

AIR CONDITIONING SYSTEMS

CITY MULTI



CM14AS-N

Air conditioning is an ideal way of controlling the temperature, movement and cleanliness of air inside any building, large or small. With today's buildings being so well insulated and increasingly full of electronic equipment, the need for effective climate control is greater than ever. Not only does it cool in the summer months, but air conditioning can also heat, doing away with the need for separate heating systems altogether. More and more people today are enjoying the benefits of comfortable working and living environments made possible with air conditioning.

Our Latest Technologies

VR^F system

VRF stands for Variable Refrigerant Flow.

A VRF air conditioning system modulates the flow of refrigerant depending upon the capacity requirements of the building. In its simplest form, a VRF system comprises an air-cooled outdoor unit and a series of indoor units that regulate the air temperature inside an internal space.

Inverter driven technology

At Mitsubishi Electric we strive to continually meet the increasing demands of our customers, being the first in the industry to offer highly advanced 'inverter driven' systems. Using inverter technology our systems produce just the right amount of output to match the exact requirement of any building. These systems work so efficiently that they don't waste valuable energy by over-heating or over-cooling, resulting in greatly reduced running costs. Alternative systems that may appear cheaper, can often cost substantially more to run, making us the most cost effective choice all round.

Intelligent Power Module (IPM) technology

The CITY MULTI range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology, highly efficient operation is possible with compact units closely matching building requirements.

R410A refrigerant

As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe with zero ODP (Ozone Depletion Potential). Accordingly, our systems require less energy to run, and have a significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

Unsurpassed air conditioning from Mitsubishi Electric

Known the world over, Mitsubishi Electric is a trusted household name associated with a variety of products and services. Founded in 1920, the company known today as Mitsubishi Electric, quickly rose to the forefront of the air conditioning industry - a position we still enjoy today. We pride ourselves on offering some of the most energy efficient systems available on the market.

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The New Cooling-only/Heat pump Models

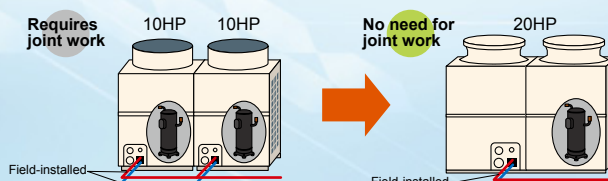
Mitsubishi Electric offers a wide lineup of new cooling-only/heat pump models with the maximum capacity of 60 HP*. Different patterns of combinations of basic modules provide either standard or high COP.

*Applicable to standard model combinations only

New features

Single module up to 20 HP

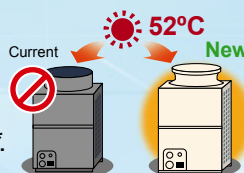
Capable of covering up to 20 HP with a single module and a single compressor. Reduced piping work.



Compatibility to outdoor temperature of up to 52°C^{*1}

Capable of running cooling operations in the outdoor temperature of up to 52°C*.

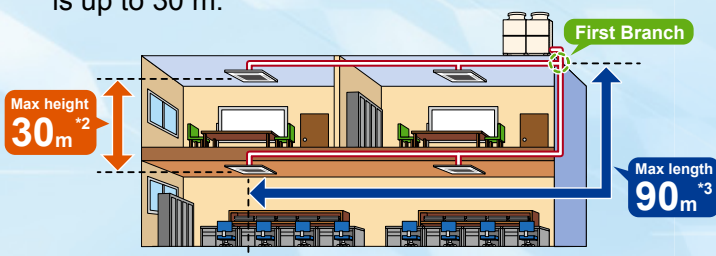
*Compared to 46°C of the older model



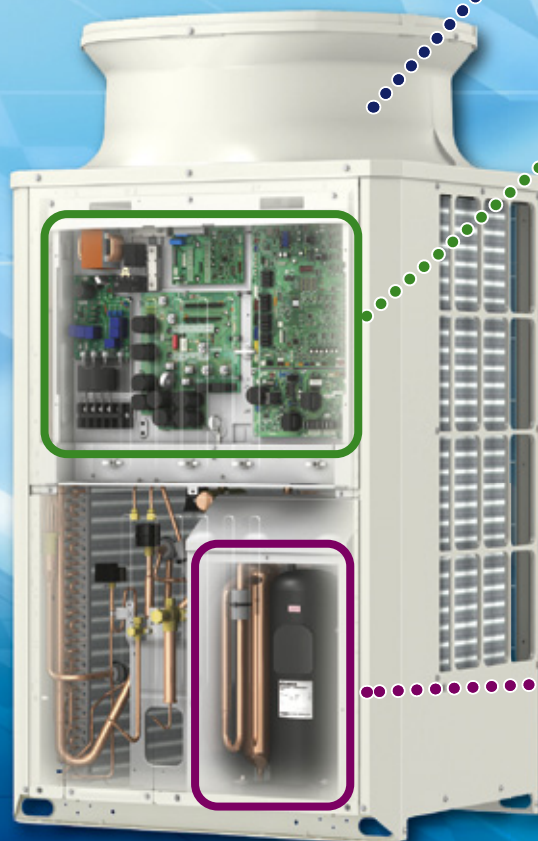
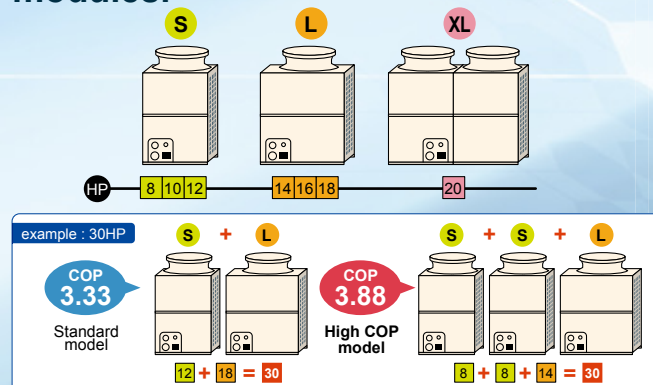
All modules feature inverter-driven compressors. Maximum combined horse power: 60 HP

Increase in the limit of piping length

Farthest indoor from first branch: 90 m
Height difference between indoor and indoor units is up to 30 m.



Standard or high COP options are available by different combinations of modules.



*1 : Any continuous operation over 46°C may require an increased frequency of maintenance.

*2 : When the height difference is 15m or greater, use the one size larger liquid pipe between the indoor unit and the indoor unit.

*3 : When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the first branch.

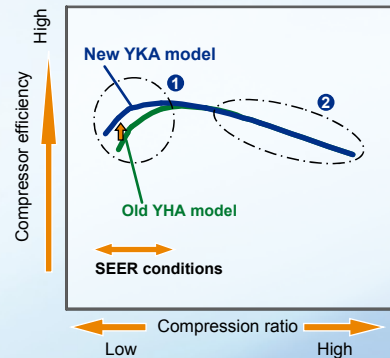
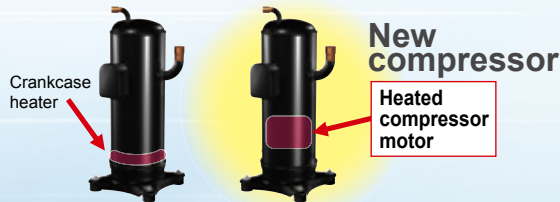
Energy saving

Compressor

- Improved efficiency by the use of DC brushless motor.
- Improved partial-load characteristics achieved by the optimized scroll shape.

Improved SEER performance

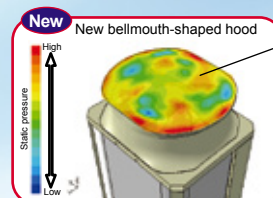
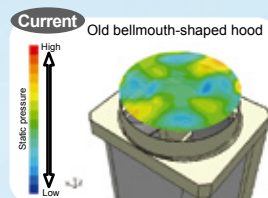
Optimized scroll shape (improved volumetric capacity ratio)



- Reduced standby power consumption by heating the compressor instead of a crankcase heater.

Unit casing

- Improved static pressure at the exhaust air outlet that allows for a reduction in fan input power by the changed shape of the bellmouth hood.

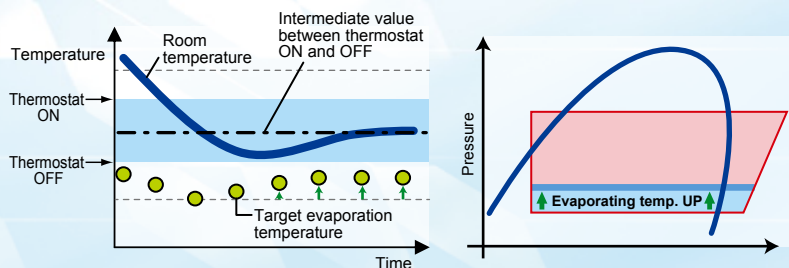


The new bellmouth-shaped hood achieves reduction in fan rotation and increases the pressure at the hood outlet compared to that of the old one, resulting in reduced input power to the fan.

Control

- **ET control (Evaporating Temperature control)**

Reduced energy consumption in cooling by controlling the refrigerant temperature according to the operation load and raising evaporating temperature.



Current control method

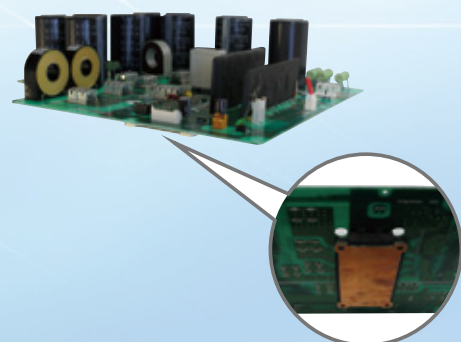
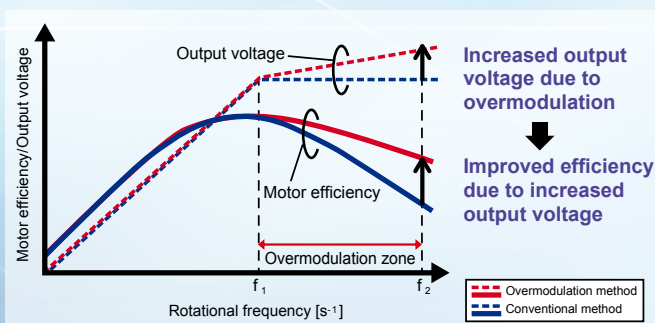
Evaporating temperature was kept constant.

New control method

Evaporating temperature is raised according to the operation load, decreasing compressor input power and increasing operation efficiency.

- **Original PWM overmodulation control**

Improved total efficiency of motor and inverter with the use of our original PWM overmodulation control, increasing the output voltage during high-load operation (when the motor is rotating at high speed).

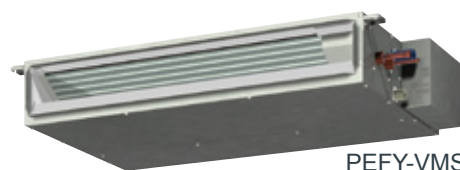




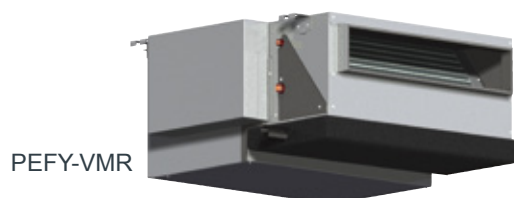
Sophisticated Yet Simple Technology

Reliable

Designed and manufactured to the highest standards, the CITY MULTI range offers one of the most reliable air conditioning systems available. Simple to install and easy to maintain, this range provides ideal solutions you can trust to protect your investment.



PEFY-VMS1



PEFY-VMR



PFFY-VKM

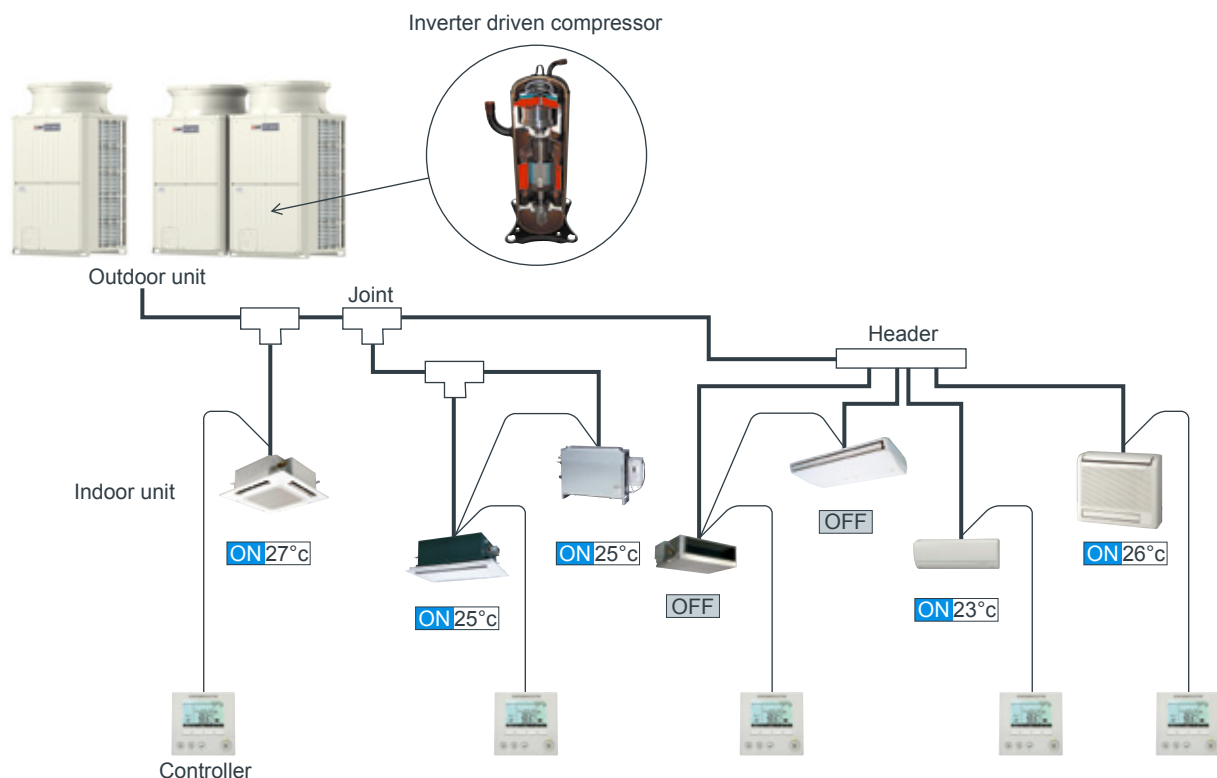
>All the CITY MULTI outdoor units are made under stringent control.

VRF System

Our Answer to VRF

Mitsubishi Electric sets the boundaries of VRF technology with the CITY MULTI range, which is available using R410A refrigerant with zero ODP (Ozone Depletion Potential). The range has been specifically designed for today's building requirements and addresses key market issues such as energy efficiency, adaptability and reliability. With user friendly control systems utilizing internet technology and integrated cooling and ventilation indoor units, CITY MULTI is the benchmark and market leader in VRF technology.

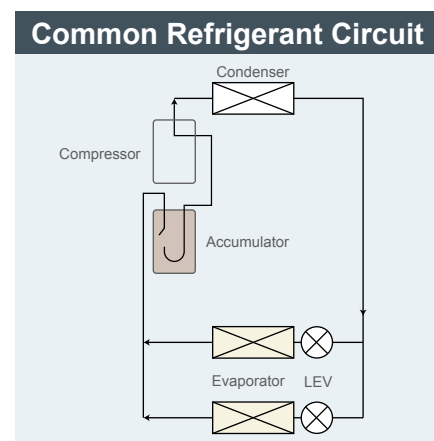
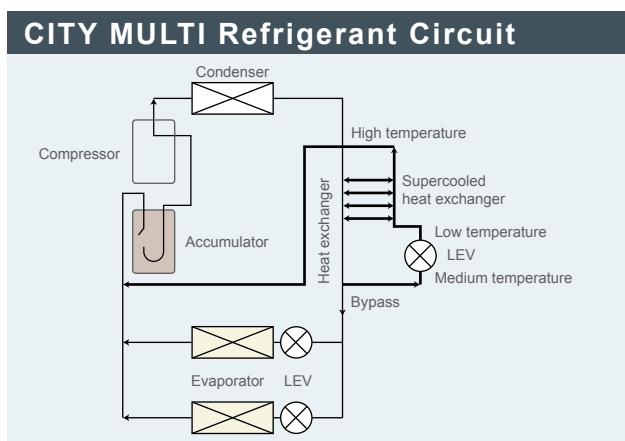
VRF is a multi and direct expansion type air conditioning system where by one outdoor unit can be connected with multiples indoor units. The amount of refrigerant can be regulated freely according to the load on the indoor unit by the inverter driven compressor in the outdoor unit. Zoning in a small office is possible with a small capacity indoor unit. Energy conservation is easily handled because individual indoor units can stop and start their operation as needed. There are various indoor units available in order to suit various interior design needs.



Unbeatable Efficiency

Heat Interchange Circuit

The unique Heat Interchange Circuit (HIC) enhances efficiency by providing additional sub-cooling and allows the expansion device to effectively control the refrigerant distribution, thereby increasing the operating efficiency and reducing the volume of refrigerant in each system.



Inverter Driven Compressor Technology



Low
Starting
Currents

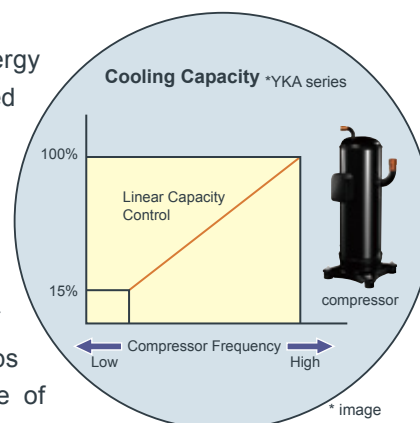
Using inverter driven technology saves energy for several reasons:

The compressor varies its speed to match the indoor cooling or heating demand and therefore only consumes the energy that is required.

When an inverter driven system is operating at partial load, the energy efficiency of the system is significantly higher than that of a standard fixed speed, non inverter system.

The fixed speed system can only operate at 100%, however, partial load conditions prevail for the majority of the time. Therefore fixed speed systems cannot match the annual efficiencies of inverter driven systems.

Using proven single inverter driven compressor technology, the CITY MULTI range is favored by the industry for low starting currents (only 8 amps for a 16HP YKA outdoor unit), and smooth transition across the range of compressor frequencies.



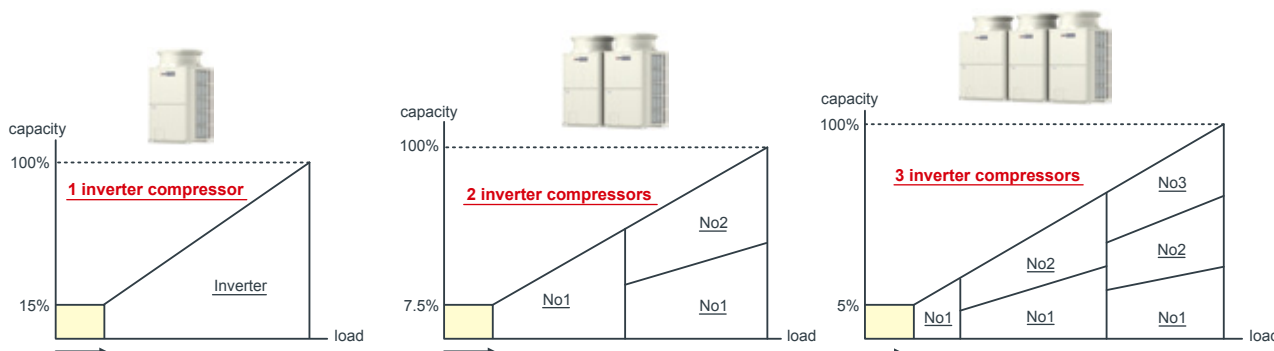
* The values vary depending on the actual conditions such as ambient temperature.

All CITY MULTI compressors are inverter-driven type.

-Capable of precisely matching a building's cooling and heating demands.

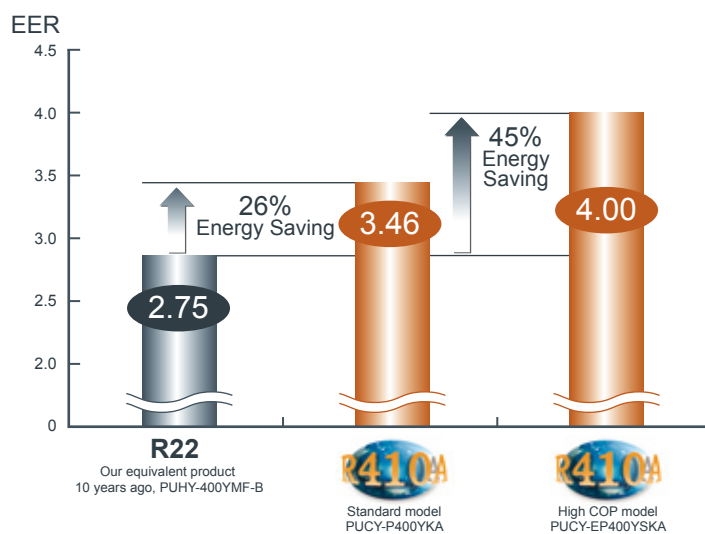
The outdoor unit combinations comprise 1 unit for 8-20HP systems, 2 units for 22-40HP systems and 3 units for 42-60HP systems. Each unit carries one inverter compressor making simple and highly reliable control possible. Not only does it allow low starting currents, the inverter-driven compressor also provides precise indoor comfort and adapts to the air conditioning load.

Stable and Smooth Operation (for standard models)



Total Energy Conservation

Comparison of EER (Energy Efficiency Ratio) – 16HP system



High EER is realized

* The values were obtained under the standard conditions.

Intelligent Power Module (IPM) Technology

The YKA range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology, it is possible to closely match the building requirements and to achieve more accurate control of the occupied space. By using incremental 1Hz steps of capacity control, the amount of required power input is significantly reduced, resulting in greatly improved EER's.

In addition, IPM technology ensures effective performance under partial load conditions, a condition that most systems will be in for the majority of the normal working life cycle. By taking account the efficiency at both part load, and peak load conditions, R410A CITY MULTI is designed to provide unbeatable year round/seasonal efficiency.

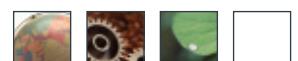
The Difference between YKA and Previous Mitsubishi Electric Models

**Technology is a key when increased efficiency is demanded.
The CITY MULTI YKA range is able to deliver this in simple ways.**

A highly efficient R410A scroll compressor design results in less friction losses at the motor. A simplified refrigerant circuit (low pressure loss) including a new accumulator design also adds a few more points to the efficiency scale. Enhancements to the heat interchange circuit, an inverter driven fan motor and a heat exchanger design again add vital increases to overall system efficiencies and EERs.

The Importance of EER

EER stands for "Energy Efficiency Ratio". It is a measure of the useful energy a system can deliver compared to the energy it consumes. It is calculated by dividing the energy output by the energy input of a system. The higher the figure then the more efficient the system is deemed to be. Mitsubishi Electric VRF models, the world's highest energy-efficient air-conditioners, will undoubtedly reduce millions of tons of CO₂ emissions.





For the Environment

Enhancing Environmental Care (measures for the RoHS Directive and the refrigerant reduction)

Every unit is in compliance with the RoHS Directive,* which stands for the Restriction of Hazardous Substances: Lead-free soldering is used to avoid Lead Groundwater Contamination on the print board. The amount of refrigerant on the unit has also been reduced to enhance environmental care.

* RoHS Directive: the restriction of the use of certain hazardous substances in electrical and electronic equipment that has been sold in EU since July 2006

Efficient R410A Refrigerant



History of Refrigerant

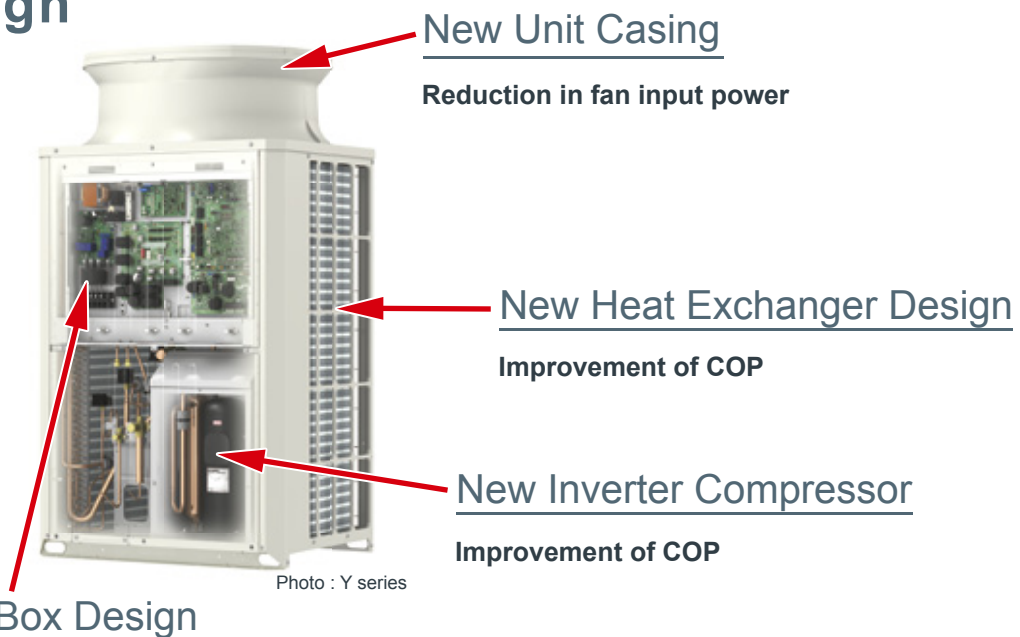
R22, an HCFC-based refrigerant, has been a popular choice for most chillers. R22 has been targeted by the Montreal Protocol to be phased out in new equipment. Additionally, governments in many countries are enforcing a ban of HCFC-based refrigerants for new installations.

Because of these restrictions, R410A refrigerants are desirable. R410A is a blend of HFCs, which do not deplete the ozone.

Technical Aspects of Refrigerant

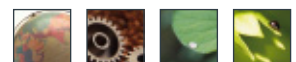
R410A is a more efficient refrigerant as it has a higher specific heat capacity when compared to R407C or R22. This higher energy carrying capacity allows for smaller pipe sizes, longer pipe runs and reduces the volume of refrigerant within a system. This is a major factor when concerning safety and environmental requirements in the design, manufacture, installation, operation, maintenance and disposal of refrigerating systems.

New Design



New Control Box Design

Improvement of reliability and easy maintenance












O Outdoor Unit

- **Cooling-only Series (Y), High COP (Y)**
- **Heat Pump Series (S)**
- **Heat Pump Series (Y), High COP (Y)**



Wide Selection of Outdoor Units









System	Type	Model name	HP Model	4.5	5	6	7	8	9	10	12	14	16	18
				P112	P125	P140	P175	P200	P225	P250	P300	P350	P400	P450
Air Cooled	Cooling only	Y series <small>Page25 - Page35</small> PUCY-P YKA(-BS) PUCY-P YSKA(-BS) 	S					8		10	12			
			L									14	16	18
			XL											
		Y series - High COP <small>Page36 - Page41</small> PUCY-EP YSKA(-BS) 	*1 S										8	8
			L										8	10
			XL											
	Heat Pump	S series <small>Page42 - Page44</small> PUMY-P VKM(-BS) PUMY-P YKM(-BS) 		4.5	5	6	7	8	9					
		Y series <small>NEW</small> <small>Page45 - Page55</small> PUHY-P YKA(-BS) PUHY-P YSKA(-BS) 	S					8		10	12			
			L									14	16	18
			XL											
		Y series - High COP <small>Page56 - Page61</small> PUHY-EP YSKA(-BS) 	S										8	8
			L										8	10
			XL											
		Y series - High COP PUHY-EP YJM-A(-BS) PUHY-EP YSJM-A(-BS) 	*1 S					8					8	8
			L							10				10
			XL								12			
		Y series - High COP PUHY-EP YSJM-A1(-BS) 	S											
			L											
			XL											

*1. Indicates S, L, XL modules

*2. The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.

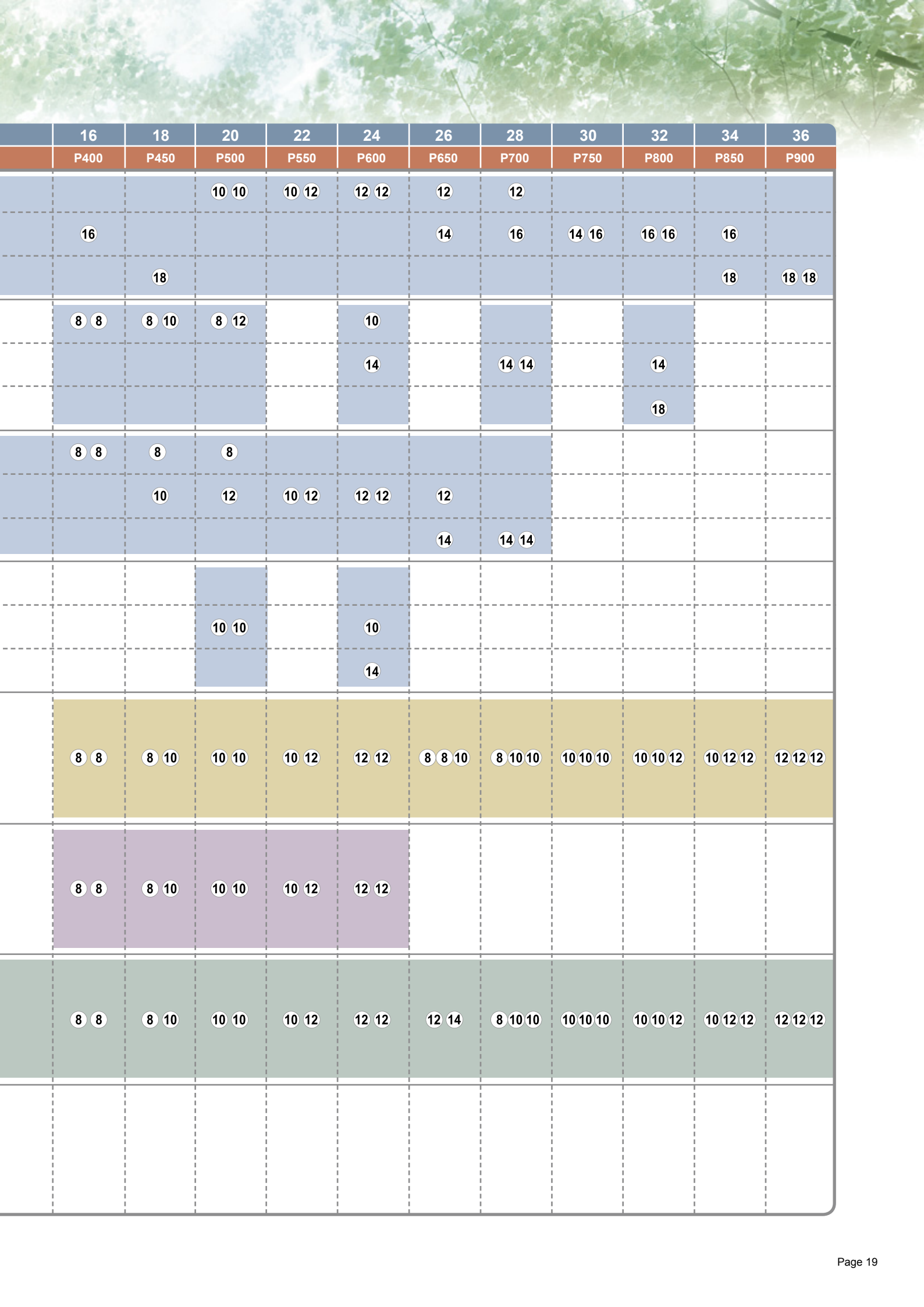
	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100	P1150	P1200	P1250	P1300	P1350	P1400	P1450	P1500
		10 12	10	10	10	12						12 12	12							NEW	
			14	16	18	18	16 16	16 18	18 18	18		18	14 18	14 16 16	16 16 16	16 16 18	16 18 18	18 18 18	18 18 18	18 18	
	20									20	20 20								20 20 20	20 20 20	20 20 20
	10 10			12		8 8	8 10	10 10	10 12	12 12	12										
				14 14	14 14	14	14	14	14	14	14 14	14 14	14 14 16								
		10 12	10	10	10	12						12 12	12								
			14	16	18	18	16 16	16 18	18 18	18		18	14 18	14 16 16	16 16 16	16 16 18	16 18 18	18 18 18	18 18	18	
	20									20	20 20								20 20 20	20 20 20	20 20 20
	10 10			12		8 8	8 10	10 10	10 12	12 12	12										
				14 14	14 14	14	14	14	14	14	14 14	14 14 14	14 14 16								
	8			8 8	8 8	8	8														
		10		10		10		10													
	12	12	12 12		12	12	12 12	12 12	12 12	12 12											
				8																	
	10 10			10 10	10 10	10 10	10 10														
						12															

Wide Selection of Outdoor Units

System	Type	Model name	HP Model	8	10	12	14	
				P200	P250	P300	P350	
Air Cooled	Heat Recovery	R2 series PURY-P YJM-A(-BS) PURY-P YSJM-A(-BS) 	S	8	10	12		
			L				14	
			XL					
		R2 series PURY-P YSJM-A1(-BS) 	S					
			L					
			XL					
		R2 series - High COP PURY-EP YJM-A(-BS) PURY-EP YSJM-A(-BS) 	S	8				
			L		10	12		
			XL				14	
		R2 series - High COP PURY-EP YSJM-A1(-BS) 	S					
			L					
			XL					
Water Cooled	Heat Pump	WY series PQHY-P YHM-A PQHY-P YSHM-A 		8	10	12		
	Heat Recovery	WR2 series PQRY-P YHM-A PQRY-P YSHM-A 		8	10	12		
Air Cooled	Heat Pump	REPLACE MULTI Y series PUHY-RP YJM-B PUHY-RP YSJM-B 	S	8	10	12	14	
	Heat Recovery	REPLACE MULTI R2 series PURY-RP YJM-B PURY-RP YSJM-B 	L	8	10	12		

*1. Indicates S, L, XL modules

*2. The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.



