VRF-HVRF Systems

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| Туре | | Мос | | P10 | P15 | P20 | P25 | P32 | |
|---|--|--------------------------------|------------------------------|----------|----------|----------|----------|----------|--|
| I | уре | MOC | TeT | 1.2 kW*1 | 1.7 kW*1 | 2.2 kW*1 | 2.8 kW*1 | 3.6 kW*1 | |
| ing | | PLFY-P VFM-E1 | | | • | • | • | • | |
| Ceiling cassette | 4 way flow | PLFY-P VEM-E | | | | • | • | • | |
| units | Middle-high static pressure | PEFY-P VMS1-E | | | • | • | • | • | |
| Ceiling concealed indoor units | Middle-high static pressure | PEFY-P VMA-E2 PEFY-P VMA-E3 | | | | • | • | • | |
| ng conceal | High static pressure | PEFY-P VMHS-E | h - s | | | | | | |
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| Ceiling Suspended Indoor units | | PCFY-P VKM-E | | | | | | | |
| | | PKFY-P VLM | | • | • | • | • | • | |
| ts | | PKFY-P VBM | | | • | • | • | | |
| indoor units | | PKFY-P VHM | | | | | | • | |
| Wall mounted | | PKFY-P VKM | | | | | | | |
| Wal | Wall mounted | LEV KIT MSZ-EF | | | • | • | • | • | |
| | design with LEV-KIT | LEV KIT MSZ-LN | | | | | • | • | |
| lits | Floor standing indoor units with LEV-KIT | LEV KIT CON MFZ-KJ | Name of Concession, or other | | | | | | |
| indoor ur | | PFFY-P VKM-E | | | | • | • | • | |
| Floor standing indoor units | | PFFY-P VLEM-E | | | | • | • | • | |
| *Nominal cooling capacity | Concealed type | PFFY-P VCM-E | | | | • | • | • | |

| | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
|---|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| | 4.5 kW*1 | 5.6 kW*1 | 7.1 kW*1 | 8.0 kW*1 | 9.0 kW*1 | 11.2 kW*1 | 14.0 kW*1 | 16.0 kW*1 | 22.4 kW*1 | 28.0 kW*1 |
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Key <u>Te</u>chnologies

Mitsubishi Electric innovation allowed the development of functions and technologies at the service of comfort and energy efficiency.

Style



"Pure white" colour

This is the colour adopted by Mitsubishi Electric for many of its indoor units. It is a colour suitable for virtually all interior spaces.



Automatic vane

The vane adjusts automatically to the optimum angle in relation to operating mode and output air temperature.

Functions



Timer

Annual, weekly, daily or simplified timer functions may be used to switch the unit on and off as desired.



Automatic mode switching

ACO The indoor unit automatically (AUTO) switches operating mode (COOL/HEAT) in relation to the temperature setting.



]Ultra silent

These indoor units produce extraordinarily low sound pressure levels.

Air quality



Deodorizing filter

The bad smells present in the environment are captured from the deodorizing filter and then be eliminated by the technology plasma. Extremely low deodorization time makes this function even more effective against the odors of animals or of cooking.



Outdoor air intake

The air quality in the indoor space may be improved using the outdoor fresh air intake.



Standard filter

A honeycomb or synthetic fibre filter with high dust holding capacity.



Long-life filter

Long life The special surface of the long-life filter requires less maintenance than a conventional filter.



"Dirty filters" indicator signal

Filter usage is monitored to indicate when maintenance is necessary.

Air Purifying Air purifyng filter

The filter has a large capture area and deodourise the circulating air.



Air distribution



Vane positions

Number of possible positions for the air deflector



Swing vane

A continuous swinging motion of the vane ensures that air is distributed ideally throughout the room.



Fan speed

Number of fan speeds available.



Automatic fan

La velocità del ventilatore viene regolata in automatico per soddisfare il grado di comfort richiesto.



Low

|High ceiling

For installations on high ceilings, the air flow may be augmented to improve air distribution.

Low ceiling

Ceiling For installations on low ceilings, the air flow may be reduced to prevent unpleasant draughts.



Air intake on underside

As an option during installation, the unit may be configured with the air intake on the underside.

Installation and maintenance



Condensate drain pump

The condensate drain pump facilitates installation.



Self-diagnostic

^{Diagnosis} A self-diagnostic system makes troubleshooting and correcting malfunctions easier by recording a log of faults.

Special functions



Auto-restart

The auto restart function may be used to configure the indoor units to restart automatically after a power outage, minimising interruptions in the operation of the system to maintain thermal comfort levels in the air conditioned spaces. This function must be enabled as an option as it is not enabled by default. A choice of two automatic start configurations is available:

- restart only the indoor units which were on before the power outage;
- restart all indoor units, irrespective of on/off state before the power outage.



Stratification compensation

The automatic heat stratification compensation function in HEAT mode is implemented by adjusting the ambient temperature read by a probe on the indoor unit, to obtain a value that more closely reflects the true temperature of the air conditioned space.

An offset of -4°C is applied, so that, for instance, if the inlet temperature measured is 24°C, the system automatically displays an adjusted value of 20°C, which should more closely reflect the true ambient temperature. The Mitsubishi Electric CITY MULTI VRF system bases the thermal power actually delivered on this value.

The stratification compensation function is available on all Mitsubishi Electric indoor unit types with the exception of floorstanding units and certain specific cases (such as with units with underside air intakes), and may be disabled on request.

Low Temp Cooling

Low temperature cooling

This function extends the operating temperature range in cooling mode to offer a lowest settable temperature of 14°C. Where the ability to cool to temperatures lower than the standard lowest comfort value of 19°C (typically for sports centres, laboratories etc.) is necessary, the settable temperature range in cooling mode may be extended to offer a lowest temperature of 14°C on the following models:

This function may be enabled during installation and is available on the following models:

- PLFY-P VLMD 2-way cassette
- PEFY-P VMR Ducted
- PEFY-P VMS1(L) Ducted
- PEFY-P VMA Ducted
- PEFY-P VMH Ducted
- PEFY-P VMHS Ducted
- PFFY-P VLEM Floor-standing
- PFFY-P VLRM Built-in floor unit
- PFFY-P VLRMM Built-in floor unit

The indoor unit fan is run at a higher speed in this configuration (except with the SMALL Y model outdoor unit of the PUMY series).



| | | Cass | ette | | | | | | |
|-----------------------------|---------------------|------------------|-----------------|------------------|-----------------------|---------------|------------------|-----------------|--|
| | | ~ | | | | | | | |
| | | PLFY-P VFM-E1 | PLFY-P VEM-E | PEFY-P VMS1-E | PEFY-P VMA-E(2)(3) | PEFY-P VMHS-E | PEFY-P VMHS-E | PCFY-P VKM-E | |
| Style | Pure White 🖗 | • | • | | | | | • | |
| St | AUTO VANE | • | • | | | | | • | |
| s | | • | • | • | • | • | • | • | |
| Functions | ¢ ACO | • | • | • | • | • | • | • | |
| ш | Ultra Silent | • | • | • | | | | | |
| | Fresh-air Intake | • | • | | | | | • | |
| | | | • | | | | | | |
| ity | Long life | • | • | | | | | • | |
| Air quality | Catechin | | | | | | | | |
| Aiı | Check! | • | • | | | | | • | |
| | | | | | | | | | |
| | Air Purifying | | | | | | | | |
| | ₽ _₹ | 5 | 5 | | | | | 5 | |
| | SWING | • | • | | | | | • | |
| ution | | 3 | 4 | 3 | 3 | 2 | 3 | 4 | |
| Air distribution | | • | • | • | | | • | • | |
| Air d | High Ceiling | • | • | | | | | • | |
| | Low Ceiling | • | • | | | | | • | |
| | | | | | • | | | | |
| Install. and mainten. | Drain Lift Up | • | • | •* | • | •* | •* | | |
| Inst aı main | Self | • | • | • | • | • | • | • | |
| 1 St | Auto Restart | • | • | • | • | • | • | • | |
| Special functions | Offset -4° | • | • | • | • | • | • | • | |
| Ę., | Low Temp Cooling | | | • | • | • | • | | |

| | | Wall m | | Floor s | tanding | | | | |
|-----------------|-----------------|-----------------|---------------|-------------------|-------------------|-------------------|-----------------|------------------|-----------------|
| | | | | | | | | | |
| PKFY-P VBM-E | PKFY-P VHM-E | PKFY-P VKM-E | PKFY-P VLM | LEV KIT MSZ-EF | LEV KIT MSZ-LN | LEV KIT MFZ-KJ | PFFY-P VKM-E | PFFY-P VLEM-E | PFFY-P VCM-E |
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INDOOR UNITS - 4-way cassette 600x600



CITY MULTI

Ideal for...

The **straight-line shape** introduced has resulted in a stylish and modern square design. Its high affinity ensures the ability to blend in seamlessly with any interior. The indoor unit is an ideal match for office or store use.



3D i-see Sensor

New advanced 3D i-see sensor detects people's position and number. Once a person is detected, the angle of the vane is automatically adjusted. Each vane can be independently set to "Direct Airflow" or "Indirect Airflow" according to taste.

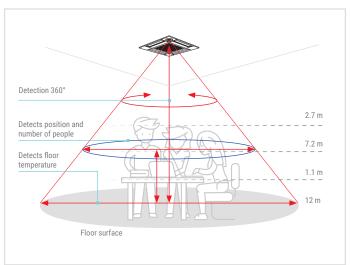
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently.

Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it can also stop the operation.

Horizontal flow

The new airflow control completely eliminates that uncomfortable draftyfeeling with the introduction of a **horizontal airflow** that spreads across the ceiling, maximizing the Coanda effect. Furthermore, 5 patterns for vane position (on previous VCM was 4) and individual settable vane and ways ensure higher comfort. The ideal airflow for offices and restaurants.



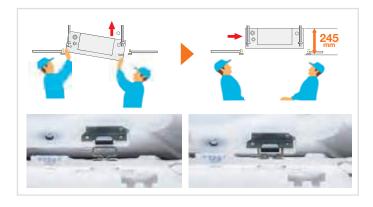


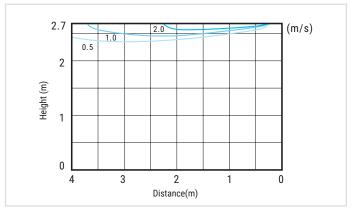
Simplified installation

The height above ceiling of 245 mm is top class in the industry. The height above ceiling of 245 mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher. Light weight (max 15kg) and temporary hanging hooks for grille allow to make installation easier and quicker.

Panel and control

The unit is supplied with SLP-2FAL panel which includes signal receiver. Is available as optional the SLP-2FALM panel combined with the new PAR-SL100A-E wireless remote control with weekly timer, backlight, temperature setting in 0.5 °C steps and individual control of the 4 deflectors.





| Key Tech | nnologies | 5 | | | | | | | |
|----------|-----------------|------------------|-------------------|--------------|--------------|------------------|-----------|--------|--|
| Inverter | Pure White 🞄 | AUTO VANE | | Çi≑O Aco | Ultra Silent | Fresh-air Intako | Long life | Check! | |
| SWING | | Drain Lift Up | Self Diagnosis | Auto Restart | Offset -4° | | | | |

| Technica | l specific | cations | S | | | | | | | |
|--------------------|----------------------|---------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--|--|
| MODEL | | | PLFY- P15VFM-E1 | PLFY- P20VFM-E1 | PLFY- P25VFM-E1 | PLFY- P32VFM-E1 | PLFY- P40VFM-E1 | PLFY- P50VFM-E1 | | |
| Default panel | | | | 1 | SLP | 2FAL | 1 | ' | | |
| Power | | | | | Single phase, 2 | 220-240V 50Hz | | | | |
| Capacity | | kW | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | | |
| in cooling mode*1 | | Btu/h | 5800 | 7500 | 9600 | 12300 | 15400 | 19100 | | |
| Capacity | | kW | 1.9 | 2.5 | 3.2 | 4 | 5 | 6.3 | | |
| in heating mode*1 | | Btu/h | 6500 | 8500 | 10900 | 13600 | 17100 | 21500 | | |
| Power consumption | Cooling | kW | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | | |
| Power consumption | Heating | kW | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | | |
| Current | Cooling | A | 0.19 | 0.21 | 0.22 | 0.23 | 0.28 | 0.4 | | |
| Current | Heating | A | 0.14 | 0.16 | 0.17 | 0.18 | 0.23 | 0.35 | | |
| External finish | Unit | | Galvanised steel sheet with uncoated thermal insulation | | | | | | | |
| External linish | Grille | | | | Pure White | | | | | |
| Dimensions AxLxP | Unit | mm | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | | |
| DIMENSIONS AXLXP | Grille | mm | 10x625x625 | 10x625x625 | 10x625x625 | 10x625x625 | 10x625x625 | 10x625x625 | | |
| Net weight | Unit | kg | 14 | 14 | 14 | 15 | 15 | 15 | | |
| Net weight | Grille | kg | 3 | 3 | 3 | 3 | 3 | 3 | | |
| Heat exchanger | | | | | Cros | s fins | | | | |
| | Type x Quantity | | | | 3D Turb | o fan x 1 | | | | |
| Fan | Air flow*2 | m³/min | 6.5 - 7.5 - 8 | 6.5 - 7.5 - 8.5 | 6.5 - 8 - 9 | 7 - 8 - 9.5 | 7.5 - 9 - 11 | 9 - 11 - 13 | | |
| | Ext. Static pressure | Pa | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Air filter | | | | | Polypropylen hon | eycomb (long life) | | | | |
| Refrigerant pipe | Gas (swaged) | mm | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | | |
| diameter | Liquid (swaged) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | | |
| Sound pressure*2*3 | | dB(A) | 26 - 28 - 30 | 26 - 29 - 31 | 26 - 30 - 33 | 26 - 30 - 34 | 28 - 33 - 39 | 33 - 39 - 43 | | |

* Default panel. SLP-2FAL panel is equipped by Signal reicever
 *¹ For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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.
 *³ Air flow/noise levels given for operation in low-medium-high modes.
 *³ Measured in anechoic chamber with 230V mains power.

| Optional parts | DESCRIPTION |
|----------------|--|
| PAC-SF1ME-E | Corner 3D I-see Sensor for PLFY-P VFM-E1 |







INDOOR UNITS - 4-way cassette 900x900



CITY MULTI

Ideal for...

New design of 4-way cassette VEM model suits most commercial applications thanks to its elegance and syle. Its peculiar features are horizontal flow function, individually settable vanes and possibility to install 3D i-see sensor for top environment comfort control.

3D i-see sensor: Temperature sensor

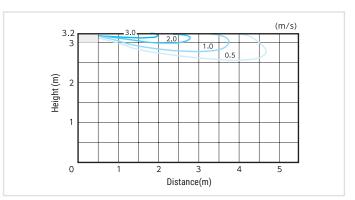
3D i-see sensor is able to detect temperature distribution inside the room, making it possible to direct airflow to those areas which generally receive less air, making them more uncomfortable (too cold or too hot) for users.



Horizontal flow

This new indoor unit is capable of handling five vane positions, making it possible to achieve horizontal flow that spreads across the ceiling, maximizing the Coanda effect. This allows to avoid, if needed, direct airflow to users in the room, which can sometimes be uncomfortable.









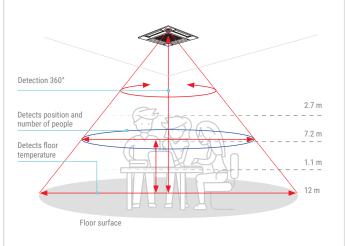
3D i-see sensor: Direct/Indirect flow function

Optional 3D i-see sensor allows to detect and count users in the environment and their position. User can set either Direct or Indirect flow to occupied areas, with single control on four vanes.

3D i-see sensor: Energy saving

3D i-see sensor features allow to optimize comfort conditions and at the same time achieve energy saving. Thanks to the occupancy sensor the unit is able to automatically handle and reduce power output accordingly to users actually being present in the room or in certain areas of it. This feature is particularly helpful in those environments in which occupancy varies significantly during the day.





Panel and control

The unit is supplied with PLP-6EA panel which does not include signal receiver. This component (PAR-SE9FA-E) can be installed as a corner accessory, as well as 3D i-See Sensor (PAC-SE1ME-E). The unit is compatible with all wired MA and ME remote controls and, if equipped with signal receiver, wireless remote controls. New PAR-SL100 A-E is compatible with PLFY-P VEM, and presents numerous new features, such as weekly timer, backlit display, 0,5°C temperature setting and monitoring, as well as functions for 3D i-see sensor.





Simplified installation

Thanks to new temporary panel supports maintenance and installation operation are now easier for field technicians.



Also, panel weight has been reduced by 20% thanks to a new design.



