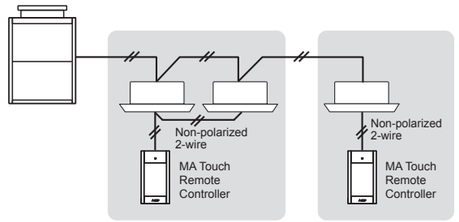
180 color patterns can be selected for the display's control parameters or background.

### Control parameter customization

Users can customize the panel to display the selected parameters only.

**Available in a wide variety of colors to suit the decor of any room.**

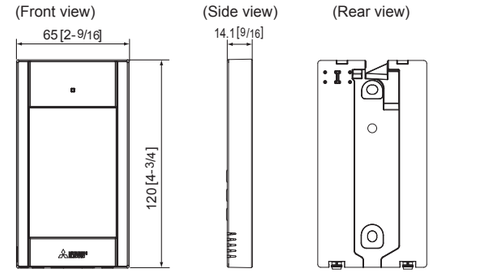
## System example




*When a PAR-CT01MAA is connected to a group, no other MA remote controllers can be connected to the same group.

## External dimension

Unit: mm[in.]




## Functions

○: Available ×: Not available

| Item | Description | Setting | Display |
|---|---|---|---|
| ON/OFF | Switches between ON and OFF. | ○ | ○ |
| Operation mode switching | Switches between Cool / Dry / Fan / Auto / Heat. | ○ | ○ |
| Temperature setting * | Changes the set temperature.<br>* The settable temperature range varies depending on the indoor unit model.<br>* Temperature will be displayed either in Celsius in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller. | ○ | ○ |
| Relative temperature display | Changes the target temperature by selecting the temperature difference (between +3 and +5˚C or -3 and -5˚C, in 1˚C increments) between the preset reference temperature and the target temperature in the cool, dry, heat, or auto (single set point) mode.<br>*The temperature can only be set to a value within the operation temperature range of the indoor unit.<br>*When the relative temperature display is selected, certain restrictions apply to the system controller functions.<br>*The reference temperature needs to be set to each operation mode. | ○ | ○ |
| Fan speed setting | Changes fan speed.<br>* Available fan speeds vary depending on the model. | ○ | ○ |
| Air flow direction setting | Changes airflow direction.<br>* Available airflow directions vary depending on the model. | ○ | ○ |
| Louver setting | Switches between louver ON/OFF. | ○ | ○ |
| Ventilation equipment control | Interlocked setting and interlocked operation setting with CITY MULTI Lossnay units can be performed.<br>The Stop/Low/High settings of the ventilation equipment can be controlled. | ○ | ○ |
| Daylight saving time | The start/end time for daylight saving time can be set.<br>The daylight saving time function will be activated based on the settings. | ○ | × |
| Error information | When an error occurs, an error code and the unit address appear.<br>Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs.<br>(The information above needs to be entered in advance.)<br>* An error code may not appear depending on the error. | — | ○ |
| Touch panel | The touch panel can be cleaned and calibrated. | — | ○ |
| Timer | ON/OFF timer<br>Turns ON and OFF daily at a set time.<br>• Time can be set in 5-minute increments.<br>• It is also possible to set the ON time only or the OFF time only.<br>Auto-OFF timer<br>Turns off the unit after a certain period of operation.<br>• Operation time can be set to a value from 30 to 240 minutes in 10-minute increments. | ○ | ○ |
| Allows/disallows local operation | The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, and filter sign reset.<br>* While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode). | × | ○ |
| Operation lock | The following operations can be prohibited:<br>"Location." "ON/OFF," "mode." "Set temp." "Menu." "Fan." "Louver." or "Vane." | ○ | ○ |
| Temperature range restriction | The room temperature range for each operation mode can be restricted. | ○ | ○ |
| Auto return | The units operate at the preset temperature after a designated period.<br>(Time can be set to a value from 30 to 120 minutes in 10-minute increments.)<br>* Not valid when the temperature setting range is restricted. | ○ | × |
| Design | The color of the screen can be changed. | ○ | ○ |

# Wireless remote controller

**PAR-FL32MA**

Dimensions

58(W) x 159(H) x 19(D) mm
[2-5/16(W) x 6-5/16(H) x 3/4(D) in.]