	16	18	20	22	24	26	28	30	32	34	36
	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
			10 10	10 12	12 12	12	12				
	16					14	16	14 16	16 16	16	
		18								18	18 18
	8 8	8 10	8 12		10						
					14		14 14		14		
									18		
	8 8	8	8								
		10	12	10 12	12 12	12					
						14	14 14				
			10 10		10						
					14						
	8 8	8 10	10 10	10 12	12 12	8 8 10	8 10 10	10 10 10	10 10 12	10 12 12	12 12 12
	8 8	8 10	10 10	10 12	12 12						
	8 8	8 10	10 10	10 12	12 12	12 14	8 10 10	10 10 10	10 10 12	10 12 12	12 12 12

Advanced Energy-saving Technologies



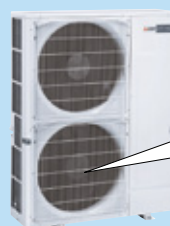
S series | PUMY-P VKM
PUMY-P YKM

Highly efficient fan and grille for outdoor unit

The shapes of the fan and grille of the outdoor unit have been redesigned, realising an increase in blowing capacity and more efficient heat exchange while maintaining the same operating noise level.

Outdoor unit fan opening increased

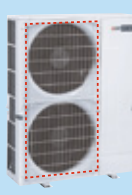
The diameter of the opening for the fan in the outdoor unit has been increased from 490 to 550mm. Blowing capacity has been increased while maintaining the same fan rotation speed.



Opening increased from 490 to 550mm in diameter

Grille shape changed

The shape of the air outlet grille has been changed to reduce pressure loss. This has helped to improve heat exchange performance.



PUMY-P V/YHMB

PUMY-P V/YKM

Inflexed fan

Adoption of a fan with improved ventilation characteristics and a newly designed rear edge that suppresses wind turbulence raises fan operation efficiency.



Fan rear edge

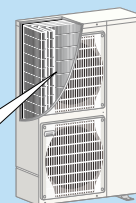
Highly efficient heat exchanger

A high density and increase in surface area have improved the heat-exchange efficiency of the heat exchanger.

High-density heat exchanger

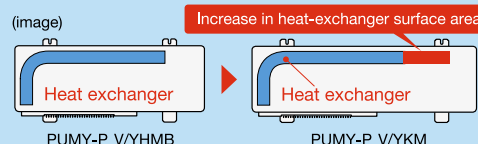
The pipe diameter has been changed from 9.52 to 7.94mm, resulting in a high-density heat exchanger.

2 lines, 52 columns
↓
2 lines, 64 columns



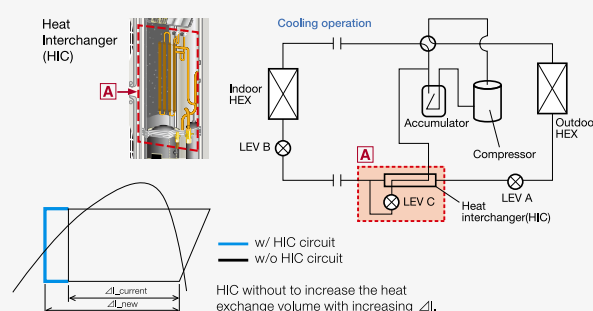
Heat-exchange surface area increased

Heat exchanger size extended horizontally, increasing the surface area.



Heat Interchanger (HIC) Added

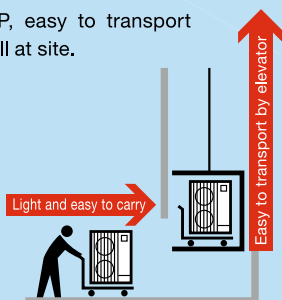
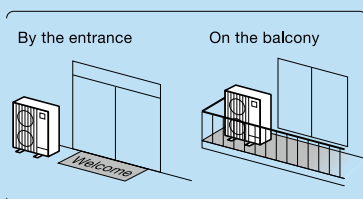
A HIC circuit has been added to improve energy efficiency during cooling operation. Liquid refrigerant is rerouted, transformed into a gas state and injected back into the system to increase overall pressure of the refrigerant being sent to the compressor, thereby reducing the load on the compressor and raising efficiency.





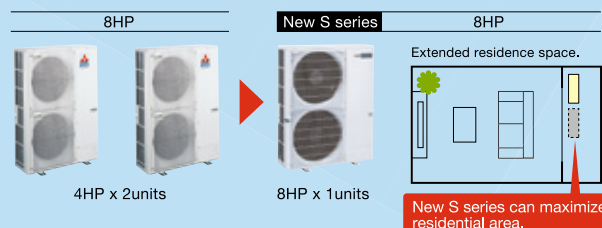
Light weight

Even 8HP, easy to transport and install at site.



Smaller footprint

Flexible choice and suitable for the limited outdoor space.

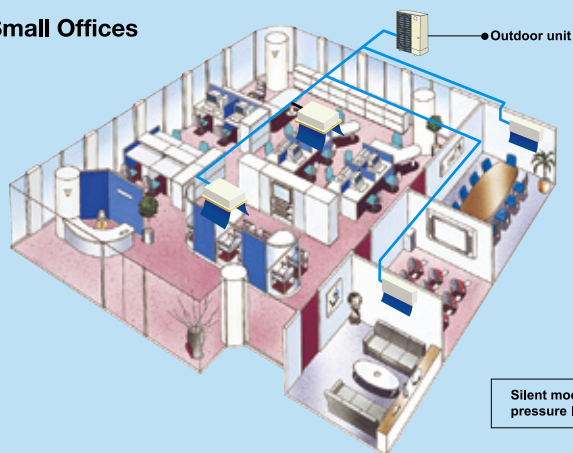


The two-pipe zoned system designed for Heat Pump Operation

The CITY MULTI S series (for small applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

With a wide range of indoor unit line-up in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 12 (S series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

Small Offices



Residence



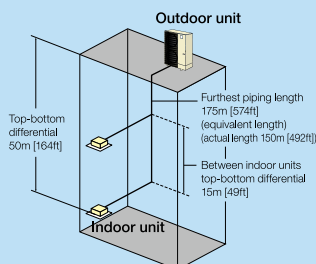
[P112~140(V/YKM)]

Refrigerant Piping Lengths Maximum meters [Feet]

Total length	300 [984]
Maximum allowable length	150 (175 equivalent) [492(574)]
Farthest indoor from first branch	30 [98]

Vertical differentials between units Maximum meters [Feet]

Indoor/outdoor (outdoor higher)	50 [164]
Indoor/outdoor (outdoor lower)	40 [131]
Indoor/indoor	15 [49]



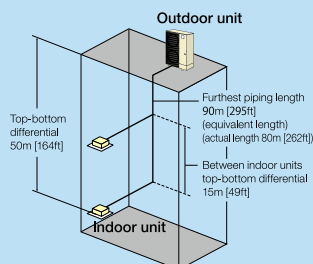
[P175~225(YKM)]

Refrigerant Piping Lengths Maximum meters [Feet]

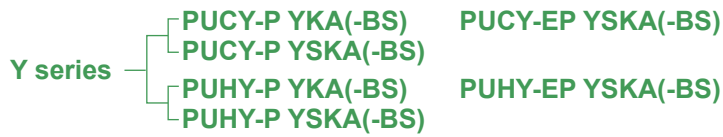
Total length	150 [492]
Maximum allowable length	80 (90 equivalent) [262(295)]
Farthest indoor from first branch	30 [98]

Vertical differentials between units Maximum meters [Feet]

Indoor/outdoor (outdoor higher)	50 [164]
Indoor/outdoor (outdoor lower)	40 [131]
Indoor/indoor	15 [49]



Y (Cooling-only/Heat Pump) series



The two-pipe zoned system designed for Heat Pump Operation

The CITY MULTI Y series (for large applications) makes use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively. With a wide line-up of indoor units in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 50 (Y series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

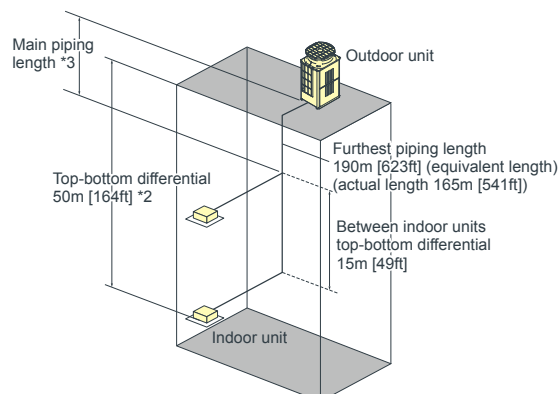
Large Offices (Y series)



System Pipe Lengths

[8-60HP (Cooling-only Y series)]
 [16-44HP (Cooling-only High COP Y series)]
 [8-60HP (Y series)]
 [16-44HP (High COP Y series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	1,000 [3,280]*1
Maximum allowable length.....	165 (190 equivalent) [541(623)]
Farthest indoor from first branch.....	40 [131]*2
Main piping length	*3
Vertical differentials between units	
Indoor/outdoor (outdoor higher).....	50 [164]*4
Indoor/outdoor (outdoor lower).....	40 [131]*4, *5
Indoor/indoor.....	15 [49]*6



*1 The maximum total piping length in the system with the P1400 through P1500 model units is 800 meters.

*2 90m is available. When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the first branch. [for PUCY-P-Y(S)KA(-BS)/PUCY-EP-YSKA(-BS)]

*3 In the system with the P1400 through P1500 model units, pipe length restrictions apply to the main pipes as follows.

P1400: 110 m max.
 P1450: 90 m max.
 P1500: 60 m max.

*4 Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.

*5 4m or less in cooling at outdoor temperature 10°C or lower for PUHY-P-YHA (-BS) only.

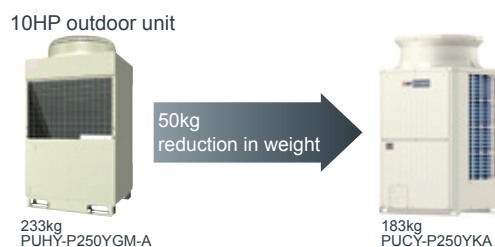
*6 30m is available. When the height difference is 15m or greater, use the one size larger liquid pipe between the indoor unit and the indoor unit. [for PUCY-P-Y(S)KA(-BS)/PUCY-EP-YSKA(-BS)]

Outdoor Unit

Features in Y (Cooling-only/Heat Pump) series

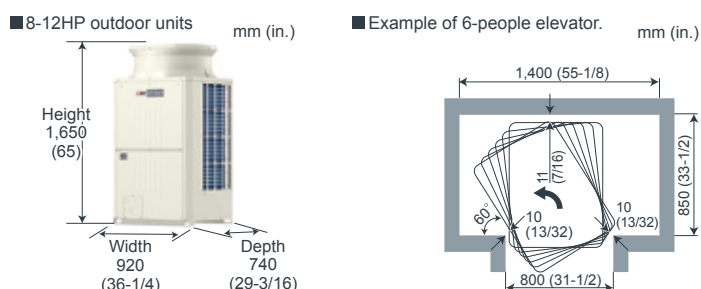
Compact Design Industry Leading Weight Saving

The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.



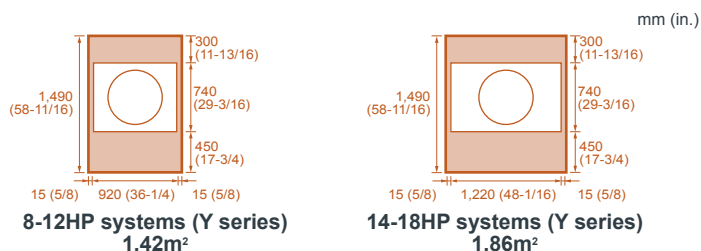
Industry Leading Space Saving

The downsized outdoor unit can be transported through a 800 mm wide door.



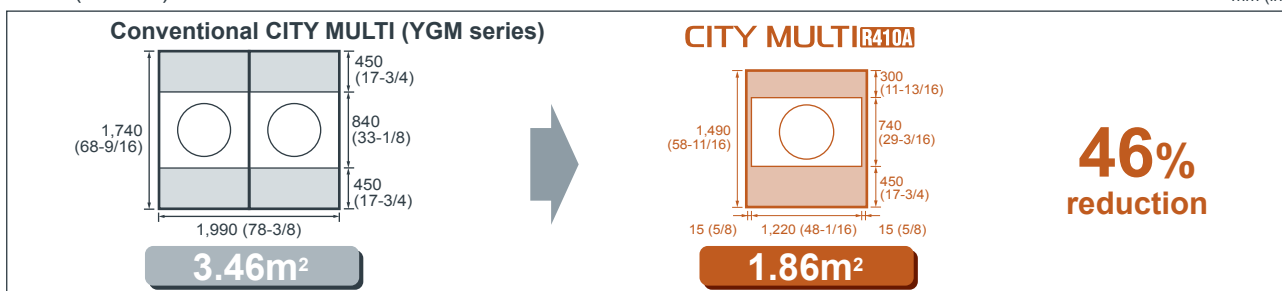
Effective Use of Space

The new models have a smaller foot print and service space requirement than previous models.

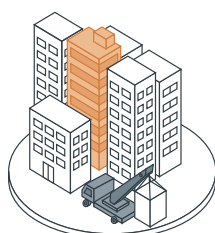


18HP (Yseries)

mm (in.)

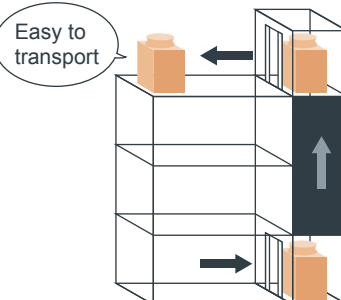


The unit can easily be transported even into slender buildings.



The narrow space between buildings makes it difficult to use a crane.

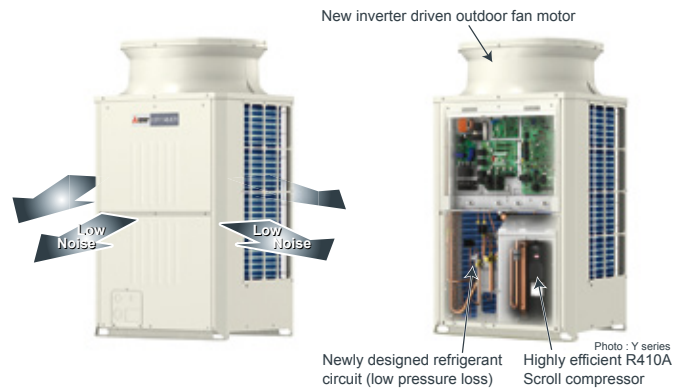
CITY MULTI
makes it easy.



Low Noise Levels New Fan Design

CITY MULTI VRF systems led the introduction of larger single fan motors some decades ago, achieving substantially lower noise levels over multiple designs.

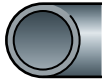



Continuing the development in the areas of blade shape and weight, Mitsubishi Electric have managed to achieve even higher performance and lower noise levels. To reduce noise levels further and comply with inner city residential noise regulations, all outdoor units include low noise mode. This function works by lowering the fan speed and compressor frequency proportionally with reduction in demand.



The compressor compartment is sealed by metal panels to attain low noise levels in all directions.

R410A Pipe Sizing

As R410A has a higher specific heat capacity than R22, the pipework is smaller. This means the pipe itself is cheaper, easier to install and less riser space is required within the building.

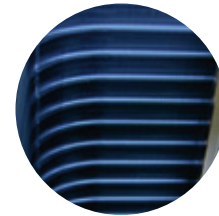
Conventional		CITY MULTI R410A	
			
Gas piping	Liquid piping	Gas piping	Liquid piping
ø28.58 (ø1-1/8)	ø12.7 (ø1/2)	ø22.2 (ø7/8)	ø9.52 (ø3/8)

Based on 10HP model

Blue Fin Treatment

The anti-corrosion Blue Fin treatment of the heat exchanger is especially effective in urban environments where the traffic pollutions can damage the aluminum fins reducing the capacity and life expectancy of the unit. All CITY MULTI R410A outdoor units have been treated with Blue Fin.

*Standard: Anti-corrosion Blue Fin treatment & copper tube.
BS type (optional): salt-resistant cross fin & copper tube.

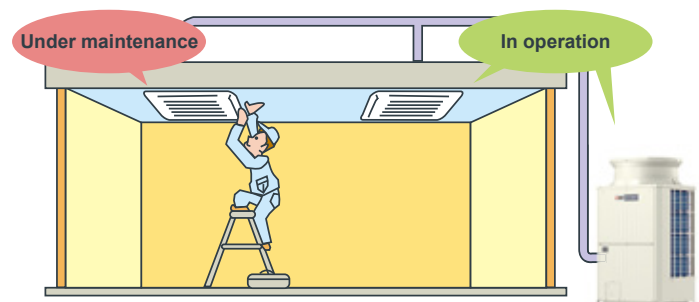


Easy Maintenance

Even when one of the indoor units in the system is under maintenance, the other indoor unit can still operate.

* Not applicable to all situations.

* Be sure to turn off the power to the indoor unit when repairing or servicing the unit.



System Check

Ensuring simple and easy maintenance, system tests are available to check wiring, sensors and the refrigerant amount.

60Pa High Static Pressure as standard

Y series corresponds to high static pressure of 60Pa, ideal and flexible for any type of application.



Outdoor Unit

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YKA(-BS)



► Specifications

Model			PUCY-P200YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P350YKA (-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5	40.0	
		kcal/h	20,000	25,000	30,000	35,000	
	*1	BTU / h	76,400	95,500	114,300	136,500	
		Power input kW	5.59	7.08	8.95	10.78	
		Current input A	9.4-8.9-8.6	11.9-11.3-10.9	15.1-14.3-13.8	18.1-17.2-16.6	
EER		kW / kW	4.00	3.95	3.74	3.71	
Cooling capacity		*3	kW	22.7	28.4	34.0	40.6
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	10.0~52.0°C (50~126°F)	10.0~52.0°C (50~126°F)	10.0~52.0°C (50~126°F)	10.0~52.0°C (50~126°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	P15~P250/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	57	58	61	61	
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output		kW	0.92 x 1	0.92 x 1	0.92 x 1	
Compressor	*2 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.5	6.9	8.1	10.4	
Case heater		kW	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
Refrigerant	Type x original charge		R410A x 5.5 kg (13 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	174 (384)	183 (404)	201 (444)	237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHg:O, 6.1mmHg:O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.).

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YKA(-BS)



► Specifications

Model			PUCY-P400YKA (-BS)		PUCY-P450YKA (-BS)		PUCY-P500YKA (-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	44.0		48.0		56.0		
		kcal/h	39,000		43,000		50,000		
	*1	BTU / h	150,100		163,800		191,100		
		Power input	kW	12.71		15.73		17.17	
		Current input	A	21.4-20.3-19.6		26.5-25.2-24.3		28.9-27.5-26.5	
	EER	kW / kW	3.46		3.05		3.26		
Cooling capacity		*3	kW	44.7		48.8		56.9	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43		
Sound pressure level (measured in anechoic room)		dB <A>	63		63		65		
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 2		
	Air flow rate	m³/min	175		175		320		
		L/s	2,917		2,917		5,333		
		cfm	6,179		6,179		11,299		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	Motor output		kW	0.92 x 1		0.92 x 1		0.92 x 2	
Compressor	*2 External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		
	Motor output	kW	10.8		12.4		14.3		
	Case heater	kW	-		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 1,220 x 740		1,650 x 1,220 x 740		1,650 x 1,750 x 740		
		in.	65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 11.8 kg (27 lbs)		
Net weight	kg (lbs)		237 (523)		237 (523)		305 (673)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB./67°FWB.), Outdoor: 35°CDB. (95°FDB.).

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)

► Specifications



Model			PUCY-P550YSKA (-BS)		PUCY-P600YSKA (-BS)		PUCY-P650YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	61.5		68.0		72.0			
		kcal/h	52,900		58,500		61,900			
	*1	BTU / h	209,800		232,000		245,700			
		Power input kW	15.97		17.79		19.67			
		Current input A	26.9-25.6-24.6		30.0-28.5-27.4		33.2-31.5-30.4			
	EER	kW / kW	3.85		3.82		3.66			
Cooling capacity	*3	kW	62.5		69.1		73.2			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~47		P15~P250/2~50		P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	63		63		64.5			
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed			
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed			
Set Model										
Model			PUCY-P250YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P400YKA (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	175		175		175		175	
		L/s	2,917		2,917		2,917		2,917	
		cfm	6,179		6,179		6,179		6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*2	Motor output kW	0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter		Inverter	
	Motor output	kW	6.9		8.1		6.9		10.8	
	Case heater	kW	—		—		—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
	Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	183 (404)		183 (404)		237 (523)		183 (404) 237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed		12.7 (1/2) Brazed		9.52 (3/8) Brazed 15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		22.2 (7/8) Brazed 28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°CDB./19.5°CWB. (81°FDB./67°FWB.), Outdoor: 35°CDB. (95°FDB.).

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)

► Specifications



Model			PUCY-P700YSKA (-BS)		PUCY-P750YSKA (-BS)		PUCY-P800YSKA (-BS)							
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz							
Cooling capacity (Nominal)	*1	kW	76.0		81.5		88.0							
		kcal/h	65,400		70,100		75,700							
	*1	BTU / h	259,300		278,100		300,300							
		Power input kW	22.47		24.47		25.43							
		Current input A	37.9-36.0-34.7		41.3-39.2-37.8		42.9-40.7-39.3							
	EER	kW / kW	3.38		3.33		3.46							
Cooling capacity	*3	kW	77.2		82.8		89.4							
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)							
	Outdoor	D.B.	10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)							
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity							
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50							
Sound pressure level (measured in anechoic room)		dB <A>	64.5		65.5		66							
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Braze		19.05 (3/4) Braze		19.05 (3/4) Braze							
	Gas pipe	mm (in.)	34.93 (1-3/8) Braze		34.93 (1-3/8) Braze		34.93 (1-3/8) Braze							
Set Model														
Model			PUCY-P250YKA (-BS)		PUCY-P450YKA (-BS)		PUCY-P300YKA (-BS)		PUCY-P450YKA (-BS)		PUCY-P400YKA (-BS)		PUCY-P400YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	175		175		175		175		175		175	
		L/s	2,917		2,917		2,917		2,917		2,917		2,917	
		cfm	6,179		6,179		6,179		6,179		6,179		6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Compressor	*2 Motor output		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1	
	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter		Inverter	
	Motor output		kW 6.9		kW 12.4		kW 8.1		kW 12.4		kW 10.8		kW 10.8	
Case heater		kW -		kW -		kW -		kW -		kW -		kW -		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD			mm 1,650 x 920 x 740		mm 1,650 x 1,220 x 740		mm 1,650 x 920 x 740		mm 1,650 x 1,220 x 740		mm 1,650 x 920 x 740		mm 1,650 x 1,220 x 740	
			in. 65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
Refrigerant			Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight			kg (lbs)		183 (404)		237 (523)		201 (444)		237 (523)		237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Braze		15.88 (5/8) Braze		12.7 (1/2) Braze		15.88 (5/8) Braze		15.88 (5/8) Braze		15.88 (5/8) Braze	
	Gas pipe	mm (in.)	22.2 (7/8) Braze		28.58 (1-1/8) Braze		22.2 (7/8) Braze		28.58 (1-1/8) Braze		28.58 (1-1/8) Braze		28.58 (1-1/8) Braze	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°CDB./19.5°CWB. (81°FDB./67°FWB.), Outdoor: 35°CDB. (95°FDB.).

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)



► Specifications

Model		PUCY-P850YSKA (-BS)		PUCY-P900YSKA (-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	92.0	96.0	
		kcal/h	79,100	82,600	
	*1	BTU / h	313,900	327,600	
		Power input	kW	28.37	31.47
		Current input	A	47.8-45.4-43.8	53.1-50.4-48.6
	EER	kW / kW	3.24	3.05	
Cooling capacity	*3	kW	93.5	97.6	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	10.0~52.0°C (50~126°F)	10.0~52.0°C (50~126°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50	P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	66	66	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	

Set Model

Model			PUCY-P400YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175
		L/s	2,917	2,917	2,917	2,917
		cfm	6,179	6,179	6,179	6,179
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*2	Motor output kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
Compressor	External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output kW		10.8		12.4	
External finish	Case heater kW		—		—	
	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD	mm		1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
	in.		65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight	kg (lbs)		237 (523)	237 (523)	237 (523)	237 (523)
Heat exchanger	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G	

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)



► Specifications

Model			PUCY-P950YSKA (-BS)		PUCY-P1000YSKA (-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1	kW	104.0		112.0	
		kcal/h	89,400		96,300	
	*1	BTU / h	354,800		382,100	
		kW	35.13		38.88	
	Current input		A		65.6-62.3-60.1	
EER		kW / kW		2.96		
Cooling capacity		*3 kW		105.7		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	67.5		68	
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed	
Set Model						
Model			PUCY-P450YKA (-BS)		PUCY-P500YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2	
	Air flow rate	m³/min	175		320	
		L/s	2,917		5,333	
		cfm	6,179		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 2	
	*2 External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
	Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor
Starting method		Inverter		Inverter		
Motor output		kW	12.4		14.3	
Case heater		kW	—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,650 x 1,220 x 740		1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16		65 x 68-15/16 x 29-3/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
		Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		
Refrigerant	Type x original charge	R410A x 11.5 kg (26 lbs)		R410A x 11.8 kg (27 lbs)		
Net weight	kg (lbs)	237 (523)		305 (673)		
Heat exchanger	Salt-resistant cross fin & copper tube					
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G	

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°CDB/19.5°CWB. (81°FDB/67°FWB), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)



► Specifications

Model			PUCY-P1050YSKA (-BS)			PUCY-P1100YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	115.0			121.5		
		kcal/h	98,900			104,500		
	*1	BTU / h	392,400			414,600		
		Power input	kW	33.39			35.21	
		Current input	A	56.3-53.5-51.6			59.4-56.4-54.4	
	EER	kW / kW	3.44			3.45		
Cooling capacity	*3	kW	116.9			123.5		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50			P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	66.5			66.5		
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUCY-P300YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P450YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175	175	175	175	175
		L/s	2,917	2,917	2,917	2,917	2,917	2,917
		cfm	6,179	6,179	6,179	6,179	6,179	6,179
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	*2	External static press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.1	8.1	12.4	8.1	10.4	12.4
Case heater	kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight		kg (lbs)	201 (444)	201 (444)	237 (523)	201 (444)	237 (523)	237 (523)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)

► Specifications



Model			PUCY-P1150YSKA (-BS)			PUCY-P1200YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	128.0			132.0			
		kcal/h	110,100			113,500			
	*1	BTU / h	436,700			450,400			
		Power input kW	36.15			38.15			
		Current input	A	61.0-57.9-55.8			64.4-61.1-58.9		
	EER	kW / kW	3.54			3.46			
Cooling capacity	*3	kW	130.1			134.2			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	67.5			68			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUCY-P350YKA (-BS)	PUCY-P400YKA (-BS)	PUCY-P400YKA (-BS)	PUCY-P400YKA (-BS)	PUCY-P400YKA (-BS)	PUCY-P400YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*2	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
	Compressor	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
		Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Motor output		kW	10.4	10.8	10.8	10.8	10.8	10.8	
Case heater		kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)

► Specifications



Model			PUCY-P1250YSKA (-BS)			PUCY-P1300YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	136.0			140.0			
		kcal/h	117,000			120,400			
	*1	BTU / h	464,000			477,700			
		Power input kW	41.27			44.82			
		Current input	A	69.6-66.1-63.7			75.6-71.8-69.2		
EER	kW / kW	3.29			3.12				
	kW	138.3			142.3				
Cooling capacity	*3	kW							
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	68			68			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUCY-P400YKA (-BS)	PUCY-P400YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P400YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*2	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
				Inverter-control, Direct-driven by motor			Inverter scroll hermetic compressor		
	Compressor	Type x Quantity		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Motor output		kW	10.8	10.8	12.4	10.8	12.4	12.4	
Case heater		kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB./67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)



► Specifications

Model			PUCY-P1350YSKA (-BS)			PUCY-P1400YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	144.0			152.0		
		kcal/h	123,800			130,700		
	*1	BTU / h	491,300			518,600		
		Power input	kW	48.39			52.59	
		Current input	A	81.6-77.6-74.8			88.7-84.3-81.2	
	EER	kW / kW	2.97			2.89		
Cooling capacity	*3	kW	146.4			154.5		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50			P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	68			68.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P450YKA (-BS)	PUCY-P500YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	175	175	175	175	175	320
		L/s	2,917	2,917	2,917	2,917	2,917	5,333
		cfm	6,179	6,179	6,179	6,179	6,179	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
	*2 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	12.4	12.4	12.4	12.4	12.4	14.3
	Case heater	kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)
Net weight	kg (lbs)		237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	305 (673)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-P YSKA(-BS)



► Specifications

Model			PUCY-P1450YSKA (-BS)			PUCY-P1500YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	160.0			168.0			
		kcal/h	137,600			144,500			
	*1	BTU / h	545,900			573,200			
		Power input	kW	56.53			60.64		
		Current input	A	95.4-90.6-87.3			102.3-97.2-93.7		
		EER	kW / kW	2.83			2.77		
Cooling capacity		*3	kW	162.7			170.8		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	69.5			70			
Refrigerant piping diameter		Liquid pipe mm (in.)	19.05 (3/4) Braze			19.05 (3/4) Braze			
		Gas pipe mm (in.)	41.28 (1-5/8) Braze			41.28 (1-5/8) Braze			
Set Model									
Model			PUCY-P450YKA (-BS)	PUCY-P500YKA (-BS)	PUCY-P500YKA (-BS)	PUCY-P500YKA (-BS)	PUCY-P500YKA (-BS)	PUCY-P500YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	175	320	320	320	320	320	
		L/s	2,917	5,333	5,333	5,333	5,333	5,333	
		cfm	6,179	11,299	11,299	11,299	11,299	11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	
	*2	External static press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
	Compressor	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
		Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Motor output	kW	12.4	14.3	14.3	14.3	14.3	14.3
Case heater		kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection devices	High pressure protection Inverter circuit (COMP/FAN)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
			Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	
Net weight	kg (lbs)		237 (523)	305 (673)	305 (673)	305 (673)	305 (673)	305 (673)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-EP YSKA(-BS)



► Specifications

Model			PUCY-EP400YSKA (-BS)		PUCY-EP450YSKA (-BS)		PUCY-EP500YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	44.8		50.4		56.0			
		kcal/h	38,500		43,300		48,200			
	*1	BTU / h	152,900		172,000		191,100			
		Power input kW	11.18		12.59		14.16			
		Current input A	18.8-17.9-17.2		21.2-20.1-19.4		23.9-22.7-21.8			
	EER	kW / kW	4.00		4.00		3.95			
Cooling capacity	*3	kW	45.5		51.2		56.9			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43			
Sound pressure level (measured in anechoic room)		dB <A>	60		60.5		61			
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed			
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed			
Set Model										
Model			PUCY-P200YKA (-BS)	PUCY-P200YKA (-BS)	PUCY-P200YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P250YKA (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	175		175		175		175	
		L/s	2,917		2,917		2,917		2,917	
		cfm	6,179		6,179		6,179		6,179	
		Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Compressor	*2	Motor output	kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1	
		External static press.	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		Inverter	
	Motor output		kW 5.5		kW 5.5		kW 6.9		kW 6.9	
Case heater			kW —		kW —		kW —			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740	
		in.	65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 5.5 kg (13 lbs) R410A x 5.5 kg (13 lbs)		R410A x 5.5 kg (13 lbs) R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs) R410A x 6.5 kg (15 lbs)			
Net weight	kg (lbs)		174 (384) 174 (384)		174 (384) 183 (404)		183 (404) 183 (404)			
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed 9.52 (3/8) Brazed		9.52 (3/8) Brazed 9.52 (3/8) Brazed		9.52 (3/8) Brazed 9.52 (3/8) Brazed			
	Gas pipe	mm (in.)	22.2 (7/8) Brazed 22.2 (7/8) Brazed		22.2 (7/8) Brazed 22.2 (7/8) Brazed		22.2 (7/8) Brazed 22.2 (7/8) Brazed			
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB./67°FWB.), Outdoor: 35°CDB. (95°FDB.).