A simple loosening of support screws allows the removal of the control box and corner accessories.





| Technical s | pecificatio | ons | | | | | | | | |
|------------------------------|-----------------------|--------|-------------------|-----------------|---------------------------------|-----------------|-----------------|--|--|--|
| MODEL | | | PLFY-P20VEM-E | PLFY-P25VEM-E | PLFY-P32VEM-E | PLFY-P40VEM-E | PLFY-P50VEM-E | | | |
| Power | | | | A single phase | , 220-240V 50Hz / a single pha | ase, 200V 60Hz | I | | | |
| Capacity in cooling mode*1 | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | | | |
| Capacity in cooling mode** | | Btu/h | 7500 | 9600 | 12300 | 15400 | 19100 | | | |
| Capacity in heating mode*1 | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | | | |
| capacity in neating mode** | | Btu/h | 8500 | 10900 | 13600 | 17100 | 21500 | | | |
| Power consumption | Cooling | kW | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | | | |
| Power consumption | Heating | kW | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | | | |
| Current | Cooling | A | 0.31 | 0.31 | 0.32 | 0.32 | 0.32 | | | |
| Current | Heating | A | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | | | |
| External finish (Munsel No.) | Unit | | | | Galvanized steel plate | | | | | |
| External misir (Munsel NO.) | Grille | | | N | r. Munsel (1.0Y/9.2/0.2) (Biand | 0) | | | | |
| Dimensions (HxLxW) | Unit | mm | 258x840x840 | 258x840x840 | 258x840x840 | 258x840x840 | 258x840x840 | | | |
| Dimensions (HXLXW) | Grille | mm | 40x950x950 | 40x950x950 | 40x950x950 | 40x950x950 | 40x950x950 | | | |
| Net weight | Unit | kg | 19 | 19 | 19 | 19 | 19 | | | |
| Net weight | Grille | kg | 5 | 5 | 5 | 5 | 5 | | | |
| Heat exchanger | | | Cross fin (Al/Cu) | | | | | | | |
| | Type x Quantity | | | | Turbo fan x 1 | | | | | |
| Fan | Air flow*2 | m³/min | 12-13-14-15 | 12-13-14-15 | 13-14-15-16 | 13-14-15-17 | 13-14-16-18 | | | |
| i dii | All HOW." | l/s | 200-217-233-250 | 200-217-233-250 | 217-233-250-267 | 217-233-250-283 | 217-233-267-300 | | | |
| | Static ext.l pressure | Pa | 0 | 0 | 0 | 0 | 0 | | | |
| Motor | Туре | | | | DC Motor | | | | | |
| WOTO | Power output | kW | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | | | |
| Air filter | | | | F | Polypropilene honeycomb fabri | ic | | | | |
| Refrigerant pipe diameter | Gas (swaged) | mm | Ø 12.7 | Ø 12.7 | Ø 12.7 | Ø 12.7 | Ø 12.7 | | | |
| | Liquid (swaged) | mm | Ø 6.35 | Ø 6.35 | Ø 6.35 | Ø 6.35 | Ø 6.35 | | | |
| Local drain pipe diameter | Grille | | 0.D.32 | 0.D.32 | 0.D.32 | 0.D.32 | 0.D.32 | | | |
| Sound pressure*2*3 | | dB(A) | 24-26-27-29 | 24-26-27-29 | 26-27-29-31 | 26-27-29-31 | 26-27-29-31 | | | |

| MODEL | | | PLFY-P63VEM-E | PLFY-P80VEM-E | PLFY-P100VEM-E | PLFY-P125VEM-E | | | | |
|--------------------------------|-----------------------|--------|---|------------------|--------------------|-----------------|--|--|--|--|
| WODEL | | | FLFT-F03VLM-L | FLFT-F00VLM-L | | | | | | |
| Power | | | A single phase, 220-240V 50Hz / a single phase, 200V 60Hz | | | | | | | |
| Capacity in cooling mode*1 | | kW | 7.1 | 9.0 | 11.2 | 14.0 | | | | |
| capacity in cooling mode. | | Btu/h | 24200 | 30700 | 38200 | 47800 | | | | |
| Capacity in heating mode*1 | | kW | 8.0 | 10.0 | 12.5 | 16.0 | | | | |
| Capacity in neating mode | | Btu/h | 27300 | 34100 | 42700 | 54600 | | | | |
| Power consumption | Cooling | kW | 0.03 | 0.05 | 0.07 | 0.11 | | | | |
| Power consumption | Heating | kW | 0.03 | 0.05 | 0.07 | 0.11 | | | | |
| Current | Cooling | A | 0.36 | 0.50 | 0.67 | 1.06 | | | | |
| current | Heating | A | 0.29 | 0.43 | 0.60 | 0.99 | | | | |
| Enternal Enterly (Managel Mar) | Unit | | | Galvanize | d steel plate | <u>.</u> | | | | |
| External finish (Munsel No.) | Grille | | | Nr. Munsel (1.0) | /9.2/0.2) (Bianco) | | | | | |
| | Unit | mm | 258x840x840 | 258x840x840 | 298x840x840 | 298x840x840 | | | | |
| Dimensions (HxLxW) | Grille | mm | 40x950x950 | 40x950x950 | 40x950x950 | 40x950x950 | | | | |
| Net weight | Unit | kg | 21 | 21 | 24 | 24 | | | | |
| ivet weight | Grille | kg | 5 | 5 | 5 | 5 | | | | |
| Heat exchanger | | | Cross fin (Al/Cu) | | | | | | | |
| | Type x Quantity | | | Turbo | fan x 1 | | | | | |
| Fan | Air flow*2 | m³/min | 14-15-16-18 | 14-17-20-23 | 20-23-26-29 | 22-26-30-35 | | | | |
| rdii | AIT HOW ~2 | l/s | 233-250-267-300 | 233-283-333-383 | 333-383433-483 | 367-433-500-583 | | | | |
| | Static ext.l pressure | Pa | 0 | 0 | 0 | 0 | | | | |
| Motor | Туре | | | DC | Motor | ~ | | | | |
| MOTOF | Power output | kW | 0.050 | 0.050 | 0.120 | 0.120 | | | | |
| Air filter | | | | Polypropilene h | oneycomb fabric | ~ | | | | |
| Defrigerent nine diemeter | Gas (swaged) | mm | Ø 15.88 | Ø 15.88 | Ø 15.88 | Ø 15.88 | | | | |
| Refrigerant pipe diameter | Liquid (swaged) | mm | Ø 9.52 | Ø 9.52 | Ø 9.52 | Ø 9.52 | | | | |
| Local drain pipe diameter | Grille | | 0.D.32 | 0.D.32 | 0.D.32 | 0.D.32 | | | | |
| Sound pressure*2*3 | | dB(A) | 28-29-30-32 | 28-31-34-37 | 34-37-39-41 | 35-39-42-45 | | | | |

*1 Cooling/Heating capacity is the maximum value measured in the following conditions. Cooling: indoor 27°C (81°F) DB/19°C (66°F) WB, outdoor 35°C (95°F) BS. Heating: indoor 20°C (68°F) DB, outdoor 7°C (45°F) DB/6°C (43°F) WB.
 *2 High-mid1-mid2-low setting
 *3 Measured in anechoic chamber with 230V power supply.

| Optional parts | DESCRIPTION |
|----------------|---|
| PAC-SE1ME-E | Corner 3D I-see Sensor for PLFY-P VEM-E |
| PLP-6EALM | Panel with wireless remote controller |





PEFY-P VMS1-E

INDOOR UNITS - Ceiling concealed medium to low static pressure





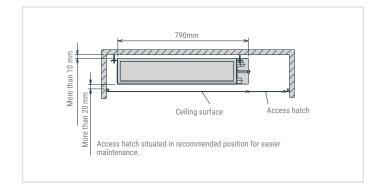
Ideal for...

This **ultra-slim 200 mm** unit offers extraordinary flexibility and is particularly suitable for use in rooms where low noise and compact vertical dimensions are essential.

Ultra-slim

These units are extremely thin, at just 200 mm in height. Extremely compact width and lengths of: 7790 mm for P15 and P32 models 990 mm for P40 and P50 models 1190 mm for P63 models

May be installed easily in cramped spaces such as ceiling recesses or double ceilings.



Condensate lift pump

The VMS1 is equipped with a condensate lift pump as standard.

Adjustable static pressure

L'unità è adatta per diverse applicazioni, grazie alle sue 4 impostazioni di presWith 4 selectable static pressure settings (5, 15, 25 and 50Pa), this unit is ideal for a variety of different applications.

Adjustable air flow

Three different fan speed settings - "low", "medium" and "high" – ensure the desired levels of comfort.

Low noise

The new design of the centrifugal fan and coil reduces noise levels.

| Noise | level | | | | | | | dB(A) |
|-----------|---------|-----|-----|-----|-----|-----|-----|-------|
| С | apacity | P15 | P20 | P25 | P32 | P40 | P50 | P63 |
| ed | High | | 28 | | 32 | 33 | 35 | 36 |
| Fan speed | Medium | | 24 | | 27 | 30 | 32 | 33 |
| Far | Low | | 22 | | 24 | 28 | 30 | 30 |

108 MITSUBISHI



| Key Tech | nnologies | 5 | | | | | | |
|------------|-------------|---------------|--------|---------------|------|------------------|------|--------------|
| | Çi≑O Aco | Ultra (Silent | Check! | 2 - 2 - C | AUTO | Drain Lift Up | Self | Auto Restart |
| Offset -4° | | | | | | | | |

| MODEL | | | PEFY- P15VMS1-E | PEFY- P20VMS1-E | PEFY- P25VMS1-E | PEFY- P32VMS1-E | PEFY- P40VMS1-E | PEFY- P50VMS1-E | PEFY- P63VMS1-E | | |
|-------------------------------------|-------------------------------|--------|---|--------------------|--------------------|-----------------------|--------------------|--------------------|---------------------|--|--|
| Power | | | A single-phase, 220-240V 50Hz / a 1 fase, 220-240V 60Hz | | | | | | | | |
| Capacity in | | kW | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | |
| cooling mode*1 | | Btu/h | 5800 | 7500 | 9600 | 12300 | 15400 | 19100 | 24200 | | |
| Capacity in | | kW | 1.9 | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | | |
| heating mode*1 | | Btu/h | 6500 | 8500 | 10900 | 13600 | 17100 | 21500 | 27300 | | |
| Power consumption | Cooling | kW | 0.05 [0.03] | 0.05 [0.03] | 0.06 [0.04] | 0.07 [0.05] | 0.07 [0.05] | 0.09 [0.07] | 0.09 [0.07] | | |
| Power consumption | Heating | kW | 0.03 [0.03] | 0.03 [0.03] | 0.04 [0.04] | 0.05 [0.05] | 0.05 [0.05] | 0.07 [0.07] | 0.07 [0.07] | | |
| Ownerst | Cooling | A | 0.42 [0.31] | 0.47 [0.36] | 0.50 [0.39] | 0.50 [0.39] | 0.56 [0.45] | 0.67 [0.56] | 0.72 [0.61] | | |
| Current | Heating | A | 0.31 [0.31] | 0.36 [0.36] | 0.39 [0.39] | 0.39 [0.39] | 0.45 [0.45] | 0.56 [0.56] | 0.61 [0.61] | | |
| External finish | | | | Galvanised | | | | | | | |
| Dimensions HxLxW | | mm | 200x790x700 | 200x790x700 | 200x790x700 | 200x790x700 | 200x990x700 | 200x990x700 | 200x1190x700 | | |
| Net weight | | kg | 19 [18] | 19 [18] | 19 [18] | 20 [19] | 24 [23] | 24 [23] | 28 [27] | | |
| Heat exchanger | | | | | Cross fins (she | et aluminium fins and | copper piping) | <u>.</u> | | | |
| | Type x Quantity | | | Ventilatore | Sirocco x 2 | | Ventilatore | Sirocco x 3 | Ventil. Sirocco x 4 | | |
| Fan | Air flow (low-medium-high) | m³/min | 5-6-7 | 5.5-6.5-8 | 5.5-7-9 | 6-8-10 | 8-9.5-11 | 9.5-11-13 | 12-14-16.5 | | |
| | Static external press | Pa | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | | |
| | Туре | | | | , | Brushless DC motor | | | | | |
| Motor | Power output | kW | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | | |
| Air filter | | | | | Polypropyle | ene honeycomb fabric | (washable) | | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø12.7 brazed | ø12.7 brazed | ø12.7 brazed | ø12.7 brazed | ø12.7 brazed | ø12.7 brazed | ø15.88 brazed | | |
| diameter | Liquid (swaged) | mm | ø6.35 brazed | ø6.35 brazed | ø6.35 brazed | ø6.35 brazed | ø6.35 brazed | ø6.35 brazed | ø9.52 brazed | | |
| Local drain pipe diameter | | | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | | |
| Sound pressure (low-medium-high) | | dB(A) | 22-24-28 | 23-25-29 | 24-26-30 | 24-27-32 | 28-30-33 | 30-32-35 | 30-33-36 | | |

*1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. Cooling: indoor 27°C DB/19°C WB, outdoor 35°C DB.
 Heating: indoor 20°C DB (68°F DB), outdoor 7°C DB (45°F DB/43°F WB). Pipe length: 7.5 m (24-9/16 feet).
 Height difference: 0 m (0 feet).
 *2 Static external pressure is set to 15 Pa by default.
 *3 [] in case of PEFY-P15-63VMS1L-E.



INDOOR UNITS - Ceiling concealed medium to high static pressure



CITY MULTI

Ideal for...

Featuring very precise ambient temperature control, the VMA series ducted unit offers **unparalleled energy efficiency.**

Static pressure

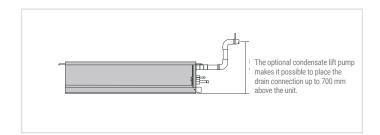
Static external pressure is adjustable to suit the system configuration and installation conditions. The static pressure may be modified to cater for all types of ducting and to allow for functional upgrades such as installing high performance filters, etc. To cater for different layouts and configurations, the static pressure is adjustable within a range from 35Pa to 150 Pa*. * Default setting 50Pa.

Compact unit

The entire VMA series offers extraordinarily compact dimensions: measuring just 250 mm in height, this the perfect solution for installation in cramped spaces.

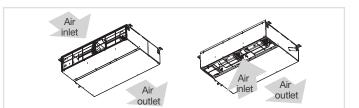
Condensate lift pump

The VMA is equipped with a condensate lift pump.



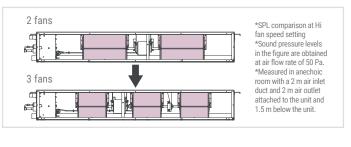
Air inlet direction can easily be changed

By only switching the closing board and air filter, the inlet layout can be altered from the rear inlet. (At the time of factory shipment: rear inlet)

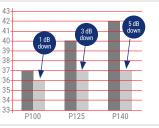


Reduced noise by changing the fan structure (for PEFY-P100/125/140VMA-E2)

Reduced noise by increasing the number of fans from two to three $(\mbox{P100}/125/140).$











| Key Tech | nnologies | 5 | | | | | | |
|----------|-----------|-------------|---|--------|--|-------------------|--------------|------------|
| Inverter | | ¢i≑O Aco | + | Check! | | Self Diagnosis | Auto Restart | Offset -4° |
| | | | | | | | | |
| | | | | | | | | |

| MODEL | | | PEFY- P20VMA-E2 | PEFY- P25VMA-E2 | PEFY- P32VMA-E2 | PEFY- P40VMA-E2 | PEFY- P50VMA-E2 | PEFY- P63VMA-E2 | | | | |
|---------------------------------------|-------------------------------|--------|--|--------------------|----------------------|-----------------------|--------------------|--------------------|--|--|--|--|
| Power | | | | | A single-phase, 220 |)-230-240VAC 50Hz | ! | • | | | | |
| Capacity in | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | | | |
| cooling mode *1 | | Btu/h | 7500 | 9600 | 12300 | 15400 | 19100 | 24200 | | | | |
| Capacity in | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | | | | |
| heating mode*1 | | Btu/h | 8500 | 10900 | 13600 | 17100 | 21500 | 27300 | | | | |
| D | Cooling | kW | 0.037 | 0.037 | 0.045 | 0.062 | 0.085 | 0.071 | | | | |
| Power consumption | Heating | kW | 0.035 | 0.035 | 0.043 | 0.060 | 0.083 | 0.069 | | | | |
| Ourrent | Cooling | A | 0.35 | 0.35 | 0.37 | 0.45 | 0.55 | 0.45 | | | | |
| Current | Heating | A | 0.35 | 0.35 | 0.37 | 0.45 | 0.55 | 0.45 | | | | |
| External finish | | | | | Galvanized | l steel plate | · | | | | | |
| Dimensions HxLxW | | mm | 250x700x732 | 250x700x732 | 250x700x732 | 250x900x732 | 250x900x732 | 250x1100x732 | | | | |
| Net weight | | kg | 22 | 22 | 22 | 26 | 26 | 31 | | | | |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) | | | | | | | | | |
| | Type x Quantity | | Sirocco x 1 | Sirocco x 1 | Sirocco x 1 | Sirocco x 1 | Sirocco x 1 | Sirocco x 2 | | | | |
| | | m³/min | 6.0-7.5-8.5 | 6.0-7.5-8.5 | 7.5-9.0-10.5 | 10.0-12.0-14.0 | 12.0-14.5-17.0 | 13.5-16.0-19.0 | | | | |
| Fan | Air flow (low-medium-high) | l/s | 100-125-142 | 100-125-142 | 125-150-175 | 167-200-233 | 200-242-283 | 225-267-317 | | | | |
| | (low-mediam-nigh) | cfm | 212-265-300 | 212-265-300 | 265-318-371 | 353-424-494 | 424-512-600 | 477-565-671 | | | | |
| | Static external press | Pa | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | | | | |
| Mataa | Туре | | | | DC N | Notor | · | | | | | |
| Motor | Power output | kW | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.121 | | | | |
| Air filter | | | | · | Polypropylene honeyc | omb fabric (washable) | · | | | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø9.52 | | | | |
| diameter | Liquid (swaged) | mm | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø15.88 | | | | |
| Local drain pipe diameter | | | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | | | | |
| Sound pressure (low-medium-high)*2 | | dB(A) | 26-27-28 | 26-27-28 | 28-30-34 | 28-30-34 | 28-31-35 | 29-32-35 | | | | |

*1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 Measured in anechoic chamber with 230V mains power.



| Technical s | pecificati | ons | | | | | | | | |
|---------------------------------------|-------------------------------|--------|-------------------------------------|------------------|---------------------------------|------------------|------------------|--|--|--|
| MODEL | | | PEFY-P71VMA-E2 | PEFY-P80VMA-E2 | PEFY-P100VMA-E2 | PEFY-P125VMA-E2 | PEFY-P140VMA-E2 | | | |
| Power | | | A single-phase, 220-230-240VAC 50Hz | | | | | | | |
| Capacity in | | kW | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 | | | |
| cooling mode *1 | | Btu/h | 27300 | 30700 | 38200 | 47800 | 54600 | | | |
| Capacity in | | kW | 9.0 | 10.0 | 12.5 | 16.0 | 18.0 | | | |
| heating mode*1 | | Btu/h | 30700 | 34100 | 42700 | 54600 | 61400 | | | |
| Devention | Cooling | kW | 0.085 | 0.085 | 0.146 | 0.202 | 0.216 | | | |
| Power consumption | Heating | kW | 0.083 | 0.083 | 0.144 | 0.200 | 0.214 | | | |
| Quere et | Cooling | A | 0.60 | 0.60 | 0.95 | 1.29 | 1.47 | | | |
| Current | Heating | A | 0.60 | 0.60 | 0.95 | 1.29 | 1.47 | | | |
| External finish | | | | | Galvanized steel plate | | | | | |
| Dimensions HxLxW | | mm | 250x1100x732 | 250x1100x732 | 250x1400x732 | 250x1400x732 | 250x1600x732 | | | |
| Net weight | | kg | 31 | 31 | 39 | 39 | 43 | | | |
| Heat exchanger | | | | Cros | ss fin (Aluminum fin and copper | tube) | | | | |
| | Type x Quantity | | Sirocco x 2 | Sirocco x 2 | Sirocco x 3 | Sirocco x 3 | Sirocco x 3 | | | |
| | | m³/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 | | | |
| Fan | Air flow (low-medium-high) | l/s | 242-300-350 | 242-300-350 | 383-467-533 | 467-567-617 | 492-592-667 | | | |
| | (low-mediam-mgn) | cfm | 512-636-742 | 512-636-742 | 812-989-1130 | 989-1201-1306 | 1042-1254-1412 | | | |
| | Static external press | 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 | | | |
| Mata | Туре | | | | DC Motor | | | | | |
| Motor | Power output | kW | 0.121 | 0.121 | 0.300 | 0.300 | 0.300 | | | |
| Air filter | | - | | Polypr | ropylene honeycomb fabric (wa | shable) | | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø9.52 | ø9.52 | ø9.52 | ø9.52 | ø9.52 | | | |
| diameter | Liquid (swaged) | mm | ø15.88 | ø15.88 | ø15.88 | ø15.88 | ø15.88 | | | |
| Local drain pipe diameter | | | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | 0.D. 32 (1-1/4) | | | |
| Sound pressure (low-medium-high)*2 | | dB(A) | 29-32-34 | 29-32-34 | 31-35-38 | 35-39-40 | 32-36-40 | | | |

** For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 Measured in anechoic chamber with 230V mains power.





INDOOR UNITS - Ceiling concealed medium to high static pressure



CITY MULTI

Ideal for...