**PAR-SL101A-E**
(PLFY-P VEM-PA, PLFY-P VFM-E1, PKFY-P VLM-E only)

Dimensions

66(W) x 188(H) x 22(D) mm
[2-5/8(W) x 7-13/32(H) x 7/8(D) in.]

**PAR-FA32MA**

Dimensions

70(W) x 120(H) x 22.5(D) mm
[2-3/4(W) x 4-3/4(H) x 7/8(D) in.]

**PAR-SE9FA-E**
(PLFY-P VEM-PA signal receiver)

Dimensions

273(H) x 29(D) mm

**PAR-SF9FA-E**
(PLFY-VFM-E1 signal receiver)

Dimensions

214(H) x 25.5(D) mm

**PAR-SL94B-E*/PAR-SR2MA-E**
(Wireless remote controller kit for ceiling-suspended type)
* PAR-SL94B-E includes transmitter.

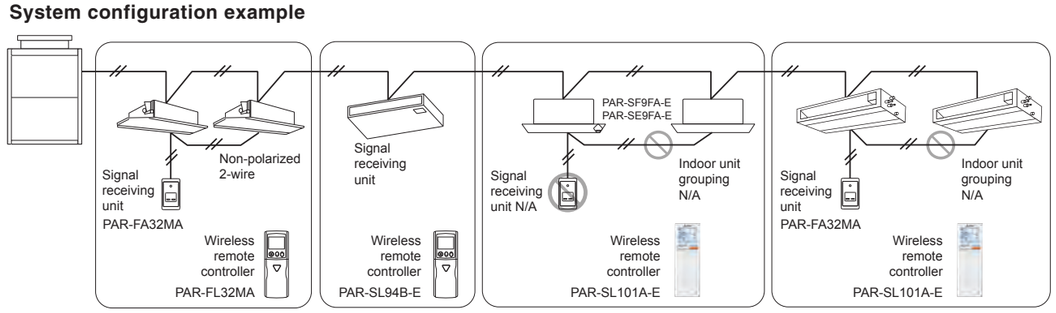
Dimensions

182(W) x 57(H) x 31(D) mm/
58(W) x 159(H) x 19(D) mm
[7-3/16(W) x 2-1/4(H) x 1-1/4(D) in.]/
[2-5/16(W) x 6-5/16(H) x 3/4(D) in.]

- **No need to configure addresses for group operation**
- **Lit LED keeps you informed of operation - the LED also provides you with error codes via the number of blinks**
- **Can be used with the MA remote controller**

  *When used in group configurations, wiring between indoor units is required.
  *Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.
- **Multiple indoor units cannot be controlled from the PAR-SL101A-E Only one indoor unit can be used in each group**
- **LCD temperature setting and display in 1°C /2°F increments**