*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-EP YSKA(-BS)



► Specifications

Model			PUCY-EP650YSKA (-BS)		PUCY-EP700YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	73.5		80.0		
		kcal/h	63,200		68,800		
	*1	BTU / h	250,800		273,000		
		Power input kW	19.74		21.56		
		Current input A	33.3-31.6-30.5		36.3-34.5-33.3		
	EER	kW / kW	3.72		3.71		
Cooling capacity	*3	kW	74.7		81.3		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	10.0~52.0°C (50~126°F)		10.0~52.0°C (50~126°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	64		64		
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed		
Set Model							
Model			PUCY-P300YKA (-BS)		PUCY-P350YKA (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	175		175		
		L/s	2,917		2,917		
		cfm	6,179		6,179		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1		0.92 x 1		
	*2	External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
		Compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
Compressor	Type x Quantity		Inverter		Inverter		
	Starting method		Inverter		Inverter		
	Motor output	kW	8.1		10.4		
	Case heater	kW	—		—		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 1,220 x 740		
		in.	65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 11.5 kg (26 lbs)		
Net weight	kg (lbs)		201 (444)		237 (523)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-EP YSKA(-BS)



► Specifications

Model			PUCY-EP750YSKA (-BS)			PUCY-EP800YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	84.8			90.4			
		kcal/h	72,900			77,700			
	*1	BTU / h	289,300			308,400			
		Power input	kW	21.85			23.33		
		Current input	A	36.8-35.0-33.7			39.3-37.4-36.0		
	EER	kW / kW	3.88			3.87			
Cooling capacity		*3	kW	86.2			91.9		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	64			64			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed			34.93 (1-3/8) Brazed			
Set Model									
Model			PUCY-P200YKA (-BS)	PUCY-P200YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P200YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P350YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	175		175		175		
		L/s	2,917		2,917		2,917		
		cfm	6,179		6,179		6,179		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1		
	*2 External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
	Compressor	Type x Quantity		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
		Starting method		Inverter		Inverter		Inverter	
		Motor output	kW	5.5		10.4		5.5	
Case heater		kW	—		—		—		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		
		in.	65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 36-1/4 x 29-3/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
		Inverter circuit (COMP./FAN) Over-heat protection, Over-current protection							
Refrigerant	Type x original charge	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 5.5 kg (13 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)		
Net weight	kg (lbs)	174 (384)	174 (384)	237 (523)	174 (384)	183 (404)	237 (523)		
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed		9.52 (3/8) Brazed		
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		22.2 (7/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°CDB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-EP YSKA(-BS)



► Specifications

Model			PUCY-EP850YSKA (-BS)			PUCY-EP900YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	96.0			101.5			
		kcal/h	82,600			87,300			
	*1	BTU / h	327,600			346,300			
		Power input kW	24.80			26.71			
		Current input A	41.8-39.7-38.3			45.0-42.8-41.2			
EER	kW / kW	3.87			3.80				
	kW	97.6			103.2				
Cooling capacity	*3	kW							
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	64			65			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUCY-P250YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P350YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*2	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
		Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Motor output	kW	6.9	6.9	10.4	6.9	8.1	10.4
Case heater		kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection							
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		183 (404)	183 (404)	237 (523)	183 (404)	201 (444)	237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - Cooling-only

PUCY-EP YSKA(-BS)



► Specifications

Model			PUCY-EP950YSKA (-BS)			PUCY-EP1000YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1	kW	107.0			113.5			
		kcal/h	92,000			97,600			
	*1	BTU / h	365,100			387,300			
		Power input kW	28.68			30.51			
		Current input A	48.4-45.9-44.3			51.5-48.9-47.1			
	EER	kW / kW	3.73			3.72			
Cooling capacity	*3	kW	108.8			115.4			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66			66			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUCY-P300YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P350YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*2	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
				Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Compressor	Type x Quantity		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Starting method							
Motor output		kW	8.1	8.1	10.4	8.1	10.4	10.4	
Case heater		kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		201 (444)	201 (444)	237 (523)	201 (444)	237 (523)	237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor Unit

OUTDOOR UNIT

Y Series - Cooling-only

PUCY-EP YSKA(-BS)

► Specifications



Model			PUCY-EP1050YSKA (-BS)			PUCY-EP1100YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	120.0			124.0			
		kcal/h	103,200			106,600			
	*1	BTU / h	409,400			423,100			
		Power input kW	32.34			34.25			
		Current input	A	54.5-51.8-49.9			57.8-54.9-52.9		
	EER	kW / kW	3.71			3.62			
Cooling capacity	*3	kW	122.0			126.1			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	10.0~52.0°C (50~126°F)			10.0~52.0°C (50~126°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66			67			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUCY-P350YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P350YKA (-BS)	PUCY-P400YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*2	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
		Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Motor output	kW	10.4	10.4	10.4	10.4	10.4	10.8
Case heater		kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
		Inverter circuit (COMP/FAN)	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*3 Reference data under condition of Indoor: 27°C DB/19.5°CWB. (81°FDB/67°FWB.), Outdoor: 35°CDB. (95°FDB.)

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

S Series

PUMY-P VKM(-BS)



► Specifications

Model			PUMY-P112VKM(-BS)	PUMY-P125VKM(-BS)	PUMY-P140VKM(-BS)
Power source			1-phase 220-240V 50Hz	1-phase 220-240V 50Hz	1-phase 220-240V 50Hz
Cooling capacity (Nominal)	*1	kW	12.5	14.0	15.5
		BTU / h	42,700	47,800	52,900
	Power input	kW	2.79	3.46	4.52
	Current input	A	12.87-12.32-11.80	15.97-15.27-14.64	20.86-19.95-19.12
	EER	kW / kW	4.48	4.05	3.43
Temp. range of cooling	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity (Nominal)	*2	kW	14.0	16.0	18.0
		BTU / h	47,800	54,600	61,400
	Power input	kW	3.04	3.74	4.47
	Current input	A	14.03-13.42-12.86	17.26-16.51-15.82	20.63-19.73-18.91
	COP	kW / kW	4.61	4.28	4.03
Temp. range of heating	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
	Outdoor temp.	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit connectable	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
	Model / Quantity		P15~P140 / 9	P15~P140 / 10	P15~P140 / 12
Sound pressure level (measured in anechoic room)		dB <A>	49 / 51	50 / 52	51 / 53
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	110	110	110
		L/s	1,833	1,833	1,833
		cfm	3,884	3,884	3,884
	Motor output	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter
	Motor output		kW	2.9	3.5
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimension HxWxD		mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection devices	High pressure protection		High pressure Switch	High pressure Switch	High pressure Switch
	Inverter circuit (COMP/FAN)		Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant		Type x original charge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight		kg (lbs)	123(272)	123(272)	123(272)
Heat exchanger			Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube
Defrosting method			Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E
			Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*Nominal condition *1,*2 are subject to ISO 15042.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

S Series

PUMY-P YKM(-BS)



► Specifications

Model			PUMY-P112YKM(-BS)	PUMY-P125YKM(-BS)	PUMY-P140YKM(-BS)
Power source			3-phase 380-415V 50Hz	3-phase 380-415V 50Hz	3-phase 380-415V 50Hz
Cooling capacity (Nominal)	*1	kW	12.5	14.0	15.5
	*1	BTU / h	42,700	47,800	52,900
	Power input	kW	2.79	3.46	4.52
	Current input	A	4.46-4.24-4.09	5.53-5.26-5.07	7.23-6.87-6.62
	EER	kW / kW	4.48	4.05	3.43
Temp. range of cooling	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity (Nominal)	*2	kW	14.0	16.0	18.0
	*2	BTU / h	47,800	54,600	61,400
	Power input	kW	3.04	3.74	4.47
	Current input	A	4.86-4.62-4.45	5.98-5.68-5.48	7.15-6.79-6.55
	COP	kW / kW	4.61	4.28	4.03
Temp. range of heating	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
	Outdoor temp.	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit connectable	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
	Model / Quantity		P15~P140 / 9	P15~P140 / 10	P15~P140 / 12
Sound pressure level (measured in anechoic room)		dB <A>	49 / 51	50 / 52	51 / 53
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	Gas pipe	mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	110	110	110
		L/s	1,833	1,833	1,833
		cfm	3,884	3,884	3,884
		Motor output	kW	0.06 + 0.06	0.06 + 0.06
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	2.9	3.5	3.9
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimension HxWxD		mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection devices	High pressure protection		High pressure Switch	High pressure Switch	High pressure Switch
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original charge		R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight	kg (lbs)		125(276)	125(276)	125(276)
Heat exchanger			Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube
Defrosting method			Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-F	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-F	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-F

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*Nominal condition *1,*2 are subject to ISO 15042.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

S Series

PUMY-P YKM

► Specifications



Model			PUMY-P175YKM	PUMY-P200YKM	PUMY-P225YKM
Power source			3-phase 380-415V 50Hz	3-phase 380-415V 50Hz	3-phase 380-415V 50Hz
Cooling capacity (Nominal)	*1	kW	20.0	22.4	25.0
	*1	BTU / h	68,200	76,400	85,300
	Power input	kW	5.48	6.91	9.62
	Current input	A	8.95-8.51-8.20	11.29-10.72-10.34	15.72-14.93-14.39
	EER	kW / kW	3.65	3.24	2.60
Temp. range of cooling	Indoor temp.	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
	Outdoor temp.	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity (Nominal)	*2	kW	22.4	25.0	27.3
	*2	BTU / h	76,400	85,300	93,200
	Power input	kW	5.73	6.96	7.65
	Current input	A	9.36-8.89-8.57	11.37-10.80-10.41	12.50-11.87-11.44
	COP	kW / kW	3.91	3.59	3.57
Temp. range of heating	Indoor temp.	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
	Outdoor temp.	W.B.	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)
Indoor unit connectable	Total capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
	Model / Quantity		P15~P224 / 12	P15~P250 / 12	P15~P250 / 12
Sound pressure level (measured in anechoic room)		dB <A>	56/ 61	56 / 61	58 / 63
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52(3/8) Flare *3	9.52(3/8) Flare *3	9.52(3/8) Flare *3
	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
FAN	Type x Quantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow rate	m³/min	134	134	143.8
		L/s	2,233	2,233	2,397
		cfm	4,732	4,732	5,078
	Motor output	kW	0.2 + 0.2	0.2 + 0.2	0.2 + 0.2
Compressor	Type x Quantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter
	Motor output		4.7	5.4	6.0
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimension HxWxD		mm	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
		in.	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection devices	High pressure protection		High pressure Switch	High pressure Switch	High pressure Switch
	Inverter circuit (COMPR/FAN)		Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compressor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original charge		R410A 7.3kg	R410A 7.3kg	R410A 7.3kg
Net weight		kg (lbs)	138(304)	138(304)	138(304)
Heat exchanger			Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube
Defrosting method			Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts			Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*Nominal condition *1,*2 are subject to ISO 15042.

*Due to continuing improvement, above specification may be subject to change without notice.

*3 Liquid pipe diameter:12.7mm in case of farthest piping length is longer than 60m.



Outdoor Unit

OUTDOOR UNIT

Y Series

PUHY-P YKA(-BS)

► Specifications



Model			PUHY-P200YKA (-BS)	PUHY-P250YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5	40.0
		kcal/h	20,000	25,000	30,000	35,000
	*1	BTU / h	76,400	95,500	114,300	136,500
		kW	5.19	6.89	8.86	11.69
	Power input	kW	5.19	6.89	8.86	11.69
Current input	A	8.7-8.3-8.0	11.6-11.0-10.6	14.9-14.2-13.6	19.7-18.7-18.0	
EER	kW / kW	4.31	4.06	3.78	3.42	
Cooling capacity	*4	kW	22.7	28.4	34.0	40.6
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating capacity (Nominal)	*2	kW	22.4	28.0	33.5	40.0
		kcal/h	20,000	25,000	30,000	35,000
	*2	BTU / h	76,400	95,500	114,300	136,500
		kW	5.05	6.33	8.11	9.61
	Power input	kW	5.05	6.33	8.11	9.61
Current input	A	8.5-8.0-7.8	10.6-10.1-9.7	13.6-13.0-12.5	16.2-15.4-14.8	
COP	kW / kW	4.43	4.42	4.13	4.16	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity	P15~P250/1~17		P15~P250/1~21	P15~P250/1~26	P15~P250/1~30
Sound pressure level (measured in anechoic room)	dB <A>	57		58	61	61
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	175	175	185	210
		L/s	2,917	2,917	3,083	3,500
		cfm	6,179	6,179	6,532	7,415
	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
*3	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method	Inverter		Inverter	Inverter	Inverter
	Motor output	kW	5.5	6.9	8.1	10.4
	Case heater	kW	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD	mm	1,650 x 920 x 740		1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740
	in.	65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
Refrigerant	Type x original charge	R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)
Net weight	kg (lbs)	195 (430)		195 (430)	211 (466)	256 (565)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series

PUHY-P YKA(-BS)



► Specifications

Model			PUHY-P400YKA (-BS)		PUHY-P450YKA (-BS)		PUHY-P500YKA (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	45.0		48.0		55.0	
		kcal/h	40,000		43,000		49,000	
	*1	BTU / h	153,500		163,800		187,700	
		Power input	kW	13.55		15.78		18.39
		Current input	A	22.8-21.7-20.9		26.6-25.3-24.3		31.0-29.4-28.4
	EER	kW / kW	3.32		3.04		2.99	
Cooling capacity	*4	kW	45.9		49.0		56.2	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)	
Heating capacity (Nominal)	*2	kW	45.0		48.0		55.0	
		kcal/h	40,000		43,000		49,000	
	*2	BTU / h	153,500		163,800		187,700	
		Power input	kW	10.92		13.33		15.71
		Current input	A	18.4-17.5-16.8		22.5-21.3-20.6		26.5-25.1-24.2
	COP	kW / kW	4.12		3.60		3.50	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity	P15~P250/1~34		P15~P250/1~39		P15~P250/1~43		
Sound pressure level (measured in anechoic room)	dB <A>	63		63		65		
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 2	
	Air flow rate	m³/min	210		210		360	
		L/s	3,500		3,500		6,000	
		cfm	7,415		7,415		12,712	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*3	Motor output	0.92 x 1		0.92 x 1		0.92 x 2	
		External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter	
	Motor output		10.8		12.4		13.3	
	Case heater		—		—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,650 x 1,220 x 740		1,650 x 1,220 x 740		1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 11.8 kg (27 lbs)	
Net weight	kg (lbs)		253 (558)		253 (558)		288 (635)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P550YSKA (-BS)		PUHY-P600YSKA (-BS)		PUHY-P650YSKA (-BS)									
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz									
Cooling capacity (Nominal)	*1	kW	63.0		68.0		73.0									
		kcal/h	55,000		60,000		65,000									
	*1	BTU / h	215,000		232,000		249,100									
		Power input kW	16.07		18.18		19.78									
	Current input	A	27.1-25.7-24.8		30.6-29.1-28.1		33.3-31.7-30.5									
EER		kW / kW	3.92		3.74		3.69									
Cooling capacity			*4	kW	63.9		74.5									
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)									
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)									
Heating capacity (Nominal)	*2	kW	63.0		68.0		73.0									
		kcal/h	55,000		60,000		65,000									
	*2	BTU / h	215,000		232,000		249,100									
		Power input kW	15.51		16.70		18.02									
	Current input	A	26.1-24.8-23.9		28.1-27.6-25.8		30.4-28.8-27.8									
COP		kW / kW	4.06		4.07		4.05									
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)									
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)									
Indoor unit connectable			Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity									
			Model / Quantity		P15~P250/2~47		P15~P250/2~50									
Sound pressure level (measured in anechoic room)		dB <A>	63		63		64.5									
Refrigerant piping diameter		Liquid pipe mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed									
		Gas pipe mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed									
Set Model																
Model			PUHY-P250YKA (-BS)		PUHY-P300YKA (-BS)		PUHY-P250YKA (-BS)		PUHY-P350YKA (-BS)		PUHY-P250YKA (-BS)		PUHY-P400YKA (-BS)			
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1			
	Air flow rate	m³/min	175		185		175		210		175		210			
		L/s	2,917		3,083		2,917		3,500		2,917		3,500			
		cfm	6,179		6,532		6,179		7,415		6,179		7,415			
	Control, Driving mechanism		Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor					
*3	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1			
	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)			
	Type x Quantity		Inverter scroll hermetic compressor				Inverter scroll hermetic compressor				Inverter scroll hermetic compressor					
Compressor	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter		Inverter			
	Motor output	kW	6.9		8.1		6.9		10.4		6.9		10.8			
	Case heater	kW	—		—		—		—		—		—			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 1,220 x 740		1,650 x 920 x 740		1,650 x 1,220 x 740			
		in.	65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				Over-heat protection, Over-current protection					
Refrigerant			Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 11.5 kg (26 lbs)			
Net weight			kg (lbs)		195 (430)		211 (466)		195 (430)		256 (565)		195 (430)		253 (558)	
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube					
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		12.7 (1/2) Brazed		9.52 (3/8) Brazed		12.7 (1/2) Brazed		9.52 (3/8) Brazed		15.88 (5/8) Brazed			
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed			
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P700YSKA (-BS)		PUHY-P750YSKA (-BS)		PUHY-P800YSKA (-BS)							
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz							
Cooling capacity (Nominal)	*1	kW	76.0		81.5		90.0							
		kcal/h	68,000		73,000		80,000							
		BTU / h	259,300		278,100		307,100							
	Power input	kW	21.40		23.90		27.10							
	Current input	A	36.1-34.3-33.0		40.3-38.3-36.9		45.7-43.4-41.8							
Cooling capacity	*4	EER	3.55		3.41		3.32							
		kW / kW	77.6		83.2		91.3							
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)							
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)							
Heating capacity (Nominal)	*2	kW	76.0		81.5		90.0							
		kcal/h	68,000		73,000		80,000							
		BTU / h	259,300		278,100		307,100							
	Power input	kW	20.00		22.20		23.01							
	Current input	A	33.7-32.0-30.9		37.4-35.6-34.3		38.8-36.9-35.5							
Temp. range of heating		COP	3.80		3.67		3.91							
	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)							
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)							
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity							
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50							
Sound pressure level (measured in anechoic room)		dB <A>	64.5		65.5		66							
Refrigerant piping		mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed							
diameter		mm (in.)	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed							
Set Model														
Model			PUHY-P250YKA (-BS)		PUHY-P450YKA (-BS)		PUHY-P300YKA (-BS)		PUHY-P450YKA (-BS)		PUHY-P400YKA (-BS)		PUHY-P400YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	175		210		185		210		210		210	
			L/s	2,917		3,500		3,083		3,500		3,500		
		cfm	6,179		7,415		6,532		7,415		7,415		7,415	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Compressor	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1	
	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter		Inverter	
	Motor output	kW	6.9		12.4		8.1		12.4		10.8		10.8	
Case heater		kW	—		—		—		—		—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 1,220 x 740		1,650 x 920 x 740		1,650 x 1,220 x 740		1,650 x 1,220 x 740		1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	195 (430)		253 (558)		211 (466)		253 (558)		253 (558)		253 (558)	
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		15.88 (5/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P850YSKA (-BS)		PUHY-P900YSKA (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	93.0		96.0	
		kcal/h	83,000		86,000	
	*1	BTU / h	317,300		327,600	
		Power input	kW	29.24		31.57
		Current input	A	49.3-46.8-45.1		53.2-50.6-48.8
EER		kW / kW	3.18		3.04	
Cooling capacity		*4	94.4		97.4	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)	
Heating capacity (Nominal)	*2	kW	93.0		96.0	
		kcal/h	83,000		86,000	
	*2	BTU / h	317,300		327,600	
		Power input	kW	25.40		28.07
		Current input	A	42.8-40.7-39.2		47.3-45.0-43.3
COP		kW / kW	3.66		3.42	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	66		66	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed	
Set Model						
Model			PUHY-P400YKA (-BS)		PUHY-P450YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	210		210	
		L/s	3,500		3,500	
		cfm	7,415		7,415	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 1	
	*3	External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output	kW	10.8		12.4	
	Case heater	kW	—		—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,650 x 1,220 x 740		1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16		65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection Inverter circuit (COMP./FAN)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection	
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)		R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		253 (558)		253 (558)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P950YSKA (-BS)		PUHY-P1000YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	103.0		110.0		
		kcal/h	89,000		98,000		
	*1	BTU / h	351,400		375,300		
		Power input kW	34.21		36.78		
		Current input A	57.7-54.8-52.8		62.0-58.9-56.8		
EER			kW / kW		3.01 2.99		
Cooling capacity			*4 kW		105.2 112.3		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	103.0		110.0		
		kcal/h	89,000		98,000		
	*2	BTU / h	351,400		375,300		
		Power input kW	30.56		33.13		
		Current input A	51.5-49.0-47.2		55.9-53.1-51.2		
COP			kW / kW		3.37 3.32		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	67.5		68		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		
Set Model							
Model			PUHY-P450YKA (-BS)		PUHY-P500YKA (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		
	Air flow rate	m³/min L/s cfm	210 3,500 7,415		360 6,000 12,712		
			Control, Driving mechanism		Inverter-control, Direct-driven by motor		
			Motor output kW	0.92 x 1		0.92 x 2	
	*3	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
		Compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
		Starting method	Inverter		Inverter		
	Motor output kW	12.4		13.3			
	Case heater kW	—		—			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 1,220 x 740		1,650 x 1,750 x 740		
		in.	65 x 48-1/16 x 29-3/16		65 x 68-15/16 x 29-3/16		
Protection devices	High pressure protection Inverter circuit (COMP./FAN)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)		R410A x 11.8 kg (27 lbs)		
Net weight	kg (lbs)		253 (558)		288 (635)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P1050YSKA (-BS)			PUHY-P1100YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	115.0			121.5		
		kcal/h	103,000			108,000		
	*1	BTU / h	392,400			414,600		
		Power input	kW	32.57			35.63	
	Current input	A	54.9-52.2-50.3			60.1-57.1-55.0		
EER		kW / kW	3.53			3.41		
Cooling capacity		*4 kW	117.4			124.1		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	115.0			121.5		
		kcal/h	103,000			108,000		
	*2	BTU / h	392,400			414,600		
		Power input	kW	31.50			33.80	
	Current input	A	53.1-50.5-48.6			57.0-54.2-52.2		
COP		kW / kW	3.65			3.59		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66.5			66.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P300YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P450YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	210	185	210	210
		L/s	3,083	3,083	3,500	3,083	3,500	3,500
		cfm	6,532	6,532	7,415	6,532	7,415	7,415
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	*3 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type x Quantity	Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	8.1	12.4	8.1	10.4	12.4
	Case heater	kW	—	—	—	—	—	—
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)	211 (466)	211 (466)	253 (558)	211 (466)	256 (565)	253 (558)	
Heat exchanger		Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P1150YSKA (-BS)			PUHY-P1200YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	130.0			135.0			
		kcal/h	115,000			120,000			
		*1 BTU / h	443,600			460,600			
	Power input	kW	38.80			40.66			
	Current input	A	65.5-62.2-59.9			68.6-65.2-62.8			
	EER	kW / kW	3.35			3.32			
Cooling capacity		*4	kW	132.7			137.8		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)			
Heating capacity (Nominal)	*2	kW	130.0			135.0			
		kcal/h	115,000			120,000			
		*2 BTU / h	443,600			460,600			
	Power input	kW	35.51			37.70			
	Current input	A	59.9-56.9-54.8			63.6-60.4-58.2			
	COP	kW / kW	3.66			3.58			
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)			
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	67.5			68			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUHY-P350YKA (-BS)	PUHY-P400YKA (-BS)	PUHY-P400YKA (-BS)	PUHY-P400YKA (-BS)	PUHY-P400YKA (-BS)	PUHY-P400YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	210	210	210	210	210	210	
		L/s	3,500	3,500	3,500	3,500	3,500	3,500	
		cfm	7,415	7,415	7,415	7,415	7,415	7,415	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
	*3 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.4	10.8	10.8	10.8	10.8	10.8	
	Case heater	kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD	mm		1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
	in.		65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight	kg (lbs)		256 (565)	253 (558)	253 (558)	253 (558)	253 (558)	253 (558)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)

► Specifications



Model			PUHY-P1250YSKA (-BS)			PUHY-P1300YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	138.0			141.0		
		kcal/h	123,000			126,000		
	*1	BTU / h	470,900			481,100		
		Power input	kW	43.12			45.77	
		Current input	A	72.7-69.1-66.6			77.2-73.4-70.7	
EER			3.20			3.08		
Cooling capacity			140.9			144.0		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	138.0			141.0		
		kcal/h	123,000			126,000		
	*2	BTU / h	470,900			481,100		
		Power input	kW	40.35			42.98	
		Current input	A	68.1-64.7-62.3			72.5-68.9-66.4	
COP			3.42			3.28		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50			P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	68			68		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P400YKA (-BS)	PUHY-P400YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P400YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P450YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	210	210	210	210	210	210
		L/s	3,500	3,500	3,500	3,500	3,500	3,500
		cfm	7,415	7,415	7,415	7,415	7,415	7,415
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	*3 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Compressor	Type x Quantity		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor	
Starting method			Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Motor output		kW	10.8	10.8	12.4	10.8	12.4	12.4
Case heater		kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight		kg (lbs)	253 (558)	253 (558)	253 (558)	253 (558)	253 (558)	253 (558)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P1350YSKA (-BS)			PUHY-P1400YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	144.0			151.0		
		kcal/h	129,000			135,000		
	*1	BTU / h	491,300			515,200		
		Power input	kW	48.64			52.24	
		Current input	A	82.1-78.0-75.1			88.1-83.7-80.7	
EER			2.96			2.89		
Cooling capacity			147.0			154.2		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	144.0			151.0		
		kcal/h	129,000			135,000		
	*2	BTU / h	491,300			515,200		
		Power input	kW	46.15			49.50	
		Current input	A	77.9-74.0-71.3			83.5-79.3-76.5	
COP			3.12			3.05		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50			P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	68			68.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P450YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P450YKA (-BS)	PUHY-P500YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	210	210	210	360
		L/s	3,500	3,500	3,500	3,500	3,500	6,000
		cfm	7,415	7,415	7,415	7,415	7,415	12,712
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2
	*3	External static press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
		Compressor		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	12.4	12.4	12.4	12.4	12.4	13.3
	Case heater	kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant			R410A x 11.5 kg (26 lbs)			R410A x 11.5 kg (26 lbs)		
Net weight			253 (558)	253 (558)	253 (558)	253 (558)	253 (558)	288 (635)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series

PUHY-P YSKA(-BS)



► Specifications

Model			PUHY-P1450YSKA (-BS)			PUHY-P1500YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	158.0			165.0		
		kcal/h	141,000			147,000		
	*1	BTU / h	539,100			563,000		
		Power input	kW	55.83			59.56	
	Current input	A	94.2-89.5-86.3			100.5-95.5-92.0		
EER		kW / kW	2.83			2.77		
Cooling capacity		*4 kW	161.3			168.5		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	158.0			165.0		
		kcal/h	141,000			147,000		
	*2	BTU / h	539,100			563,000		
		Power input	kW	52.49			56.12	
	Current input	A	88.6-84.1-81.1			94.7-90.0-86.7		
COP		kW / kW	3.01			2.94		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	69.5			70		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P450YKA (-BS)	PUHY-P500YKA (-BS)	PUHY-P500YKA (-BS)	PUHY-P500YKA (-BS)	PUHY-P500YKA (-BS)	PUHY-P500YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	210	360	360	360	360	360
		L/s	3,500	6,000	6,000	6,000	6,000	6,000
		cfm	7,415	12,712	12,712	12,712	12,712	12,712
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
	*3 External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
	Compressor		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	12.4	13.3	13.3	13.3	13.3	13.3
Case heater	kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD	mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
	in.	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	
Net weight	kg (lbs)	253 (558)	288 (635)	288 (635)	288 (635)	288 (635)	288 (635)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - High COP

PUHY-EP YSKA(-BS)



► Specifications

Model			PUHY-EP400YSKA (-BS)		PUHY-EP450YSKA (-BS)		PUHY-EP500YSKA (-BS)							
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz							
Cooling capacity (Nominal)	*1	kW	44.8		50.4		56.0							
		kcal/h	40,000		45,000		50,000							
	*1	BTU / h	152,900		172,000		191,100							
		kW	10.39		12.05		13.79							
	Power input	A	17.5-16.6-16.0		20.3-19.3-18.6		23.2-22.1-21.3							
	EER	kW / kW	4.31		4.18		4.06							
Cooling capacity	*4	kW	45.4		51.1		56.8							
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)							
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)							
Heating capacity (Nominal)	*2	kW	44.8		50.4		56.0							
		kcal/h	40,000		45,000		50,000							
	*2	BTU / h	152,900		172,000		191,100							
		kW	10.66		12.00		13.36							
	Power input	A	17.9-17.0-16.4		20.2-19.2-18.5		22.5-21.4-20.6							
	COP	kW / kW	4.20		4.20		4.19							
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)							
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)							
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity								
	Model / Quantity	P15~P250/1~34		P15~P250/1~39		P15~P250/1~43								
Sound pressure level (measured in anechoic room)		dB <A>	60		60.5		61							
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed							
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed							
Set Model														
Model			PUHY-P200YKA (-BS)		PUHY-P200YKA (-BS)		PUHY-P200YKA (-BS)		PUHY-P250YKA (-BS)		PUHY-P250YKA (-BS)			
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1			
	Air flow rate	m³/min	175		175		175		175		175			
		L/s	2,917		2,917		2,917		2,917		2,917			
		cfm	6,179		6,179		6,179		6,179		6,179			
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor			
Compressor	*3	Motor output	kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1		kW 0.92 x 1			
	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)			
	Type x Quantity		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter			
	Motor output	kW	5.5		5.5		6.9		6.9		6.9			
	Case heater	kW	—		—		—		—		—			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD			mm	1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		1,650 x 920 x 740		
			in.	65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		65 x 36-1/4 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)			
Net weight		kg (lbs)	195 (430)		195 (430)		195 (430)		195 (430)		195 (430)			
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube			
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed		9.52 (3/8) Brazed		9.52 (3/8) Brazed		9.52 (3/8) Brazed			
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed			
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series - High COP

PUHY-EP YSKA(-BS)