Featuring very precise ambient temperature control, the VMA series ducted unit offers **unparalleled energy efficiency**.

Static pressure

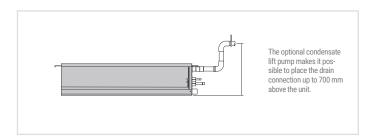
Static external pressure is adjustable to suit the system configuration and installation conditions. The static pressure may be modified to cater for all types of ducting and to allow for functional upgrades such as installing high performance filters, etc. To cater for different layouts and configurations, the static pressure is adjustable within a range from 35Pa to 150 Pa.

Compact unit

The entire VMA series offers extraordinarily compact dimensions: measuring just 250 mm in height, this the perfect solution for installation in cramped spaces.

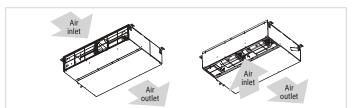
Condensate lift pump

The VMA is equipped with a condensate lift pump.



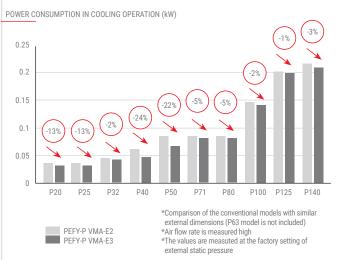
Air inlet direction can easily be changed

By only switching the closing board and air filter, the inlet layout can be altered from the rear inlet. (At the time of factory shipment: rear inlet)



Less power consumption

Improved air pathway inside the fan casing provides smooth air flow for more efficient operation. Additionally, the new higher-efficiency motor reduces energy consumption.







| Key Tech | nnologies | 5 | | | | | |
|----------|-----------|-------------|--------|--|-------------------|--------------|------------|
| Inverter | | Çi≑O Aco | Check! | | Self Diagnosis | Auto Restart | Offset -4° |
| | | | | | | | |

| MODEL | | | PEFY-P20VMA-E3 | PEFY-P25VMA-E3 | PEFY-P32VMA-E3 | PEFY-P40VMA-E3 | | | | | |
|---------------------------------------|-------------------------------|--------|---|----------------------------------|----------------------------------|----------------------------------|--|--|--|--|--|
| Power | | | 1-phase 220-230-240 V 50 Hz | | | | | | | | |
| Capacity in | | kW | 2.2 | 2.8 | 3.6 | 4.5 | | | | | |
| cooling mode *1 | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | | | | | |
| Capacity in | | kW | 2.5 | 3.2 | 4.0 | 5.0 | | | | | |
| neating mode*1 | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | | | | | |
| | Cooling | kW | 0.032 | 0.032 | 0.044 | 0.047 | | | | | |
| Power consumption | Heating | kW | 0.030 | 0.030 | 0.042 | 0.045 | | | | | |
| D | Cooling | A | 0.25 | 0.25 | 0.34 | 0.37 | | | | | |
| Current | Heating | A | 0.25 | 0.25 | 0.34 | 0.37 | | | | | |
| External finish | | | | Galvanized | steel plate | | | | | | |
| Dimensions HxLxW | | mm | 250 x 700 x 732 | 250 x 700 x 732 | 250 x 700 x 732 | 250 x 900 x 732 | | | | | |
| Vet weight | | kg | 21 | 21 | 21 | 25 | | | | | |
| Heat exchanger | | | | Cross fin (Aluminum | fin and copper tube) | | | | | | |
| | Type x Quantity | | Sirocco x 1 | Sirocco x 1 | Sirocco x 1 | Sirocco x 2 | | | | | |
| | | m³/min | 6.0 - 7.5 - 8.5 | 6.0 - 7.5 - 8.5 | 7.5 - 9.0 - 10.5 | 10.0 - 12.0 - 14.0 | | | | | |
| Fan | Air flow (low-medium-high) | l/s | 100 - 125 - 142 | 100 - 125 - 142 | 125 - 150 - 175 | 167 - 200 - 233 | | | | | |
| | (iow median nigh) | cfm | 212 - 265 - 300 | 212 - 265 - 300 | 265 - 318 - 371 | 353 - 424 - 494 | | | | | |
| | External static press *2 | Pa | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | | | | | |
| Motor | Туре | | | DC N | Notor | | | | | | |
| VIOLOI | Power output | kW | 0.085 | 0.085 | 0.085 | 0.121 | | | | | |
| Air filter | | | Polypropylene honeycomb fabric (washable) | | | | | | | | |
| Refrigerant pipe | Gas (brazed) | mm | 12.7 | 12.7 | 12.7 | 12.7 | | | | | |
| liameter | Liquid (brazed) | mm | 6.35 | 6.35 | 6.35 | 6.35 | | | | | |
| ocal drain pipe diameter | | | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | | | | | |
| Sound pressure (low-medium-high)*3 | | dB(A) | 21 - 25 - 27 | 21 - 25 - 27 | 23 - 27 - 30 | 23 - 28 - 31 | | | | | |

** For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 The factory setting of airflow mode and external static pressure mode is shown without < >.
 *3 Measured in anechoic chamber with 230V mains power and at the factory setting of external static pressure.

| MODEL | | | PEFY-P50VMA-E3 | PEFY-P63VMA-E3 | PEFY-P71VMA-E3 | PEFY-P80VMA-E3 | | | | | |
|---------------------------------------|-------------------------------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|--|--|--|
| Power | | _ | 1-phase 220-230-240 V 50 Hz | | | | | | | | |
| Capacity in | | kW | 5.6 | 7.1 | 8.0 | 9.0 | | | | | |
| cooling mode *1 | | Btu/h | 19,100 | 24,200 | 27,300 | 30,700 | | | | | |
| Capacity in | | kW | 6.3 | 8.0 | 9.0 | 10.0 | | | | | |
| heating mode*1 | | Btu/h | 21,500 | 27,300 | 30,700 | 34,100 | | | | | |
| Power consumption | Cooling | kW | 0.066 | 0.087 | 0.080 | 0.080 | | | | | |
| Power consumption | Heating | kW | 0.064 | 0.085 | 0.078 | 0.078 | | | | | |
| Current | Cooling | A | 0.51 | 0.66 | 0.57 | 0.57 | | | | | |
| Current | Heating | A | 0.51 | 0.66 | 0.57 | 0.57 | | | | | |
| External finish | | | | Galvanized | l steel plate | | | | | | |
| Dimensions HxLxW | | mm | 250 x 900 x 732 | 250 x 900 x 732 | 250 x 1,100 x 732 | 250 x 1,100 x 732 | | | | | |
| Net weight | | kg | 25 | 27 | 30 | 30 | | | | | |
| Heat exchanger | | | | Cross fin (Aluminum | fin and copper tube) | · | | | | | |
| | Type x Quantity | | Sirocco x 2 | Sirocco x 2 | Sirocco x 2 | Sirocco x 2 | | | | | |
| | | m³/min | 12.0 - 14.5 - 17.0 | 13.5 - 16.0 - 19.0 | 14.5 - 18.0 - 21.0 | 14.5 - 18.0 - 21.0 | | | | | |
| Fan | Air flow (low-medium-high) | l/s | 200 - 242 - 283 | 225 - 267 - 317 | 242 - 300 - 350 | 242 - 300 - 350 | | | | | |
| | (IOW-ITIEUIUITI-TIIgIT) | cfm | 424 - 512 - 600 | 477 - 565 - 671 | 512 - 636 - 742 | 512 - 636 - 742 | | | | | |
| | External static press*2 | Pa | 35 - <50> - <70> - <100> - <150> | 35 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150; | | | | | |
| | Туре | | | DC N | Motor | | | | | | |
| Motor | Power output | kW | 0.121 | 0.121 | 0.121 | 0.121 | | | | | |
| Air filter | | | | Polypropylene honeyc | omb fabric (washable) | | | | | | |
| Refrigerant pipe | Gas (brazed) | mm | 12.7 | 15.88 | 15.88 | 15.88 | | | | | |
| diameter | Liquid (brazed) | mm | 6.35 | 9.52 | 9.52 | 9.52 | | | | | |
| Local drain pipe diameter | | | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | | | | | |
| Sound pressure (low-medium-high)*3 | | dB(A) | 24 - 31 - 34 | 27 - 31 - 35 | 25 - 31 - 34 | 25 - 31 - 34 | | | | | |

** For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 The factory setting of airflow mode and external static pressure mode is shown without <>. **3 Measured in anechoic chamber with 230V mains power

Technical specifications

| MODEL | | | PEFY-P100VMA-E3 | PEFY-P125VMA-E3 | PEFY-P140VMA-E3 |
|---|-------------------------------|--------|----------------------------------|---|----------------------------------|
| Power | | | | 1 1-phase 220-230-240 V 50 Hz | |
| Capacity in | | kW | 11.2 | 14.0 | 16.0 |
| cooling mode *1 | | Btu/h | 38,200 | 47,800 | 54,600 |
| Capacity in | | kW | 12.5 | 16.0 | 18.0 |
| heating mode*1 | | Btu/h | 42,700 | 54,600 | 61,400 |
| Dower concumption | Cooling | kW | 0.142 | 0.199 | 0.208 |
| Power consumption | Heating | kW | 0.140 | 0.197 | 0.206 |
| Current | Cooling | A | 0.97 | 1.23 | 1.34 |
| Current | Heating | A | 0.97 | 1.23 | 1.34 |
| External finish | | | | Galvanized steel plate | |
| Dimensions HxLxW | | mm | 250 x 1,400 x 732 | 250 x 1,400 x 732 | 250 x 1,600 x 732 |
| Net weight | | kg | 37 | 38 | 42 |
| Heat exchanger | | | | Cross fin (Aluminum fin and copper tube) | |
| | Type x Quantity | | Sirocco x 3 | Sirocco x 3 | Sirocco x 3 |
| | | m³/min | 23.0 - 28.0 - 32.0 | 28.0 - 34.0 - 37.0 | 29.5 - 35.5 - 40.0 |
| Fan | Air flow (low-medium-high) | l/s | 383 - 467 - 533 | 467 - 567 - 617 | 492 - 592 - 667 |
| | (iow mediani nigri) | cfm | 812 - 989 - 1,130 | 989 - 1,201 - 1,306 | 1,042 - 1,254 - 1,412 |
| | External static press*2 | Pa | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> |
| Motor | Туре | | | DC Motor | |
| WOLDI | Power output | kW | 0.300 | 0.300 | 0.300 |
| Air filter | | | | Polypropylene honeycomb fabric (washable) | |
| Refrigerant pipe | Gas (swaged) | mm | 15.88 | 15.88 | 15.88 |
| diameter | Liquid (swaged) | mm | 9.52 | 9.52 | 9.52 |
| Local drain pipe diameter | | | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") | 0.D.32 (1-1/4") |
| Sound pressure (low-medium-high)* ³ | | dB(A) | 30 - 35 - 38 | 34 - 38 - 40 | 33 - 37 - 40 |

** For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 The factory setting of airflow mode and external static pressure mode is shown without < >. **³ Measured in anechoic chamber with 230V mains power

116 MITSUBISHI







INDOOR UNITS - Ceiling concealed medium to high static pressure





Four levels of external static pressure settings

Although the conventional models only had three levels of external static pressure, the new models offer four levels of external static pressure. The additional external static pressure capacity provides flexibility for duct extension, branching and air outlet configuration.

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

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

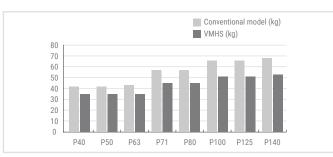
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Three fan speeds (Low/Mid/High) to choose from

The conventional models had two levels of fan speed, the new models offer three levels of fan speed (Low/Mid/High). Combined with a wider selection of external static pressure levels, the new models offer optimal operation settings to suit the air-conditioning load of an Installation space.

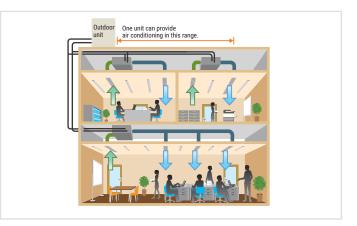
Reduction weight

Downsizing of the motor helped reduce unit weight, offering easier installation.



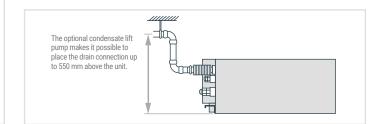
The use of DC motor

The new models are equipped with high-efficiency DC motors as compared to the AC motors on older models, which reduced power consumption. On the P80 models, power consumption is reduced by 59%*.



Optional drain pump

Use of high-efficiency DC motor for the drain pump motor on the new models reduces power consumption by 90%, in comparison to that on the conventional models. The pump head height of 550 mm provides for greater piping design flexibility.







| Key Technologies | | | | | | | | | | | |
|------------------|--|-------------|-------|------|------------------|------|--------------|------------|---------------------|--|--|
| Inverter | | ÇI≑O Aco | 2 2 4 | AUTO | Drain Lift Up | Self | Auto Restart | Offset -4° | Low Temp Cooling | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| 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 | | | | | | A single-phase, 220 | -230-240V 50/60 H | Z | | |
| Capacity in | | kW | 4,5 | 5,6 | 7,1 | 8,0 | 9,0 | 11,2 | 14,0 | 16,0 |
| cooling mode *1 | | Btu/h | 15,400 | 19,100 | 24,200 | 27,300 | 30,700 | 38,200 | 47,800 | 54,600 |
| Capacity in | | kW | 5,0 | 6,3 | 8,0 | 9,0 | 10,0 | 12,5 | 16,0 | 18,0 |
| heating mode*1 | | Btu/h | 17,100 | 21,500 | 27,300 | 30,700 | 34,100 | 42,700 | 54,600 | 61,400 |
| Power consumption | Cooling | kW | 0,055 | 0,055 | 0,090 | 0,075 | 0,090 | 0,160 | 0,160 | 0,190 |
| Power consumption | Heating | kW | 0,055 | 0,055 | 0,090 | 0,075 | 0,090 | 0,160 | 0,160 | 0,190 |
| Current | Cooling | A | 0,41-0,39-0,38 | 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 | 1,05-1,01-0,96 | 1,24-1,19-1,14 |
| Current | Heating | A | 0,41-0,39-0,38 | 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 | 1,05-1,01-0,96 | 1,24-1,19-1,14 |
| External finish | | | | | | Galva | nized | | | |
| Dimensions HxLxW | | mm | 380x745x900 | 380x745x900 | 380x745x900 | 380x1030x900 | 380x1030x900 | 380x1195x900 | 380x1195x900 | 380x1195x900 |
| Net weight | | kg | 35 | 35 | 35 | 45 | 45 | 51 | 51 | 53 |
| Heat exchanger | | | | | Cro | oss fins (aluminium | fins and copper pip | ing) | | |
| | Type x Quantity | | Sirocco x 1 | Sirocco x 1 | Sirocco x 1 | Sirocco x 2 |
| | | m³/min | 10,0-12,0-14,0 | 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 | 26,5-32,0-38,0 | 28,0-34,0-40,0 |
| Fan | Air flow (low-medium-high) | l/s | 167-200-233 | 167-200-233 | 225-267-317 | 258-300-367 | 300-358-417 | 442-533-633 | 442-533-633 | 467-567-667 |
| | (low mediam nigh) | cfm | 353-424-494 | 353-424-494 | 477-565-671 | 547-636-777 | 636-759-883 | 936-1130-1342 | 936-1130-1342 | 989-1201-1412 |
| | Static external press | Pa | 50 - 100 -150 - 200 | 50 - 100 -150 - 200 | 50 - 100 -150 - 200 | 50 - 100 -150 - 200 | 50 - 100 -150 - 200 | 50 - 100 -150 - 200 | 50 - 100 -150 - 200 | 50 - 100 -150 - 20 |
| | Туре | | | | | Moto | or DC | | | |
| Motor | Power output | kW | 0,121 | 0,121 | 0,121 | 0,244 | 0,244 | 0,375 | 0,375 | 0,375 |
| Air filter | | | - | - | - | - | - | - | - | - |
| Refrigerant pipe | Gas (swaged) | mm | 12,7 | 12,7 | 15,88 | 15,88 | 15,88 | 15,88 | 15,88 | 15,88 |
| diameter | Liquid (swaged) | mm | 6,35 | 6,35 | 9,52 | 9,52 | 9,52 | 9,52 | 9,52 | 9,52 |
| Local drain pipe diameter | | | 0.D 32 |
| Sound pressure (low-medium-high)* ² | | dB(A) | 20-23-27 | 20-23-27 | 24-27-32 | 24-26-30 | 25-27-30 | 27-31-34 | 27-31-34 | 27-32-36 |

 (low-medium-high)**
 dB(A)
 20-23-27
 20-23-27

 *1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given: Cooling: 27°C DB / 19°C WB, outdoor 78°C DB / 6°C WB.

 *2 Static pressure is set to 50 Pa by default.

 *3 Measured in anechoic chamber.







INDOOR UNITS - Middle-high static pressure



CITY MULTI

Ideal for...

The new VMHS series: improved **installation flexibility** and superior performance.

DC Inverter motor

The new VMHS ducted indoor units are equipped with a single-phase DC Inverter electric motor, a solution that offers more precise electronic control and less noise.

Remotely settable static overpressure

The static overpressure may be modified from a remote control. In addition to a dip switch on the unit, the PAR-40MAA remote control may also be used to modify static external pressure, making installation significantly simpler.

A choice of up to five different settings is available: 50, 100, 150, 200 or 250 Pa.

Automatic fan speed adjustment

The automatic fan speed adjustment mode ensures fast, comfortable heating as soon as heating mode is activated. Automatic fan speed control is included in the three standard modes "Low", "Medium" and "High", and ensures faster, comfortable air conditioning by increasing the air flow speed on activation and then reducing speed once stable comfort levels are attained.

Quieter

The VMHS series is 15% quieter than the previous VMH model.



| Key Technologies | | | | | | | | | | | |
|------------------|--|-------------|---------|------|------------------|-------------------|--------------|------------|---------------------|--|--|
| Inverter | | ¢i≑O Aco | 2 2 2 × | AUTO | Drain Lift Up | Self Diagnosis | Auto Restart | Offset -4° | Low Temp Cooling | | |
| | | | | | | | | | | | |

| MODEL | | | PEFY-P200VMHS-E | PEFY-P250VMHS-E |
|---|-------------------------------|--------|-------------------|-------------------|
| Power | | | A single-phase, | 220-240V, 50Hz |
| Capacity in | | kW | 22.4 | 28.0 |
| cooling mode *1 | | Btu/h | 76,000 | 95,500 |
| Capacity in | | kW | 25.0 | 31.5 |
| heating mode*1 | | Btu/h | 72,300 | 90,400 |
| Power consumption | Cooling | kW | 0.63/0.63/0.63 | 0.82/0.82/0.82 |
| Power consumption | Heating | kW | 0.63/0.63/0.63 | 0.82/0.82/0.82 |
| Our | Cooling | A | 3.47/3.32/3.18 | 4.72/4.43/4.14 |
| Current | Heating | A | 3.47/3.32/3.18 | 4.72/4.43/4.14 |
| External finish | | | Galva | anised |
| Dimensions HxLxW | | mm | 470 x 1250 x 1120 | 470 x 1250 x 1120 |
| Net weight | | kg | 97 | 100 |
| Heat exchanger | | | Cros | s Fin |
| | Type x Quantity | | Sciroo | 200 x 2 |
| Fan | Air flow (low-medium-high) | m³/min | 50-61-72 | 58-71-84 |
| | Static external press*2 | Pa | (50)/(100)/15 | 50/(200)/(250) |
| Matan | Туре | | Single-phase in | nduction motor |
| Motor | Power output | kW | 0.87 | 0.87 |
| Air filter | | | - | - |
| Refrigerant pipe | Gas (swaged) | mm | 19.05 | 22.2 |
| diameter | Liquid (swaged) | mm | 9.52 | 9.52 |
| Local drain pipe diameter | | | 32 | 32 |
| Sound pressure (low-medium-high)* ³ | | dB(A) | 36-39-43 | 39-42-46 |

*1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given: Cooling: 27°C DB / 19°C WB, outdoor 35°C DB. Heating: 27°C DB, outdoor 7°C DB / 6°C WB.
 *2 Static pressure is set to 150 Pa by default.
 *3 Measured in anechoic chamber.