### System configuration example









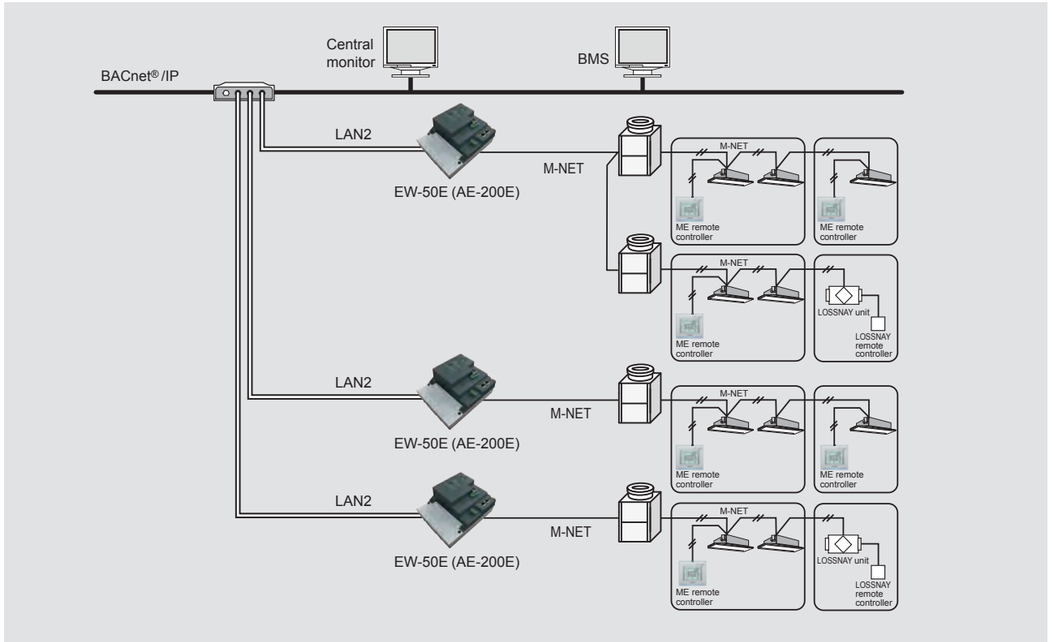

# BACnet®

CITY MULTI can easily combine into a Building Management System (BMS) via EW-50E (AE-200E).
BACnet® is an open transmission protocol widely used at BMS, and related equipment control.
CITY MULTI is compatible with large-scaled BMS management via BACnet®.

Dual Set Point

**EW-50E (AE-200E) can control up to 50 units/groups (including LOSSNAY).**
*To use the BACnet® function on EW-50E (AE-200E), BACnet® license registration is required.

### System example




### BACnet® and M-NET Function

| FUNCTION | CONTENT |
|---|---|
| Operation | |
| ON/OFF | ON/OFF |
| Mode | Cool/Dry/Heat/Auto/Fan |
| Fan Speed | Low-Mid2-Mid1-High-Auto |
| Air Direction | Horizontal-60%-80%-100% swing |
| Set Temperature | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. |
| Filter Sign Reset | Normal/Reset |
| Permit/Prohibit | ON/OFF, Mode, Filter sign reset, Set temp, Fan speed |
| Forced Off | Reset/Execute |
| Ventilation Mode | Heat Recovery/Bypass/Auto |
| Air to Water Mode | Heating/ECO/Hot Water/Antifreeze/Cooling |

| FUNCTION | CONTENT |
|---|---|
| Monitoring | |
| ON/OFF | ON/OFF |
| Mode | Cool/Dry/Heat/Auto/Fan |
| Fan Speed | Low-Mid2-Mid1-High-Auto |
| Air Direction | Horizontal-60%-80%-100% swing |
| Set Temperature | Changes the set temperature.<br>* Set temperature range varies depending on the indoor unit model. |
| Filter Sign | ON/OFF |
| Permit/Prohibit | ON/OFF, Mode, Filter sign reset, Set temp, Fan speed |
| Indoor Temperature | Temperature |
| Alarm Signal | Normal/Error |
| Error Code | 2 Character code- Indicates all unit alarms |
| Error Code Detail | 4 Character code- Indicates all unit alarms |
| Communication State | Normal/Error |
| Ventilation Mode | Heat Recovery/Bypass/Auto |
| Air to Water Mode | Heating/ECO/Hot Water/Antifreeze/Cooling |
| Apportioned Electric Energy | Group, Interlocked Units 0.1 kWh |
| PI controller Electric Energy | 0.1 kWh |
| Apportionment Parameter | Available* |
| Night Purge State | ON/OFF |
| Thermo On/Off State | ON/OFF |
| External Heat Source State | ON/OFF |
| Trend Log | Indoor Temp, Apportioned Electric Energy, PI controller Electric Energy, Apportionment Parameter |

* To use this function, the license to charge, AE-200E (not connected to the M-NET), PI controller, watt-hour meter with pulse transmitter (locally available one) are required.