► Specifications

Model			PUHY-EP650YSKA (-BS)		PUHY-EP700YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	73.5		80.0		
		kcal/h	65,000		70,000		
	*1	BTU / h	250,800		273,000		
		Power input	kW	20.41		23.39	
		Current input	A	34.4-32.7-31.5		39.4-37.5-36.1	
	EER	kW / kW	3.60		3.42		
Cooling capacity	*4	kW	75.0		81.2		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)		-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	73.5		80.0		
		kcal/h	65,000		70,000		
	*2	BTU / h	250,800		273,000		
		Power input	kW	18.70		20.25	
		Current input	A	31.5-29.9-28.9		34.1-32.4-31.3	
	COP	kW / kW	3.93		3.95		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	64		64		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed		
Set Model							
Model			PUHY-P300YKA (-BS)		PUHY-P350YKA (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	185		210		
		L/s	3,083		3,500		
		cfm	6,532		7,415		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*3	Motor output	kW	0.92 x 1		0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
		Compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Compressor	Starting method		Inverter		Inverter	
		Motor output	kW	8.1		10.4	
Case heater		kW	—		—		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 920 x 740		1,650 x 1,220 x 740		
		in.	65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
Refrigerant	Type x original charge	R410A x 8.0 kg (18 lbs)		R410A x 11.5 kg (26 lbs)			
Net weight	kg (lbs)	211 (466)		256 (565)			
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - High COP

PUHY-EP YSKA(-BS)



► Specifications

Model			PUHY-EP750YSKA (-BS)			PUHY-EP800YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	84.8			90.4			
		kcal/h	75,000			80,000			
	*1	BTU / h	289,300			308,400			
		Power input	kW	21.14			23.00		
		Current input	A	35.6-33.9-32.6			38.8-36.8-35.5		
Cooling capacity (Nominal)	*4	kW / kW	4.01			3.93			
		EER	86.6			92.3			
	Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
		Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
	Heating capacity (Nominal)	*2	kW	84.8			90.4		
kcal/h			75,000			80,000			
*2		BTU / h	289,300			308,400			
		Power input	kW	20.58			21.99		
		Current input	A	34.7-33.0-31.8			37.1-35.2-33.9		
Temp. range of heating	COP	kW / kW	4.12			4.11			
		Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)			
	Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
		Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	64			64			
Refrigerant piping diameter		Liquid pipe mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
		Gas pipe mm (in.)	34.93 (1-3/8) Brazed			34.93 (1-3/8) Brazed			
Set Model									
Model			PUHY-P200YKA (-BS)	PUHY-P200YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P200YKA (-BS)	PUHY-P250YKA (-BS)	PUHY-P350YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	210	175	175	210	
		L/s	2,917	2,917	3,500	2,917	2,917	3,500	
		cfm	6,179	6,179	7,415	6,179	6,179	7,415	
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor				
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
	*3	External static press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor				
Compressor	Type x Quantity		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.5	5.5	10.4	5.5	6.9	10.4	
	Case heater	kW	—	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	195 (430)	195 (430)	256 (565)	195 (430)	195 (430)	256 (565)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series - High COP

PUHY-EP YSKA(-BS)



► Specifications

Model			PUHY-EP850YSKA (-BS)			PUHY-EP900YSKA (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	96.0			101.5			
		kcal/h	85,000			90,000			
	*1	BTU / h	327,600			346,300			
		Power input	kW	25.00			27.06		
		Current input	A	42.2-40.0-38.6			45.6-43.3-41.8		
	EER	kW / kW	3.84			3.75			
Cooling capacity	*4	kW	98.0			103.6			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)			
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)			
Heating capacity (Nominal)	*2	kW	96.0			101.5			
		kcal/h	85,000			90,000			
	*2	BTU / h	327,600			346,300			
		Power input	kW	23.35			25.24		
		Current input	A	39.4-37.4-36.0			42.6-40.4-39.0		
	COP	kW / kW	4.11			4.02			
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)			
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)			
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity				
	Model / Quantity	P15~P250/2~50			P15~P250/2~50				
Sound pressure level (measured in anechoic room)	dB <A>	64			65				
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUHY-P250YKA (-BS)	PUHY-P250YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P250YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	210	175	185	210	
		L/s	2,917	2,917	3,500	2,917	3,083	3,500	
		cfm	6,179	6,179	7,415	6,179	6,532	7,415	
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor				
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
	*3 External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
	Compressor	Type x Quantity	Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
		Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Motor output	kW	6.9	6.9	10.4	6.9	8.1	10.4
Case heater		kW	—	—	—	—	—	—	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection				
Refrigerant	Type x original charge	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)		
Net weight		kg (lbs)	195 (430)	195 (430)	256 (565)	195 (430)	211 (466)	256 (565)	
Heat exchanger		Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube				
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT

Y Series - High COP

PUHY-EP YSKA(-BS)



► Specifications

Model			PUHY-EP950YSKA (-BS)			PUHY-EP1000YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	107.0			113.5		
		kcal/h	95,000			100,000		
	*1	BTU / h	365,100			387,300		
		Power input	kW	29.23			32.06	
	Current input	A	49.3-46.8-45.1			54.1-51.4-49.5		
Cooling capacity	*4	kW / kW	3.66			3.54		
		kW	109.2			115.9		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	107.0			113.5		
		kcal/h	95,000			100,000		
	*2	BTU / h	365,100			387,300		
		Power input	kW	27.22			28.80	
	Current input	A	45.9-43.6-42.0			48.6-46.1-44.5		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66			66		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P300YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P350YKA (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	185	185	210	185	210	210
		L/s	3,083	3,083	3,500	3,083	3,500	3,500
		cfm	6,532	6,532	7,415	6,532	7,415	7,415
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	*3 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity	Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
Compressor	Motor output	kW	8.1	8.1	10.4	8.1	10.4	10.4
	Case heater	kW	—	—	—	—	—	—
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight	kg (lbs)		211 (466)	211 (466)	256 (565)	211 (466)	256 (565)	256 (565)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)

*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT

Y Series - High COP

PUHY-EP YSKA(-BS)



► Specifications

Model			PUHY-EP1050YSKA (-BS)			PUHY-EP1100YSKA (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	120.0			125.0		
		kcal/h	105,000			110,000		
	*1	BTU / h	409,400			426,500		
		Power input	kW	35.08			36.76	
		Current input	A	59.2-56.2-54.2			62.0-58.9-56.8	
	EER	kW / kW	3.42			3.40		
Cooling capacity	*4	kW	122.5			127.6		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity (Nominal)	*2	kW	120.0			125.0		
		kcal/h	105,000			110,000		
	*2	BTU / h	409,400			426,500		
		Power input	kW	31.25			33.24	
		Current input	A	52.7-50.1-48.3			56.1-53.3-51.3	
	COP	kW / kW	3.84			3.76		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)			-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/2~50			P15~P250/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	66			67		
Refrigerant piping diameter		mm (in.)	19.05 (3/4) Brazed			19.05 (3/4) Brazed		
Gas pipe		mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P350YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P400YKA (-BS)
FAN	Type x Quantity	Propeller fan x 1	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
		Air flow rate	m³/min	210	210	210	210	210
			L/s	3,500	3,500	3,500	3,500	3,500
			cfm	7,415	7,415	7,415	7,415	7,415
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*3	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
		External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor	
	Compressor	Type x Quantity		Inverter	Inverter	Inverter	Inverter	Inverter
		Starting method		Inverter	Inverter	Inverter	Inverter	Inverter
Motor output		kW	10.4	10.4	10.4	10.4	10.8	
Case heater		kW	—	—	—	—	—	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
		Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant	Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)
Net weight		kg (lbs)	256 (565)	256 (565)	256 (565)	256 (565)	256 (565)	253 (558)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*4 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB)


*Nominal condition *1,*2 are subject to JIS B8615-2.

*Due to continuing improvement, above specification may be subject to change without notice.








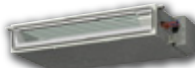













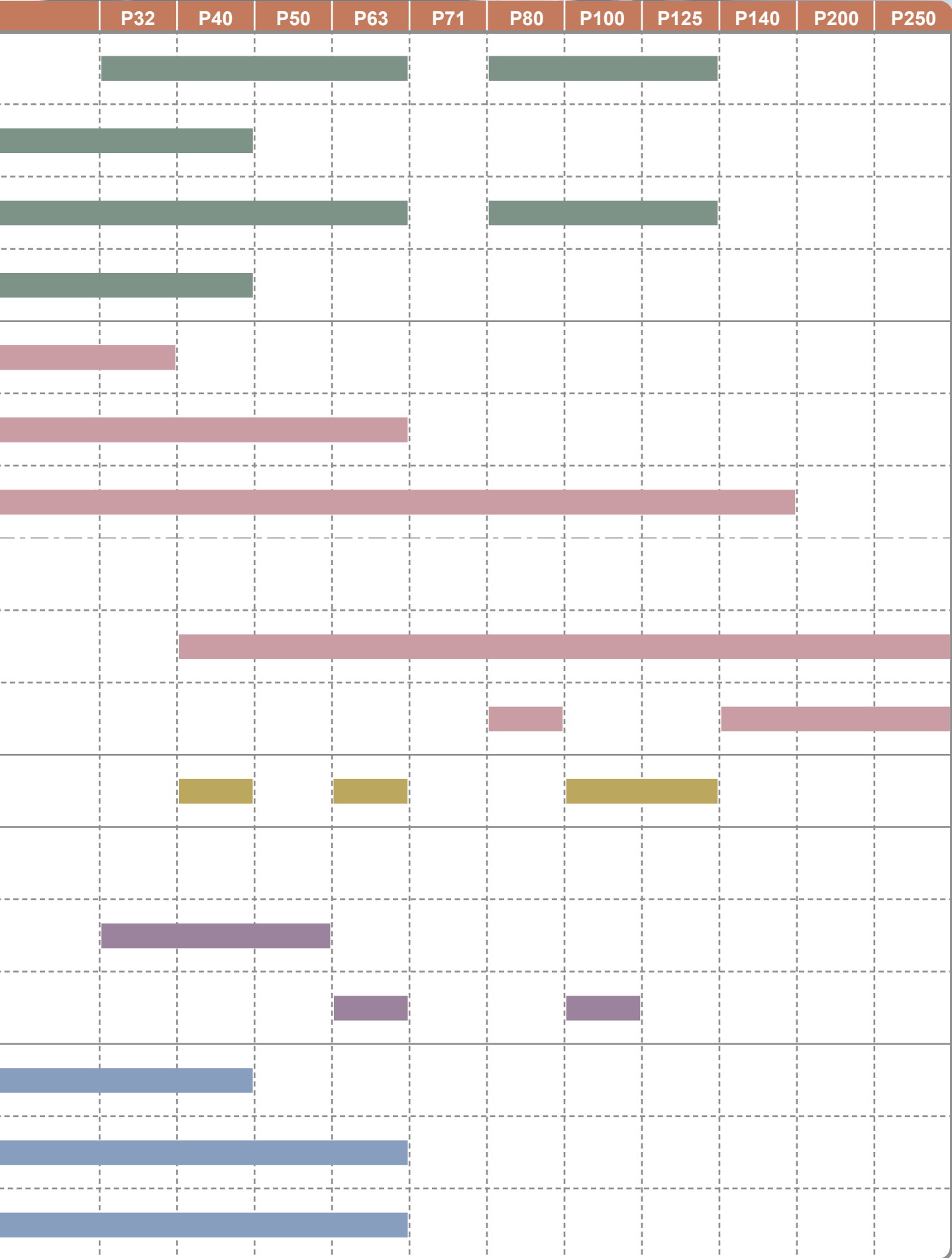
I ndoor Unit

- Ceiling cassette type 4-way airflow
- Ceiling cassette type 2-way airflow
- Ceiling cassette type 1-way airflow
- Ceiling concealed type
- Fresh Air Intake type
- Ceiling suspended type
- Wall mounted type
- Floor standing exposed
- Floor mounted concealed type
-  Logsnay
- OA Processing Units



Wide Selection of Indoor Units

Type		Model name	Model	P15	P20	P25	
Ceiling Cassette	4-way air flow	PLFY-P VBM-E <small>Page65 - Page66</small>					
		PLFY-P VCM-E2 <small>Page65 - Page66</small>					
	2-way air flow	PLFY-P VLMD-E <small>Page68 - Page69</small>					
	1-way air flow	PMFY-P VBM-E <small>Page70 - Page71</small>					
Ceiling Concealed		PEFY-P VMR-E-L/R <small>Page72 - Page73</small>					
		PEFY-P VMS1(L)-E <small>Page74 - Page75</small>					
		PEFY-P VMA(L)-E <small>Page76 - Page77</small>					
		PEFY-P VMA3-E <small>Page76 - Page77</small>					
		PEFY-P VMH(S)-E <small>Page78 - Page79</small>					
	Fresh Air Intake	PEFY-P VMH-E-F <small>Page80 - Page81</small>					
Ceiling Suspended		PCFY-P VKM-E <small>Page82 - Page83</small>					
Wall Mounted		PKFY-P VBM-E <small>Page84 - Page85</small>					
		PKFY-P VHM-E <small>Page84 - Page85</small>					
		PKFY-P VKM-E <small>Page84 - Page85</small>					
Floor Standing/ Floor Mounted Concealed		PFFY-P VKM-E2 <small>Page86 - Page87</small>					
		PFFY-P VLEM-E <small>Page88 - Page89</small>					
		PFFY-P VLRM-E PFFY-P VLRMM-E <small>Page90 - Page91</small>					



INDOOR UNIT

Ceiling cassette type

4-way airflow

PLFY-P VBM-E *i-see Sensor*
PLFY-P VCM-E2



PLFY-P VBM

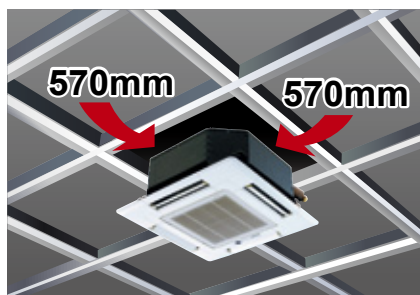


PLFY-P VCM

The new 4-way cassette VBM offers 72 different airflow patterns, making it ideal for applications with ceilings up to 4.2 m (13-13/16ft) in height.



Compact body to match with 2 feet (600mm) x 2 feet (600mm) ceiling design (VCM)



Automatic Air Speed Adjustment

Auto-fan-speed mode enables speedy and comfortable heating during heating startup.

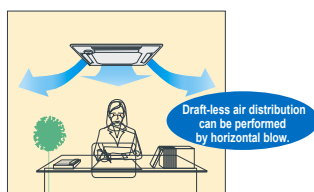
The Auto-fan-speed mode is added to the usual four steps "Low, Mid1, Mid2, High." The Auto-fan-speed mode enables speedy and comfortable air conditioning because the air flow speeds up when starting, and air flow slows down when the air conditioning becomes stable. (PLFY-P VBM-E ONLY)

Controls the four fan speed modes automatically
Low → Mid1 → Mid2 → High → Auto

* When using a wireless remote controller, initial settings are required.

Draft-less Air Distribution

The horizontal blow mode* newly employed supplies airflow horizontally not bringing cooled/warmed air directly to occupants thus preventing discomfort sensation due to excessive cooling or direct exposing of occupants to the air blow. (PLFY-P VBM-E ONLY)



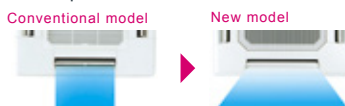
*Default

*The ceiling may be smudged at a spot where the supplied airflow is seriously disturbed.

Wide Air Flow (PLFY-P VBM-E ONLY)

Cooling softly with Wide Air Flow

Discharge air reaches wider area and the fan speed is decreased by 20% thanks to the new wide shape air outlet.



72 patterns of airflow to accommodate any room layout are available.

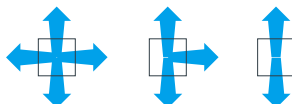
First in the industry

*On the commercial air conditioners (According to the survey by Mitsubishi Electric)

The number of outlet can be set to 4, 3, or 2. Flexible airflow is available by fixing the up-down airflow direction of the outlet with a wired remote controller (or manually).

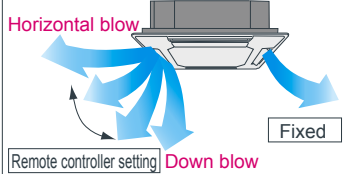
72 airflow patterns

4-, 3-, or 2- way outlet selection*



* Optional parts air outlet shutter plate (PLFY-P VBM-E ONLY) is required for 2 or 3 way outlet selection.

Setting the air direction for each outlet with wired remote controller

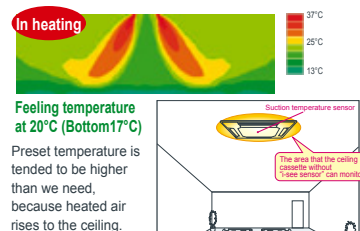


"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLYFY-VBM-E ONLY)

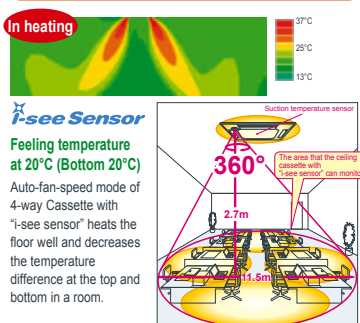
New 4-way Cassette PLYFY-VBM controls the temperature difference at the top and bottom in a room by checking the floor temperature with "i-see sensor". Comfortable air conditioning can be realized smoothly with "sensible temperature control." (Option PAC-SA1ME-E, PLYFY-VBM-E ONLY)

Prevents overcooling/overheating, and improves comfort/energy-efficiency

Without i-see sensor: preset temperature at 23°C



With i-see sensor* Auto fan speed: preset temperature at 20°C



► Specifications

			PLFY-P32VBM-E	PLFY-P40VBM-E	PLFY-P50VBM-E	PLFY-P63VBM-E	PLFY-P80VBM-E	PLFY-P100VBM-E	PLFY-P125VBM-E
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz						
Cooling capacity	*1	kW	3.6	4.5	5.6	7.1	9.0	11.2	14.0
	*1	BTU/h	12,300	15,400	19,100	24,200	30,700	38,200	47,800
Cooling capacity	*4	kW	3.7	4.6	5.7	7.2	9.2	11.4	14.2
	*4	BTU/h	12,600	15,700	19,400	24,500	31,100	39,000	49,000
Heating capacity	*1	kW	4.0	5.0	6.3	8.0	10.0	12.5	16.0
	*1	BTU/h	13,600	17,100	21,500	27,300	34,100	42,700	54,600
Power consumption	Cooling	kW	0.03	0.04	0.05	0.07	0.15	0.16	
	Heating	kW	0.02	0.03	0.04	0.06	0.14	0.15	
Current	Cooling	A	0.27	0.29	0.36	0.51	1.00	1.07	
	Heating	A	0.20	0.22	0.29	0.43	0.94	1.00	
External finish (Munsell No.)	Unit	Galvanized steel sheet							
	Panel	White (6.4Y 8.9/0.4)							
Dimension H x W x D	Unit	mm(in.)	258 x 840 x 840 (10-3/16 x 33-8/1 x 33-8/1)					298 x 840 x 840 (11-3/4 x 33-1/8 x 33-1/8)	
	Panel	mm(in.)	35 x 950 x 950 (1-3/8 x 37-7/16 x 37-7/16)						
Net weight	Unit	kg(lbs.)	22 (49)			23 (51)		27 (60)	
	Panel	kg(lbs.)				6 (13)			
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Quantity		Turbo fan x 1						
	Airflow rate *2 (Lo-Mid1-Mid2-Hi)	m³/min	11-12-13-14	12-13-14-16		14-15-16-18	16-18-20-22	21-24-27-29	22-25-28-30
		L/s	183-200-217-233	200-217-233-267		233-250-267-300	267-300-333-367	350-400-450-483	367-417-467-500
	External static pressure	cfm	388-424-459-494	424-459-494-565		494-530-565-636	565-636-706-777	742-848-953-1024	777-883-989-1059
		Pa	0						
Motor	Type		DC motor						
	Output	kW	0.050					0.120	
Air filter			PP Honeycomb						
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)		ø15.88 (ø5/8)		ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø6.35 (ø1/4) / ø9.52 (ø3/8) (Compatible)		ø9.52 (ø3/8)		
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)						
Sound pressure level (Lo-Mid1-Mid2-Hi) *2 *3		dB(A)	27-28-29-31	27-28-30-31		28-29-30-32	30-32-35-37	34-37-39-41	35-38-41-43

		PLFY-P15VCM-E2	PLFY-P20VCM-E2	PLFY-P25VCM-E2	PLFY-P32VCM-E2	PLFY-P40VCM-E2
Power source		1-phase 220-240V 50Hz				
Cooling capacity	*1	kW	1.7	2.2	2.8	4.5
	*1	BTU/h	5,800	7,500	9,600	15,400
Cooling capacity	*4	kW	1.7	2.2	2.8	4.6
	*4	BTU/h	5,800	7,500	9,600	15,400
Heating capacity	*1	kW	1.9	2.5	3.2	5.0
	*1	BTU/h	6,500	8,500	10,900	17,100
Power consumption	Cooling	kW	0.04	0.05	0.05	0.06
	Heating	kW	0.04	0.05	0.05	0.06
Current	Cooling	A	0.19	0.23	0.23	0.28
	Heating	A	0.19	0.23	0.23	0.28
External finish (Munsell No.)	Unit	Galvanized steel sheet with gray heat insulation				
	Panel	White (6.4Y 8.9/0.4)				
Dimension H x W x D	Unit	208 x 570 x 570 (8-1/4 x 22-1/2 x 22-1/2)				
	Panel	20 x 650 x 650 (13/16 x 25-5/8 x 25-5/8)				
Net weight	Unit	15.5 (35)				17 (38)
	Panel	3 (7)				3 (7)
Heat exchanger		Cross fin (Aluminum fin and copper tube)				
Fan	Type x Quantity	Turbo fan x 1				
	Airflow rate *2 (Lo-Mid-Hi)	m³/min	8-8.5-9	8-9-10	8-9-10	8-9-11
			133-142-150	133-150-167	133-150-167	133-150-183
	External static pressure	Pa	283-300-353	283-318-353	283-318-353	283-318-388
Motor	Type	1-phase induction motor				
	Output	kW	0.008	0.011	0.015	0.02
Air filter		PP Honeycomb fabric (long life type)				
Refrigerant pipe diameter	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)			
	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)			
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)			
Sound pressure level (Lo-Mid-Hi) *2 *3		dB(A)	28-30-31	28-31-35	29-31-37	29-33-38

Notes:

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

Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB

Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle1-middle2-high).

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

*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Ceiling cassette type

2-way airflow

PLFY-P VLMD-E

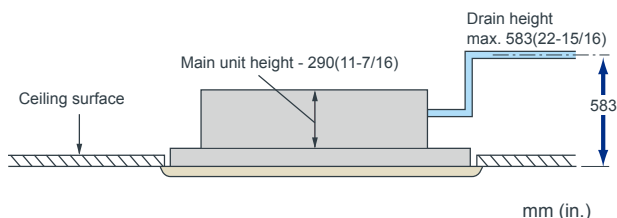


Slim body of 290mm(11-7/16in.) height



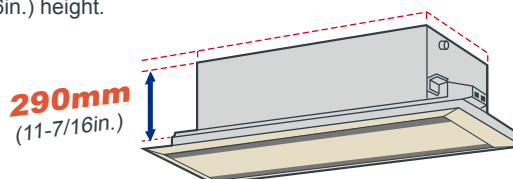
Equipped with drain pump mechanism as standard

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



Slim body - only 290mm(11-7/16in.) height

The slimline body is highly suitable for installation in narrow ceiling spaces and for replacing obsolete air-conditioning equipment in older buildings. The main unit is only 290mm(11-7/16in.) height.



Terminal block on outside of main unit makes wiring easier

Compact unit and low noise level attained!

Sound pressure level table (Standard static pressure) at 0Pa

Sound pressure Level	Capacity		P20	P25	P32	P40	P50	P63	P80	P100	P125
	Fan Speed	High	33			36	37	39	39	42	46
		Mid	30			33	34	37	36	39	42/44
		Low	27			29	31	32	33	36	40

<220V,240V>

Sound pressure Level	Capacity		P20	P25	P32	P40	P50	P63	P80	P100	P125
	Fan Speed	High	34			37	38	40	40	43	46
		Mid	31			34	35	38	37	41	42/44
		Low	28			30	32	33	34	37	40

<230V>

Fresh air directly taken in

Fresh air can be taken in to the main unit directly (optional accessories needed.)

Long life filter equipped as standard

The antibacterial long life filter does not require maintenance for approximately a year.

Easy installation

Lighter panel and placing the electric board near the panel make installation and maintenance easier. Also, the heat exchanger is washable by displacing the center panel, filter, and fan.

► Specifications

			PLFY-P20VLMD-E	PLFY-P25VLMD-E	PLFY-P32VLMD-E	PLFY-P40VLMD-E
Power source			1-phase 220-240V 50Hz / 1-phase 220-230V 60Hz			
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5
	*1	BTU/h	7,500	9,600	12,300	15,400
Cooling capacity	*4	kW	2.2	2.8	3.7	4.6
	*1	kW	2.5	3.2	4.0	5.0
Heating capacity	*1	BTU/h	8,500	10,900	13,600	17,100
Power consumption	Cooling	kW	0.072 / 0.075	0.072 / 0.075	0.072 / 0.075	0.081 / 0.085
	Heating	kW	0.065 / 0.069	0.065 / 0.069	0.065 / 0.069	0.074 / 0.079
Current	Cooling	A	0.36 / 0.37	0.36 / 0.37	0.36 / 0.37	0.40 / 0.42
	Heating	A	0.30 / 0.32	0.30 / 0.32	0.30 / 0.32	0.34 / 0.37
External finish	Unit		Galvanized steel plate			
(Munsell No.)	Panel		Pure white (6.4Y 8.9/0.4)			
Dimension	Unit	mm (in.)	290 x 776 x 634 (11-7/16 x 30-9/16 x 25)			
	Panel	mm (in.)	20 x 1080 x 710 (13/16 x 42-9/16 x 28)			
Net weight	Unit	kg(lbs.)	23 (51)		24 (53)	
	Panel	kg(lbs.)	6.5 (15)			
Heat exchanger			Cross fin			
Fan	Type x Quantity		Turbo fan x 1			
	Airflow rate *2 (Lo-Mid-Hi)	m³/min	6.5-8.0-9.5			7.0-8.5-10.5
		L/s	108-133-158			117-142-175
		cfm	230-283-335			247-300-371
	External static pressure	Pa	0			
Motor	Type		1-phase induction motor			
	Output	kW	0.015 (at 240V)			
Air filter			PP honeycomb fabric (long life type)			
Refrigerant	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)			
pipe diameter	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)			
Field drain pipe diameter	mm(in.)		O.D.32 (1-1/4)			
Sound pressure level	220V,240V	dB(A)	27-30-33			29-33-36
(Lo-Mid-Hi) *2 *3	230V	dB(A)	28-31-34			30-34-37

			PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E
Power source			1-phase 220-240V 50Hz / 1-phase 220-230V 60Hz				
Cooling capacity	*1	kW	5.6	7.1	9.0	11.2	14.0
	*1	BTU/h	19,100	24,200	30,700	38,200	47,800
Cooling capacity	*4	kW	5.7	7.2	9.2	11.4	14.2
	*1	kW	6.3	8.0	10.0	12.5	16.0
Heating capacity	*1	BTU/h	21,500	27,300	34,100	42,700	54,600
Power consumption	Cooling	kW	0.082 / 0.086	0.101 / 0.105	0.147 / 0.156	0.157 / 0.186	0.28 / 0.28
	Heating	kW	0.075 / 0.080	0.094 / 0.099	0.140 / 0.150	0.150 / 0.180	0.27 / 0.27
Current	Cooling	A	0.41 / 0.43	0.49 / 0.51	0.72 / 0.74	0.75 / 0.88	1.35 / 1.35
	Heating	A	0.35 / 0.38	0.43 / 0.46	0.66 / 0.69	0.69 / 0.83	1.33 / 1.33
External finish	Unit		Galvanized steel plate				
(Munsell No.)	Panel		Pure white (6.4Y 8.9 / 0.4)				
Dimension	Unit	mm (in.)	290 x 946 x 634 (11-7/16 x 37-1/4 x 25)		290 x 1446 x 634 (11-7/16 x 56-15/16 x 25)		290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)
	Panel	mm (in.)	20 x 1250 x 710 (13/16 x 49-1/4 x 28)		20 x 1750 x 710 (13/16 x 68-15/16 x 28)		20 x 2010 x 710 (13/16 x 79-3/16 x 28)
Net weight	Unit	kg(lbs.)	27 (60)	28 (62)	44 (98)	47 (104)	56 (124)
	Panel	kg(lbs.)	7.5 (17)		12.5 (28)		13.0 (29)
Heat exchanger			Cross fin				
Fan	Type x Quantity		Turbo fan x 1		Turbo fan x 2		Sirocco fan x 4
	Airflow rate *2 (P50-P100:Lo-Mid-Hi) (P125:Lo-Mid2-Mid1-Hi)	m³/min	9.0-11.0-12.5		15.5-18.5-22.0		24.0-27.0-30.0-33.0
		L/s	150-183-208		258-308-367		400-450-500-550
		cfm	318-388-441		547-653-777		848-953-1,059-1,165
	External static pressure	Pa	0				
Motor	Type		1-phase induction motor				
	Output	kW	0.020 (at 240V)		0.020 (at 240V)	0.030 (at 240V)	0.078 x 2 (at 240V)
Air filter			PP honeycomb fabric (long life type)				
Refrigerant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø15.88 (ø5/8)		
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)		
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)				
Sound pressure level	220V,240V	dB(A)	31-34-37		32-37-39		36-39-42
(Lo-Mid-Hi) *2 *3	230V	dB(A)	32-35-38		33-38-40		34-37-40
							37-41-43
							40-42-44-46
							(Lo-Mid2-Mid1-Hi)

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high).
- *3 It is measured in anechoic room.
- *4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

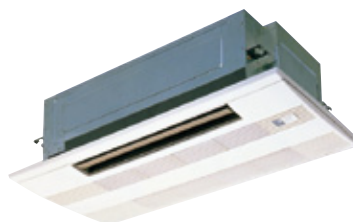


INDOOR UNIT

Ceiling cassette type

1-way airflow

PMFY-P VBM-E



Compact and lightweight body perfect for limited ceiling space applications.



Compact size for smooth installation and maintenance

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

Quiet operation

Newly developed airflow control technology reduces noise level to only 27dB (P20VBM) for industry-leading quiet performance.

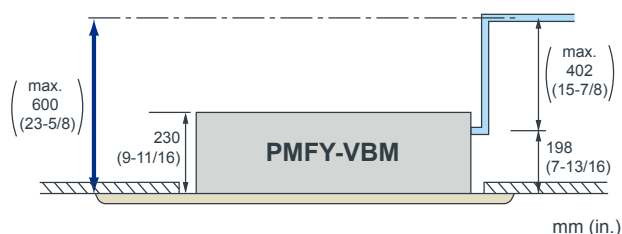
Sound pressure level table

Sound pressure level	Capacity		P20	P25	P32	P40
	Fan Speed	High	35	37	39	
		Mid 1	33	36	37	
		Mid 2	30	34	35	
		Low	27	32	33	

<220V,240V>

Drain pump

The drain can be positioned anywhere up to 600mm(23-5/8in.) from the ceiling's surface.