INDOOR UNITS - Ceiling-suspended



CITY MULTI

Ideal for...

Designed and built for quiet operation and simple maintenance, these units deliver efficient, comfortable air conditioning performance.

Optimised air flow

Air flow speed is optimised for the height of the ceiling. The ideal air flow setting may be selected for ceilings up to 4.2m in height, maximising both air conditioning efficacy and comfort.

Extremely simple installation

With the direct mount system, it is not necessary to remove the mounting from the main unit, cutting installation times.

The condensate drain pipes may be connected on the left or right of the unit.

Automatic fan speed adjustment

As well as the 4 manual fan speed settings, the PCFY series may also be set to automatically adjust fan speed in relation to ambient conditions: the fan speed is always set to the highest setting when the unit is switched on, to reach the desired conditions more quickly, and is reduced automatically near the setpoint for stable comfort.

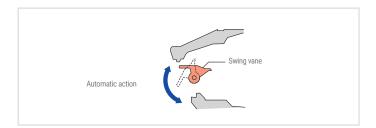
Extra slim

Extremely slim and with elegant curves, the PCFY series is perfectly suited to any interior. The unit also features a single air outlet, meaning that the automatic swing vane also doubles as a shutter when the unit is off.



Automatic swing vane

The automatic swing vane mode distributes air more uniformly. The vane swings upwards and downwards automatically to distribute air effectively into every corner of the room.





| Key Technologies | | | | | | | | | | | |
|------------------|-----------------|----------------|---------------|------------------|------------|--------|----|-------|--|--|--|
| Pure White☆ | AUTO VANE | | Ç≑Ö Aco | Fresh-sir Intake | Long life | Check! | R. | SWING | | | |
| AUTO | High Ceiling | Low Ceiling | Set Diagnosis | Auto Restart | Offset -4° | | | | | | |

| MODEL | | | PCFY-P40VKM-E | PCFY-P63VKM-E | PCFY-P100VKM-E | PCFY-P125VKM-E | | |
|------------------------------------|-------------------------------|--------|---|---------------------|-------------------------------|-----------------------------|--|--|
| | | | | | | | | |
| Power | | | | A single-phase, 220 | 0-230-240VAC 50Hz | | | |
| Capacity in | | kW | 4.5 | 7.1 | 11.2 | 14.0 | | |
| cooling mode*1 | | Btu/h | 15400 | 24200 | 38200 | 47800 | | |
| Capacity in | | kW | 5.0 | 8.0 | 12.5 | 16.0 | | |
| neating mode*1 | | Btu/h | 17100 | 27300 | 42700 | 54600 | | |
| 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 | | |
| Surrent | Heating | A | 0.28 | 0.33 | 0.65 | 0.76 | | |
| External finish | | | | Munsell 6. | 4Y 8.9/ 0.4 | с | | |
| Dimensions HxLxW | | mm | 230x960x680 | 230x1280x680 | 230x1600x680 | 230x1600x680 | | |
| Vet weight | | kg | 24 | 32 | 36 | 38 | | |
| leat exchanger | | | Cross fins (aluminium fins and copper piping) | | | | | |
| | Type x Quantity | | Sirocco x 2 | Sirocco x 3 | Sirocco x 4 | Sirocco x 4 | | |
| | | m³/min | 10-11-12-13 | 14-15-16-18 | 21-24-26-28 | 21-24-27-31 | | |
| Fan | Air flow (low-medium-high) | l/s | 167-183-200-217 | 233-250-267-300 | 350-400-433-467 | 350-400-450-517 | | |
| | (low medium nigh) | cfm | 353-388-424-459 | 494-530-565-636 | 742-847-918-989 | 742-847-953-1095 | | |
| | Static external press | Pa | 0 | 0 | 0 | 0 | | |
| Aotor | Туре | | | Single-phas | se DC motor | | | |
| VIOLOI | Power output | kW | 0.090 | 0.095 | 0.160 | 0.160 | | |
| Air filter | | | | Polypropylene honey | comb fabric (long life) | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø12.7 | ø15.88 | ø15.88 / ø19.05 (compatibile) | ø15.88 / ø19.05 (compatibil | | |
| liameter | Liquid (swaged) | mm | ø6.35 | ø9.52 | ø9.52 | ø9.52 | | |
| ocal drain pipe diameter | | | 0.D. 26 (1) | 0.D. 26 (1) | 0.D. 26 (1) | 0.D. 26 (1) | | |
| Sound pressure (low-medium-high)*2 | | dB(A) | 29-32-34-36 | 31-33-35-37 | 36-38-41-43 | 36-39-42-44 | | |

*¹ For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 Air flow/noise levels given for operation in low-medium1-medium2-high modes. *³ Measured in anechoic chamber.









New design

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 of the space. With a new white body color, it is the ideal solution for residential applications, offices and large stores.

New line-up

New exclusive P10 model is added in wall mounted lineup. P10 size allows to respond to the needs of narrow spaces conditioning them finely. In addition, miniaturization of conventional P32 model has been realized. It contributes to space saving of installation area.

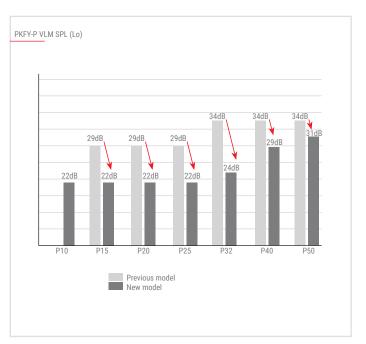
| Capacity | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P100 | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| VLM | NEW | • | • | • | • | • | • | | | |

Horizontal airflow

The vane angle can be set to five steps, including the one that allows horizontal air flow, reducing the feeling of draft. Besides, 4 steps of air speed are available.

Quietness...

The noise level has been significantly reduced compared to the conventional model by reviewing the unit structure and improving the line flow fan.





| Key Technologies | | | | | | | | | | | | |
|------------------|--------------|--|-------------|--------|--|-------|--|------|-------------------|--|--|--|
| Pure White☆ | AUTO VANE | | Çi≑O Aco | Check! | | SWING | | AUTO | Self Diagnosis | | | |
| Auto Restart | Offset -4° | | | | | | | | | | | |

| MODEL | | | PKFY- | PKFY- | PKFY- | PKFY- | PKFY- | PKFY- | PKFY- |
|---------------------------|----------------------|--------|-------------------------------|-----------------|----------------------|------------------------|---------------------|------------------|-------------------|
| MUDEL | | | P10VLM-E | P15VLM-E | P20VLM-E | P25VLM-E | P32VLM-E | P40VLM-E | P50VLM-E |
| Power | | | | | A single-phase, 220- | 240V 50Hz, A single-pl | nase, 220-230V 60Hz | | |
| Capacity in | | kW | 1.2 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| cooling mode*1 | | Btu/h | 4100 | 5800 | 7500 | 9600 | 12300 | 15400 | 19100 |
| Capacity in | | kW | 1.4 | 1.9 | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| heating mode*1 | | Btu/h | 4800 | 6500 | 8500 | 10900 | 13600 | 17100 | 21500 |
| Power consumption | ooling | kW | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 |
| He | leating | kW | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 |
| Current | ooling | A | 0.20 | 0.20 | 0.20 | 0.25 | 0.35 | 0.35 | 0.45 |
| He | leating | A | 0.15 | 0.15 | 0.15 | 0.20 | 0.30 | 0.30 | 0.40 |
| External finish | | | Plastic (0.7PB 9.2/0,4) | | | | | | |
| Dimensions HxLxW | | mm | 299 x 773 x 237 299 x 898 x 3 | | | | | | 98 x 237 |
| Net weight | | kg | 11 (25) 13 (29) | | | | | | (29) |
| Heat exchanger | | | | | Cross fin | (Aluminium fin and co | pper tube) | | |
| Ту | ype x Quantity | | | | | Line flow fan x 1 | | | |
| ۵ | ir flow *2 | m³/min | 3.3-3.5-3.8-4.2 | 4.0-4.2-4.4-4.7 | 4.0-4.4-4.9-5.4 | 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 |
| Fan | | l/s | 55-58-63-70 | 67-70-73-78 | 67-73-82-90 | 67-77-90-112 | 72-90-115-140 | 105-123-143-167 | 113-138-170-207 |
| | | cfm | 117-124-134-148 | 141-148-155-166 | 141-155-173-191 | 141-162-191-237 | 152-191-244-297 | 222-261-304-353 | 240-293-360-438 |
| St | tatic external press | Pa | | | ^ | 0 (0) | ^ | ° | |
| Motor | уре | | | | | DC motor | | | |
| Pc | ower output | kW | | | | 0.03 | | | |
| Air filter | | | PP Honeycomb | | | | | | |
| Refrigerant pipe Ga | as (swaged) | mm | n ø 12.7 (ø1/2) | | | | | | |
| diameter Lic | iquid (swaged) | mm | mm ø 6.35 (ø1/4) | | | | | | |
| Local drain pipe diameter | | | | | | I.D. 16 (5/8) | | | |
| Sound pressure *2*3 | | dB(A) | 22-24-26-28 | 22-24-26-28 | 22-26-29-31 | 22-27-31-35 | 24-31-37-41 | 29-34-37-40 | 31-36-41-46 |

** For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 Air flow/noise levels given for operation in low-medium1-medium2-high modes.
 *3 Measured in anechoic chamber.

PKFY-P VB(H)(K)M-E







PKFY-P VBM

PKFY-P VHM





Ideal for...

An elegant design with simple, clean lines, compact dimensions and a distinctly recognisable family look: the ideal solution for residential applications, offices and large stores.

Smooth front panel with pure white finish

All the models of the PKFY series now feature a smooth front panel instead of the mesh used on the previous version. The units themselves are now finished in pure white instead of standard appliance white to fit in perfectly with the style of practically any interior space.

| Capacity | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P100 |
|----------|-----|-----|-----|-----|-----|-----|-----|------|
| VBM | • | • | • | | | | | |
| VHM | | | | • | • | • | | |
| VKM | | | | | | | • | • |



| Key Technologies VHM (P32-P50) | | | | | | | | | |
|---------------------------------|--------------|------------|------------|---|--------|--|-------|-------------------|-------------------|
| Pure White | AUTO VANE | | Ç ¢⇒O | + | Check! | | SWING | | AUTO |
| Self | 4uto Restart | Offset -4° | | | | | | | |
| Key Technologies VBM (P15-P25) | | | | | | | | | |
| Pure White☆ | AUTO VANE | | ¢ ¢⇔O | | Check! | | | Self Diagnosis | Auto Restart |
| Offset -4° | | | | | | | | | |
| Key Technologies VKM (P63-P100) | | | | | | | | | |
| Pure White☆ | AUTO VANE | | Q≑O Aco | | Check! | | SWING | 2 3 | Self Diagnosis |
| Auto Restart | Offset -4° | | | | | | | | |

| Technical specifications |
|--------------------------|
|--------------------------|

| MODEL | | | PKFY-P15VBM-E | PKFY-P20VBM-E | PKFY-P25VBM-E | PKFY-P32VHM-E | PKFY-P40VHM-E | | |
|------------------------------------|-------------------------------|--------|---|-----------------|-------------------------------|---------------|---------------|--|--|
| Power | | | | A si | ingle-phase, 220-230-240VAC § | 50Hz | | | |
| Capacity in cooling mode*1 | | kW | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | | |
| | | Btu/h | 5800 | 7500 | 9600 | 15400 | 15400 | | |
| Capacity in heating mode*1 | | kW | 1.9 | 2.5 | 3.2 | 4.0 | 5.0 | | |
| | | Btu/h | 6500 | 8500 | 10900 | 13600 | 17100 | | |
| Power consumption | Cooling | kW | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | | |
| Power consumption | Heating | kW | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | | |
| 0 | Cooling | A | 0.20 | 0.20 | 0.20 | 0.40 | 0.40 | | |
| Current | Heating | A | 0.20 | 0.20 | 0.20 | 0.30 | 0.30 | | |
| External finish | | | Munsell plastic 1.0Y 9.2/0.2 | | | | | | |
| Dimensions HxLxW | | mm | 2295x815x225 | 2295x815x225 | 2295x815x225 | 295x898x249 | 295x898x249 | | |
| Net weight | | kg | 10 | 10 | 10 | 13 | 13 | | |
| Heat exchanger | | | Cross fins (aluminium fins and copper piping) | | | | | | |
| | Type x Quantity | | Linear flow fan x 1 | | | | | | |
| | Air flow (low-medium-high) | m³/min | 4.9-5.0-5.2-5.3 | 4.9-5.2-5.6-5.9 | 4.9-5.2-5.6-5.9 | 9-10-11 | 9-10.5-11.5 | | |
| Fan | | l/s | 82-83-87-88 | 82-87-93-98 | 82-87-93-98 | 150-167-183 | 150-175-192 | | |
| | | cfm | 173-177-184-187 | 173-184-198-208 | 173-184-198-208 | 318-353-388 | 318-371-406 | | |
| | Static external press | Pa | 0 | 0 | 0 | 0 | 0 | | |
| Motor | Туре | | Single-phase induction motor | | | Motor DC | | | |
| | Power output | kW | 0.017 | 0.017 | 0.017 | 0.030 | 0.030 | | |
| Air filter | | | Polypropylene honeycomb fabric (washable) | | | | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø12.7 | | |
| diameter | Liquid (swaged) | mm | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø6.35 | | |
| Local drain pipe diameter | | | I.D. 16 (5/8) | I.D. 16 (5/8) | I.D. 16 (5/8) | I.D. 16 (5/8) | I.D. 16 (5/8) | | |
| Sound pressure (low-medium-high)*2 | | dB(A) | 29-31-32-33 | 29-31-34-36 | 29-31-34-36 | 34-37-41 | 34-38-41 | | |

| MODEL | | | PKFY-P50VHM-E | PKFY-P63VKM-E | PKFY-P100VKM-E | | |
|------------------------------------|---|--------|---|-------------------------------------|----------------|--|--|
| Power | | | | A single-phase, 220-230-240VAC 50Hz | 1 | | |
| Capacity in | | kW | 5.6 | 7.1 | 11.2 | | |
| cooling mode*1 | | Btu/h | 19100 | 24200 | 38200 | | |
| Capacity in heating mode*1 | | kW | 6.3 | 8.0 | 12.5 | | |
| | | Btu/h | 21500 | 27300 | 42600 | | |
| ower consumption | Cooling | kW | 0.04 | 0.05 | 0.08 | | |
| | Heating | kW | 0.03 | 0.04 | 0.07 | | |
| Current | Cooling | A | 0.40 | 0.37 | 0.58 | | |
| Junent | Heating | A | 0.30 | 0.30 | 0.51 | | |
| External finish | | | Munsell plastic 1.0Y 9.2/0.2 | | | | |
| Dimensions HxLxW | | mm | 295x898x249 | 365x1170x295 | 365x1170x295 | | |
| let weight | | kg | 13 | 21 | 21 | | |
| leat exchanger | Cross fins (aluminium fins and copper piping) | | | | | | |
| | Type x Quantity | | Linear flow fan x 1 | | | | |
| | Air flow (low-medium-high) | m³/min | 9-10.5-12 | 16-20 | 20-26 | | |
| an | | l/s | 150-175-200 | 267-333 | 333-433 | | |
| | | cfm | 318-371-424 | 565-706 | 706-918 | | |
| | Static external press | Pa | 0 | 0 | 0 | | |
| Notor | Туре | | Motor DC | | | | |
| NOLOI | Power output | kW | 0.030 | 0.056 | 0.056 | | |
| Air filter | | | Polypropylene honeycomb fabric (washable) | | | | |
| efrigerant pipe | Gas (swaged) | mm | ø12.7 | ø15.88 | ø15.88 / 19.05 | | |
| iameter | Liquid (swaged) | mm | ø6.35 | ø9.52 | ø9.52 | | |
| ∟ocal drain pipe diameter | | | I.D. 16 (5/8) | I.D. 16 (5/8) | I.D. 16 (5/8) | | |
| Sound pressure (low-medium-high)*2 | | dB(A) | 34-39-43 | 39-45 | 41-49 | | |

*1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 Air flow/noise levels given for operation in low-medium1-medium2-high modes, in low-medium-high modes or in low-high modes, depending on model. Measured in anechoic chamber.

PAC-LV11-E

INDOOR UNITS - Wall-mounted design indoor unit LEV Kit





Ideal for...

The new LEV Kit may be used to connect both standard VRF indoor units and Residential line indoor units in the same CITY MULTI VRF system.

The new LEV Kit makes it possible to connect stylish residential indoor units, with looks that are perfectly suited for large installations in applications such as residential buildings and hotels, where design is a decisive factor in the choice of indoor units.

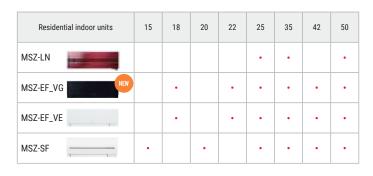
Easy installation and maintenance

The new LEV Kit is easy to install in double ceilings or dedicated niches not only because of its compact size (183 mm H x 355 mm L x 142 mm W), but also and especially because it can be installed vertically or horizontally with no condensate drain.

Additionally, a maximum permissible piping length of 15 m between indoor units and the LEV Kit offers the freedom to install the kit in the most effective position possible.

Residential indoor units

The following residential indoor units may be connected to the LEV Kit:



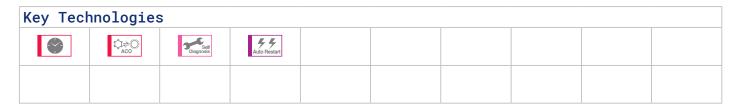
Unparalleled comfort and air quality

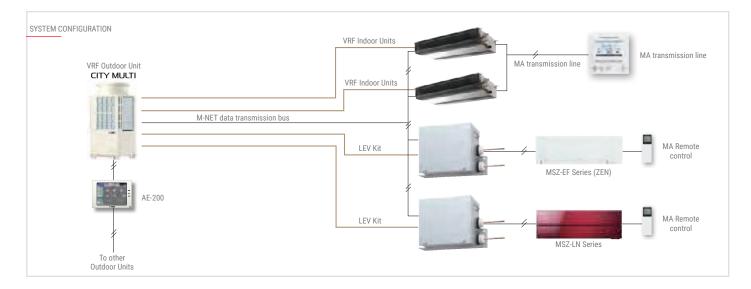
The quality of an environment also depends on perceived noise levels. Mitsubishi Electric air conditioners connected to a VRF CITY MULTI system using the LEV Kit offer the highest levels of acoustic comfort available today on the market.