► Specifications

			PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz			
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5
	*1	BTU/h	7,500	9,600	12,300	15,400
Cooling capacity	*4	kW	2.2	2.8	3.7	4.6
	*1	kW	2.5	3.2	4.0	5.0
Heating capacity	*1	BTU/h	8,500	10,900	13,600	17,100
	Power consumption	Cooling	kW	0.042	0.044	0.054
Heating		kW	0.042	0.044	0.054	
Current	Cooling	A	0.20	0.21	0.26	
	Heating	A	0.20	0.21	0.26	
External finish (Munsell No.)			White (0.98Y 8.99/0.63)			
Dimension H x W x D	Unit	mm(in.)	230 x 812 x 395 (9-1/16 x 32 x 15-9/16)			
	Panel	mm(in.)	30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)			
Net weight	Unit	kg(lbs.)	14 (31)			
	Panel	kg(lbs.)	3 (7)			
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)			
Fan	Type	Line flow fan x 1				
	Airflow rate *2 (Lo-Mid2-Mid1-Hi)	m³/min	6.5-7.2-8.0-8.7	7.3-8.0-8.6-9.3	7.7-8.7-9.7-10.7	
		L/s	108-120-133-145	122-133-143-155	128-145-162-178	
		cfm	230-254-283-307	258-283-304-328	272-307-343-378	
	External static pressure	Pa	0			
Motor	Type	1-phase induction motor				
	Output	kW	0.028			
Air filter			PP Honeycomb fabric			
Refrigerant pipe diameter	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)			
	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)			
Field drain pipe diameter		mm(in.)	O.D. 26 (1)			
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		dB(A)	27-30-33-35	32-34-36-37	33-35-37-39	

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).
- *3 It is measured in anechoic room.
- *4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Ceiling concealed type

PEFY-P VMR-E-L/R

Static Pressure
5Pa

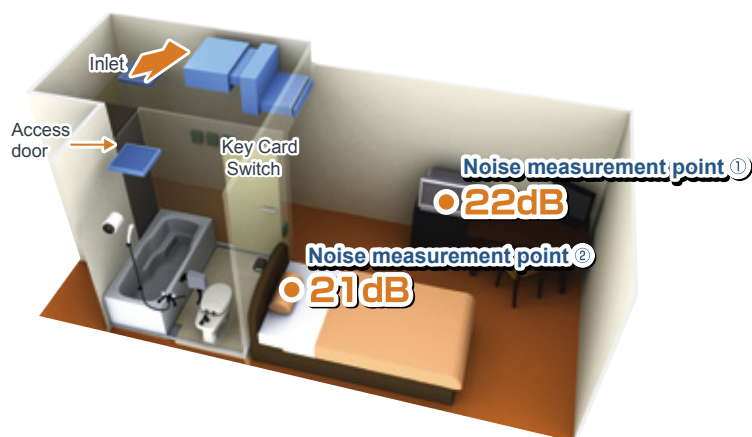
Width
640mm
25-6/32in.

Ultra
Low Noise

Piping connection
L model
R model



Problem solver for residential hotels, museums, libraries, or hospitals where low noise is especially a must!



Operable by key card switch

It is possible to operate / stop by taking a key card in and out.

Ultra low noise

Quiet indoor environment can be achieved with 21dB around the bed and 22dB around the desk.

*The noise level may differ by the room size or the setting of the unit.

Enables to install for symmetric design room

Left or right piping and control boxes are available depending on the layout of each room. Plus, as in the above figure, easy maintenance is possible from the access door in the bathroom.

*Seen from the front, the pipe and control box are on the right side for -R models.

Energy saving

Energy saving can be realized by preventing us from failing to switch off of the air conditioners with a centralized system when no one is in the room.

Note: Compact and simple controllers, designed specifically to control only start/stop, fan speed and temperature can be set in each room for the occupants' enhanced individual comfort.

Easy Maintenance

Drain pan and heat exchangers are washable from the access door in the bathroom, making maintenance easy and cost saving.

► Specifications

			PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L
Power source			1-phase 220-230-240V 50Hz / 1-phase 220-230V 60Hz		
Cooling capacity	*1	kW	2.2	2.8	3.6
	*1	BTU/h	7,500	9,600	12,300
Cooling capacity	*4	kW	2.2	2.8	3.7
	*1	kW	2.5	3.2	4.0
Heating capacity	*1	BTU/h	8,500	10,900	13,600
	*1	BTU/h	8,500	10,900	13,600
Power consumption	Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
Current	Cooling	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
	Heating	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
External finish			Galvanized		
Dimension H x W x D	Rear inlet	mm (in.)	292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)		
	Bottom inlet	mm (in.)	300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)		
Net weight		kg(lbs.)	18 (40)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
Fan	Type x Quantity		Sirocco fan x 1		
	Airflow rate (Lo-Mid-Hi)	m ³ /min	4.8-5.8-7.9		4.8-5.8-9.3
		L/s	80-97-132		80-97-155
		cfm	170-205-279		170-205-328
External static pressure	*2	Pa	5		
	*2	Pa	5		
Motor	Type		1-phase induction motor		
	Output	kW	0.018		0.023
Air filter			PP Honeycomb fabric (washable)		
Refrigerant pipe diameter	Gas	mm(in.)	ø12.7 (ø1/2) Braze		
	Liquid	mm(in.)	ø6.35 (ø1/4) Braze		
Field drain pipe diameter		mm(in.)	O.D. 26 (1)		
Sound pressure level (Lo-Mid-Hi)	220V	dB(A)	20-25-30		20-25-33
	230V		21-26-32		21-26-35
	240V		22-27-30		22-27-33
	240V		22-27-30		22-27-33

			PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R
Power source			1-phase 220-230-240V 50Hz / 1-phase 220-230V 60Hz		
Cooling capacity	*1	kW	2.2	2.8	3.6
	*1	BTU/h	7,500	9,600	12,300
Cooling capacity	*4	kW	2.2	2.8	3.7
	*1	kW	2.5	3.2	4.0
Heating capacity	*1	BTU/h	8,500	10,900	13,600
	*1	BTU/h	8,500	10,900	13,600
Power consumption	Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08
Current	Cooling	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
	Heating	A	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38
External finish			Galvanized		
Dimension H x W x D	Rear inlet	mm (in.)	292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)		
	Bottom inlet	mm (in.)	300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)		
Net weight		kg(lbs.)	18 (40)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
Fan	Type x Quantity		Sirocco fan x 1		
	Airflow rate (Lo-Mid-Hi)	m ³ /min	4.8-5.8-7.9		4.8-5.8-9.3
		L/s	80-97-132		80-97-155
		cfm	170-205-279		170-205-328
External static pressure	*2	Pa	5		
	*2	Pa	5		
Motor	Type		1-phase induction motor		
	Output	kW	0.018		0.023
Air filter			PP Honeycomb fabric (washable)		
Refrigerant pipe diameter	Gas	mm(in.)	ø12.7 (ø1/2) Braze		
	Liquid	mm(in.)	ø6.35 (ø1/4) Braze		
Field drain pipe diameter		mm(in.)	O.D. 26(1)		
Sound pressure level (Lo-Mid-Hi)	220V	dB(A)	20-25-30		20-25-33
	230V		21-26-32		21-26-35
	240V		22-27-30		22-27-33
	240V		22-27-30		22-27-33

Notes:

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

Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB

Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 The external static pressure is set to 5Pa (at 220V, 230V, 240V).

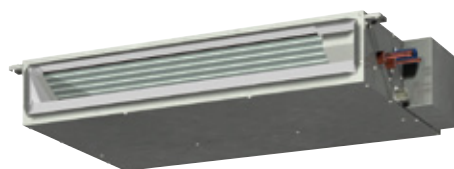
*3 Measured in anechoic room. Sound pressure levels of the unit with a rear air inlet. (Sound pressure levels are higher than the unit with a bottom air inlet.)

*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Ceiling concealed type



PEFY-P VMS1(L)-E

Static Pressure 5~50Pa	Height 200mm 7-28/32in.	Low Noise	Width 790mm 31-1/8in.	Width 990mm 39in.	Width 1,190mm 46-7/8in.
----------------------------------	--------------------------------------	-----------	------------------------------------	--------------------------------	--------------------------------------

The ultra thin unit of 200mm offers increased flexibility, and is particularly suitable for places where low noise operation is desired from a slim line body.



Changeable static pressure

The unit is made suitable for a variety of applications with its four static pressure settings of 5, 15, 35, 50Pa.

Changeable airflow rate

Low, middle, and high fan speed settings deliver precise comfort.

Choice for drain pump

Drain pump is an optional part for the VMS1L, and a standard for VMS1.

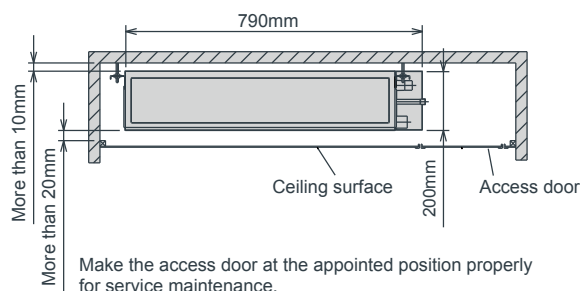
*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

PP Honeycomb fabric

Washable PP Honeycomb fabric filter as standard

Ultra low height unit with 200mm (7-28/32in.) high
Ultra-narrow width of 790mm (P15-P32 models)
[990mm for P40,50 models / 1190mm for P63 models]

Can be installed easily in tight spaces, such as ceiling cavities or drop-ceilings.



Reduced noise thanks to the use of newly designed centrifugal fan and coil

Sound pressure level table (Standard static pressure) at 15Pa

		dB(A)							
Sound pressure Level	Capacity	P15	P20	P25	P32	P40	P50	P63	
	Fan Speed	High	28	29	30	32	33	35	36
		Mid	24	25	26	27	30	32	33
		Low	22	23	24	24	28	30	30

► Specifications

			PEFY-P15VMS1(L)-E	PEFY-P20VMS1(L)-E	PEFY-P25VMS1(L)-E	PEFY-P32VMS1(L)-E	PEFY-P40VMS1(L)-E	PEFY-P50VMS1(L)-E	PEFY-P63VMS1(L)-E
Power source			1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz						
Cooling capacity		*1 kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
		*1 BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200
Cooling capacity		*4 kW	1.7	2.2	2.8	3.7	4.6	5.7	7.2
		*4 BTU/h	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Heating capacity		*1 kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
		*1 BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300
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]
	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]
Current	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]
	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			Galvanized						
Dimension H x W x D			200 x 790 x 700				200 x 990 x 700		200 x 1,190 x 700
	In.		7-7/8 x 31-1/8 x 27-9/16				7-7/8 x 39 x 27-9/16		7-7/8 x 46-7/8 x 27-9/16
Net weight	*3	kg(lbs.)	19(42) [18(40)]			20(45) [19(42)]	24(53) [23(51)]		28(62) [27(60)]
Heat exchanger			Cross fin (Aluminium fin and copper tube)						
Fan	Type x Quantity		Sirocco fan x 2				Sirocco fan x 3		Sirocco fan x 4
	Airflow rate (Lo-Mid-Hi)	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
		L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275
		cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583
	External static press	Pa	5-15-35-50						
Motor	type	DC motor							
	output	kW	0.096						
Air filter			PP Honeycomb fabric (washable)						
Refrigerant pipe diameter	Gas	mm(in.)	ø12.7 (ø1/2) Brazed						ø15.88 (ø5/8) Brazed
	Liquid	mm(in.)	ø6.35 (ø1/4) Brazed						ø9.52 (ø3/8) Brazed
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)						
Sound pressure level (Lo-Mid-Hi) (measured in anechoic room)		dB<A>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling : Indoor : 27°CDB./19°CWB. (81°FDB. / 66°FWB.) Outdoor : 35°CDB. (95°FDB.)
Heating : Indoor : 20°CDB. (68°FDB.) Outdoor : 7°CDB. / 6°CWB. (45°FDB. / 43°FWB.)
Pipe length : 7.5m (24-9/16ft) Height difference : 0m (0ft)

*2 The external static pressure is set to 15 Pa at factory shipment.

*3 [] is in case of PEFY-P15-63VMS1L-E

*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Ceiling Concealed Type

PEFY-P VMA(L)-E

PEFY-P VMA3-E

Middle Static Pressure
35~150Pa

Slim Body
Height 250mm

With precise control of indoor temperature while operating with optimum energy usage, it offers a high-energy saving efficiency.



Compact Indoor Units

For all models, unit height are unified to 250mm. Compared to the previous model, the height size is reduced, allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



Reduction in height size

PEFY-P VMA(L)	20	25	32	40	50	63	71	80	100	125	140
Height	mm	250									
Width	mm	700		900		1,100		1,400		1,600	
Depth	mm	732									

External static pressure

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

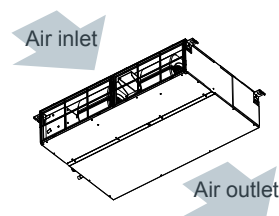
External static pressure setting

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

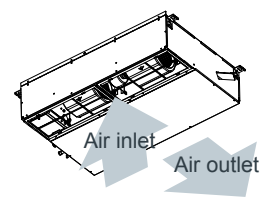


Air Inlet

(1) Rear inlet



(2) Bottom inlet



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

Drain Pump Option

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



PEFY-P VMA-E Drain pump built-in



PEFY-P VMA(L)-E No Drain pump

* Units with a "L" at the end of the model name are not equipped with a drain pump.

Analogue input

Analogue input allows unit to control the fan speed setting in conjunction with damper condition.

IT terminal

IT terminal is available. For details, contact your local distributor.

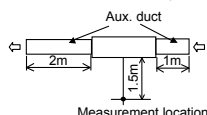
► Specifications

			PEFY-P20VMA(L)-E	PEFY-P25VMA(L)-E	PEFY-P32VMA(L)-E	PEFY-P40VMA(L)-E	PEFY-P50VMA(L)-E	PEFY-P63VMA(L)-E
Power source *1			1-phase 220-230-240V 50 / 60Hz					
Cooling capacity (Nominal) *1		kW	2.2	2.8	3.6	4.5	5.6	7.1
		BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
Cooling capacity *7		kW	2.2	2.8	3.7	4.6	5.7	7.2
Heating capacity (Nominal) *2		kW	2.5	3.2	4.0	5.0	6.3	8.0
		BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
Power consumption	Cooling *3	kW	0.06 [0.04]	0.06 [0.04]	0.07 [0.05]	0.09 [0.07]	0.11 [0.09]	0.12 [0.10]
	Heating *3	kW	0.04	0.04	0.05	0.07	0.09	0.10
Current	Cooling *3	A	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]	1.01 [0.90]
	Heating	A	0.42	0.42	0.44	0.53	0.63	0.90
External finish			Galvanized steel plate					
Dimension H x W x D		mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732	250 x 1,100 x 732
		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
Net weight		kg(lbs)	23 (51) [22 (49)]	23 (51) [22 (49)]	23 (51) [22 (49)]	26 (58) [25 (56)]	26 (58) [25 (56)]	32 (71) [31(69)]
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
Fan	Type x Quantity		Sirocco fan x 1					
	Airflow rate (Low-Mid-High)	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
		L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283	225 - 267 - 317
		cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600	477 - 565 - 671
	External static pressure *4	Pa	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>
Motor		DC motor						
Output		kW	0.085	0.085	0.085	0.085	0.085	0.121
Air filter			PP honeycomb fabric.					
Refrigerant	Liquid (R410A)	mm(in.)	6.35 (1/4) Braze	6.35 (1/4) Braze	6.35 (1/4) Braze	6.35 (1/4) Braze	6.35 (1/4) Braze	9.52 (3/8) Braze
pipe diameter	Gas (R410A)	mm(in.)	12.7 (1/2) Braze	12.7 (1/2) Braze	12.7 (1/2) Braze	12.7 (1/2) Braze	12.7 (1/2) Braze	15.88 (5/8) Braze
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)	O.D.32(1-1/4)	O.D.32(1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Sound pressure level (measured in anechoic room)								
(Low-Mid-High) *3	*5	dB(A)	26-28-29	26-28-29	28-30-34	28-30-34	28-32-35	29-32-36
	*6	dB(A)	23-25-26	23-25-26	23-26-29	23-27-30	25-29-32	25-29-33

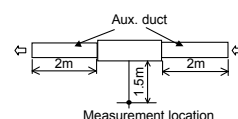
			PEFY-P71VMA(L)-E	PEFY-P80VMA(L)-E	PEFY-P100VMA(L)-E	PEFY-P125VMA(L)-E	PEFY-P140VMA(L)-E	PEFY-P20VMA3-E
Power source *1			1-phase 220-230-240V 50 / 60Hz					
Cooling capacity (Nominal) *1		kW	8.0	9.0	11.2	14.0	16.0	2.2
		BTU/h	27,300	30,700	38,200	47,800	54,600	7,500
Cooling capacity *7		kW	8.1	9.2	11.4	14.2	16.3	—
Heating capacity (Nominal) *2		kW	9.0	10.0	12.5	16.0	18.0	2.5
		BTU/h	30,700	34,100	42,700	54,600	61,400	8,500
Power consumption	Cooling *3	kW	0.14 [0.12]	0.14 [0.12]	0.24 [0.22]	0.34 [0.32]	0.36 [0.34]	0.110
	Heating *3	kW	0.12	0.12	0.22	0.32	0.34	0.090
Current	Cooling *3	A	1.15 [1.04]	1.15 [1.04]	1.47 [1.36]	2.05 [1.94]	2.21 [2.10]	0.90
	Heating	A	1.04	1.04	1.36	1.94	2.10	0.79
External finish			Galvanized steel plate					
Dimension H x W x D		mm	250 x 1,100 x 732	250 x 1,100 x 732	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,600 x 732	250 x 900 x 732
		in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net weight		kg(lbs)	32 (71) [31 (69)]	32 (71) [31 (69)]	42 (93) [41 (91)]	42 (93) [41 (91)]	46 (102) [45 (100)]	27(60)
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
Fan	Type x Quantity		Sirocco fan x 2					
	Airflow rate (Low-Mid-High)	m³/min	14.5 - 18.0 - 21.0	14.5 - 18.0 - 21.0	23.0 - 28.0 - 33.0	28.0 - 34.0 - 40.0	29.5 - 35.5 - 42.0	12.0 - 14.5 - 17.0
		L/s	242 - 300 - 350	242 - 300 - 350	383 - 467 - 550	467 - 567 - 667	492 - 592 - 700	200 - 242 - 283
		cfm	512 - 636 - 742	512 - 636 - 742	812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483	424 - 512 - 600
	External static pressure *4	Pa	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <125>
Motor	Type		DC motor					
	Output	kW	0.121	0.121	0.244	0.244	0.244	0.085
Air filter			PP honeycomb fabric.					
Refrigerant	Liquid (R410A)	mm(in.)	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	9.52 (3/8) Braze	6.35 (1/4)Flare
pipe diameter	Gas (R410A)	mm(in.)	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	12.7 (1/2)Flare
Field drain pipe diameter		mm(in.)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)
Sound pressure level (measured in anechoic room)								
(Low-Mid-High)	*3 *5	dB(A)	30-34-38	30-34-38	32-37-41	35-40-44	36-41-45	30-35-39
	*3 *6	dB(A)	26-29-34	26-29-34	28-33-37	32-36-40	33-37-42	—

Notes:

- *1 Nominal cooling conditions
Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB
Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
- *2 Nominal heating conditions
Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB
Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
- *3 The values are measured at the rated external static pressure.
- *4 The rated external static pressure is shown without < > . The factory setting is the rated value.
- *5 Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



- *6 Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



- *7 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB
- * [] is in case of PEFY-P VMAL-E
- * When PEFY-P20VMA2-E is connected, the available range of outdoor temperature is between 10°C and 49°C.

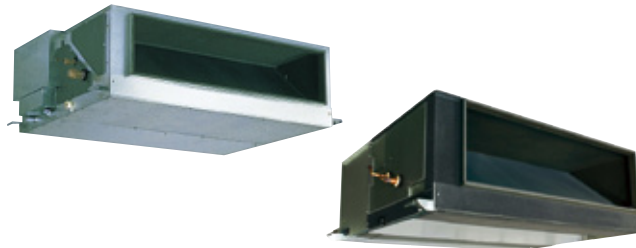


INDOOR UNIT

Ceiling concealed type

PEFY-P VMH(S)-E

High Static Pressure



Increased design flexibility from sufficient external static pressure allows authentic duct air- conditioning with an elegant interior layout.



High static pressure of 200 Pa or higher

The additional external static pressure capacity provides flexibility for duct extension, branching and air outlet configuration.

PEFY-P VMH-E	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
External static pressure (Pa)	220V	50/100/200								—
	230/240V	100/150/200								—
	380V	—								110/220
	400/415V	—								130/260

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

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

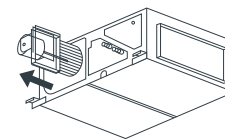
Reduced noise thanks to the use of newly designed centrifugal fan

Sound pressure level table (Standard static pressure 220V)

		dB(A)								
Sound pressure Level	Capacity	P40	P50	P63	P71	P80	P100	P125	P140	
	Fan Speed	High	34	34	38	39	41	42	42	42
	Low	27	27	32	32	35	34	34	34	34

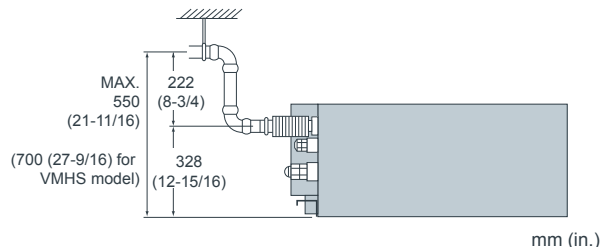
One-side maintenance

All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side. (VMH model only)



Drain pump (option) ensures up to 550mm (21-11/16in.) for VMH model / 700mm (27-9/16in.) for VMHS model of lift

The introduction of an upper drain pump allows the drain connection to be raised as high as 550mm(21-11/16in.) for VMH model/700mm (27-9/16in.) for VMHS model, allowing more freedom in piping layout design and reducing horizontal piping requirements.



► Specifications

		PEFY-P40VMH-E	PEFY-P50VMH-E	PEFY-P63VMH-E	PEFY-P71VMH-E	PEFY-P80VMH-E	PEFY-P100VMH-E	PEFY-P125VMH-E	PEFY-P140VMH-E	
Power source		1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz								
Cooling capacity	*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	16.0	
	*1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	54,600	
Cooling capacity	*10	kW	4.6	5.7	7.2	8.1	9.2	11.4	16.3	
	*1	kW	5.0	6.3	8.0	9.0	10.0	12.5	18.0	
Heating capacity	*1	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	61,400	
	Power consumption	Cooling	kW	0.19 / 0.23		0.24 / 0.30	0.26 / 0.33	0.32 / 0.40		0.48 / 0.58
Heating		kW	0.19 / 0.23		0.24 / 0.30	0.26 / 0.33	0.32 / 0.40		0.48 / 0.58	
Current	Cooling	A	0.88 / 1.06		1.12 / 1.38	1.20 / 1.51	1.47 / 1.83		2.34 / 2.66	
	Heating	A	0.88 / 1.06		1.12 / 1.38	1.20 / 1.51	1.47 / 1.83		2.34 / 2.66	
External finish		Galvanized								
Dimension H x W x D	mm	380 x 750 x 900				380 x 1,000 x 900		380 x 1,200 x 900		
	in.	15 x 29-9/16 x 35-7/16				15 x 39-3/8 x 35-7/16		15 x 47-1/4 x 35-7/16		
Net weight		kg(lbs.)	41 (91)				50 (111)		65 (144)	
Heat exchanger		Cross fin (Aluminum plate fin and copper tube) Sirocco fan x 2								
Fan	Type x Quantity		Sirocco fan x 1							
	Airflow rate (Lo-Hi)	m³/min	10.0-14.0		13.5-19.0	15.5-22.0	18.0-25.0	26.5-38.0		
		L/s	167-233		225-317	258-367	300-417	442-633		
		cfm	353-494		477-671	547-777	636-883	936-1342		
	External static pressure *2	220V Pa	50 · 100 · 200							
		230,240V Pa	100 · 150 · 200							
Motor	Type		1-phase induction motor						0.26	
	Output	*3 kW	0.08		0.12	0.14	0.18			
Air filter (option)		Synthetic fiber unwoven cloth filter (long life)								
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)		ø15.88 (ø5/8)					
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)					
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)						34-42	
Sound pressure level (L o-Hi) *6	220V	dB(A)	27-34		32-38	32-39	35-41	38-44		
	230,240V	dB(A)	31-37		36-41	35-41	38-43			

			PEFY-P200VMH-E	PEFY-P250VMH-E	PEFY-P200VMHS-E	PEFY-P250VMHS-E	
Power source			3-phase 380-415V 50Hz / 3N ~ 380-415V 60Hz		1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz		
Cooling capacity	*1	kW	22.4	28.0	22.4	28.0	
	*1	BTU/h	76,400	95,500	76,400	95,500	
Cooling capacity	*10	kW	22.8	28.5	22.8	28.5	
	*1	kW	25.0	31.5	25.0	31.5	
Heating capacity	*1	BTU/h	85,300	107,500	85,300	107,500	
Power consumption	Cooling	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7	
	Heating	kW	0.99 / 1.14	1.23 / 1.41	0.63 *7	0.82 *7	
Current	Cooling	380-415V	A	1.62 / 1.86	2.00 / 2.30	—	—
		220-230-240V	A	—	—	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7
	Heating	380-415V	A	1.62 / 1.86	2.00 / 2.30	—	—
		220-230-240V	A	—	—	3.47-3.32-3.18 *7	4.72-4.43-4.14 *7
External finish			Galvanized		Galvanized steel plate		
Dimension H x W x D		mm	470 x 1,250 x 1,120		470 x 1,250 x 1,120		
		in.	18-9/16 x 49-1/4 x 44-1/8		18-9/16 x 49-1/4 x 44-1/8		
Net weight		kg(lbs.)	100 (221)		97 (214)	100 (221)	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)		
Fan	Type x Quantity		Sirocco fan x 2		Sirocco fan x 2		
	Airflow rate	m³/min	58.0	72.0	—	—	
		L/s	967	1200	—	—	
		cfm	2048	2543	—	—	
	Lo-Mid-Hi	m³/min	—	—	50.0-61.0-72.0	58.0-71.0-84.0	
		L/s	—	—	833-1017-1200	967-1183-1400	
		cfm	—	—	1766-2154-2542	2048-2507-2966	
	External static pressure	380V	Pa	110 · 220 *4		—	
		400,415V	Pa	130 · 260 *4		—	
			Pa	—		<50>-<100>-150-<200>-<250> *8	
mmH ₂ O			—		<5.1>-<10.2>-15.3-<20.4>-<25.5> *8		
Motor	Type	3-phase induction motor			DC motor		
	Output	kW	0.76 *5	1.08 *5	0.87	0.87	
Air filter(option)			Synthetic fiber unwoven cloth filter (long life)		Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended		
Refrigerant pipe diameter	Gas (Brazing)	mm(in.)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	ø19.05 (ø3/4)	ø22.2 (ø7/8)	
	Liquid (Brazing)	mm(in.)	ø9.52 (ø3/8)		ø9.52 (ø3/8)		
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4)		O.D. 32 (1-1/4)		
Sound pressure level	380V	dB(A)	42 (110Pa) / 45 (220Pa) *6	50 (110Pa) / 52 (220Pa) *6	—	—	
	400,415V	dB(A)	44 (130Pa) / 47 (260Pa) *6	52 (130Pa) / 54 (260Pa) *6	—	—	
	Lo-Mid-Hi	dB(A)	—	—	36-39-43 *9	39-42-46 *9	

Notes:

- *1 Cooling/heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
*2 The external static pressure is set to 100Pa (at 220V) / 150Pa (at 230, 240V) at factory shipment.
*3 The value are that at 240V.
*4 The external static pressure is set to 220Pa (at 380V) / 260Pa (at 400, 415V) at factory shipment.
*5 The value are that at 415V.

- *6 It is measured in anechoic room.
*7 The values are measured at the rated external static pressure.
*8 The rated external static pressure is shown without < > .
The factory setting is the rated value.
*9 It is measured at the rated external static pressure in anechoic room.
*10 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

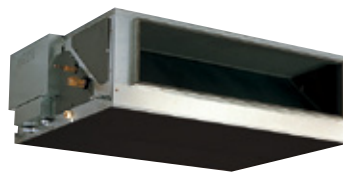


INDOOR UNIT Fresh Air Intake Type

PEFY-P VMH-E-F

**Fresh
Air Intake**

Fresh Air can be taken in with temperature control.
Ideal for Offices, Stores and Restaurants.



**The Fresh Air intake indoor unit
can be installed in any place.**

Fresh Air can be taken in with temperature control.

Outside air will be cooled down or heated up to supply it to the room, and this reduces the air conditioning load in a room. High-capacity humidifier will keep room air moist and comfortable during heating.

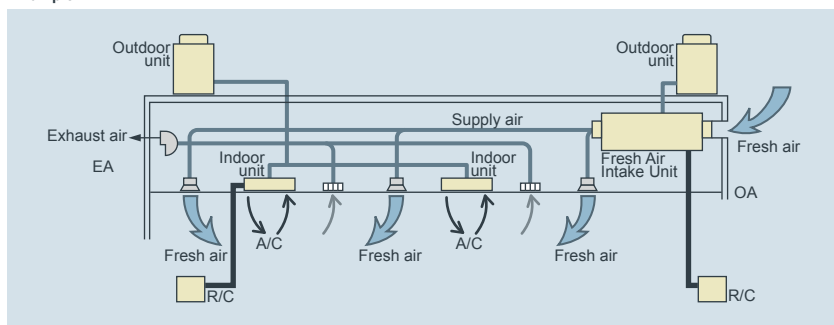
*Supply air temperature control cannot be used.

**Office, Lobby, Workshop,
Restroom, Nursing home,
Smoking corner,
Kitchen in restaurant**

* Limits of capacity connectable to outdoor unit

Max. 110% of outdoor unit capacity, excepting heating at outdoor temperature of less than -5°C(23°F) (100%).

Example



< Note>

Fan remains in operation during Thermo-OFF. Using this model with other type of indoor unit is recommended to prevent cold draft which is caused due to intaken fresh air.

► Specifications

				PEFY-P80VMH-E-F	PEFY-P140VMH-E-F
Power source				1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz	
Cooling capacity	*1	kW		9.0	16.0
	*1	BTU/h		30,700	54,600
Heating capacity	*1	kW		8.5	15.1
	*1	BTU/h		29,000	51,500
Power consumption	Cooling	kW		0.16 / 0.21	0.29 / 0.33
	Heating	kW		0.16 / 0.21	0.29 / 0.33
Current	Cooling	A		0.67 / 0.91	1.24 / 1.48
	Heating	A		0.67 / 0.91	1.24 / 1.48
External finish				Galvanized	
Dimension H x W x D		mm(in.)		380 x 1000 x 900 (15 x 39-3/8 x 35-7/16)	380 x 1200 x 900 (15 x 47-1/4 x 35-7/16)
Net weight		kg(lbs.)		50 (111)	67 (148)
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)	
Fan	Type x Quantity			Sirocco fan x 1	Sirocco fan x 2
	Airflow rate	m³/min		9.0	18.0
		L/s		150	300
		cfm		318	636
	External static pressure (Lo-Mid-Hi)	208V Pa		35 - 85 - 170	35 - 85 - 170
		220V Pa		40 - 115 - 190	50 - 115 - 190
		230V Pa		50 - 130 - 210	60 - 130 - 220
		240V Pa		80 - 170 - 220	100 - 170 - 240
Motor	Type			1-phase induction motor	
	Output	kW		0.09 (at 220V)	0.14 (at 220V)
Air filter (option)				Synthetic fiber unwoven cloth filter (long life)	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)		ø15.88 (ø5/8)	
	Liquid (Flare)	mm(in.)		ø9.52 (ø3/8)	
Field drain pipe diameter		mm(in.)		O.D.32 (1-1/4)	
Sound pressure level	208, 220V	dB(A)		27 - 38 - 43	28 - 38 - 43
	(Lo-Mid-Hi) *2 230, 240V	dB(A)		33 - 43 - 45	34 - 43 - 45

				PEFY-P200VMH-E-F	PEFY-P250 VMH-E-F
Power source				3-phase 380-415V 50Hz / 3N~ 380-415V 60Hz	
Cooling capacity	kW			22.4	28.0
	BTU/h			76,400	95,500
Heating capacity	kW			21.2	26.5
	BTU/h			72,300	90,400
Power consumption	Cooling	kW		0.34 / 0.42	0.39 / 0.50
	Heating	kW		0.34 / 0.42	0.39 / 0.50
Current	Cooling	A		0.58 / 0.74	0.68 / 0.86
	Heating	A		0.58 / 0.74	0.68 / 0.86
External finish				Galvanized	
Dimension H x W x D		mm(in.)		470 x 1250 x 1120 (18-9/16 x 49-1/4 x 44-1/8)	
Net weight		kg(lbs.)		100 (221)	
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)	
Fan	Type x Quantity			Sirocco fan x 2	
	Airflow rate	m³/min		28	35
		L/s		467	583
		cfm		989	1236
	External static pressure	380V Pa		140 / 200	110 / 190
		400V Pa		150 / 210	120 / 200
		415V Pa		160 / 220	130 / 210
Motor	Type			3-phase induction motor	
	Output	kW		0.20	0.23
Air filter (option)				Synthetic fiber unwoven cloth filter (long life type)	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)		ø19.05 (ø3/4)	ø22.2 (ø7/8)
	Liquid (Flare)	mm(in.)		ø9.52 (ø3/8)	
Field drain pipe diameter		mm(in.)		O.D.32 (1-1/4)	
Sound pressure level	380V	dB(A)		39 / 42	40 / 44
	400V	dB(A)		40 / 43	40 / 45
	415V	dB(A)		40 / 44	41 / 46

Notes:

- The cooling and heating capacities are the maximum capacities that were obtained by operating in the above air conditions and with a refrigerant pipe of about 7.5m.
- The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information.
- The operating noise is the data that was obtained by measuring it 1.5m from the bottom of the unit in an anechoic room. (Noise meter A-scale value)
- The figure of Electrical characteristic indicates at 240V 50Hz/230V60Hz (PEFY-P80, 140VMH-E-F type), at 220Pa setting at 415V (PEFY-P200, 250VMH-E-F type).
- When the 100% fresh air indoor units are connected, the maximum connectable indoor units to 1 outdoor unit are as follows

Heat pump models	Cooling only
110%(100% in case of heating below-5°C(23°F))	110%

- Operational temp range is (Cooling : from 21°C(70°F)DB/15.5°C(60°F)WB to 43°C(109°F)DB/35°C(95°F)WB)
Heating : from -10°C(14°F)DB to 20°C(68°F)DB

* Thermo off(Fan) operation automatically starts either when temperature is lower than 21°C(70°F)DB in cooling mode or when the temperature exceeds 20°C(68°F)DB in heating mode.

- As the room temp in sensed by the thermo in the remote controller or the one in the room, be sure to use either remote controller or room thermo.
- Autochangeover function or Dry mode is NOT available. Fan mode operation during the thermo off in Cooling/Heating mode.
- In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan curves" for the details.
- When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation.
- Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
- Air filter must be installed in the air intake side. The filter should be attached where easy maintenance in possible in case of usage of fild supply filters.
- Long life cannot be used with Hi-efficiency filter together (PEFY-P80 · 140VMH-E-F type).



INDOOR UNIT

Ceiling suspended type

PCFY-P VKM-E



Designed for ultra-quiet operation and easy maintenance, provides exceptionally comfortable air-conditioning.



Extra slim, extra stylish

Sleek and slim with stylishly curved lines, the PCFY series blends right into any interior. It also features a single air outlet which allows the auto vane to act as a shutter when the unit is turned off.

Auto vane distributes air evenly

The auto vane swings up and down automatically to distribute air more evenly to every corner of the room.

Long life filter as standard

Long life filter is equipped as standard enabling up to 2,500 hours of operation (office use) without maintenance.

Keeps airflow at optimum level according to ceiling height

The most suitable airflow can be selected for ceilings up to 4.2m high, enhancing air-conditioning efficiency and comfort. (P100/P125)

	Standard	High ceiling
Ceiling height	3.0(9-13/16)	4.2(13-3/4)

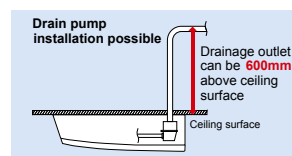
m (ft)

Greatly simplified installation

The direct suspension system eliminates the task of removing the attachment fixture from the main unit, greatly shortening installation time.

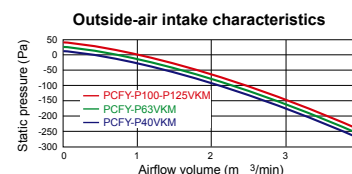
Drain pump option available with all models

The pumping height of the optional drain pump has been increased from 400 mm to 600 mm, expanding flexibility in choosing unit location during installation work.



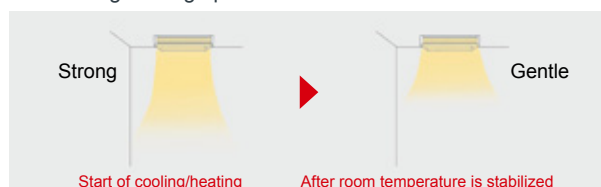
Outside-air intake

Units are equipped with a knock-out hole that enables the induction of fresh outside-air.



Equipped with automatic air-speed adjustment

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



► Specifications

			PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz			
Cooling capacity	*1	kW	4.5	7.1	11.2	14.0
	*1	BTU/h	15,400	24,200	38,200	47,800
Cooling capacity	*4	kW	4.6	7.2	11.4	14.2
Heating capacity	*1	kW	5.0	8.0	12.5	16.0
	*1	BTU/h	17,100	27,300	42,700	54,600
Power consumption	Cooling	kW	0.04	0.05	0.09	0.11
	Heating	kW	0.04	0.05	0.09	0.11
Current	Cooling	A	0.28	0.33	0.65	0.76
	Heating	A	0.28	0.33	0.65	0.76
External finish(Munsell No.)			6.4Y 8.9/ 0.4			
Dimension H x W x D	mm	230 x 960 x 680		230 x 1,280 x 680	230 x 1,600 x 680	
	in.	9-1/16 x 37-13/16 x 26-3/4		9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4	
Net weight	kg(lbs.)	24(53)		32 (71)	36 (79)	38 (84)
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
Fan	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 4	
	Airflow rate *2 (Lo-Mid2-Mid1-Hi)	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31
		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517
		cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095
External static pressure		Pa				
Motor	Type	DC motor				
	Output	kW	0.090	0.095	0.160	
Air filter			PP Honeycomb (long life)			
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)	
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)	ø9.52 (ø3/8)		
Field drain pipe diameter		mm(in.)	O.D. 26 (1)			
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(80.6°F)DB/19°C(66.2°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(44.6°F)DB/6°C(42.8°F)WB

*2 Airflow rate/Sound pressure level are shown in (low-middle 2-middle 1-high).

*3 It is measured in anechoic room.

*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Wall mounted type

PKFY-P VBM-E

PKFY-P VHM-E

PKFY-P VKM-E



PKFY-P VBM



PKFY-P VHM



PKFY-P VKM

Elegant Design and Compact Dimensions Ideal for Offices, Stores and Residential Uses.



Capacity range

Capacity	P15	P20	P25	P32	P40	P50	P63	P100
VBM*	●	●	●					
VHM				●	●	●		
VKM							●	●

*External LEV box (optional) is recommended for hotels, hospitals or dormitories where the background noise is low.

4-way piping provides more flexibility in selecting installation sites

All piping including drainage can be connected from the rear, right, base, and left of the unit, providing much greater flexibility in piping and selecting installation site.

Flat panel & Pure white finish

All models have changed from the grill design, adopting the flat panel layout. Pursuing a design that harmonizes with virtually any interior, the unit color has been changed from white to pure white.



PKFY-P VGM



PKFY-P VFM



PKFY-P VHM



PKFY-P VKM

Built-in signal receiver

PKFY-P VBM features

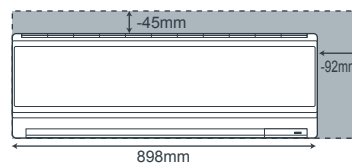
Compact profile

Quiet operation

PKFY-P VHM features

Compact size of 898mm

Width size reduced to match small size buildings and offices.



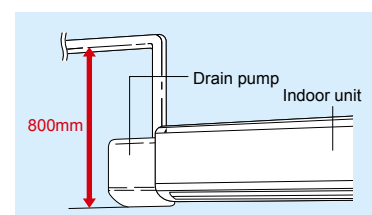
Comparison with PKFY-P VGM-E

Light unit

Approx. 3kg reduced from conventional model (P32-50). Easier installation.

Drain pump (option)

The optional drain pump allows the drain connection to be raised as high as 800mm, allowing more freedom in piping layout design.



► Specifications

			PKFY-P15VBM-E	PKFY-P20VBM-E	PKFY-P25VBM-E	PKFY-P32VHM-E	PKFY-P40VHM-E	PKFY-P50VHM-E
Power source			1-phase 220-240V 50Hz / 1-phase 220V 60Hz					
Cooling capacity		*1 kW	1.7	2.2	2.8	3.6	4.5	5.6
		*1 BTU/h	5,800	7,500	9,600	12,300	15,400	19,100
Cooling capacity		*5 kW	1.7	2.2	2.8	3.7	4.6	5.7
Heating capacity		*1 kW	1.9	2.5	3.2	4.0	5.0	6.3
		*1 BTU/h	6,500	8,500	10,900	13,600	17,100	21,500
Power consumption	Cooling*4	kW	0.04			0.04		
	Heating	kW	0.04			0.03		
Current	Cooling*4	A	0.20			0.40		
	Heating	A	0.20			0.30		
External finish(Munsell No.)			Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)		
Dimension H x W x D			mm(in.) 295 x 815 x 225 (11-5/8 x 32-1/8 x 8-7/8)			295 x 898 x 249(11-5/8 x 35-3/8 x 9-13/16)		
Net weight			kg(lbs.) 10 (23)			13(29)		
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
Fan	Type x Quantity		Line flow fan x 1					
	Airflow rate *2 (Lo-Mid2-Mid1-Hi)	m³/min	4.9-5.0-5.2-5.3	4.9-5.2-5.6-5.9	9-10-11	9-10.5-11.5	9-10.5-12	
		L/s	82-83-87-88	82-87-93-98	150-167-183	150-175-192	150-175-200	
		cfm	173-177-184-187	173-184-198-208	318-353-388	318-371-406	318-371-424	
	External static pressure	Pa	0					
Motor	Type	1-phase induction motor				DC motor		
	Output	kW	0.017				0.030	
Air filter			PP Honeycomb					
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)					ø12.7 (ø1/2) / ø15.88 (ø5/8) (Compatible)
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)					ø6.35 (ø1/4) / ø9.52 (ø3/8) (Compatible)
Field drain pipe diameter		mm(in.)	I.D.16 (5/8)					
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		dB(A)	29-31-32-33	29-31-34-36	34-37-41	34-38-41	34-39-43	

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).
- *3 It is measured in anechoic room.
- *4 Electrical characteristic of cooling are included optional drain-pump.
- *5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

			PKFY-P63VKM-E	PKFY-P100VKM-E
Power source			1-phase 220-230-240V 50Hz / 1-phase 220V 60Hz	
Cooling capacity	*1	kW	7.1	11.2
	*1	BTU/h	24,200	38,200
Cooling capacity	*5	kW	7.2	11.4
	*1	BTU/h	27,300	42,600
Power consumption	Cooling *4	kW	0.05	0.08
	Heating	kW	0.04	0.07
Current	Cooling *4	A	0.37	0.58
	Heating	A	0.30	0.51
External finish(Munsell No.)			Plastic (1.0Y 9.2/0.2)	
Dimension H x W x D			mm(in.) 365 x 1,170 x 295 (14-3/8 x 46-1/16 x 11-5/8)	
Net weight			kg(lbs.) 21 (46)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	
Fan	Type x Quantity		Line flow fan x 1	
	Airflow rate *2	m³/min	16-20	20-26
		L/s	267-333	333-433
	(Lo-Hi)	cfm	565-706	706-918
Motor	External static pressure		Pa 0	
	Type		DC motor	
Output		kW	0.056	
Air filter			PP Honeycomb	
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)
	Liquid (Flare)	mm(in.)	ø9.52 (ø3/8)	
Field drain pipe diameter		mm(in.)	I.D. 16(5/8)	
Sound pressure level (Lo-Hi) *2 *3		dB(A)	39-45	41-49

Notes:

- *1 Cooling/heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
- *2 Airflow rate/Sound pressure level are in (low-high).
- *3 It is measured in anechoic room.
- *4 Electrical characteristic of cooling are included optional drain-pump.
- *5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Floor standing exposed

PFFY-P VKM-E2



For living rooms, bed rooms, or offices where a sophisticated design is required. The latest Mitsubishi innovation – floor-standing air-conditioner sophisticated in design, rich in function.

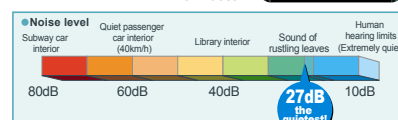


Quiet operation

Mitsubishi Electric air conditioners have always been some of the quietest models available in the market. Our new floor-standing models are no exception. It can create a silent and comfortable space where the occupants would not even recognize the existence of air conditioner operation.

ONLY
27dB

*2.5kw class

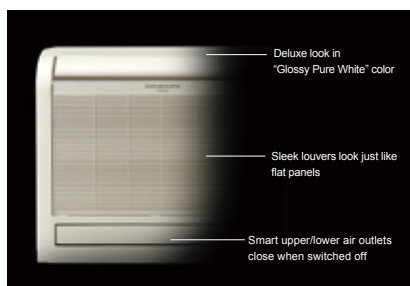


Sophisticated Design

From Mitsubishi Electric, an innovative new floor-standing air-conditioner. Our pleasing mix of streamlined form and diversified function.

Engineered to keep room walls free, furnish comfy cooling in summer, toasty heating in winter. The "Glossy Pure White" colour ensures a deluxe look, the perfect match for any room. Both upper and lower air outlets remain closed when switched OFF, in a smart and striking image.

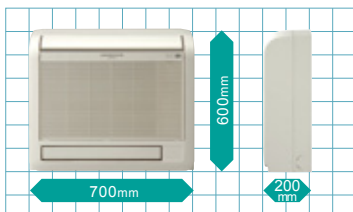
A superb new air-conditioner from Mitsubishi, providing a handsome fit for your own distinctive interior.



Slim but Mighty

The unit body is slim and trim, the essence in compact. An ideal size for living rooms, bedrooms, and more. The removable and washable front panel makes cleaning a snap.

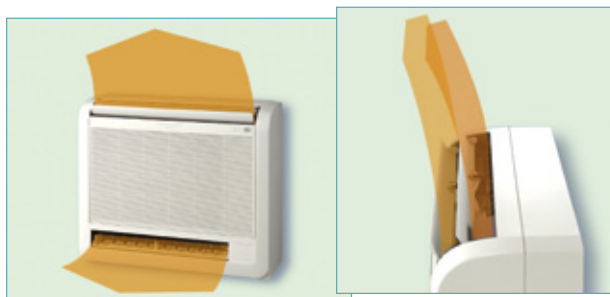
Easy and regular cleaning allows your air-conditioner stay beautiful while keeping its energy-efficient operation always possible.



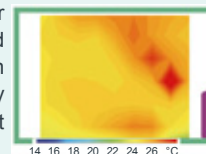
Optimum Air Distribution

Comfy room temperatures are realized by the optimum, powerful and efficient air distribution through upper and lower air outlets. The upper vane angle is remote controllably, with 5 air flow direction levels (+Swing and Auto modes) and 4 wind power levels (+Auto mode).

By setting the vane angle almost vertical, annoying direct wind can be avoided for your better comfort.



The air from both upper and lower air outlets is optimally controlled and distributed evenly to every corner of the room. In heating mode, the warm air is smartly controlled to stay at the floor level: Your feet do not feel chilled any more!



► Specifications

			PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2
Power source			1-phase 220-240V 50Hz			
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5
	*1	BTU/h	7,500	9,600	12,300	15,400
Cooling capacity	*4	kW	2.2	2.8	3.7	4.6
	*1	kW	2.5	3.2	4.0	5.0
Heating capacity	*1	BTU/h	8,500	10,900	13,600	17,100
	Power consumption	Cooling	kW	0.025	0.025	0.025
Heating		kW	0.025	0.025	0.025	0.028
Current	Cooling	A	0.20	0.20	0.20	0.24
	Heating	A	0.20	0.20	0.20	0.24
External finish			Plastic (Pure white)			
Dimension		mm	600 x 700 x 200			
H x W x D		in.	23-5/8 x 27-9/16 x 7-7/8			
Net weight		kg(lbs.)	15 (34)			
Heat exchanger			Cross fin (Aluminium plate fin and copper tube)			
Fan	Type x Quantity		Line flow fan x 2			
	Airflow rate *2 (Lo-Mid-Hi-SHi)	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
	External static pressure	Pa	0			
Motor	Type		DC motor			
	Output	kW	0.03 x 2			
Air filter			PP honeycomb fabric (Catechin Filter)			
Refrigerant	Gas(Flare)	mm(in.)	ø12.7 (ø1/2)			
pipe diameter	Liquid(Flare)	mm(in.)	ø6.35 (ø1/4)			
Field drain pipe diameter			I.D.16 (5/8)			
Sound pressure level (Lo-Mid-Hi-SHi)		*2 dB(A)	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44

Notes:

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

Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB

Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB

*2 Airflow rate/Sound pressure level are in (low-middle-high-shigh).

*3 It is measured in anechoic room.

*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

Floor standing exposed

PFFY-P VLEM-E



A compact cased unit providing simple, effective air conditioning in perimeter zones.



Its basic design is suitable for various locations such as offices, shops, and hospitals. A remote controller can be mounted on the unit on site.

Compact unit for easy air conditioning in perimeter zones.

The unit is easy to install, and at only 220mm (8-11/16 in.) deep offers an unobtrusive method of delivering highly efficient air conditioning performance.

► Specifications

			PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E	
Power source			1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz						
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Cooling capacity	*5	kW	2.2	2.8	3.7	4.6	5.7	7.2	
		kW	2.5	3.2	4.0	5.0	6.3	8.0	
Heating capacity	*1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
	Power consumption	Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
Heating		kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
Current	Cooling	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
	Heating	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
External finish(Munsell No.)			Acrylic paint (5Y 8/1)						
Dimension H x W x D	mm		630 x 1,050 x 220		630 x 1,170 x 220		630 x 1,410 x 220		
	in.		24-13/16 x 41-3/8 x 8-11/16		24-13/16 x 46-1/8 x 8-11/16		24-13/16 x 55-9/16 x 8-11/16		
Net weight		kg(lbs.)	28 (62)		30 (67)	32 (71)	36 (80)	37 (82)	
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Quantity		Sirocco fan x 1			Sirocco fan x 2			
	Airflow rate (Lo-Hi)	*2	m³/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5
		L/s	92-108		117-150	150-183	200-233	200-258	
		cfm	194-230		247-318	318-388	424-494	424-547	
External static pressure		Pa	0						
Motor	Type		1-phase induction motor						
	Output		kW	0.015	0.018	0.030	0.035	0.050	
Air filter			PP Honeycomb fabric (washable)						
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)						ø15.88 (ø5/8)
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)						ø9.52 (ø3/8)
Field drain pipe diameter		mm(in.)	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end :20 (13/16))>						
Sound pressure level (Lo-Hi)		*2 *3 *4	dB(A)	34-40	35-40	38-43	40-46		

Notes:

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

Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB

Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 Air flow rate/Sound pressure level are in (Low-High)

*3 Measured point : 1m x 1m, Power supply : AC240V/50Hz

· 1dB(A) lower at AC230V/50Hz

· 2dB(A) lower at AC220V/50Hz

· 3dB(A) lower at 1.5m x 1.5m point

*4 It is measured in anechoic room.

*5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



INDOOR UNIT

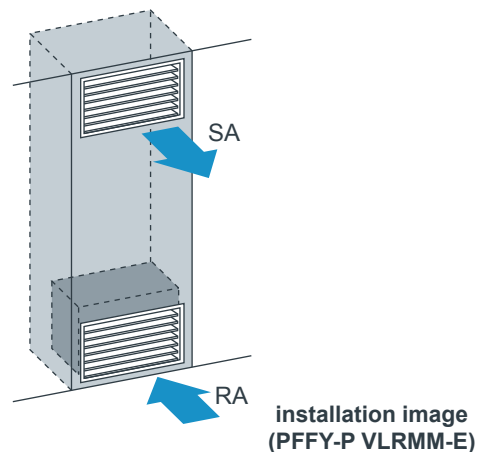
Floor mounted concealed type

PFFY-P VLRM-E

PFFY-P VLRMM-E



Easily installable floor-standing concealed unit for perimeter zone



Compact unit for easy air conditioning in perimeter zones.

The unit is designed for applications requiring a built-in, concealed, floor-standing unit.

Installation flexibility

The unit can be field-converted from top discharge to front discharge to increase installation flexibility.

Maximum external static pressure 60Pa (VLRMM model)

The additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configuration.

► Specifications

			PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E
Power source			1-phase 220-240V 50Hz / 1-phase 208-230V 60Hz					
Cooling capacity		*1 kW	2.2	2.8	3.6	4.5	5.6	7.1
		*1 BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
Cooling capacity		*5 kW	2.2	2.8	3.7	4.6	5.7	7.2
Heating capacity		*1 kW	2.5	3.2	4.0	5.0	6.3	8.0
		*1 BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
Power consumption	Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
	Heating	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11
Current	Cooling	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
	Heating	A	0.19 / 0.25		0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47
External finish(Munsell No.)			Galvanized steel plate					
Dimension H x W x D		mm	639 x 886 x 220		639 x 1,006 x 220		639 x 1,246 x 220	
		in.	25-3/16 x 34-15/16 x 8-11/16		25-3/16 x 39-5/8 x 8-11/16		25-3/16 x 49-1/16 x 8-11/16	
Net weight		kg(lbs.)	22 (49)		24 (53)	25 (56)	29 (64)	30 (67)
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)					
Fan	Type x Quantity		Sirocco fan x 1		Sirocco fan x 2			
	Airflow rate (Lo-Hi)	*2 m³/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5
		L/s	92-108		117-150	150-183	200-233	200-258
		cfm	194-230		247-318	318-388	424-494	424-547
External static pressure		Pa	0					
Motor	Type		1-phase induction motor					
	Output	kW	0.015		0.018	0.030	0.035	0.050
Air filter			PP Honeycomb fabric (washable)					
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)					ø15.88 (ø5/8)
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)					ø9.52 (ø3/8)
Field drain pipe diameter		mm(in.)	I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end :20 (13/16))>					
Sound pressure level (Lo-Hi)		*2 *3 *4 dB(A)	34-40		35-40	38-43		40-46

Notes:

- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- *2 Air flow rate/Sound pressure level are in (Low-High)
- *3 Measured point : 1m x 1m, Power supply : AC240V/50Hz
1dB(A) lower at AC230V/50Hz 2dB(A) lower at AC220V/50Hz 3dB(A) lower at 1.5m x 1.5m point
- *4 It is measured in anechoic room.
- *5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

			PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E	
Power source			1-phase 220-240V 50Hz / 1-phase 220-240V 60Hz						
Cooling capacity	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Cooling capacity	*4	kW	2.2	2.8	3.7	4.6	5.7	7.2	
Heating capacity	*1	kW	2.5	3.2	4.0	5.0	6.3	5.7	
	*1	BTU/h	8,500	10,900	13,600	17,100	21,500	8.0	
Power consumption	Cooling	kW	0.04		0.04	0.05	0.05	27,300	
	Heating	kW	0.04		0.04	0.05	0.05	0.07	
Current	Cooling	A	0.34		0.38	0.43	0.48	0.07	
	Heating	A	0.34		0.38	0.43	0.48	0.59	
External finish(Munsell No.)			Galvanized steel plate						0.59
Dimension H x W x D	mm		639 x 886 x 220		639 x 1,006 x 220		639 x 1,246 x 220		
	in.		25-3/16 x 34-15/16 x 8-11/16		25-3/16 x 39-5/8 x 8-11/16		25-3/16 x 49-1/16 x 8-11/16(56)		
Net weight	kg(lbs.)		21 (47)		24 (53)	25 (56)	29 (64)		
Heat exchanger			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Quantity		Sirocco fan x 1		Sirocco fan x 2				
	Airflow rate (Lo-Mid-Hi)	m³/min	4.5-5.5-6.5		6.5-7.5-9.0	8.0-9.5-11.0	10.0-12.0-14.0	11.0-13.0-15.5	
		L/s	75-92-108		108-125-150	133-158-183	167-200-233	183-217-258	
		cfm	159-194-230		230-265-318	282-335-388	353-424-494	388-459-547	
	External static pressure *2	Pa	20/40/60						
Motor	Type		DC brushless motor						
	Output	kW	0.096						
Air filter			PP Honeycomb fabric (washable)						
Refrigerant	Gas	mm(in.)	ø12.7 (ø1/2) Brazed						ø15.88 (ø5/8) Brazed
pipe diameter	Liquid	mm(in.)	ø6.35 (ø1/4) Brazed						ø9.52 (ø3/8) Brazed
Field drain pipe diameter			I.D.26 (1) <Accessory hose O.D.27 (1-3/32) (top end :20 (13/16))>						
Sound pressure	20Pa	dB(A)	31-36-40		27-32-37	30-36-40	32-37-41	35-40-44	
level (Lo-Mid-Hi)	40Pa	dB(A)	34-39-42		30-35-41	32-38-42	35-40-44	36-42-47	
	*3 60Pa	dB(A)	35-40-43		32-37-42	3.5-39-44	36-41-45	38-43-48	

Notes:

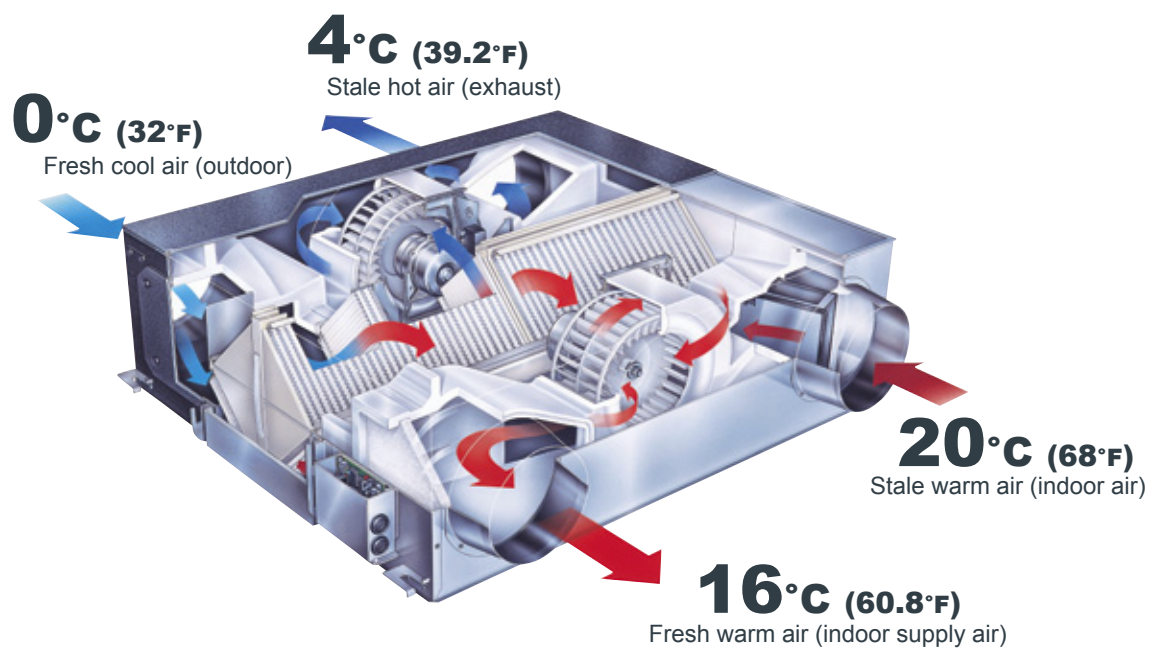
- *1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
pipe length : 7.5m(24-9/16ft) Height difference : 0m(0ft)
- *2 The external static pressure is set to 20Pa at factory shipment.
- *3 The sound pressure level in operation is measured at 1m apart from the front side and the bottom side of the unit in anechoic room.
(Noise meter A-scale value) Connect the duct of 1m in length to the air outlet.
- *4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB





The Ventilation System for Enhanced Air Quality - Lossnay

Combine with Lossnay Ventilation System Enhanced Air Quality.
Unified Control System Allows Greater Design Freedom.



LGH-15RX5 [150m³/h Single phase 220-240V 50Hz]
LGH-25RX5 [250m³/h Single phase 220-240V 50Hz]
LGH-35RX5 [350m³/h Single phase 220-240V 50Hz]
LGH-50RX5 [500m³/h Single phase 220-240V 50Hz]
LGH-65RX5 [650m³/h Single phase 220-240V 50Hz]

LGH-80RX5 [800m³/h Single phase 220-240V 50Hz]
LGH-100RX5 [1000m³/h Single phase 220-240V 50Hz]
LGH-150RX5 [1500m³/h Single phase 220-240V 50Hz]
LGH-200RX5 [2000m³/h Single phase 220-240V 50Hz]

Heat-Exchange Efficiency Obtainable Only with Lossnay.

The secret to the unmatched comfort provided by Lossnay core is the cross-flow, plate-fin structure off the heat-exchange unit. A diaphragm made of a specially processed paper fully separates inducted and exhausted air supplies, ensuring that only fresh air is introduced to the indoor environment.

The superior heat-transfer and moisture permeability of the special paper assure highly effective total heat exchange (temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.

LOSSNAY Technology

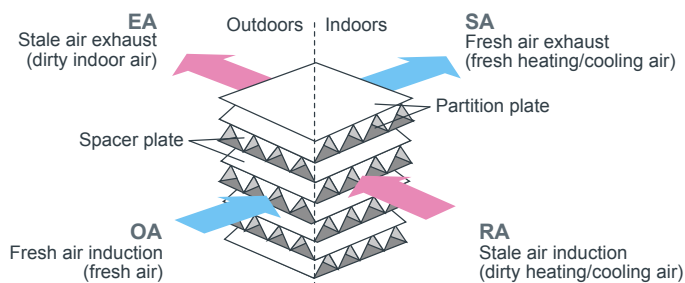
- **Two paths ventilation**

LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.

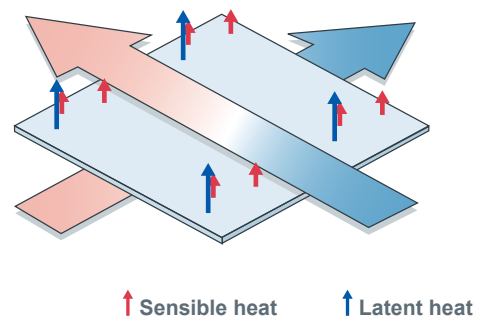
- **Total energy recover**

LOSSNAY returns BOTH sensible heat and latent heat.

A. Two paths ventilation

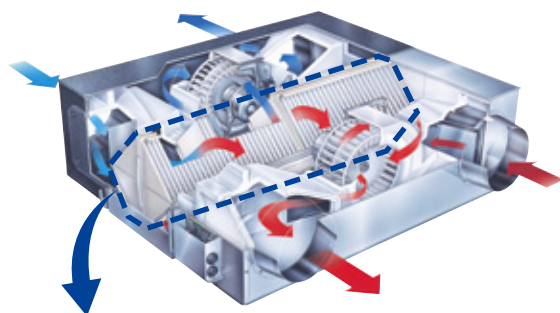


B. Total Energy transfer



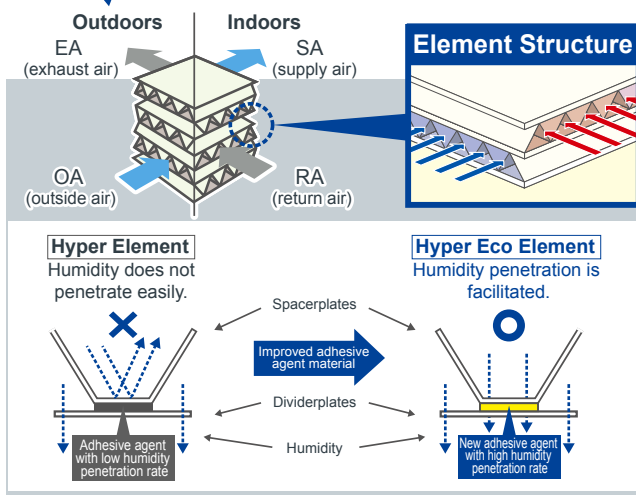
- **Hyper Eco Core**

Better energy conservation by improved total heat exchange efficiency.



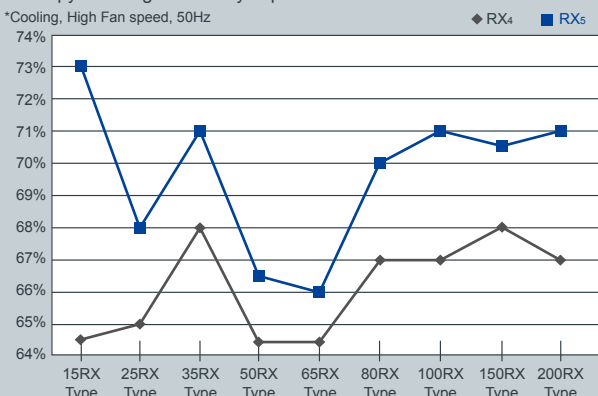
Introducing the new Hyper Eco Element

Mitsubishi's newly developed Hyper Eco Element is on board, offering the industry's best total heat exchange efficiency. Energy conservation performance has been improved not only by reducing the air conditioning load associated with ventilation, but also by facilitating humidity penetration.