The residential indoor units also contribute to higher air quality levels with the superior filtration power of air filters with nanoplatinum treatment.







| Technical specifications | | | | | | |
|--|--------|----|---|--|--|--|
| MODEL | | | PAC-LV11-E | | | |
| Power | | | A single-phase, 220-240VAC 50Hz | | | |
| Compatible Family series residential indoor units | | | MSZ-EF, MSZ-LN, MSZ-SF, MSZ-KJ | | | |
| Number of branches | | | 1 way | | | |
| Maximum distance between indoor unit and LEV Kit | | m | 15 | | | |
| Compatible CITY MULTI outdoor units | | | Small Y Line - Small Y Compact Line - Y Lines (Ecostandard/ Standard Efficiency/High Efficiency) - Y Line Zubadan (YHM) - Y Line Replace Multi (YJM), R2 Lines (Standard Efficiency/High Efficiency) - R2 Line Replace Multi (YJM), WY Line (YHM) - WR2 Line (YHM) | | | |
| Dimensions (HxLxW) | | mm | 180x355x142 | | | |
| Net weight | | kg | 3.5 | | | |
| Condensate drain | | | Not necessary | | | |
| Installation | | | Vertical Horizontal | | | |
| Refrigeration pipe | Liquid | mm | 6.35 (brazed) | | | |
| diameter | Gas | mm | | | | |
| Compatible remote controls | | | Standard: Remote control included with optional residential indoor units (purchased separately): 1. MA wired remote control interfaced via MAC-3971F board (optional, for installation in indoor units - purchased separately). 2. ME wired remote control, interfaced via LEV Kit terminal board. | | | |



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PAC-LV11-E

INDOOR UNITS - Floor standing design LEV Kit





Ideal for...

The new LEV Kit may be used to connect both standard VRF indoor units and Residential line indoor units in the same VRF CITY MULTI system.

Easy installation and maintenance

The new LEV Kit is easy to install in double ceilings or dedicated niches not only because of its compact size (183 mm H x 355 mm L x 142 mm W), but also and especially because it can be installed vertically or horizontally with no condensate drain. Additionally, a maximum permissible piping length of 15 m between indoor units and the LEV Kit offers the freedom to install the kit in the most effective position possible.

Unparalleled comfort and air quality

The quality of an environment also depends on perceived noise levels. Mitsubishi Electric air conditioners connected to a VRF CITY MULTI system using the LEV Kit offer the highest levels of acoustic comfort available today on the market.

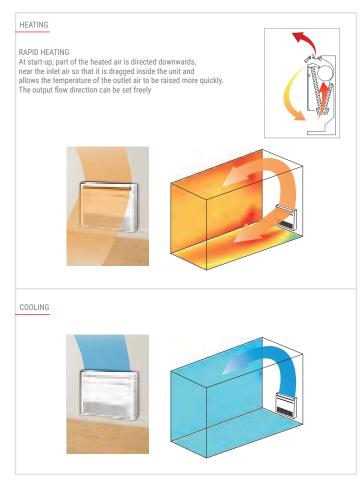
Residential indoor units

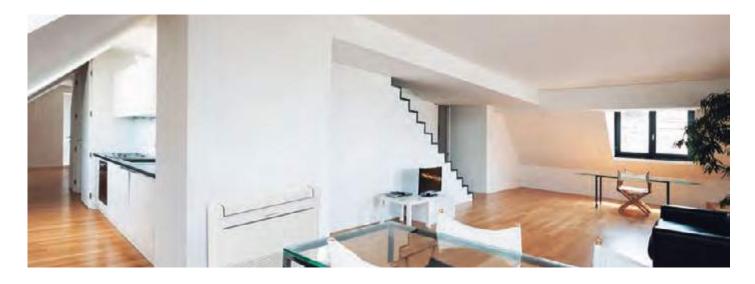
The following variants of the MFZ-KJ floor-standing residential indoor units may now be connected with the LEV Kit:

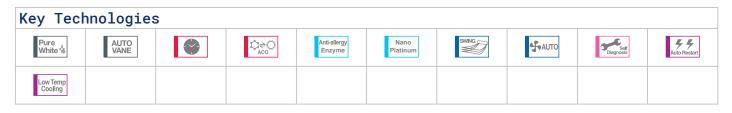
| Residential indoor units | 25 | 35 | 50 |
|--------------------------|----|----|----|
| MFZ-KJ | • | • | • |

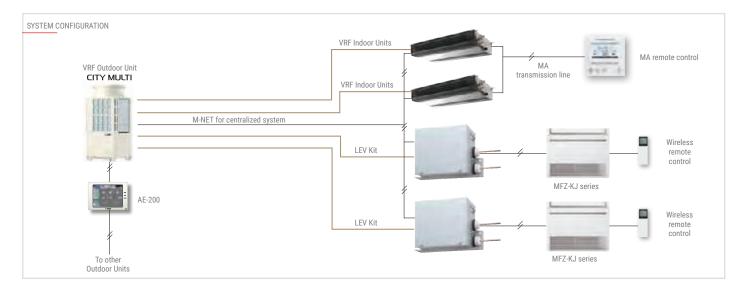
Multi-flow vane

The air delivery vent has three deflector vanes, each with a specifically designed profile to optimise the outgoing air flow and maximise comfort in both cooling and heating mode.









| Technical spe | cificatio | ons | |
|--|-----------|-----|--|
| MODEL | | | PAC-LV11-E |
| Power | | | A single-phase, 220-240VAC 50Hz |
| Compatible Family series residential indoor units | | | MFZ-KJ |
| Number of branches | | | 1 way |
| Maximum distance between indoor unit and LEV Kit | | m | 15 |
| Compatible CITY MULTI outdoor units | | | Small Y Line - Small Y Compact Line - Y Lines (Ecostandard/ Standard Efficiency/High Efficiency) - Y Line Zubadan (YHM) - Y Line Replace Multi (YJM), R2 Lines (Standard Efficiency/High Efficiency) - R2 Line Replace Multi (YJM), WY Line (YHM) - WR2 Line (YHM) |
| Dimensions (HxLxW) | | mm | 180x355x142 |
| Net weight | | kg | 3.5 |
| Condensate drain | | · | Not necessary |
| Installation | | | Vertical Horizontal |
| Refrigeration pipe | Liquid | mm | 6.35 (brazed) |
| diameter | Gas | mm | |
| Compatible remote controls | | | Standard: Remote control included with optional residential indoor units (purchased separately): 1. MA wired remote control interfaced via MAC-397IF board (optional, for installation in indoor units - purchased separately). 2. ME wired remote control, interfaced via LEV Kit terminal board. |







INDOOR UNITS - Design floor-standing unit



CITY MULTI

Ideal for...

A high performance floor-standing air conditioner unit with an **elegant design** for lounges, bedrooms or offices where style is imperative.

Sophisticated design

A floor-standing air conditioner unit by Mitsubishi Electric boasting an innovative design and combining simple, linear lines with a wide choice of functions. Conceived to leave the walls free, a unit that delivers comfortable cooling performance in summer and pleasant heat in winter. The gloss pure white finish lends the unit a premium look suitable for any interior space. Both the upper and lower air vents are closed when the air conditioner is switched off, giving the unit an elegantly stylish feel. A beautifully stylish and innovative air conditioner from Mitsubishi that suits your most elegant interior spaces to perfection.

Slim but powerful

The slimline housing of the unit expresses the essence of compactness. The ideal size for a lounge, bedroom and many other rooms. The front panel is removable and washable, making the unit extremely simple to clean. Cleaning your air conditioner simply and regularly will keep it looking great and working perfectly for maximum energy efficiency.

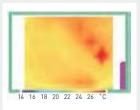
Toomm 200

Ideal air distribution

Air is distributed powerfully and effectively via the upper and lower air vents, ensuring a comfortable temperature throughout the room. The angle of the upper vent is settable into 5 different positions (+ swing and automatic modes) from a remote control, while 4 different air speed settings are available. Setting the vane to an almost vertical position prevents undesirable draughts, for even greater comfort.



The air delivered from the upper and lower vents is controlled for optimum comfort and distributed evenly into every corner of the room. In heating mode, the warm air flow is controlled intelligently to reach floor level, making cold feet a thing of the past!





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| Key Tech | Key Technologies | | | | | | | | | |
|----------------|------------------|--|------------|----------|--------|--|-------|--|------|--|
| Pure White☆ | AUTO VANE | | ¢≓O Aco | Catechin | Check! | | SWING | | Self | |
| Auto Restart | | | | | | | | | | |

Technical specifications

| MODEL | | | PFFY-P20VKM-E | PFFY-P25VKM-E | PFFY-P32VKM-E | PFFY-P40VKM-E | | | |
|--|--|--------|-------------------------------|------------------------|-----------------------------|------------------|--|--|--|
| Power | | | A single-phase, 220-240V 50Hz | | | | | | |
| Capacity in | | kW | 2.2 | 2.8 | 3.6 | 4.5 | | | |
| cooling mode*1 | | Btu/h | 7500 | 9600 | 12300 | 15400 | | | |
| Capacity in | | kW | 2.5 | 3.2 | 4.0 | 5.0 | | | |
| heating mode*1 | | Btu/h | 8500 | 10900 | 13600 | 17100 | | | |
| Power consumption | Cooling | kW | 0.025 | 0.025 | 0.025 | 0.028 | | | |
| Power consumption | Heating | kW | 0.025 | 0.025 | 0.025 | 0.028 | | | |
| Current | Cooling | A | 0.20 | 0.20 | 0.20 | 0.24 | | | |
| Guneni | Heating | A | 0.20 | 0.20 | 0.20 | 0.24 | | | |
| External finish | | | Plastic (pure white) | | | | | | |
| Dimensions HxLxW | | mm | 600x700x200 | 600x700x200 | 600x700x200 | 600x700x200 | | | |
| Net weight | | kg | 15 | 15 | 15 | 15 | | | |
| Heat exchanger | | | | Cross fins (aluminium | fins and copper piping) | | | | |
| | Type x Quantity | | Linear flow fan x 2 | | | | | | |
| Fan | Air flow (low-me- dium-high-extra high) | m³/min | 5.9-6.8-7.6-8.7 | 6.1-7.0-8.0-9.1 | 6.1-7.0-8.0-9.1 | 8.0-9.0-9.5-10.7 | | | |
| | Static external pres. | Pa | 0 | 0 | 0 | 0 | | | |
| | Туре | | | DC n | notor | , | | | |
| Motor | Power output | kW | 0.03x2 | 0.03x2 | 0.03x2 | 0.03x2 | | | |
| Air filter | | | | Polypropylene honeycon | nb fabric (catechin filter) | | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø12.7 | ø12.7 | ø12.7 | ø12.7 | | | |
| diameter | Liquid (swaged) | mm | ø6.35 | ø6.35 | ø6.35 | ø6.35 | | | |
| Local drain pipe diameter | | | | D.I. 16 (PVC pipe co | nnectable to VP-16) | | | | |
| Sound pressure (low-medium- high)* ² | | dB(A) | 27-31-34-37 | 28-32-35-38 | 28-32-35-38 | 35-38-42-44 | | | |

*1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 Measured in anechoic chamber.





INDOOR UNITS - Floor standing unit





Ideal for...

A free floor standing **unit ideal for perimeter zones**. A compact unit for easy conditioning even in the perimeter area. The 220mm deep body (8-11 / 16in.)

Can be easily installed in the perimeter area to achieve effective conditioning in this area as well.

Compact unit

A compact unit offering a simple solution for conditioning perimeter zones. The compact unit, measuring just 220 mm in depth (8-11/16"), is easily installable in perimeter areas to ensure effective conditioning performance in these zones too.

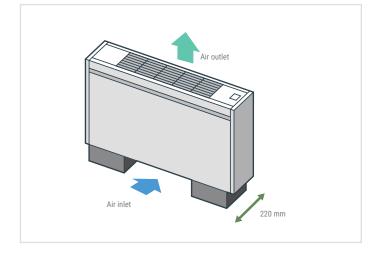
Cooling dehumidification function

The electronic dehumidifier function uses cooling to dehumidify the air. The compact unit, measuring just 220 mm in depth, is easily installable in perimeter areas to ensure effective conditioning performance in these zones too.

Characteristics of PFFY-P VLEM-E

- Standardised design with simple lines.
- Suitable for all spaces, from offices and shops to hospitals.
- May be equipped with a water vapour impermeable membrane humidifier system.
- Features a specific concealed housing for stowing a remote control unit out of sight.





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| Key Technologies | | | | | | | | | | |
|------------------|-----------|--|--------|--|--|-------------------|--------------|---------------------|--|--|
| | ¢. Aco | | Check! | | | Setf Diagnosis | Auto Restart | Low Temp Cooling | | |
| | | | | | | | | | | |

Technical specifications

| MODEL | | | PFFY- P20VLEM-E | PFFY- P25VLEM-E | PFFY- P32VLEM-E | PFFY- P40VLEM-E | PFFY- P50VLEM-E | PFFY- P63VLEM-E | |
|--------------------------|-----------------------|---|---|--------------------|---|-----------------------------|--------------------|--------------------|--|
| Power | | | A single-phase, 220-240V, 50Hz / a single-phase, 208-230V, 60Hz | | | | | | |
| Capacity in | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | |
| cooling mode*1 | | Btu/h | 7500 | 9600 | 12300 | 15400 | 19100 | 24200 | |
| Capacity in | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | |
| heating mode*1 | | Btu/h | 8500 | 10900 | 13600 | 17100 | 21500 | 27300 | |
| Power consumption | Cooling | kW | 0.04 / 0.06 | 0.04 / 0.06 | 0.06 / 0.07 | 0.065 / 0.075 | 0.085 / 0.09 | 0.1 / 0.11 | |
| ower consumption | Heating | kW | 0.04 / 0.06 | 0.04 / 0.06 | 0.06 / 0.07 | 0.065 / 0.075 | 0.085 / 0.09 | 0.1 / 0.11 | |
| D | Cooling | A | 0.19 / 0.25 | 0.19 / 0.25 | 0.29 / 0.30 | 0.32 / 0.33 | 0.40 / 0.41 | 0.46 / 0.47 | |
| Current | Heating | A | 0.19 / 0.25 | 0.19 / 0.25 | 0.29 / 0.30 | 0.32 / 0.33 | 0.40 / 0.41 | 0.46 / 0.47 | |
| External finish | | Acrylic paint (5Y 8/1) | | | | | | | |
| Dimensions HxLxW | | mm | 630x1050x220 | 630x1050x220 | 630x1170x220 | 630x1170x220 | 630x1410x220 | 630x1410x220 | |
| Vet weight | | kg | 23 | 23 | 25 | 26 | 30 | 32 | |
| leat exchanger | | Cross fins (aluminium fins and copper piping) | | | | | | | |
| | Type x Quantity | | Scirocco x 1 | Scirocco x 1 | Scirocco x 1 | Scirocco x 2 | Scirocco x 2 | Scirocco x 2 | |
| | | m³/min | 5.5-6.5 | 5.5-6.5 | 7.0-9.0 | 9.0-11.0 | 12.0-14.0 | 12.0-15.5 | |
| an | Air flow | l/s | 92-108 | 92-108 | 117-150 | 150-183 | 200-233 | 200-258 | |
| | | cfm | 194-230 | 194-230 | 247-318 | 318-388 | 424-494 | 424-547 | |
| | Static external pres. | Pa | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Туре | | | | Single-phase ir | nduction motor | | | |
| Motor | Power output | kW | 0.015 | 0.015 | 0.018 | 0.030 | 0.035 | 0.050 | |
| Air filter | | | | | Polypropylene honeyc | omb fabric (washable) | | | |
| Refrigerant pipe | Gas (swaged) | mm | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø15.88 | |
| liameter | Liquid (swaged) | mm | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø9.52 | |
| ocal drain pipe diameter | | | | D | I. 26 (1) <accessory (<="" pipe="" td=""><td>D.D. 27 (upper end: O.D. 20</td><td>))></td><td></td></accessory> | D.D. 27 (upper end: O.D. 20 |))> | | |
| Sound pressure*2*3*4 | | dB(A) | 34-40 | 34-40 | 35-40 | 38 | -43 | 40-46 | |

**1 For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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.
 **2 Air flow/noise levels given for operation in low-high modes.
 **4 Measurement point: 1m x 1m, Power: 240V AC/50Hz: 1dB(A) less with 230V AC/50Hz. 2dB(A) less with 230V AC/50Hz. 3dB(A) less with measurement point at 1.5 m x 1.5 m.
 **4 Measured in anechoic chamber.







INDOOR UNITS - Floor standing concealed



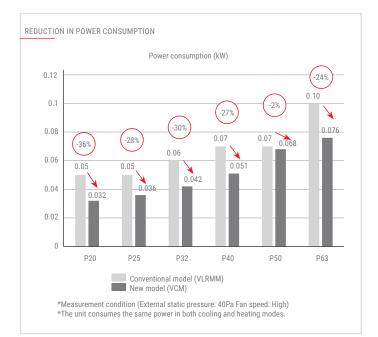
CITY MULTI

Ideal for...

Built-in floor units: simplified installation for effective air **conditioning performance**.

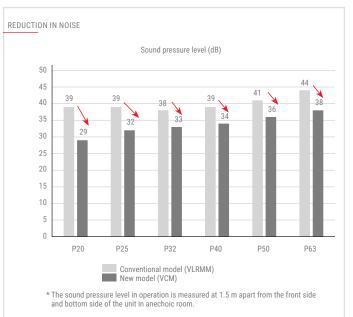
Flexible air-flow and external static pressure setting

The VCM series may be configured with a choice of four different static external pressure settings: 0, 10, 40 and 60 Pa. Besides airflow rate can be selected from 3 patterns (Low-Mid-High).



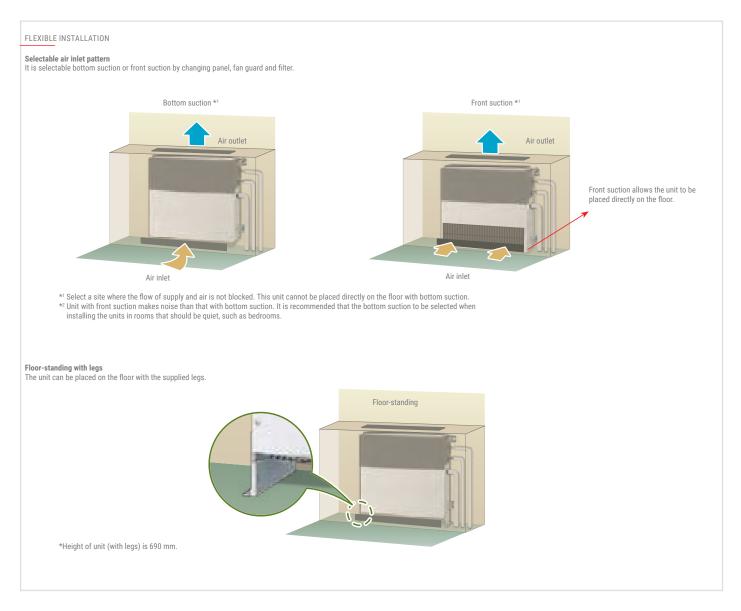
Reduced power consumption and noise

New structure realizes smoother airflow to reduce pressure loss in air pathway. The combination of an improved air pathway structure and components contributes to reduce power consumption and operation noise.











Technical specifications

| MODEL | | | PFFY- P20VCM-E | PFFY- P25VCM-E | PFFY- P32VCM-E | PFFY- P40VCM-E | PFFY- P50VCM-E | PFFY- P63VCM-E | | |
|--------------------------|-----------------------|------------------------|------------------------|------------------------|---------------------------|----------------------------|------------------------|-----------------------|--|--|
| Power | | | | A sing | e-phase, 220-240V, 50Hz , | / a single-phase, 208-230' | V, 60Hz | I | | |
| Capacity in | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | |
| cooling mode*1 | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | | |
| Capacity in | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | | |
| heating mode*1 | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | | |
| Power consumption*2 | Cooling | kW | 0.022 | 0.026 | 0.031 | 0.038 | 0.052 | 0.058 | | |
| | Heating | kW | 0.022 | 0.026 | 0.031 | 0.038 | 0.052 | 0.058 | | |
| 0 | Cooling | A | 0.25 | 0.30 | 0.34 | 0.38 | 0.50 | 0.49 | | |
| Current*2 | Heating | A | 0.25 | 0.30 | 0.34 | 0.38 | 0.50 | 0.49 | | |
| External finish | | Galvanized steel plate | | | | | | | | |
| Dimensions HxLxW*3 | | mm | 615(690)x700x200 | 615(690)x700x200 | 615(690)x700x200 | 615(690)x900x200 | 615(690)x900x200 | 615(690)x1,100x20 | | |
| Net weight | | kg | 18 | 18 | 18.5 | 22.5 | 22.5 | 25.5 | | |
| Heat exchanger | | | | · | Cross fin (aluminium | fin and copper piping) | | | | |
| | Type x Quantity | Type x Quantity | | Sirocco x 2 | Sirocco x 2 | Sirocco x 3 | Sirocco x 3 | Sirocco x 4 | | |
| | | | (Low-Mid-High) | | | | | | | |
| - | N: 0 | m³/min | 5.5-6.0-7.0 | 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 | | |
| Fan | Air flow | 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 | | |
| | Static external pres. | Pa | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60> | <0> - 10 - <40> - <60 | | |
| | Туре | | | | DC n | notor | 1 | | | |
| Motor | Power output | kW | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | | |
| Air filter | | | | | Polypropylene honeyc | omb fabric (washable) | 1 | | | |
| Refrigerant pipe | Gas (brazed) | mm | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø12.7 | ø15.88 | | |
| diameter | Liquid (brazed) | mm | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø6.35 | ø9.52 | | |
| Field drainpipe diameter | | | | | 0.D. 32 | (1-1/4) | | | | |
| Sound pressure*2 | | dB(A) | 21-23-26 | 22-25-29 | 23-26-30 | 25-27-30 | 28-31-34 | 28-32-35 | | |

*¹ For heating/cooling capacity, the maximum value with the unit operating in the following conditions is given. 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 The values are measured at the factory setting of external static pressure (10 Pa). *³ The values in () show the height of unit with leg.



HVRF System Hybrid heat recovery system

HVRF System

HYBRID HEAT RECOVERY SYSTEM

Key Technologies

HYBRID HEAT RECOVERY SYSTEM

Hybrid Branch Controller (HBC)

THE HEART OF HYBRID VRF

System architecture

HYBRID HEAT RECOVERY SYSTEM

System application and components

150

| R2 LINE Heat recovery outdoor unit | 152 |
|--|-----|
| R2 HIGH EFFICIENCY LINE Heat recovery outdoor unit | 153 |
| WR2 LINE Water condensed heat recovery outdoor unit | 154 |
| MAIN HBC CONTROLLER | 156 |
| SUB HBC CONTROLLER | 156 |
| PEFY-WP-VMS1-E Ceiling concealed medium to low static pressure | 157 |
| PEFY-WP-VMA-E Ceiling concealed medium to high static pressure | 157 |
| PLFY-WP-VBM-E 4-way cassette | 158 |
| PLFY-WP-VFM-E 4-way cassette compact | 158 |
| PFFY-WP-VLRMM-E Floor standing concealed | 159 |
| | |

148

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Piping restrictions

HYBRID HEAT RECOVERY SYSTEM

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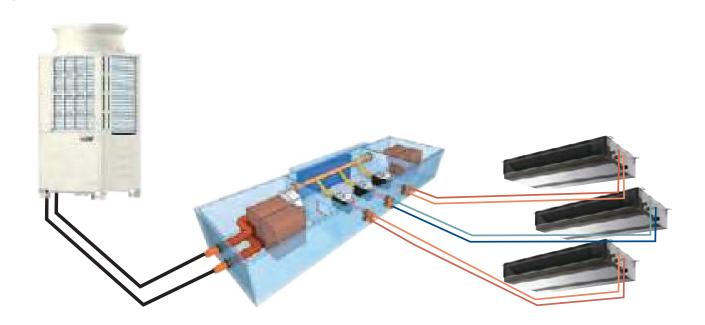




Hybrid heat recovery system



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WHAT'S HYBRID VRF?
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HYBRID City Multi

Mitsubishi Electric technologic innovation

HYBRID City Multi is the first and only R2 derived system capable of granting high air confort together with the benefits of direct expansion variable refrigerant flow technology.

Why HYBRID VRF?

HVRF is an heat recovery system

(simultaneous heating and cooling) joining the Mitsubishi Electric City Multi family using, for the first time, water to transport heating and cooling power to the environment. Built and assembled in the same factory as our VRF units thereby carrying its distinctive DNA in terms of technology, efficiency and reliability.



Hybrid BC controller Simultaneous heating/cooling with heat

recovery

Our new Hybrid City Multi (HVRF) is the first ever two pipe system combining the benefits of direct expansion with the typical confort granted by hydronic systems. The technology is based on the heat recovery City Multi R2 by Mitsubishi Electric. It is composed by an outdoor unit R2 series and the new Hybrid Branch Controller (HBC), which allows to use refrigerant gas and water as heat carriers, together with indoor units suitably designed for hydronic use.

Lower R410 gas concentration inside the building



The use of hydronic distribution allows to overcome the limits on indoor gas concentration imposed by current strict 'regularory system

(UNI EN 378). This is possible thanks to the use of refrigerant gas only in the part of the plant

which develops from the outdoor unit to the HBC. Using water fed indoor units it is possible to reduce the refrigerant load of the system up to 45% compared to a traditional VRF system.

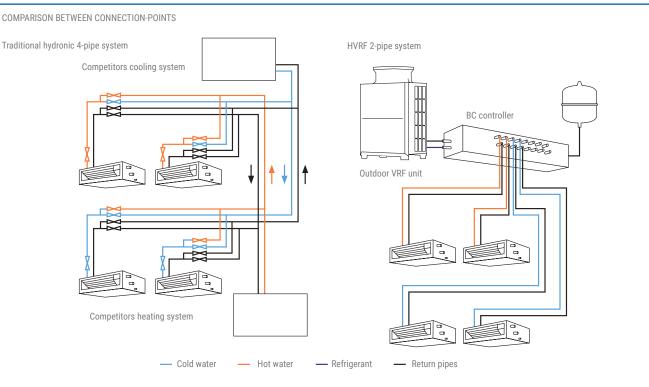
Two pipe system

Traditional hydronic systems use 4 pipes in order to produce simultaneous heating and cooling.



Mitsubishi Electric HVRF is a 2 pipe system instead, reducing components needed (pumps, tanks, valves) and connection-points between pipes and units, thus lowering the risk of

refrigerant loss and the need of maintenance.







Hybrid heat recovery system

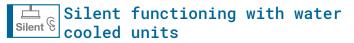


Thanks to Hybrid City Multi technology it is possibile to design systems with typical VRF simplicity and higher confort thanks to the use of water as heat carrier. Mitsubishi Electric water-fed indoor units grant a really stable temperature control, with higher Sensible Heat Factor (SHF) than traditional direct expansion systems.

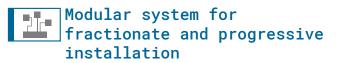


Reduced defrost and transitory time

Using water as heat carrier also gives an additional advantage during heating periods, reducing defrost time. Thanks to water thermal inertia it is possible to resume releasing heat to the environment just after a defrost cycle, minimizing the system turn-off periods.



Indoor units of the Hybrid City Multi are equipped with waterfed heat exchangers. The lack of LEV valve in the units grants a very silet functioning regime, particularly suited for "sensible" environments such as libraries, schools, bedrooms.



Hybrid City Multy system is particularly suited for designs which require partial installation or applications catatterized by fractionated realization schedule. This often occurs in real-estate of commercial/residential buildings intended for different type of users, which are often sold/realized separately.



Pump regulation based of required load

Hybrid City Multi gathers all needed regulation and distribution functions typical of traditional hydronic systems. Thanks to two inverter circulation pumps the HVRF is able to regulate the water flow fed to the indoor units based on the heat load required.

POWER

M-NET M-NET control system

As part of the City Multi family, the Hybrid VRF is compatible with VRF control and comunication system M-Net. This allows the HVRF to benefit from M-NET Power, which grants the system to be able to work regularly even during electric blackout of one or more indoor units. This is particularly useful and effective in plants shared between different users.

Integrated valves, pumps, heat exchangers and control system

The innovative Hybrid Branch Controller is the first to use refrigerant gas and water as heat carriers thanks to special plate heat exchangers. All the needed components for regulation and distribution of water are already installed inside the unit. Two separate heat exchangers give the possibility of producing hot and cold water simultaneously. Thanks to supply and return flow headers, regulation valves and two inverter pumps the controller is able to andle, without any external support, hydronic distribution based on series of complex data collected form the system itself.

Accessories and safety \bigcirc features

During HVRF installation the following features are needed:

- Copper or multilayer pipes, 20mm diameter
- Expantion tank linked to the HBC
- Water feeding line with non-return valve, isolation valve, strainer, pressure reducer
- Condensate extraction line
- Electric power line 220V



Hybrid Branch <u>Co</u>ntroller (HBC)

The heart of Hybrid VRF

Plate heat exchangers This is the component where the refrigerant gas is

This is the component where the refrigerant gas is able to yield/absorb heat from the water line.

Two plate heat exchangers are installed, located at the ends of the HBC. Both can produce hot water during heating mode and cold water during cooling mode.

During "simultaneous mode" one of the heat exchangers produces hot water while the other one cold water.

WATER SUPPLY AND RETURN FROM INDOOR UNITS, 8 OR 16 JUNCTIONS

REFRIGERANT PIPES TO OUTDOOR UNIT, EXPANTION VESSEL (FIELD SUPPLIED) AND WATER FEEDING LINE (FIELD SUPPLIED)



Pumps

Both plate heat exchangers are equipped with inverter DC pumps.

The pumps allow circulation of water between HBC and the indoor units. The flow rate is controlled by a valves block.

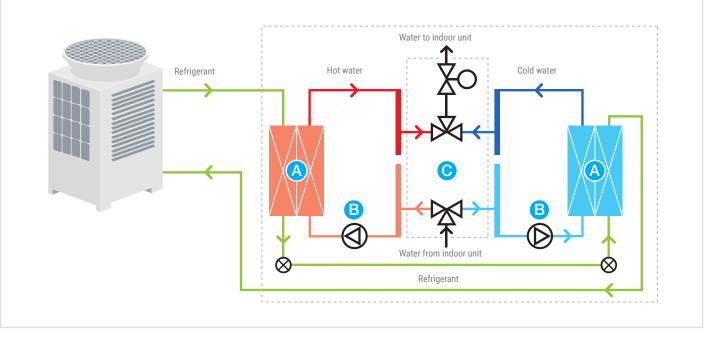


A set of valves is connected to supply and return pipes of each indoor unit.

This valves block has two tasks: firstly it selects the hot or cold water header and then it regulates the flow fed to the indoor units based on the thermal power required.

CONNECTION TO SUB HBC

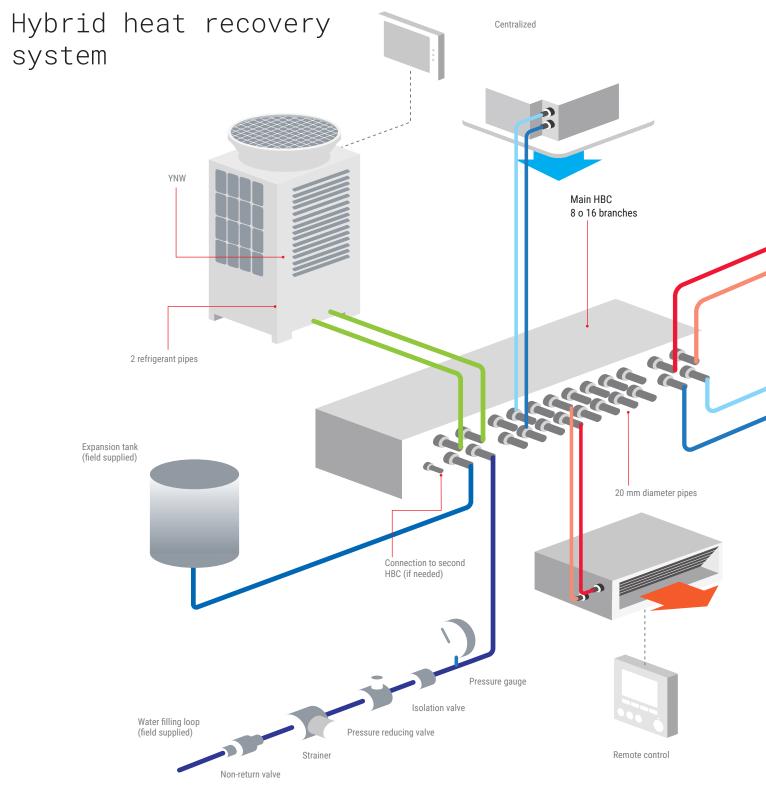


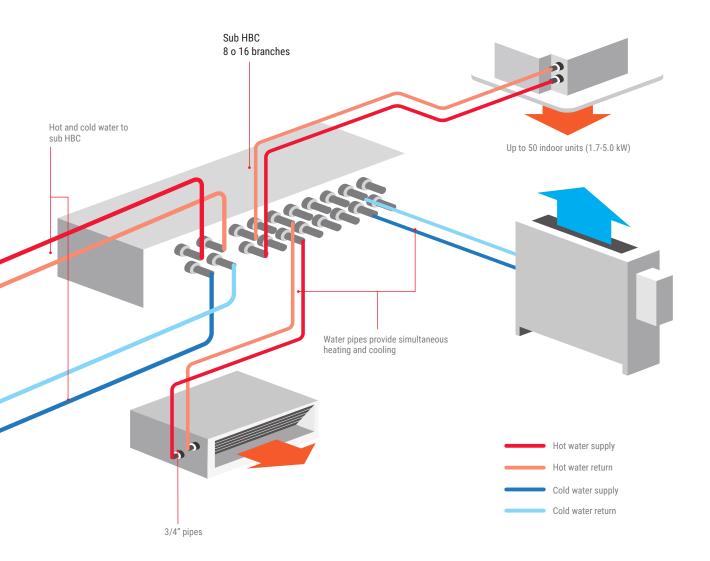






architecture





| Outdoor unit PURY/PQRY | FIRST MAIN HBC | FIRST SUB HBC | SECOND MAIN HBC | SECOND SUB HBC |
|---------------------------|-------------------|------------------|--------------------|-------------------|
| P200 | • | •* | Х | Х |
| P250 | • | •* | Х | Х |
| P300 | • | •* | •* | •* |
| P350 | • | •* | •* | •* |
| P400 | • | •* | • | •* |
| P450 | • | •* | • | •* |
| P500 | • | •* | • | •* |

*Optional



System application and components

Hybrid heat recovery system

Ideal for...

Hybrid City Multi system has been developed to fit high standards of efficiency and confort in modern building architecture (office, hotel, hospitals...)

Office

Modern office building industry offers the challenge of being able to combine high efficiency systems, respectful of today strict energy law, and sundry thermal loads deriving from PCs, printers, servers and people, requiring heating, cooling and air treatment. Hybrid City Multi is able to satisfy all these needs, granting a modern solution for an excelent work environment.

Hotel

High confort and reliability are a priority in hotel business applications. Thanks to water fed indoor units, supply air temperature to the environment is particulary mild, granting higher confort. By means of a remote control the guest is able to chose either heating or cooling indipendently from other guests' choice.

The use of water also makes for an easier design, avoiding gas concentation limits even in small environments.



Outdoor units

Outdoor units for HVRF Hybrid CITY MULTI are air condensed R2 (YNW) and water condensed WR2 (YLM), same as for traditional VRF CITY MULTI.

| Capacity | 8 HP | 10 HP | 12 HP | 14 HP | 16 HP | 18 HP | 20 HP |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| R2 | PURY- |
| | P200YNW-A | P250YNW-A | P300YNW-A | P350YNW-A | P400YNW-A | P450YNW-A | P500YNW-A |
| R2 High Eff. | PURY- |
| | EP200YNW-A | EP250YNW-A | EP300YNW-A | EP350YNW-A | EP400YNW-A | EP450YNW-A | EP500YNW-A |
| WR2 | PQRY- |
| | P200YLM-A(1) | P250YLM-A(1) | P300YLM-A(1) | P350YLM-A(1) | P400YLM-A(1) | P450YLM-A(1) | P500YLM-A(1) |



A Shannan

CMB-W(P)(M)1016V-(GA1)(AA)

HBC Distributor

The HBC distributor links the outdoor to the indoor units and allows heat exchange between water and refrigerant. Energy efficient inverter pumps already installed in the component can push water flow up to 60m away to the last indoor unit.

| Model | CMB-W(P)(M)108V-(GA1)(AA) | CMB-W(P)(M)108V-(GB1)(AB) | CMB-W(P)(M)1016V-(GA1)(AA) | CMB-W(P)(M)1016V-(GB1)(AB) |
|----------|---------------------------|---|----------------------------|--|
| Branches | 8 | 8 (sub) (without pumps and heat exchangers) | 16 | 16 (sub) (without pumps and heat exchangers) |

Indoor Units

Indoor units are specifically designed for HYBRID City Multi.