Enthalpy exchange efficiency improve

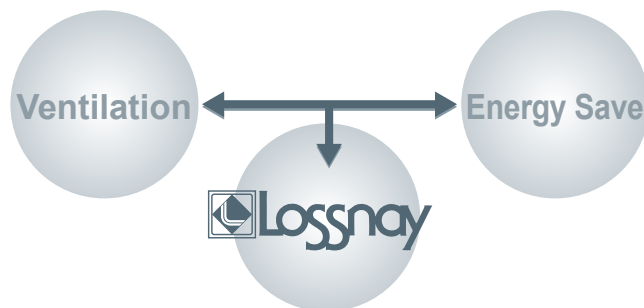
*Cooling, High Fan speed, 50Hz



RX5 SERIES

Why LOSSNAY is necessary.

- **Without ventilation...**
Lack of Ventilation makes people sick by dirty indoor air including CO₂, Dust, Bacteria.
- **If just opening windows...**
Opening windows eliminates dirty air BUT wastes much air-con energy.
- **So we recommend LOSSNAY**
LOSSNAY is simultaneous pursuit of Ventilation and Energy Saving.



• This is LOSSNAY !

ADVANTAGES

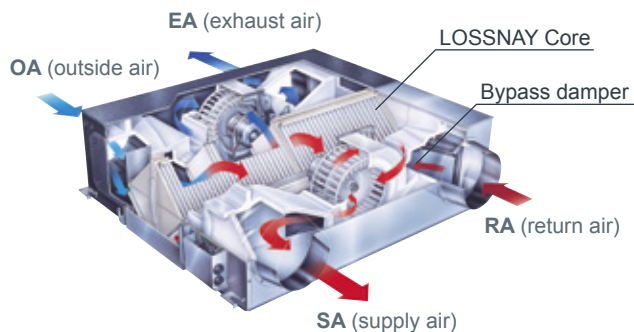
Clean air supply, dirty air exhaust by Two air paths (OA → SA and RA → EA)

Energy recovery by LOSSNAY Core

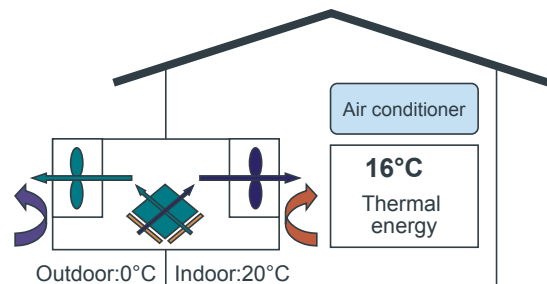
Free cooling by bypass damper

MULTI VENTILATION MODE for multi ventilation request (Power supply, Power supply/exhaust, Power exhaust)

UNIT STRUCTURE



Energy Recovery Image



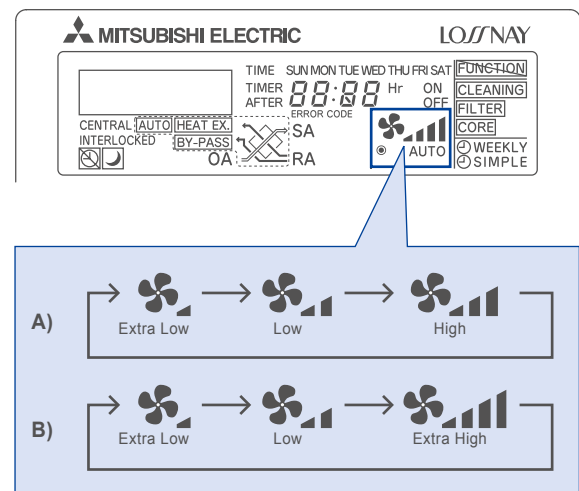
How much recovery?

OA temp. : 0°C → SA temp. : 16°C (Indoor 20°C)

Extra Low Mode

- Additional energy conservation by using a four-level air volume system that allows more precise control.

In addition to the conventional Extra High, High, and Low modes, an Extra Low mode is added to provide a more dynamic range of air volume settings and versatility in a variety of installation environments, yielding much better energy conservation. Using a simplified timer function, it switches to Extra Low operation when the operation stop button is activated and it is accordingly possible to implement 24-hour energy conservation ventilation.



- * The Extra High and High ventilation modes are selectable by the initial setting.
- * Extra-Low not equipped LGH-150RXs and 200RXs.
- * The ventilation mode is actually selected in three levels, and the remote controller also displays these three levels.

Energy Saving by ⌚ WEEKLY timer

Air volume level can be set hourly (max 8 times) and weekly. You can pre-set air volume according to the predictable requirement so that LOSSNAY can automatically operate at only necessary air-speed at the specified time period, which saves power consumption while maintaining the indoor air quality. Besides, once the weekly timer has been set, no switching on-off is required.

Example A (Hourly)

current RX_s series with PZ-41SLB controller



new RX_s series with PZ-60DR-E



Total power consumption in one day : LGH-100RX₄-E : 6,600W (14 hours)
 LGH-100RX₅-E : 5,390W (14 hours) → **1,210W (18%) less**

Example B (Weekly)



New function: "By-pass" Ventilation External Control Setting

In addition to the automatic damper open/close function, open/close control via external devices is now possible, delivering a "By-pass" ventilation system that is suitable to the installed environment.

Establish the wire connection by inserting the optional remote display adaptor (PAC-SA88HA-E) in the connector CN16 (Ventilation mode selector).

With SW1 is "ON", the ventilation mode of LOSSNAY is changed to the By-pass ventilation regardless of the setting on the remote controller.

•Automatic ventilation setting

The automatic damper mode automatically provides the correct ventilation for the conditions in the room. The following shows the effect "By-pass" ventilation will have under various conditions.

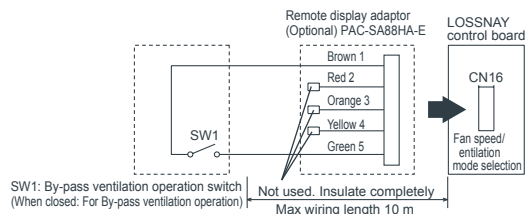
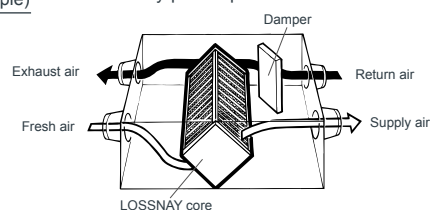
1. Reduces cooling load

If the air outside is cooler than the air inside the building during the cooling season (such as early morning or at night), "By-pass" ventilation will draw in the cooler outside air and reduce the cooling load on the system.

Control devices (example)

- Temperature sensor
- Humidity sensor
- Timers

"By-pass" operation



2. Night purge

"By-pass" ventilation can be used to release hot air from inside the building that has accumulated in buildings a business district during the hot summer season.

3. Office equipment room cooling

During cold season, fresh air can be drawn in and used as is to cool rooms where the temperature has risen due to the use of office equipment.

* When the outdoor air temperature drops lower than 8°C it changes to the heat exchange ventilation. (Display of the remote controller does not change.)

* In the case of "By-pass" ventilation, the supply air temperature slightly rises more than the outside air temperature because of the heat effect around the ducts or the unit motors.

New Remote Controller PZ-60DR-E

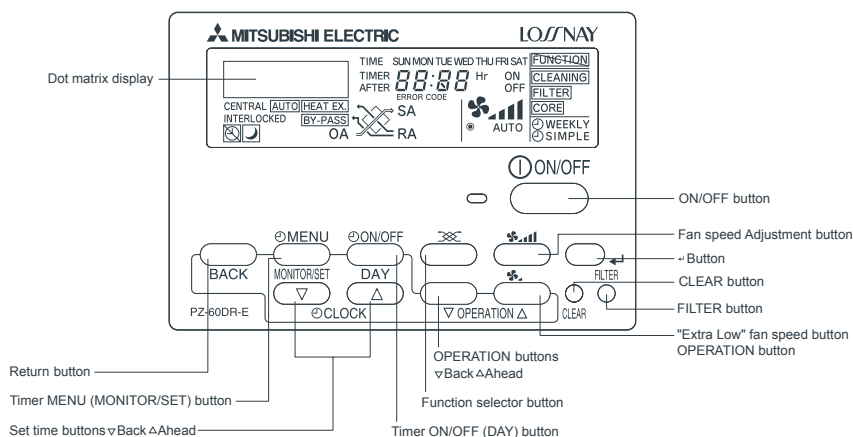
A new remote controller for the RX5 series is now available. In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of new functions which also pursue additional energy conservation.

The appearance of the remote controller conforms to Mitsubishi air conditioner interface design standards.

Functions that were set using Dip-Switch on the LOSSNAY main unit can now be configured as needed using the new remote controller.

This eliminates the need to crawl under the eaves to change operation settings.

Also, a newly adopted dot matrix display provides much more information, making it easy to check maintenance indications, operation status display, and explanations required when configuring settings.





Model line up

LGH-15~100RX5-E

■ Specification

LGH-15RX5-E

Model		LGH-15RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.44-0.46	0.37-0.38	0.25-0.25	0.14-0.15	0.45-0.46	0.37-0.38	0.25-0.26	0.14-0.15
Power consumption (W)		96-110	80-90	53-59	30-35	97-110	81-91	54-61	30-35
Air volume	(m ³ /h)	150	150	110	70	150	150	110	70
	(L/s)	42	42	31	19	42	42	31	19
External static pressure	(mmH ₂ O)	10.2-10.7	6.6-7.1	3.6-4.1	1.4	10.2-10.7	6.6-7.1	3.6-4.1	1.4
	(Pa)	100-105	65-70	35-40	14	100-105	65-70	35-40	14
Temperature exchange efficiency (%)		82.0	82.0	84.0	85.5	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	75.0	75.0	77.5	81.0	—	—	—	—
	Cooling	73.0	73.0	76.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		27.5-28	26.5-27	22-23.5	18	28.5-29	27-28	23-24	18-19
Weight (kg)		20							
Starting current		Under 0.8 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 6 dB greater than the indicated value. (at High Fan speed)

LGH-25RX5-E

Model		LGH-25RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.52-0.55	0.47-0.48	0.26-0.27	0.17-0.18	0.53-0.55	0.47-0.48	0.26-0.27	0.17-0.18
Power consumption (W)		113-129	102-114	56-62	36-42	115-131	103-115	56-63	36-42
Air volume	(m ³ /h)	250	250	155	105	250	250	155	105
	(L/s)	69	69	43	29	69	69	43	29
External static pressure	(mmH ₂ O)	8.2-8.7	5.1-6.1	2-2.5	0.9	8.2-8.7	5.1-6.1	2-2.5	0.9
	(Pa)	80-85	50-60	20-25	9	80-85	50-60	20-25	9
Temperature exchange efficiency (%)		79.0	79.0	81.5	83.5	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	69.5	69.5	74.0	77.5	—	—	—	—
	Cooling	68.0	68.0	72.5	76.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		26-27	25-26	20-21.5	18-19	26.5-27.5	25.5-26.5	20.5-22	18-19
Weight (kg)		20							
Starting current		Under 0.9 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

LGH-35RX5-E

Model		LGH-35RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		0.92-0.92	0.74-0.74	0.5-0.51	0.28-0.3	0.93-0.94	0.77-0.77	0.51-0.52	0.28-0.3
Power consumption (W)		195-212	160-169	105-116	58-69	197-217	164-173	105-116	58-69
Air volume	(m ³ /h)	350	350	210	115	350	350	210	115
	(L/s)	97	97	58	32	97	97	58	32
External static pressure	(mmH ₂ O)	15.8-16.3	7.6-8.2	2.5-3.1	0.9	15.8-16.3	7.6-8.2	2.5-3.1	0.9
	(Pa)	155-160	75-80	25-30	9	155-160	75-80	25-30	9
Temperature exchange efficiency (%)		80.0	80.0	85.0	88.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	71.5	71.5	76.5	81.5	—	—	—	—
	Cooling	71.0	71.0	75.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		32-32	28.5-29.5	21.5-23	18	32.5-32.5	29.5-30.5	21.5-24	18
Weight (kg)		29							
Starting current		Under 2.4 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)





LGH-15~100RX5-E

LGH-50RX5-E

Model		LGH-50RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		1.2-1.25	1.0-1.0	0.85-0.85	0.4-0.4	1.25-1.25	1.0-1.0	0.85-0.85	0.4-0.4
Power consumption (W)		255-286	207-228	175-190	80-95	260-290	210-230	180-195	80-95
Air volume	(m³/h)	500	500	390	180	500	500	390	180
	(L/s)	139	139	108	50	139	139	108	50
External static pressure	(mmH ₂ O)	15.3-15.8	6.6-9.2	4.1-6.1	1.0	15.3-15.8	6.6-9.2	4.1-6.1	1.0
	(Pa)	150-155	65-90	40-60	10	150-155	65-90	40-60	10
Temperature exchange efficiency (%)		78.0	78.0	81.0	86.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	69.0	69.0	71.0	78.0	—	—	—	—
	Cooling	66.5	66.5	68.0	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		33-34	30.5-32	26.5-28	19	34-35	31-32.5	27-29	19
Weight (kg)		32							
Starting current		Under 3.0 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)

LGH-65RX5-E

Model		LGH-65RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6	1.7-1.8	1.5-1.5	1.2-1.2	0.6-0.6
Power consumption (W)		350-380	308-322	248-265	120-140	350-385	310-335	250-265	120-140
Air volume	(m³/h)	650	650	520	265	650	650	520	265
	(L/s)	181	181	144	74	181	181	144	74
External static pressure	(mmH ₂ O)	11.2-12.2	6.1-8.2	4.1-5.1	0.8	11.2-12.2	6.1-8.2	4.1-5.1	0.8
	(Pa)	110-120	60-80	40-50	8	110-120	60-80	40-50	8
Temperature exchange efficiency (%)		77.0	77.0	80.0	86.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	68.5	68.5	70.5	78.0	—	—	—	—
	Cooling	66.0	66.0	68.5	77.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		34-34.5	32-33	28.5-31.5	22	34.5-35	32.5-33.5	28.5-30.5	22-22.5
Weight (kg)		40							
Starting current		Under 4.4 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

LGH-80RX5-E

Model		LGH-80RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65
Power consumption (W)		380-415	345-370	315-340	125-145	380-415	345-370	315-340	120-145
Air volume	(m³/h)	800	800	700	355	800	800	700	355
	(L/s)	222	222	194	99	222	222	194	99
External static pressure	(mmH ₂ O)	14.8-15.3	10.7-12.2	8.2-9.7	2	14.8-15.3	10.7-12.2	8.2-9.7	2
	(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20
Temperature exchange efficiency (%)		79.0	79.0	80.5	87.5	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	71.0	71.0	72.5	79.5	—	—	—	—
	Cooling	70.0	70.0	71.5	79.5	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		33.5-34.5	32-33	30-31	22	34.5-35.5	33-34	31-32	22
Weight (kg)		53							
Starting current		Under 3.8 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)



LGH-15~100RX5-E



LGH-150/200RX5-E

LGH-100RX5-E

Model		LGH-100RX5-E							
Frequency / Power source		50Hz / Single phase 220-240V							
Ventilation mode		LOSSNAY ventilation				By-pass ventilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low
Current (A)		2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9	2.3-2.4	2.1-2.1	1.7-1.7	0.9-0.9
Power consumption (W)		500-535	445-475	350-380	175-200	510-550	460-485	365-395	175-200
Air volume	(m³/h)	1000	1000	755	415	1000	1000	755	415
	(L/s)	278	278	210	115	278	278	210	115
External static pressure	(mmH ₂ O)	16.3-17.3	10.2-11.2	5.6-6.1	1.8	16.3-17.3	10.2-11.2	5.6-6.1	1.8
	(Pa)	160-170	100-110	55-60	18	160-170	100-110	55-60	18
Temperature exchange efficiency (%)		80.0	80.0	83.0	87.0	—	—	—	—
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	74.0	80.0	—	—	—	—
	Cooling	71.0	71.0	73.0	79.0	—	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		36-37	34-35	31-32.5	21-22	37-38	35-36	32-33	21-22
Weight (kg)		59							
Starting current		Under 4.6 A Less							

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 17 dB greater than the indicated value. (at High Fan speed)

LGH-150RX5-E

Model		LGH-150RX5-E					
Frequency / Power source		50Hz / Single phase 220-240V					
Ventilation mode		LOSSNAY ventilation			By-pass ventilation		
Fan speed		Extra High	High	Low	Extra High	High	Low
Current (A)		3.5-3.5	3.2-3.2	2.9-2.9	3.5-3.5	3.2-3.2	2.9-2.9
Power consumption (W)		760-830	690-740	630-680	765-835	695-745	635-685
Air volume	(m³/h)	1500	1500	1300	1500	1500	1300
	(L/s)	417	417	361	417	417	361
External static pressure	(mmH ₂ O)	16.3-17.8	13.3-13.8	9.7-10.2	16.3-17.8	13.3-13.8	9.7-10.2
	(Pa)	160-175	130-135	95-100	160-175	130-135	95-100
Temperature exchange efficiency (%)		80.0	80.0	81.0	—	—	—
Enthalpy exchange efficiency (%)	Heating	72.0	72.0	72.5	—	—	—
	Cooling	70.5	70.5	71.5	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		38-39	36-37.5	33.5-35	39-40.5	37.5-39	35.5-37
Weight (kg)		105					
Starting current		Under 7.3 A Less					

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 19 dB greater than the indicated value. (at High Fan speed)

LGH-200RX5-E

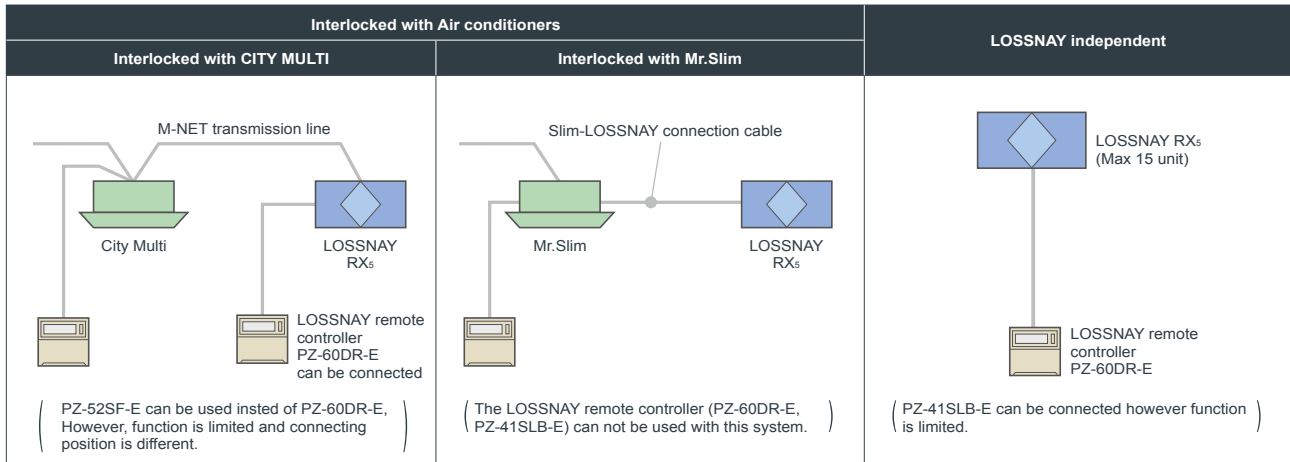
Model		LGH-200RX5-E					
Frequency / Power source		50Hz / Single phase 220-240V					
Ventilation mode		LOSSNAY ventilation			By-pass ventilation		
Fan speed		Extra High	High	Low	Extra High	High	Low
Current (A)		4.8-4.8	4.2-4.2	3.4-3.4	4.8-4.8	4.2-4.2	3.4-3.4
Power consumption (W)		1035-1100	910-980	715-785	1040-1110	915-980	720-785
Air volume	(m³/h)	2000	2000	1580	2000	2000	1580
	(L/s)	556	556	439	556	556	439
External static pressure	(mmH ₂ O)	16.3-16.8	10.2-10.7	6.1-6.6	16.3-16.8	10.2-10.7	6.1-6.6
	(Pa)	160-165	100-105	60-65	160-165	100-105	60-65
Temperature exchange efficiency (%)		80.0	80.0	83.0	—	—	—
Enthalpy exchange efficiency (%)	Heating	72.5	72.5	73.5	—	—	—
	Cooling	71.0	71.0	72.0	—	—	—
Noise (dB) (Measured at 1.5m under the center of panel in an anechoic chamber)		39.5-40	37-38	32.5-34	40.5-41	38-39	33.5-35
Weight (kg)		118					
Starting current		Under 11.9A Less					

*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

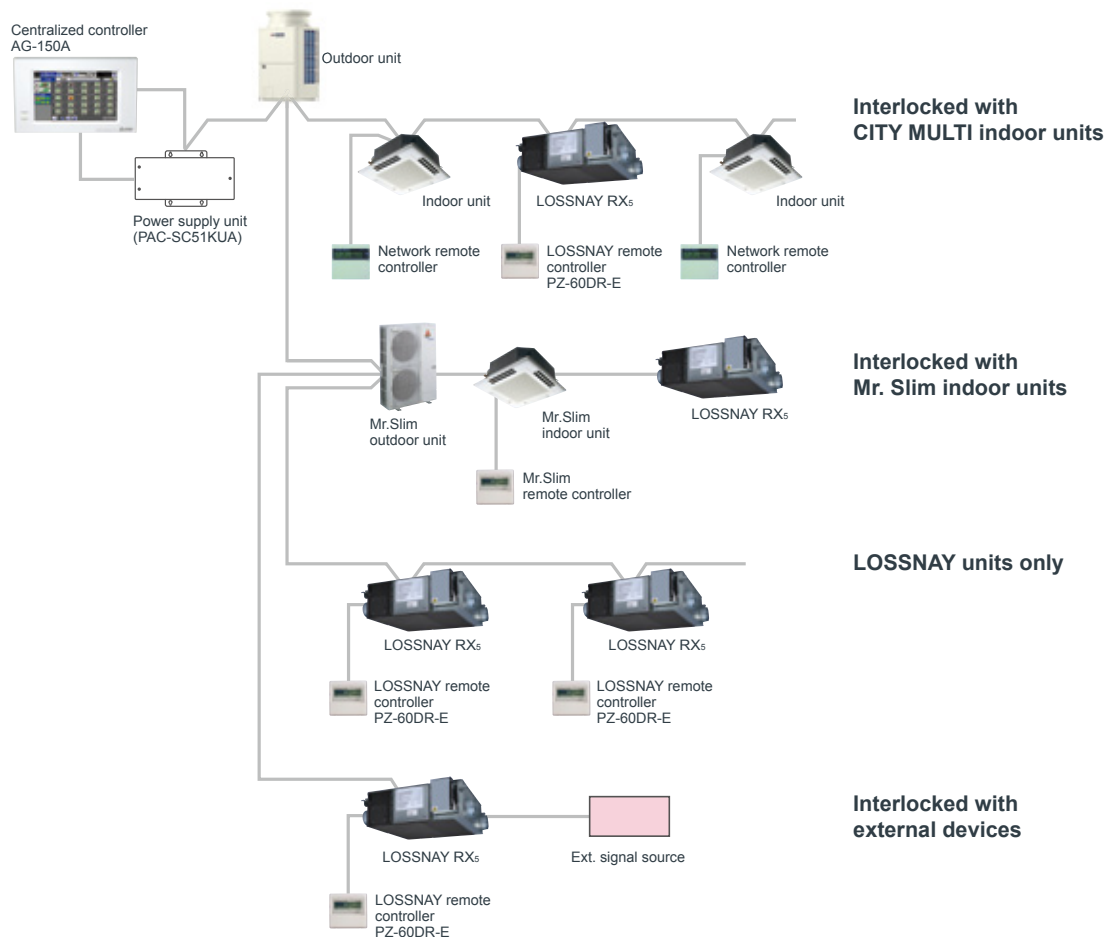


Control

■ The New Remote Controller PZ-60DR-E enable simple control setting



■ Centralized Controller System



Indoor Unit

VL-100U-E



Heat Recovery Ventilators for Residential Use

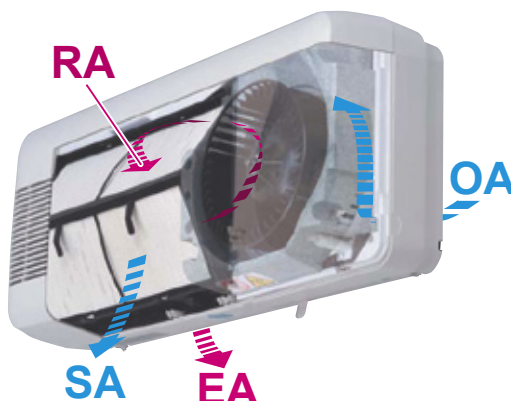
Time Spent in Comfort with a Breath of Fresh Air

Energy Saving

Reduced heat loss contributes to lower air conditioning costs.

Fresh Air

Simultaneous air supply/exhaust function ensures that air stays fresh with efficient ventilation.



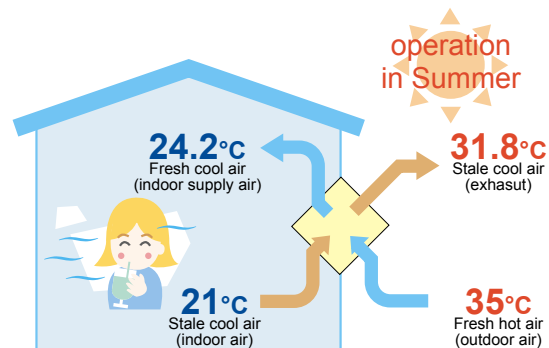
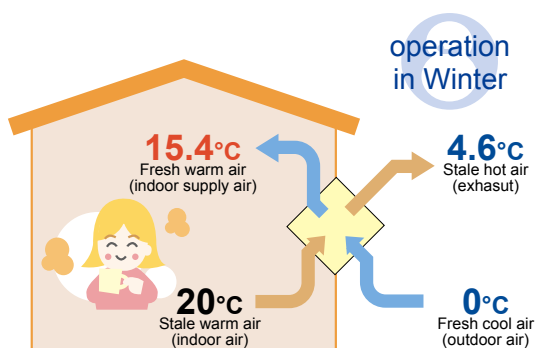
Quiet Operation

Super sound insulation and quiet operation.

Simple Installation

Easy Installation through boring of 2 installation holes.

Total-Heat-Exchange Concept



•Heat-exchange calculating equation

$$\text{Indoor supply-air temperature (°C)} = \text{Outdoor temperature (°C)} + \left\{ \text{Indoor temperature (°C)} - \text{Outdoor temperature (°C)} \right\} \times \text{temp exchange efficiency (\%)}$$

Calculation example : $15.4^{\circ}\text{C} = 0^{\circ}\text{C} + (20^{\circ}\text{C} - 0^{\circ}\text{C}) \times 77\%$ (Low notch)

•Heat-exchange calculating equation

$$\text{Indoor supply-air temperature (°C)} = \text{Outdoor temperature (°C)} - \left\{ \text{Outdoor temperature (°C)} - \text{Indoor temperature (°C)} \right\} \times \text{temp exchange efficiency (\%)}$$

Calculation example : $24.2^{\circ}\text{C} = 35^{\circ}\text{C} - (35^{\circ}\text{C} - 21^{\circ}\text{C}) \times 77\%$ (Low notch)

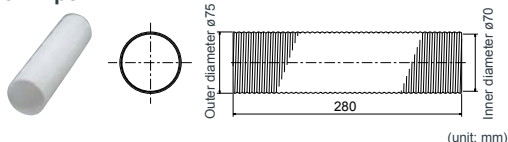
Specification

- Simple installation through boring of 2 installation holes.
- Low-noise(Less than 30dB at low notch).
- 1-motor 2-fan system. •Air-volume:low/high 2-notch.
- Air-supply/exhaust pipes and plastic weather cover are supplied as accessories.
- Equipped with an outdoor-air shutter. •Pull-string switch

Supply Voltage (V)	Power line frequency (Hz)	Notch	Air volume (m³/h)	Power Consumption (W)	Temp.exchange efficiency (%)	Noise (dB)	Weight (kg)
220-240	50	HI	105	26	70	39	6.5
		LO	65	23	77	29.5	
220	60	HI	90	26	73	37	
		LO	50	21	80	26	

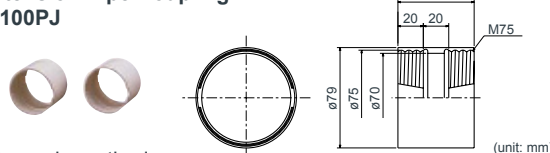
Optional parts

Extension Pipe P-100P



- Total length when connected to the pipe extension coupling is 300mm.

Extension Pipe Coupling P-100PJ



- Screw-in method

Indoor Unit

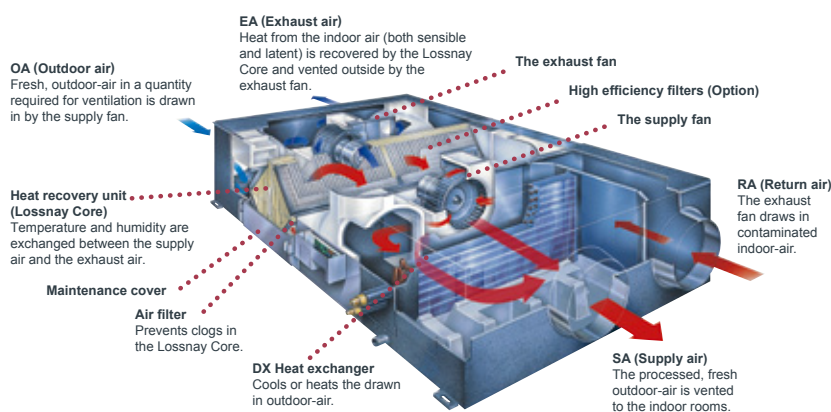


OA Processing Units



Ideal Indoor-Air Quality — For Your Comfort and Health

The OA (outdoor-air) Processing Unit creates an optimum indoor-air environment at an unparalleled rate of cost efficiency providing substantial energy savings. Forced air ventilating and humidifying functions unique to this system keep indoor-air fresh and free of contaminants preventing “sick building syndrome” and the spread of airborne viruses such as the flu. Another novel feature of the OA Processing Unit is the “Lossnay core,” a heat-exchange unit that functions to transfer heat efficiently, cutting ventilation load by as much as 70%. This special combination of functionality and performance designed to ensure users ample comfort and year-round health which cannot be found anywhere else on the market.



GUF-50RD(H)₃ *1
 [Cooling Capacity
 5.46 (DX coil:3.63, Lossnay:1.83)KW
 Heating capacity
 6.18 (DX coil:4.17, Lossnay:2.01)KW
 500m³/h Single phase 220-240V 50Hz]

GUF-100RD(H)₃ *1
 [Cooling Capacity
 11.17 (DX coil:7.32, Lossnay:3.85)KW
 Heating capacity
 12.50 (DX coil:8.30, Lossnay:4.20)KW
 1000m³/h Single phase 220-240V 50Hz
 *1 H : Humidifying Type]

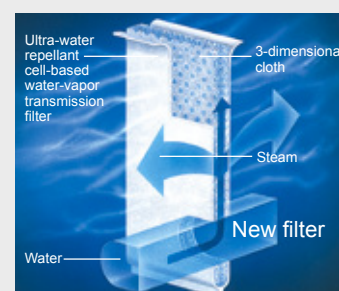
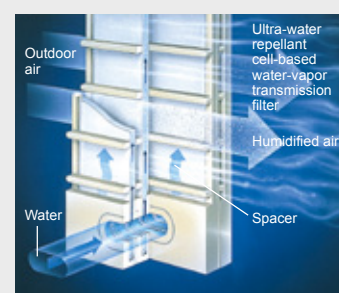
New Permeable Film Humidifier (RDH₃ model)

Comfortable Level of Humidity for Exceptionable Air Quality

The OA Processing Unit is equipped with a new permeable film humidifier developed and patented by Mitsubishi Electric. Steam transmission efficiency has been improved remarkably by lowering the resistance of the material. The use of a 3-layer film that allows only the transfer of steam prevents the production of white powder, so there is no need for the use of a water purifier.

Highly Efficient Humidification

Improvements in the system of airflow patterns and water injection techniques have resulted in a substantial increase in humidifying volume.