PLFY-WP VFM-E1



PFFY-WP-VLRMM-E

| PEFY-WP-VMS1-E | |
|----------------|--|
|----------------|--|

PEFY-WP-VMA-E

PLFY-WP-VBM-E

| Model/size | WP10 | WP15 | WP20 | WP25 | WP32 | WP40 | WP50 | WP63 | WP71 | WP80 | WP100 | WP12 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| PEFY-WP VMS1-E | • | • | • | • | • | • | • | | | | | |
| PEFY-WP VMA-E | | | • | • | • | • | • | • | • | • | • | • |
| PLFY-WP VBM-E | | | | | • | • | • | | | | | |
| PFFY-WP VLRMM-E | | | • | • | • | • | • | | | | | |
| PLFY-WP VFM-E | • | • | • | • | • | | | | | | | |
| Capacity | 1.2 kW | 1.7 kW | 2.2 kW | 2.8 kW | 3.6 kW | 4.5 kW | 5.6 kW | 7.1 kW | 8.0 kW | 9.0 kW | 11.2 kW | 14.0 kV |

Control Systems

Mitsubishi Electric M-Net Bus allows a continous data exchange between all system components, in order to reach a optimal functioning regime.













Web Server Centralized



AE-200E

Cloud Remote Management System

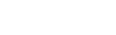






PAR-U02MEDA-J

PAR-CT01MAA-PB





R2 Line HEAT RECOVERY OUTDOOR UNIT





Technical specifications

| MODEL | | | | PURY-P200YNW-A (-BS) | PURY-P250YNW-A (-BS) | PURY-P300YNW-A (-BS) | PURY-P300YNW-A (-BS) X2 HBC | PURY-P350YNW-A (-BS) | PURY-P350YNW-A (-BS) X2 HBC | | | |
|-----------------------------|--|----------------------------|---------|---------------------------|-------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|--|--|--|
| HP | | | | 8 | 10 | 12 | 12 | 14 | 14 | | | |
| Power Supply | Tensione/Freq./Phases V/Hz/n° | | | 3 phase 380-400-415V 50Hz | | | | | | | | |
| | Nominal capacit | y*1 | kW | 22.4 | 28.0 | 33.5 | 33.5 | 40.0 | 40.0 | | | |
| | Power input eER Outdoor unit System*1 Temperature Indoor BU | | kW | 7.00 | 9.92 | 13.34 | 11.31 | 17.93 | 14.59 | | | |
| o | | | t | 5.05 | 4.69 | 4.44 | 4.44 | 3.98 | 3.98 | | | |
| Cooling | | | | 3.20 | 2.82 | 2.51 | 2.96 | 2.23 | 2.74 | | | |
| | | | °C | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | | | |
| | operating fields Outdoor BS | | °C | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | | | |
| | Nominal capacity*2 kW | | kW | 25.0 | 31.5 | 37.5 | 37.5 | 45.0 | 45.0 | | | |
| | Power input k | | | 7.08 | 10.06 | 12.71 | 11.94 | 15.51 | 14.35 | | | |
| | 000 | COP Outdoor unit System | | 5.30 | 5.19 | 4.47 | 4.47 | 4.21 | 4.21 | | | |
| Heating | CUP | | | 3.53 | 3.13 | 2.95 | 3.14 | 2.90 | 3.13 | | | |
| | Temperature | Indoor BU | °C | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | | | |
| | operating fields | Outdoor BS | °C | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | | | |
| Sound pressure*3 | | | dB(A) | 59.0/59.0 | 60.5/61.0 | 61.0/67.0 | 61.0/67.0 | 62.5/64.0 | 62.5/64.0 | | | |
| Connectable int. units. | Model/Quantity | | | WP10~WP125/1~30 | WP10~WP125/1~37 | WP10~WP125/2~45 | WP10~WP125/2~45 | WP10~WP125/2~50 | WP10~WP125/2~50 | | | |
| Ø refrigerant pipe | Liquid/Gas | | mm | 15.88/19.05 | 19.05/22.2 | 19.05/22.2 | 19.05/22.2 | 19.05/28.58 | 19.05/28.58 | | | |
| External dimensions (HxLxD) | | | mm | 1858 x 920 x 740 | 1858 x 920 x 740 | 1858 x 920 x 740 | 1858 x 920 x 740 | 1858 x 1240 x 740 | 1858 x 1240 x 740 | | | |
| Net weight | | | kg | 229 | 229 | 231 | 231 | 273 | 273 | | | |
| Refr. charge R410A/CO, Eq | | | kg/Tons | 5.2/10.86 | 5.2/10.86 | 5.2/10.86 | 5.2/10.86 | 8/16.70 | 8/16.70 | | | |

Technical specifications

| MODEL | | | | PURY-P400YNW-A (-BS) | PURY-P450YNW-A (-BS) | PURY-P500YNW-A (-BS) | | | |
|---------------------------------------|------------------|-----------------------------|---------|---------------------------|----------------------|----------------------|--|--|--|
| HP | | | | 16 | 18 | 20 | | | |
| Power Supply | Tensione/Freq./l | Fasi | V/Hz/n° | 3 phase 380-400-415V 50Hz | | | | | |
| | Nominal capacit | y*1 | kW | 45 | 50.0 | 56.0 | | | |
| | Power input | | kW | 16.65 | 17.92 | 22.67 | | | |
| Cooling | EER | Outdoor uni | t | 3.88 | 4.04 | 4.40 | | | |
| Cooling | EEK | System*1 | | 2.70 | 2.79 | 2.47 | | | |
| | Temperature | Indoor BU | °C | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | | | |
| | operating fields | operating fields Outdoor BS | | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | | | |
| | Nominal capacit | у* ² | kW | 45.0 | 56.0 | 58.0 | | | |
| | Power input | Power input | | 13.39 | 17.39 | 17.53 | | | |
| Heating | COP | Outdoor uni | t | 3.66 | 4.15 | 4.12 | | | |
| Heating | LUP | System | | 3.36 | 3.22 | 3.30 | | | |
| | Temperature | Indoor BU | °C | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | | | |
| | operating fields | Outdoor BS | °C | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | | | |
| Sound pressure*3 | | | dB(A) | 65.0/69.0 | 65.5/70.0 | 63.5/64.5 | | | |
| Connectable int. units. | Model/Quantity | | | WP10~WP125/2~50 | WP10~WP125/2~50 | WP10~WP125/2~50 | | | |
| Ø refrigerant pipe | Liquid/Gas | | mm | 22.2/28.58 | 22.2/28.58 | 22.2/28.58 | | | |
| External dimensions (HxLxD) | | | mm | 1858 x 1240 x 740 | 1858 x 1240 x 740 | 1858 x 1750 x 740 | | | |
| Net weight | | | kg | 273 | 293 | 337 | | | |
| Refr. charge R410A/CO ₂ Eq | | kg/Tons | | 8/16.70 | 10.8/22.55 | 10.8/22.55 | | | |

*Without removable support feet, A=1798 mm. *¹ Rated cooling conditions: Indoor 27°C BS / 19°C BU. Outdoor 35°C BS. Pipe length 7.5 m, level difference 0 m. *² Rated heating conditions: Indoor 20°C BS. External 7°C BS / 6°C BU. Pipe length 7.5 m, level difference 0 m.

*³ Values measured in anechoic chamber. Cooling / Heating *⁴ GWP of HFC R410A equal to 2088 according to regulation 517 / 2014





R2 High Efficiency Line







Technical specifications

| MODEL | | | | PURY-EP200YNW-A | PURY-EP250YNW-A | PURY-EP300YNW-A | PURY-EP300YNW-A x2 HBC | PURY-EP350YNW-A | PURY-EP350YNW-A X2 HBC | | | |
|--------------------------------|----------------------|--------------|---------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--|
| HP | | | | 8 | 10 | 12 | 12 | 14 | 14 | | | |
| Power Supply | | | n°/V/Hz | | 3-phase 380-400-415V 50Hz | | | | | | | |
| | Nominal capacity*1 | | kW | 22.4 | 28.0 | 33.5 | 33.5 | 40.0 | 40.0 | | | |
| | Power input | | kW | 6.27 | 8.77 | 12.05 | 10.24 | 17.16 | 13.98 | | | |
| O a alla a | EER | Outdoor unit | kW | 5.29 | 4.98 | 4.53 | 4.53 | 4.54 | 4.54 | | | |
| Cooling | EEK | System*1 | | 3.57 | 3.19 | 2.78 | 3.27 | 2.33 | 2.86 | | | |
| | Temperature | Indoor WB | °C | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | | | |
| | operating fields | Outdoor DB | °C | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 | | | |
| | Nominal capacity*2 | | kW | 25.0 | 31.5 | 37.5 | 37.5 | 45.0 | 45.0 | | | |
| | Power input | | kW | 6.92 | 9.84 | 11.71 | 11.22 | 15.38 | 14.28 | | | |
| Lingting | COP | Outdoor unit | | 5.47 | 5.26 | 4.48 | 4.48 | 4.39 | 4.39 | | | |
| Heating | | System | | 3.61 | 3.2 | 3.20 | 3.37 | 2.92 | 3.15 | | | |
| | Temperature | Indoor DB | °C | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | | | |
| | operating fields | Outdoor WB | °C | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 | | | |
| Sound pressure*3 | | | dB(A) | 59/59 | 60/61 | 61/67 | 61/67 | 62.5/64 | 62.5/64 | | | |
| Connectable int. Units | | | | 50~150% of outdoor unit capacity | | | |
| | N. Connectable Units | | | WP10~WP125/1~30 | WP10~WP125/1~37 | WP10~WP125/2~45 | WP10~WP125/2~45 | WP10~WP125/2~50 | WP10~WP125/2~50 | | | |
| Ext. Diam. Refr. Pipes | Liquid/Gas | | | 15.88/19.05 | 19.05/22.2 | 19.05/22.2 | 19.05/22.2 | 19.05/28.58 | 19.05/28.58 | | | |
| External dimensions (HxWxD) | | | mm | 1858 x 920 x 740 | 1858 x 920 x 740 | 1858 x 920 x 740 | 1858 x 1240 x 740 | 1710 x 1220 x 740 | 1710 x 1220 x 740 | | | |
| Net weight | | | kg | 234 | 236 | 236 | 279 | 260 | 260 | | | |
| Refr. charge | | | kg | 5.2 | 5.2 | 5.2 | 8 | 9.3 | 9.3 | | | |

Technical specifications

| MODEL | | | | PURY-EP400YNW-A | PURY-EP450YNW-A | PURY-EP500YNW-A |
|------------------------------|--------------------------|------------|---------|----------------------------------|----------------------------------|----------------------------------|
| HP | | | | 16 | 18 | 20 |
| Power Supply | | | n°/V/Hz | | 3-phase 380-400-415V 50Hz | |
| | Nominal capacity*1 | | kW | 45.0 | 50.0 | 56.0 |
| | Power input | | kW | 13.88 | 16.83 | 21.22 |
| I'm - | EER Outdoor u | | kW | 3.97 | 4.66 | 4.41 |
| ooling | EER | System*1 | | 3.24 | 2.97 | 2.63 |
| | Temperature Indoor W | | °C | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 |
| | operating fields Outdoor | | °C | -5.0~52.0 | -5.0~52.0 | -5.0~52.0 |
| | Nominal capacity*2 | | kW | 50.0 | 56.0 | 63.0 |
| | Power input | | kW | 14.12 | 16.86 | 21.67 |
| | COP | | | 3.85 | 4.26 | 4.43 |
| eating | | System | | 3.54 | 3.32 | 2.9 |
| | Temperature | Indoor DB | °C | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 |
| | operating fields | Outdoor WB | °C | -20.0~15.5 | -20.0~15.5 | -20.0~15.5 |
| ound pressure*3 | | | dB(A) | 65/69 | 65.5/70 | 63.5/64.5 |
| onnectable int. Units | | | | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity |
| | N. Connectable Unit | s | | WP10~WP125/2~50 | WP10~WP125/2~50 | WP10~WP125/2~50 |
| kt. Diam. Refr. Pipes | Liquid/Gas | | | 22.2/28.58 | 22.2/28.58 | 22.2/28.58 |
| tternal dimensions IxWxD) | | | mm | 1858 x 1240 x 740 | 1858 x 1240 x 740 | 18580 x 1750 x 740 |
| let weight | | | kg | 282 | 306 | 345 |
| efr. charge | | | kg | 8 | 10.8 | 10.8 |

*Without removable support feet, A=1798 mm. *¹ Rated cooling conditions: Indoor 27°C BS / 19°C BU. Outdoor 35°C BS. Pipe length 7.5 m, level difference 0 m. *² Rated heating conditions: Indoor 20°C BS. External 7°C BS / 6°C BU. Pipe length 7.5 m, level difference 0 m. *3 Values measured in anechoic chamber. Cooling / Heating *4 GWP of HFC R410A equal to 2088 according to regulation 517 / 2014

MITSUBISHI | 153

WR2 Line WATER CONDENSED HEAT RECOVERY OUTDOOR UNIT





Technical specifications

| MODEL | | | | PQRY- P200YLM-A(1) | PQRY- P250YLM-A(1) | PQRY- P300YLM-A(1) | PQRY- P300YLM-A(1) X2 HBC | PQRY- P350YLM-A(1) | PQRY- P350YLM-A(1) X2 HBC | | |
|-----------------------------|-----------------------------|-------------|-------------------|---------------------------|-----------------------|-----------------------|---------------------------------|-----------------------|---------------------------------|--|--|
| HP | | | | 8 | 10 | 12 | 12 | 14 | 14 | | |
| Power Supply | Tensione/Freq./P | hases | V/Hz/n° | 3 phase 380-400-415V 50Hz | | | | | | | |
| | Nominal capacity kW | | kW | 22.4 | 28.0 | 33.5 | 33.5 | 40.0 | 40.0 | | |
| | Power input | | kW | 3.71 | 4.90 | 6.04 | 6.04 | 7.14 | 7.14 | | |
| Casling | EER Outdoor unit | | t | 6.03 | 5.71 | 5.54 | 5.54 | 5.60 | 5.60 | | |
| Cooling | EER System*1 | | | 5.64 | 5.14 | 4.43 | 4.99 | 4.00 | 4.58 | | |
| | Temperature | Indoor BU | °C | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | | |
| | operating fields Outdoor BS | | °C | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | | |
| | Nominal capacity | | kW | 25.0 | 31.5 | 37.5 | 37.5 | 45.0 | 45.0 | | |
| | Power input | | kW | 3.97 | 5.08 | 6.25 | 6.25 | 7.53 | 7.53 | | |
| U | COP | Outdoor uni | t | 6.29 | 6.20 | 6.0 | 6.0 | 5.97 | 5.97 | | |
| Heating | COP | System | | 6.18 | 5.82 | 5.25 | 5.52 | 5.07 | 5.45 | | |
| | Temperature | Indoor BU | °C | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | | |
| | operating fields | Outdoor BS | °C | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | | |
| Sound pressure | | | dB(A) | 46 | 48 | 54 | 54 | 52 | 52 | | |
| Unità int. collegabili | | | | | | | 50~150% of outdoor unit | | | | |
| - | Connectable int. u | unito | | capacity 2~20 | capacity 3~25 | capacity 3~30 | capacity 3~30 | capacity 4~35 | capacity 4~35 | | |
| Ø est. attacchi refr. | Liquid/Gas | 111115 | mm | 15.88/19.05 | 19.05/22.2 | 19.05/22.2 | 19.05/22.2 | 22.2/28.58 | 22.2/28.58 | | |
| | Norm flow rate | | m ³ /h | 5.76 | 5.76 | 5.76 | 5.76 | 7.20 | 7.20 | | |
| | Water flow rate ra | ngo | m ³ /h | 3.0-7.2 | 3.0-7.2 | 3.0-7.2 | 3.0-7.2 | 4.5-11.6 | 4.5-11.6 | | |
| Water circuit | Pressure drop | iliye | kPa | 24 | 24 | 24 | 24 | 4.5-11.0 | 4.5-11.0 | | |
| | Heat exch. volume | | кга I | 5 | 5 | 5 | 5 | 5 | 5 | | |
| External dimensions (HxLxD) | Tieat excit. Voluiti | C | mm | 1100 x 880 x 550 | 1100 x 880 x 550 | 1100 x 880 x 550 | 1100 x 880 x 550 | 1450 x 880 x 550 | 1450 x 880 x 550 | | |
| Net weight | | | ka | 172 | 172 | 172 | 172 | 216 | 216 | | |
| Refr. charge R410A*2/CO, Eq | | | kg ka/Tons | 5/10.44 | 5/10.44 | 5/10.44 | 5/10.44 | 6/12.53 | 6/12.53 | | |

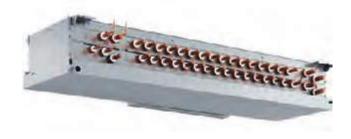
| MODEL | | | | PQRY-P400YLM-A(1) | PQRY-P450YLM-A(1) | PQRY-P500YLM-A(1) | | |
|-----------------------------|-----------------------------|--------------|------------------|----------------------------------|----------------------------------|----------------------------------|------|------|
| HP | | | | 16 | 18 | 20 | | |
| Power Supply | Tensione/Freq./Pl | hases | V/Hz/n° | | | | | |
| | Nominal capacity | | kW | 45.0 | 50.0 | 56.0 | | |
| | Power input | | kW | 8.03 | 9.29 | 11.17 | | |
| Casling | FFR | Outdoor unit | | 5.60 | 5.38 | 5.01 | | |
| Cooling | EER | System*1 | | 4.47 | 4.14 | 3.84 | | |
| | Temperature Indoor BU | | °C | 15.0~24.0 | 15.0~24.0 | 15.0~24.0 | | |
| | operating fields Outdoor BS | | °C | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | | |
| | Nominal capacity | | Nominal capacity | | kW | 50.0 | 56.0 | 63.0 |
| | Power input | | kW | 8.37 | 9.79 | 11.43 | | |
| U | COP | Outdoor unit | | 5.97 | 5.72 | 5.51 | | |
| Heating | COP | System | | 5.29 | 5.04 | 4.82 | | |
| | Temperature | Indoor BU | °C | 15.0~27.0 | 15.0~27.0 | 15.0~27.0 | | |
| | operating fields | Outdoor BS | °C | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | | |
| Sound pressure | | | dB(A) | 52 | 54 | 54 | | |
| Unità int. collegabili | | | | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity | 50~150% of outdoor unit capacity | | |
| 5 | Connectable int. u | inits | | 4~40 | 5~45 | 5~50 | | |
| Ø est. attacchi refr. | Liquid/Gas | | mm | 22.2/28.58 | 22.2/28.58 | 22.2/28.58 | | |
| | Norm flow rate | | m³/h | 7.20 | 7.20 | 7.20 | | |
| Water circuit | Water flow rate ra | nge | m³/h | 4.5-11.6 | 4.5-11.6 | 4.5-11.6 | | |
| water circuit | Pressure drop | | kPa | 44 | 44 | 44 | | |
| | Heat exch. volume | e | 1 | 5 | 5 | 5 | | |
| External dimensions (HxLxD) | | | mm | 1450 x 880 x 550 | 1450 x 880 x 550 | 1450 x 880 x 550 | | |
| Net weight | | | kg | 216 | 216 | 216 | | |
| Refr. charge R410A*2/CO Eq | | | kg/Tons | 6/12.53 | 6/12.53 | 6/12.53 | | |

*¹ System COP and EER do not refer just to the outdoor unit but include water production (Outdoor unit + HBC) and water distribution coefficients (HBC + Indoor units) *² GWP of HFC R410A equal to 2088 according to regulation 517 / 2014





Main HBC Controller

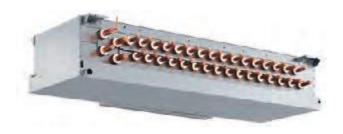


Technical specifications

| MODEL | | | CMB-W(P)(M)108V-(GA1)(AA) | CMB-W(P)(M)1016V-(GA1)(AA) |
|--------------------|--------|----|---------------------------|----------------------------|
| Number of branches | | | 8 (22mm OD pipe) | 16 (22mm OD pipe) |
| Net weight | | kg | 86 | 98 |
| Weight with water | | kg | 96 | 111 |
| | Width | mm | 1520 | 1800 |
| Dimensions | Depth | mm | 630 | 630 |
| | Height | mm | 300 | 300 |
| Power supply | | | 220-240V, 50Hz | 220-240V, 50Hz |
| Phase | | | 1 | 1 |
| Power input | | kW | 0.46 | 0.46 |
| Current | | A | 2.83 | 2.83 |

HBC Main are to be used exclusively with outdoor units PURY-(E)P200-500YLM/YNW, PQRY-P200-500YLM and HVRF indoor units (PEFY-WP, PFFY-WP, PLFY-WP). One HBC Main can be used with PURY-(E)P200-350, PQRY-P200-350 Two HBC Main can be used with PURY-(E)P300-500, PQRY-P300-500

Sub HBC Controller



Technical specifications

| MODEL | | | CMB-W(P)(M)108V-(GB1)(AB) | CMB-W(P)(M)1016V-(GB1)(AB) |
|--------------------|--------|----|---------------------------|----------------------------|
| Number of branches | | | 8 (22mm OD pipe) | 16 (22mm OD pipe) |
| Net weight | | kg | 44 | 53 |
| Weight with water | | kg | 49 | 62 |
| | Width | mm | 1520 | 1520 |
| Dimensions | Depth | mm | 630 | 630 |
| | Height | mm | 300 | 300 |
| Power supply | | | 220-240V 50Hz | 220-240V, 50Hz |
| Phase | | | 1 | 1 |
| Power input | | kW | 0.01 | 0.01 |
| Current | | A | 0.05 | 0.05 |

Sub HBC are to be associated with Main HBC, which are to be used with outdoor units PURY-(E)P200-500YLM/YNW, PQRY-P200-500YLM and HVRF indoor units (PEFY-WP, PFFY-WP, PLFY-WP).



PEFY-WP-VMS1-E CEILING CONCEALED MEDIUM TO LOW STATIC PRESSURE



Technical specifications

| MODEL | | | PEFY- WP10VMS1-E | PEFY- WP15VMS1-E | PEFY- WP20VMS1-E | PEFY- WP25VMS1-E | PEFY- WP32VMS1-E | PEFY- WP40VMS1-E | PEFY- WP50VMS1-E |
|----------------------------------|---------------------------------|--------|---------------------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| Power Supply | | | | | | 1 phase 220-240V, 50Hz | | | |
| Cooling consoity | | kW | 1.2 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| Cooling capacity | | Btu/h | 4100 | 5800 | 7500 | 9600 | 12300 | 15400 | 19100 |
| Heating capacity | | kW | 1.4 | 1.9 | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| Heating capacity | | Btu/h | 4800 | 6500 | 8500 | 10500 | 13600 | 17100 | 21500 |
| Power input | Cooling | kW | 0.03 | 0.05 | 0.05 | 0.06 | 0.07 | 0.09 | 0.09 |
| Power input | Heating | kW | 0.03 | 0.03 | 0.03 | 0.04 | 0.05 | 0.07 | 0.07 |
| Current | Cooling | A | 0.21 | 0.44 | 0.49 | 0.51 | 0.61 | 0.73 | 0.77 |
| Guirein | Heating | A | 0.21 | 0.33 | 0.38 | 0.4 | 0.5 | 0.62 | 0.66 |
| External finish | | | | | | Galvanized steel plate | | | |
| Dimensions | HxLxD | mm | 200x790x700 | 200x790x700 | 200x790x700 | 200x790x700 | 200x990x700 | 200x1190x700 | 200x1190x700 |
| Net weight | | kg | 19 | 19 | 20 | 20 | 25 | 25 | 27 |
| Heat exhanger | | | | | Ci | oss fin (Al fin and Cu pip | oe) | | |
| | Type x n. | | Sirocco Fan x 2 | Sirocco Fan x 3 | Sirocco Fan x 3 | Sirocco Fan x 3 |
| Fan | Air flow (low-mid-high) | m³/min | 4-4.5-5 | 5-6-7 | 5.5-6.5-8 | 5.5-7-9 | 8-9-11 | 9.5-11-13 | 12-14-16.5 |
| | Ex Static pressure | Pa | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 | 5-15-35-50 |
| Mater | Туре | | | | | Motor DC | | | |
| Motor | Power output | kW | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 |
| Air filter | | | | | | PP honeycomb fabric | | | |
| Water pipe diameter | Inlet/Outlet | | | | | Rc 3/4 screw | | | |
| Local drain pipe diameter | | | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 | 0.D. 32 |
| Sound pressure (low-mid-high) | Measured in anechoic chamber | dB(A) | 20-23-25 | 22-24-28 | 23-25-29 | 23-26-30 | 28-30-33 | 30-32-35 | 30-33-36 |

PEFY-WP-VMA-E CEILING CONCEALED MEDIUM TO HIGH STATIC PRESSURE



Technical specifications

| Technical | sheerire | ati | ліз — | | | | | | | | | |
|----------------------------------|---------------------------------|-------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|------------------------|------------------------|
| MODEL | | | PEFY- WP20VMA-E | PEFY- WP25VMA-E | PEFY- WP32VMA-E | PEFY- WP40VMA-E | PEFY- WP50VMA-E | PEFY- WP63VMA-E | PEFY- WP71VMA-E | PEFY- WP80VMA-E | PEFY- WP100VMA-E | PEFY- WP125VMA-E |
| Power Supply | | | | | | | 1 phase 220 |)-240V, 50Hz | | | | |
| Cooling capacity | | kW Btu/h | 2.2 7500 | 2.8 | 3.6 | 4.5 15400 | 5.6 19100 | 7.1 | 8.0 27300 | 9.0 | 11.2 | 14.0 47800 |
| Heating capacity | | kW Btu/h | 2.4 | 9600 3.1 10900 | 12300 4.1 13600 | 5.1 | 6.3 21500 | 8.0 27300 | 9.0 30700 | 30700 10.0 34100 | 38200 12.5 42700 | 47800 16.0 54600 |
| Power input | Cooling Heating | kW kW | 0.07 | 0.09 | 0.11 | 0.14 | 0.14 | 0.14 | 0.24 | 0.24 | 0.24 | 0.36 |
| Current | Cooling Heating | A | 0.55 | 0.64 | 0.74 | 1.15 | 1.15 | 1.15 | 1.47 | 1.47 | 1.47 | 2.21 |
| External finish | | | | | | | Galvanized | steel plate | | | | |
| Dimensions | HxLxD | mm | 250x700x732 | 250x900x732 | 250x900x732 | 250x1100x732 | 250x1100x732 | 250x1100x732 | 250x1400x732 | 250x1400x732 | 250x1400x732 | 250x1600x732 |
| Net weight | | kg | 21 | 26 | 26 | 31 | 31 | 31 | 40 | 40 | 40 | 42 |
| Heat exhanger | | | | | · | | Cross fin (Al fi | n and Cu pipe) | | | | |
| | Type x n. | | Sirocco Fan x 1 | Sirocco Fan x 1 | Sirocco Fan x 1 | Sirocco Fan x 2 | Sirocco Fan x 2 | Sirocco Fan x 2 |
| Fan | Air flow (low-mid-high) | m³/min | 7.5-9-10-5 | 10-12-14 | 12-14.5-17 | 14.5-18-21 | 14.5-18-21 | 14.5-18-21 | 23-28-33 | 23-28-33 | 23-28-33 | 29.5-35.5-42 |
| | Ex Static pressure | Pa | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 | 35-50-70-100- 150 |
| Motor | Туре | | | - | | | Moto | or DC | | - | - | |
| | Power output | kW | 0.085 | 0.085 | 0.085 | 0.121 | 0.121 | 0.121 | 0.244 | 0.244 | 0.244 | 0.244 |
| Air filter | | | | | | | | omb fabric | | | | |
| Water pipe diameter | Inlet/Outlet | | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | Rc 3/4 screw | | | | | Rc 1-1/4 screw |
| Local drain pipe diameter | | | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 |
| Sound pressure (low-mid-high) | Measured in anechoic chamber | dB(A) | 23-26-29 | 23-27-30 | 25-29-32 | 26-29-34 | 26-29-34 | 26-29-34 | 28-33-37 | 28-33-37 | 28-33-37 | 32-36-40 |

Heating/cooling capacity is the maximum functioning value in the following condition. Cooling: indoor 27°C DB/19°C WB (81°F DB/66°F WB), outdoor 35°C DB (95°F DB). Heating : indoor 20°C DB (68°F DB), outdoor 7°C DB Heating/doming/doming/doming/doming/doming/doming/doming/doming/doming/mode/line/doming/







| Technical | specifica | atior | IS | | | | |
|----------------------------------|---------------------------------|--------|----------------|--------------------------------|----------------|--|--|
| MODEL | | | PLFY-WP32VBM-E | PLFY-WP40VBM-E | PLFY-WP50VBM-E | | |
| Power Supply | | | | 1 phase 220-240V, 50Hz | | | |
| Cooling consoitu | | kW | 3.6 | 4.5 | 5.6 | | |
| Cooling capacity | | Btu/h | 12300 | 15400 | 19100 | | |
| 11 | | kW | 4 | 5 | 6.3 | | |
| Heating capacity | | Btu/h | 13600 | 17100 | 21500 | | |
| Deurer innut | Cooling | kW | 0.04 | 0.04 | 0.05 | | |
| Power input | Heating | kW | 0.03 | 0.03 | 0.04 | | |
| 0 | Cooling | A | 0.35 | 0.35 | 0.45 | | |
| Current | Heating | A | 0.28 | 0.28 | 0.38 | | |
| External finish | | | | Galvanized steel plate | | | |
| Dimensions | HxLxD | mm | 258x840x840 | 258x840x840 | 258x840x840 | | |
| Net weight | | kg | 22 | 22 | 22 | | |
| Heat exhanger | | | | Cross fin (Al fin and Cu pipe) | | | |
| | Type x n. | | | Turbo fan x 1 | | | |
| Fan | Air flow (low-mid-high) | m³/min | 13-14-15-16 | 13-14-15-16 | 13-14-17-19 | | |
| | Ex Static pressure | Pa | 0 | 0 | 0 | | |
| Motor | Туре | | | Motor DC | | | |
| | Power output | kW | 0.05 | 0.05 | 0.05 | | |
| Air filter | | | | PP honeycomb fabric | | | |
| Water pipe diameter | Inlet/Outlet | | Rc 3/4 screw | | | | |
| Local drain pipe diameter | | | OD 32 | OD 32 | OD 32 | | |
| Sound pressure (low-mid-high) | Measured in anechoic chamber | dB(A) | 27-29-30-31 | 27-29-30-31 | 27-30-32-34 | | |

PLFY-WP-VFM-E 4-WAY CASSETTE COMPACT



Technical specifications

| MODEL | | | PLFY-WP10VFM-E | PLFY-WP15VFM-E | PLFY-WP20VFM-E | PLFY-WP25VFM-E | PLFY-WP32VFM-E |
|----------------------------------|------------------------------|--------|--------------------------------|----------------|---------------------------|----------------|----------------|
| Power Supply | | _ | | | 1 phase 220-240V, 50/60Hz | | I |
| Cooling capacity | | kW | 1,2 | 1,7 | 2,2 | 2,8 | 3,6 |
| | | Btu/h | 4100 | 5800 | 7500 | 9600 | 12300 |
| Heating capacity | | kW | 1,4 | 1,9 | 2,5 | 3,2 | 4 |
| | | Btu/h | 4800 | 6500 | 8500 | 10900 | 13600 |
| Power input | Cooling | kW | 0,02 | 0,02 | 0,02 | 0,03 | 0,04 |
| | Heating | kW | 0,02 | 0,02 | 0,02 | 0,02 | 0,04 |
| Current | Cooling | A | 0,18 | 0,19 | 0,22 | 0,24 | 0,38 |
| | Heating | A | 0,13 | 0,14 | 0,17 | 0,19 | 0,33 |
| External finish | | | Galvanized steel plate | | | | |
| Dimensions | HxLxD | mm | 208x570x570 | 208x570x570 | 208x570x570 | 208x570x570 | 208x570x570 |
| Net weight | | kg | 13 | 13 | 14 | 14 | 14 |
| Heat exhanger | | | Cross fin (Al fin and Cu pipe) | | | | |
| Fan | Type x n. | | Turbo fan x 1 | | | | |
| | Air flow (low-mid-high) | m³/min | 6,0-6,5-7,0 | 6,0-7,0-8,0 | 6,5-7,0-8,0 | 6,5-7,5-9,0 | 6,5-9,0-12 |
| | Ex Static pressure | Pa | 0 | 0 | 0 | 0 | 0 |
| Motor | Туре | | Motor DC | | | | |
| | Power output | kW | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Air filter | | | PP honeycomb fabric | | | | |
| Water pipe diameter | Inlet/Outlet | | Rc 3/4 screw | | | | |
| Local drain pipe diameter | | | OD 32 | OD 32 | OD 32 | OD 32 | OD 32 |
| Sound pressure (low-mid-high) | Measured in anechoic chamber | dB(A) | 25-26-27 | 25-26-29 | 27-29-31 | 27-30-34 | 27-33-41 |

*¹ Heating/cooling capacity is the maximum functioning value in the following condition. Cooling: indoor 27°C DB/19°C WB (81°F DB/66°F WB), outdoor 35°C DB (95°F DB). Heating : indoor 20°C DB (68°F DB), outdoor 7°C DB (45°F DB/22°F WB). Pipe length: 7,5 m (24-9/16 feet). Height difference: 0 m (0 feet). HVRF indoor units can only be connected to CMB-W(P)(M) HBC (HVRF) and outdoor units PURY-(E)P-YLM/YNW or PQRY-P-YLM. Screw connection to indoor units 3/4°.



PFFY-WP-VLRMM-E



Technical specifications MODEL PFFY-WP20VLRMM-E PFFY-WP25VLRMM-E PFFY-WP32VLRMM-E PFFY-WP40VLRMM-E PFFY-WP50VLRMM-E Power Supply 1 phase 220-240V, 50Hz kW 2.8 3.6 4.5 Cooling capacity Btu/h 7500 9600 12300 15400 19100 2.5 3.2 4.0 5.0 kW 6.3 Heating capacity 8500 10900 13600 17100 21500 Btu/h 0.05 0.07 Cooling kW 0.04 0.04 Power input kW 0.04 0.05 Heating 0.04 0.05 0.07 А 0.35 0.35 0.47 0.47 0.65 Cooling Current 0.47 Heating А 0.35 0.35 0.47 0.65 External finish Galvanized steel plate HxLxD 639x886x220 639x1006x220 639x1006x220 639x1246x220 639x1246x220 Dimensions mm Net weight kg 22 25 29 25 29 Heat exhanger Cross fin (Al fin and Cu pipe) Sirocco fan x 1 Sirocco fan x 2 Sirocco fan x 2 Sirocco fan x 2 Sirocco fan x 2 Type x n. Air flow 7.5-9-10.5 Fan m³/min 4.5-5-6 6-7-8 8-10-11.5 10.5-13-15 (low-mid-high) Pa 20-40-60 20-40-60 20-40-60 20-40-60 20-40-60 Ex Static pressure Туре Motor DC Motor kW 0.096 0.096 0.096 0.096 Power output 0.096 Air filter PP honeycomb fabric Water pipe diameter Inlet/Outlet Rc 3/4 screw ID 26 ID 26 ID 26 ID 26 Local drain pipe diameter ID 26 Measured in Sound pressure dB(A) 31-33-38 31-33-38 31-35-38 34-37-40 37-42-45 (low-mid-high) anechoic chamber

** Heating/cooling capacity is the maximum functioning value in the following condition. Cooling: indoor 27°C DB/19°C WB (81°F DB/66°F WB), outdoor 35°C DB (95°F DB). Heating : indoor 20°C DB (68°F DB), outdoor 7°C DB (45°F DB/22°F WB). Pipe length: 7,5 m (24-9/16 feet). Height difference: 0 m (0 feet). ** Factory setting for outdoor static pressure is 20 Pa for PFFY-WP-VLRMM-E.

HVRF indoor units can only be connected to CMB-W(P)(M) HBC (HVRF) and outdoor units PURY-(E)P-YLM/YNW or PQRY-P-YLM. Screw connection to indoor units 3/4".



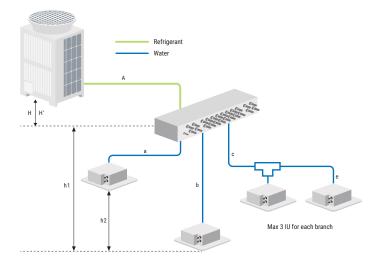


restrictions

Hybrid heat recovery system

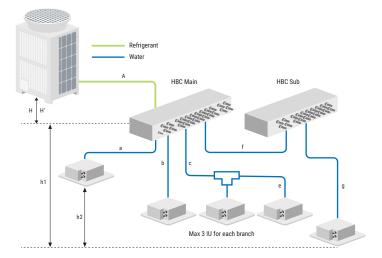
1 HBC Main

| | Picture reference | Maximum lenght (m) |
|---|-------------------|--------------------|
| Effective length between outdoor unit and HBC Main | А | 110 |
| Effective length between HBC and indoor unit | b | 60 |
| Vertical difference between OU and HBC (OU in higher position) | Н | 50 |
| Vertical difference between OU and HBC (OU in lower position) | H' | 40 |
| Vertical difference between IU and HBC | h1 | 15 |
| Vertical difference between indoor units | h2 | 15 |



1 HBC Main e 1 HBC Sub*

| | Picture reference | Maximum lenght (m) |
|---|-------------------|--------------------|
| Effective length between outdoor unit and HBC Main | А | 110 |
| Effective length between HBC and indoor unit | f+g | 60 |
| Vertical difference between OU and HBC (OU in higher position) | Н | 50 |
| Vertical difference between OU and HBC (OU in lower position) | H' | 40 |
| Vertical difference between IU and HBC | h1 | 15 |
| Vertical difference between indoor units | h2 | 15 |



2 HBC Main e 1 HBC Sub*

| | Picture reference | Maximum lenght (m) |
|---|-------------------|--------------------|
| Effective length between outdoor unit and HBC Main | A+B | 110 |
| Effective length between HBC and indoor unit | b e (g + h) | 60 |
| Vertical difference between OU and HBC (OU in higher position) | Н | 50 |
| Vertical difference between OU and HBC (OU in lower position) | H' | 40 |
| Vertical difference between indoor unit and HBC | h1 | 15 |
| Vertical difference between indoor units | h2 | 15 |
| Vertical difference between HBC main and HBC sub. | h3 | 15 |
| Length between HBC Main and HBC Main | C | 40 |