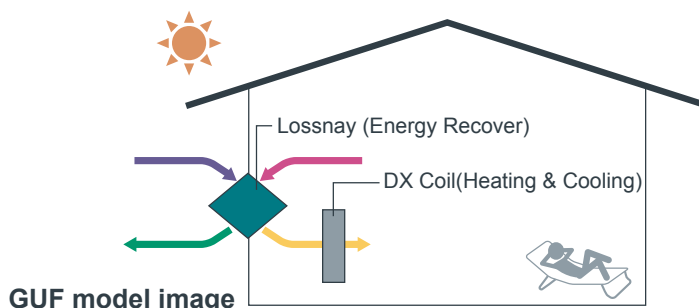
RDH3 SERIES

OUTDOOR AIR PROCESSING UNIT GUF type

General

GUF - For the finest indoor quality

GUF = [LOSSNAY] + [HEATING & COOLING]



GUF model image

Specification

Model			GUF-50RDH ₃ *3		GUF-100RDH ₃ *3		GUF-50RD ₃		GUF-100RD ₃	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz							
Cooling capacity	*1	kW	5.46	<1.83>	11.17	<3.85>	5.46	<1.83>	11.17	<3.85>
Figure in < > is the recovery capacity by LOSSNAY core.	*1	kcal / h	4,700	<1,600>	9,600	<3,300>	4,700	<1,600>	9,600	<3,300>
	*1	BTU / h	18,600	<6,200>	38,100	<13,100>	18,600	<6,200>	38,100	<13,100>
	Power input	W	235-265		480-505		235-265		480-505	
	Current input	A	1.15		2.20		1.15		2.20	
Heating capacity	*2	kW	6.18	<2.01>	12.50	<4.20>	6.18	<2.01>	12.50	<4.20>
Figure in < > is the recovery capacity by LOSSNAY core.	*2	kcal / h	5,300	<1,700>	10,800	<3,600>	5,300	<1,700>	10,800	<3,600>
	*2	BTU / h	21,100	<6,900>	42,700	<14,300>	21,100	<6,900>	42,700	<14,300>
	Power input	W	235-265		480-505		235-265		480-505	
	Current input	A	1.15		2.20		1.15		2.20	
Capacity equivalent to indoor unit			P32		P63		P32		P63	
Humidifying capacity		kg / h	2.7		5.4		-		-	
		lbs / h	6.0		12.0		-		-	
	Humidifier		Permeable film humidifier				-			
External finish			Galvanized, with grey insulation sheet							
External dimension H x W x D		mm	317 x 1,016 x 1,288		398 x 1,231 x 1,580		317 x 1,016 x 1,288		398 x 1,231 x 1,580	
		in.	12-1/2 x 40 x 50-3/4		15-11/16 x 48-1/2 x 62-1/4		12-1/2 x 40 x 50-3/4		15-11/16 x 48-1/2 x 62-1/4	
Net weight		kg (lbs)	57 (126)		98 (217)		54 (120)		92 (203)	
Heat exchanger	LOSSNAY core		Partition, Cross-flow structure, Special preserved paper-plate.							
	Refrigerant coil									
			Cross fin (Aluminum fin and copper tube)							
FAN	Type x Quantity		SA: Centrifugal fan (Sirocco fan) x 1							
			EA: Centrifugal fan (Sirocco fan) x 1							
	External static press.	Pa	125		135		140		140	
		mmH ₂ O	12.7		13.8		14.3		14.3	
	Motor type		Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2units							
	Motor output		-		-		-		-	
	Driving mechanism		Direct-driven by motor							
	Airflow rate (High value)	m ³ / h	500		1,000		500		1,000	
L / s		139		139		139		139		
cfm		294		589		294		589		
Sound pressure level (Low-High) (measured in anechoic room)		dB <A>	33.5-34.5		38-39		33.5-34.5		38-39	
Insulation material			Polyester sheet							
Air filter	Supplying air		Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method 65%)							
	Exhausting air									
			Non-woven fabrics filter (Gravitational method 82%)							
Protection device			Fuse							
Refrigerant control device			LEV							
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare		ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare	
	Gas	mm (in.)	ø12.7 (ø1/2) Flare		ø15.88 (ø5/8) Flare		ø12.7 (ø1/2) Flare		ø15.88 (ø5/8) Flare	
Diameter of drain pipe		mm (in.)	VP25							

Notes:

*1 Cooling : Indoor 27°CDB/19°CWB, Outdoor 35°CDB/24°CWB

*2 Heating : Indoor 20°CDB/13.8°CWB, Outdoor 7°CDB/16°CWB

*3 Available for limited countries. Please contact your local distributor for further information.





Remote Controller

- **Individual Remote Controller**
- **Centralized Remote Controller**



The importance of control

The need for control is paramount in order to optimise the performance of any air conditioning system and minimize its running costs. Mitsubishi Electric offers a wide range of control options designed to meet such needs.

Operating an air conditioning system without the right control can prove costly. It's therefore important to ensure that every system is correctly specified to the degree of control it requires. Mitsubishi Electric have a wide range of controls available 'off-the-shelf' and individual control systems can be specifically designed to match.

Good controls will benefit any application, large or small. Air conditioning products need to react to a variety of factors: different room sizes, usage and staff levels; changes in the climate; electronic equipment and lighting ...the list goes on. So whatever the application, optimum control of air conditioning systems is essential and will result in a constant, comfortable environment, which in turn is both energy and cost efficient.

A degree of difference

When an air conditioning system is not properly controlled, it will not run as efficiently as it should. For every degree that the system deviates from the required temperature, energy costs can rise by up to 5%. Specify one of the many control options from Mitsubishi Electric to ensure air conditioning works as intended, whilst giving the optimum amount of control.

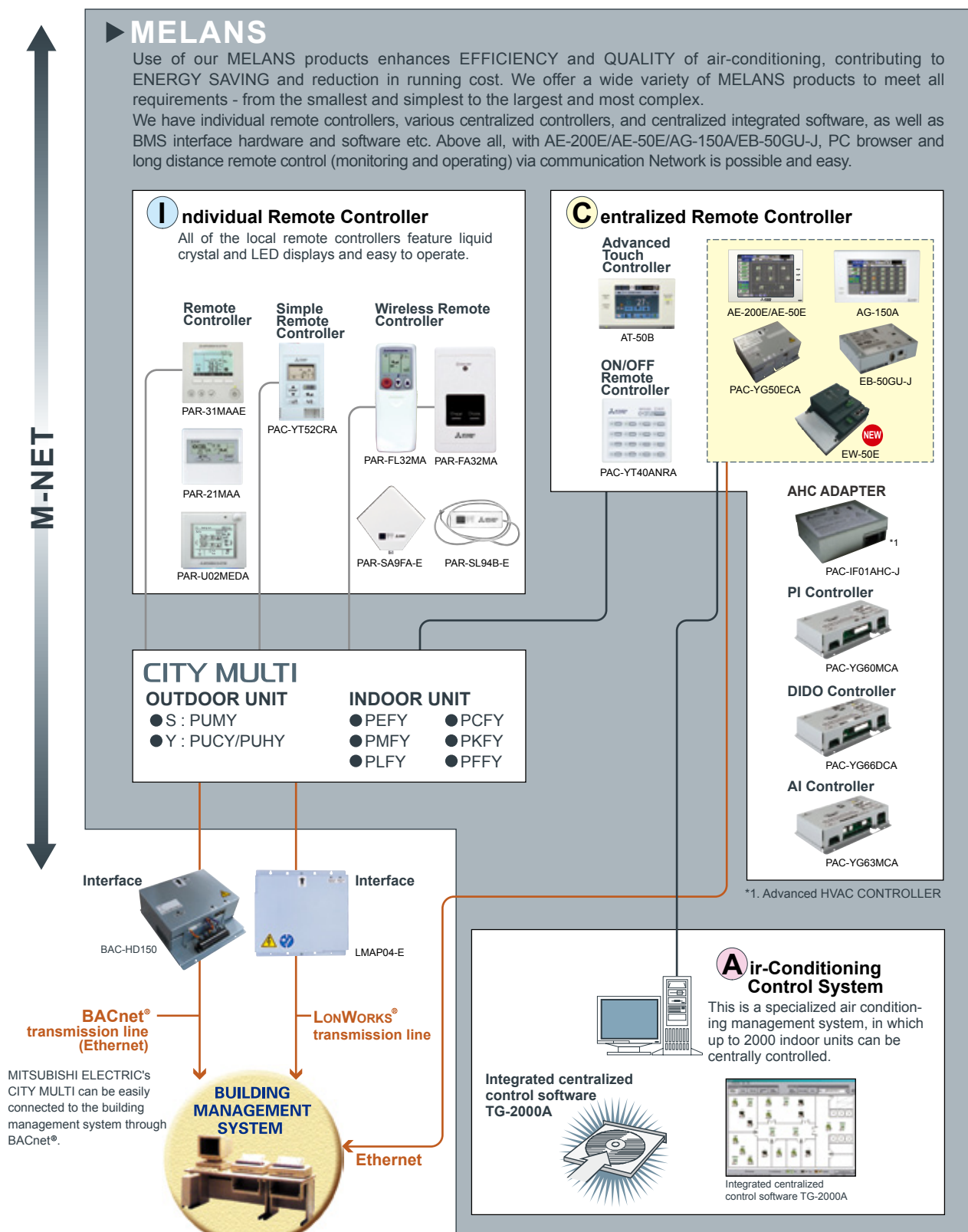
The simpler, the better

With the array of comprehensive control systems available from Mitsubishi Electric, it becomes simple to design and install air conditioning systems. From a simple hand-held controller to a AE-200E system - you are in control.



System Controller

mitsubishi electric's Air-conditioner Network System (MELANS) leads air conditioner management a PC browser and Network era.



*Some controllers cannot be used in combination with certain models of devices.



Remote Controller

Integrated Communications Control with Mitsubishi Electric's Unique Transmission Network (M-NET)

Model	Local remote controller ^{*9}					System controller ^{*9}													
	PAR-31MAAE	PAR-21MAA	PAR-U02MEDA	PAC-YT52CRA	PAR-FL32MA	PAC-YT40ANRA	AT-50B	AE-200E / AE-50E	AE-200E + AE-50E / EW-50E	EW-50E	AG-150A	AG-150A + PAC-YG50ECA	EB-50GU-J	TG-2000A ^{*4 *5}					
Controllable Groups / Indoors (Group / Indoor) ^{*8}	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	16 / 50	50 / 50	50 / 50	200 / 200	50 / 50	50 / 50	150 / 150	50 / 50	2000 / 2000					
■Operating																			
ON / OFF	○	○	○	○	○	⊙	⊙	⊙	⊙	⊙	▲	⊙	⊙	⊙					
Mode (cool / heat / dry / fan)	○	○	○	○	○	N	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙					
Temperature-set	○	○	○	○	○	N	⊙	⊙	⊙	⊙	N	⊙	⊙	⊙					
Dual set point ^{*10}	○	N	○	○	N	○ ^{*11}	⊙	⊙	⊙	⊙	N	⊙	N	⊙					
Local Permit / Prohibit	N	N	N	N	N	N	⊙	⊙	⊙	⊙	N	⊙	⊙	⊙					
Fan speed	○	○	○	○	○	N	⊙	⊙	⊙	⊙	N	⊙	⊙	⊙					
Air-flow direction	○	○	○	○	○	N	⊙	⊙	⊙	⊙	N	⊙	⊙	⊙					
■Status monitoring																			
ON / OFF	○	○	○	○	○	⊙	⊙	⊙	○	⊙	▲	○	⊙	○					
Mode (cool / heat / dry / fan)	○	○	○	○	○	N	○	○	○	○	N	○	○	○					
Temperature-set	○	○	○	○	○	N	○	○	○	○	N	○	○	○					
Local Permit / Prohibit	○	○	○	○	○	○	○	○	○	○	N	○	○	○					
Fan speed	○	○	○	○	○	N	○	○	○	○	N	○	○	○					
Air-flow direction	○	○	○	○	○	N	○	○	○	○	N	○	○	○					
Indoor temperature	○	○	○	○	N	N	○	○	○	○	N	○	○	○					
Filter sign	○	○	○	N	N	N	⊙	○	○	○	N	○	○	○					
Error flashing	○	○	○	○	○	○	⊙	○	○	○	▲	○	○	○					
Error code	○	○	○	○	N	○	○	○	○	○	N	○	○	○					
Operation hour	N	N	N	N	N	N	N	N	N	N	N	N	N	●					
■Scheduling																			
One-day	○	○	○	N	N	N	○	⊙	⊙	⊙	N	⊙	●	●					
Times of ON / OFF per day	1	8	1	N	1	N	16	24	24	24	N	24	24	24					
Weekly	○	○	○	N	N	N	○	⊙	⊙	⊙	N	⊙	○	○					
Times of ON / OFF per week	8 x 7	8 x 7	8 x 7	N	N	N	16 x 7	24 x 7	24 x 7	24 x 7	N	24 x 7	24 x 7	24 x 7					
Annual	N	N	N	N	N	N	N	⊙	⊙	⊙	N	⊙	●	●					
Optimized start-up	N	N	N	N	N	N	N	○	○	○	○	○	○	○					
Auto-off timer	○	○	○	N	N	N	N	N	N	N	N	N	N	N					
Min. timer setting unit (minute)	5	1	5	N	10	N	5	1	1	1	N	1	1	1					
■Recording																			
Error record	○	N	N	N	N	N	○	○	○	○	N	○	○	○					
Daily / monthly report	N	N	N	N	N	N	N	N	N	N	N	N	N	⊙					
Electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	●					
Energy management data	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
■Other																			
Temp-set limitation by Local R / C	○	○	○	○	N	N	N	N	N	N	N	N	N	N					
Temp-set limitation by System controller ^{*4}	○ ^{*6}	○ ^{*6}	○	○ ^{*6}	N	N	○ ^{*6}	N	○ ^{*2 *6}	N	○ ^{*2 *6}	N	○ ^{*2 *6}	⊙ ^{*6}					
Operation-lock	○	○	○	○	N	N	⊙	N	N	N	N	N	N	N					
Night setback	○	N	○	N	N	N	⊙	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	○					
Sliding temperature control	N	N	N	N	N	N	N	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	○					
■Management (Group / Interlocked)																			
Ventilation interlock	N / O	N / O	N / O	N / O	N	○	○	○	○ ^{*2}	○	○ ^{*2}	N	○ ^{*2}	○					
Group setting	○ ^{*1}	○ ^{*1}	○	○ ^{*1}	N	○	○	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	○					
Block setting	N	N	N	N	N	N	N	○	○ ^{*2}	○	○ ^{*2}	○	○ ^{*2}	○					
Revision of electricity charge	N	N	N	N	N	N	N	N	N	N	N	N	N	□					
■Operating on LOSSNAY interlocked (Group / Interlocked)																			
ON / OFF	N / O	N / O	N / O	N / O	N / O ^{*7}	⊙ ^{*3}	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙					
Fan speed	N / O	N / O	N / O	N	N	N	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙					
Ventilation mode	N / N	N / N	N	N	N	N	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙					
■Status monitoring on LOSSNAY interlocked (Group / Interlocked)																			
ON / OFF	N / O	N / O	N / O	N / O	N	N	○	○	○	○	○	○	○	○					
Fan speed	N / O	N / O	N / O	N	N	N	○	○	○	○	○	○	○	○					
Ventilation mode	N	N	N	N	N	N	○	N	○	N	○	N	○	N					

○: Each group / Batched ; ○: Each group ; □: Block (for CITY MULTI Indoor unit, not for all Mr. SLIM) ; ●: AE-200E/AE-50E/EW-50E/AG-150A/EB-50GU-J license registration possible.
 (●): License registration for the optional functions required N: Not Available (Not Used.) △: Batched only ; ▲: Batched handling (for maintenance) ■: Block

*1. Group setting via wiring between Indoor units with cross-over cable;

*2. Installation possible at Initial setting web browser;

*3. Inter-lock is set at Local remote controller.

*4. AE-200E/AE-50E/EW-50E/AG-150A/EB-50GU-J license registration to AE-200E/AE-50E/EW-50E/AG-150A/EB-50GU-J is required to monitor and operate the units by browser and TG-2000A.

5. AG-150A connected with PAC-YG50ECA is compatible with TG-2000A Ver.6.10 or later. EB-50GU-J is compatible with TG-2000A Ver. 6.40A or later. AE-200E/AE-50E is compatible with TG-2000A Ver. 6.50* or later. Contact your local distributor for which version of TG-2000A supports EW-50E.

*6. This function can be set only on the ME remote controller. This function cannot be used with the MA/Simple MA remote controller.

(But, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and there are possibilities that this function can be used with them.)

*7. Inter-lock is set from system controllers (Except PAC-YT40ANRA) or local remote controllers.

*8. The maximum number of controllable units decreases depending on the indoor unit model.

*9. For indoor use only.

*10. This function is supported only when all the indoor units, remote controllers, and system controllers that are connected to a given group features the function.

*11. For the availability of the function, please contact your local distributor.

*12. Supports the dual set point function

*13. BAC-HD150 ver. 2.10 and later supports the dual set point function.

LOSSNAY remote controller PZ-52SF

■Controllable LOSSNAY Groups	1
■Controllable LOSSNAY unit	16
■Operating	
ON/OFF	○
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	○
Local Permit-Prohibit	N
Fan speed	○
Air flow direction	N
■Scheduling	N
■Recording	N

■Management	○
Group setting	○
Block setting	N
■Status monitoring	
ON/OFF	○
Mode (automatic ventilation/vent-heat interchange/normal ventilation)	○
Local Permit-Prohibit	○
Fan speed	○
Air flow direction	N
Filter sign	○
Error flashing	○
Error code	○

Air conditioner control system interface

LMAP04-E: LonWorks® Interface

Controls up to 50 Groups/ 50 units, for details, refer to its description. ^{*12}

BAC-HD150: BACnet® Interface

Controls up to 50 Groups/ 50 units, up to 150 Groups/ 150 units with three expansion controllers for details, refer to its description. ^{*13}

○: Each group, N: Not Available

Remote Controller



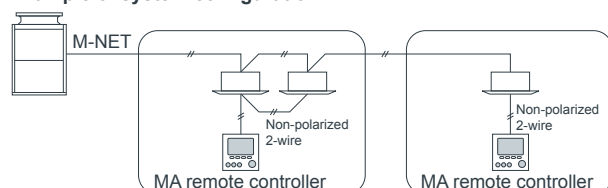
Individual Remote Controller

Wired MA remote controller PAR-31MAAE



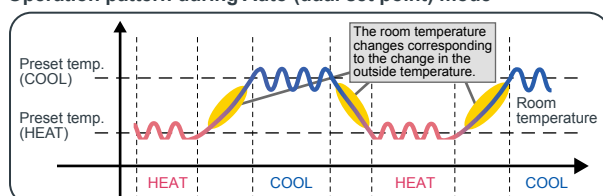
Dimensions: 120(W) x 120(H) x 19(D) mm
: 4-3/4(W) x 4-3/4(H) x 3/4(D) in.

Example of system configuration



*When a PAR-31MAAE is connected to a group, no other MA remote controllers can be connected to the same group.

Operation pattern during Auto (dual set point) mode



- Temperature will be displayed either in Centigrade in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

• Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

• Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

Full-dot LCD display with large characters for easy viewing

Contrast also adjustable

• Night Setback

To prevent indoor dew or excessive temperature rise, this control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit temperature.

• Language selection

Language to be displayed on the screen can be selected from eight languages: English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian.

Functions

				○: Each group ×: Not available	
Item	Description	Operations	Display		
ON/OFF	Switches between ON and OFF.	○	○		
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	○	○		
Room temp. setting	The temperature can be set within the following range. Cool/Dry : 19°C - 30°C / 67°F - 87°F Heat : 17°C - 28°C / 63°F - 83°F Auto : 19°C - 28°C / 67°F - 83°F * Set temperature range varies depending on the model.	○	○		
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○		
Louver setting	Switches between louver ON/OFF.	○	○		
Ventilation equipment control	Interlocked setting and interlocked operation setting with the CITY MULTI LOSSNAY units can be made. The Stop/Low/High settings of the ventilation equipment can be controlled.	○	○		
Error information	When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) * An error code may not appear depending on the error.	—	○		
Timer	ON/OFF timer • Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer • Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	○	○		
Allows/disallows local operation	The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	×	○		
Operation lock	The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.	○	○		
Temperature range restriction	The room temperature range for each operation mode can be restricted.	○	○		
Auto return	The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 in 10-minute increments.) * Not valid when the temperature setting range is restricted.	○	×		

Wired MA remote controller PAR-21MAA

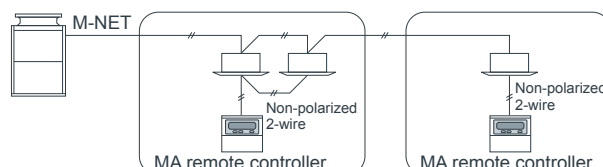


Dimensions: 130(W) x 120(H) x 19(D) mm
: 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

- New display-Larger, easier-to-see characters
- Dot Liquid Crystal Display (LCD)
- Multi-language Display

- Set temperature in 1°C/°F increment
- Weekly timer
Up to 8 ON/OFF/temperature setting per day in 1 minute increment. Setting kept in nonvolatile memory. No need to worry about re-setting at power failure.
- Room temperature control with thermostat sensor inside the unit
- Self-diagnosis function immediately informs error code in case of malfunction

Example of system configuration



Multi-language Display Example [Dot display table]

Language	English	German	Spanish	Russian	Italian	Chinese	French	Japanese
Waiting for start-up	PLEASE WAIT	←	←	←	←	←	←	←
Operation mode	Cool	COOL	Kühlen	FRÍO	Холод	COOL	FROID	冷房
	Dry	DRY	trocknen	DESUMIDIFICACIÓN	Сушка	DRY	ODESHU	ドライ
	Heat	HEAT	Heizen	CALOR	Тепло	HEAT	CHAUD	暖房
	Auto	AUTO	AUTO	АВТО	AUTO	自动	AUTO	自動
	Auto(Cool)	COOL	Kühlen	FRÍO	Холод	COOL	FROID	冷房
	Auto(Heat)	HEAT	Heizen	CALOR	Тепло	HEAT	CHAUD	暖房
	Fan	FAN	Lüfter	VENTILACIÓN	ВЕНТ	VENTILAZIONE	VENTILATION	送風
	Ventilation	VENTILATION	VENTILATION	VENTILACIÓN	ВЕНТИЛЯЦИЯ	VENTILAZIONE	VENTILATION	送風
	Stand by (Hot adjust)	STAND BY	STAND BY	CALENTANDO	ОБОГРЕВ: ПАЗУСА	STAND BY	PRE CHAUFFAGE	準備中
Defrost	DEFROST	Altoquien	DESCONGE - LACIÓN	ОТТАМВЛИВАНИЕ	SGRINCHIAMENTO	除霜中	DEGIVRAGE	霜取中
	NOT AVAILABLE	Nicht Verfügbar	NO DISPONIBLE	НЕ ДОСТУПНО	NON DISPONIBILE	无效按钮	NON DISPONIBILE	無効ボタン
Check (Error)	CHECK	Prüfen	COMPROBAR	ПРОВЕРКА	CHECK	検査	CONTROLE	点検
Test run	TEST RUN	Testbetrieb	TEST FUNCIONAMIENTO	ТЕСТОВЫЙ ЗАПУСК	TEST RUN	试运行	TEST	試運転
Self check	SELF CHECK	Selbst - diagnose	AUTO REVISIÓN	САМОДИАГНОСТИКА	SELF CHECK	自我诊断	AUTO CONTROLE	自己診断
Unit function selection	FUNCTION SELECTION	Funktion auswählen	SELECCIÓN DE FUNCIÓN	ВЫБОР ФУНКЦИИ	SELEZIONE FUNZIONI	功能选择	SELECTION FONCTIONS	メニュー選択
Setting of ventilation	SETTING OF VENTILATION	Lüfterstufen wählen	CONFIG. VENTILACIÓN	НАСТРОЙКА ВЕНТИЛЯЦИИ	IMPOSTAZIONE ARIA ESTERNA	换气设定	SELECTION VENTILATION	换气設定

Functions

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Operation mode switching	Switches between Cool / Dry / Auto* / Fan / Heat. Operation modes vary depending on the air conditioner unit. * Auto only supported for the CITY MULTI R2 and WR2 series.	○	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F) Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F) Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F) () For PEFY/PFFY by setting DipSW 7-1 to ON and limits to N16H fan speed only.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	○	○
Air flow direction setting	Air flow direction angles (4-angle, or 5-angle Swing) Auto Louver ON/OFF Air flow direction settings vary depending on the model.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). *1: When the local remote controller inactivation command is received from the main system controller, " " is displayed.	×	○ ^{*1}
Prohibition/permission of specified mode (Cooling prohibited/heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	×	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	×	□
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.	○	○
Set temperature range limit	Set temperature range limit to cooling, heating, or auto mode.	○	○
Auto lock function	Setting/releasing of simplified locking for remote control switch can be performed. - Locking of all switches - Locking of all switches except ON/OFF switch	○	○



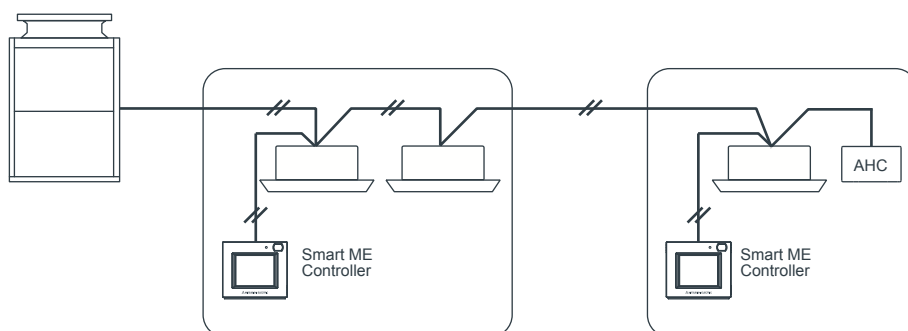
Smart ME Controller PAR-U02MEDA



Dimensions : 5-17/32(W) x 4-3/4(H) x 1(D) in.
: 140(W) x 120(H) x 25(D) mm

- Smart ME Controller is a remote controller designed to control Mitsubishi Electric's air conditioning units and also allows for the control of other manufacturer's products connected via Mitsubishi Electric's AHC (Advanced HVAC CONTROLLER).
- It can control up to sixteen indoor units and one AHC.
- Smart ME Controller features such basic functions as operations and monitoring of air conditioning units and schedule-control functions and is equipped with four built-in sensors (temperature, humidity, occupancy, brightness), which enable an integrated control of the system, including the humidifiers and ventilation units connected to the system via AHC, to help create a comfortable environment.
When the built-in occupancy sensor detects vacancy in a specific zone, the controller uses its internal function to reduce energy-consumption.

Example of system configuration



Functions

○:Each group ×:Not available

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

Remote Controller

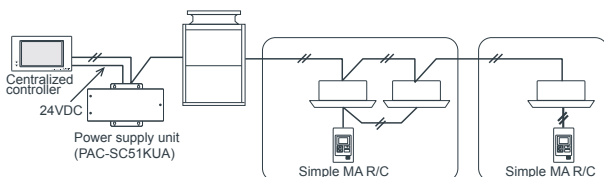
Individual Remote Controller

Simple remote controller PAC-YT52CRA (MA)



Dimensions: 70(W) x 120(H) x 14.5(D) mm
: 2-3/4(W) x 4-23/32(H) x 9/16(D) in.

Example of system configuration



• Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

• Backlit LCD

Backlight for operation in dark place

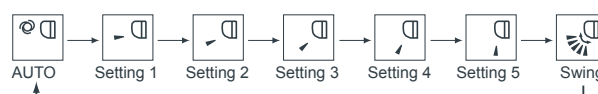
• Flat back

Install without hole on wall Slim and flat type
Thickness is less than 14.5mm [0.6(in)]

• Vane button (standard)


The Vane button has been added to allow the user to change airflow direction (ceiling-cassette and wall-mounted types).

Pressing the  button will switch the vane directions.



*The settable vane direction varies depending on the indoor unit model to be connected.

* If the unit has no vane function, the vane direction cannot be set.

In this case, the vane icon blinks when the  button is pressed.

• The only wiring required is cross-over wiring based on two-wire signal lines.

• Room temperature sensors are built-in.

• Can operate all types of indoor units

*Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller.

• LCD temperature setting and display in 1°C /1°F increments.

Functions

				□ : Each unit ○ : Each group × : Not available	
Item	Description	Operations	Display		
ON/OFF	Changes between ON and OFF.	○	○		
Operation mode switching	Select from COOL, DRYING, FAN, AUTO, and HEAT. * AUTO mode is settable only when those functions are available on the indoor unit.	○	○		
Temperature setting	The temperature can be set within the following range. Cool/Drying : 19°C - 35°C/67°F - 95°F Heat : 5°C - 28°C/41°F - 83°F Auto (single set point) : 19°C - 28°C/67°F - 83°F Auto (dual set points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. * Set temperature range varies depending on the model.	○	○		
Fan speed setting	Changes the fan speed. * The settable fan speed varies depending on the indoor unit model to be connected.	○	○		
Permit / Prohibit local operation	By setting a centralized controller, the following local operations are prohibited: ON/OFF; operation mode; preset temperature; * The CENTRAL icon appears while the local operations are prohibited.	×	○		
Error	Displays the current error status with the address. * The address may not be displayed depending on the error status.	×	□		
Ventilation equipment	When the CITY MULTI indoor unit is connected, interlocked setting of the CITY MULTI LOSSNAY unit is possible. When the Mr. SLIM indoor unit (A-control) is connected, interlocked operation of the microcomputer-type LOSSNAY unit is possible.	○	○		
Set temperature range limit	The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO).	○	○		



Wireless remote controller PAR-FL32MA / PAR-FA32MA / PAR-SA9FA



PAR-FL32MA

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



PAR-FA32MA

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



PAR-SA9FA-E
(4-way Cassette signal receiver)

Dimensions: 256(H) x 19(D) mm

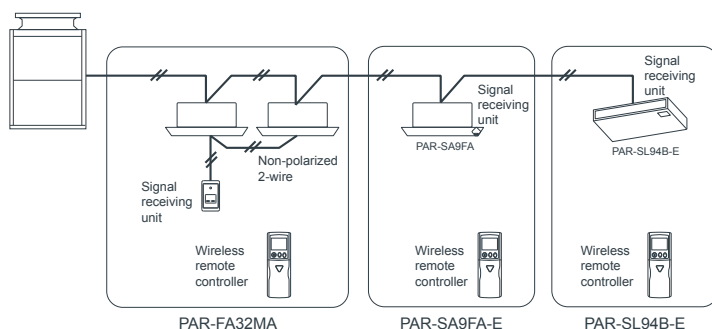


PAR-SL94B-E
(Wireless remote controller kit for ceiling suspended)

Dimensions: 182(W) x 57(H) x 31(D) mm

- No need to configure addresses for group operation.
- Lit LED keeps you informed of operation - blinking even gives you the error code via the number of blinks.
- Can be used with the MA remote controller.
 - *When used in group configurations, wiring between indoor units is required.
 - *Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.
- LCD temperature setting and display in 1°C /1°F increments.

Example of system configuration



Correspondence table

	receiver	transmitter
PMFY-P VBM PLFY-P VCM/VLMD PFFY-P VKM PEFY-P VMR-E-L/R/VMH PFFY-P VLEM/VKM/VLRM/VLRMM PEFY-P VMS1(L) PEFY-VMA(L)	PAR-FA32MA	PAR-FL32MA
PCFY-P VKM	PAR-FA32MA PAR-SL94B-E	
PLFY-P VBM-E	PAR-SA9FA-E	
PKFY-P VBM-E		
PKFY-P VHM/VKM	Built-in	

Functions

○ : Each group × : Not available			
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	○	○
Temperature setting	Sets the temperature for a single group Range of temperature setting Cool/Dry : 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F) Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F) Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F) () For PEFY/PFFY by setting DipSW 7-1 to ON and limits to N16H fan speed only. * Set to PAR-FL32MA according to its Installation Manual 4 "Model setting".	○	○
Air flow direction setting	Air flow direction angles (4-angle, Swing) Auto Louver ON/OFF. Air flow direction settings vary depending on the model.	*	*
Timer operation	One ON/OFF setting can be set for one day.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). *1 If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will ring and an LED will flash.	×	○ ^{*1}
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	×	×

* Some models will have different display for the air flow direction and fan speed.
Set the air flow direction and fan speed when performing initial setting.

Remote Controller

Centralized Remote Controller

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

ON/OFF remote controller PAC-YT40ANRA



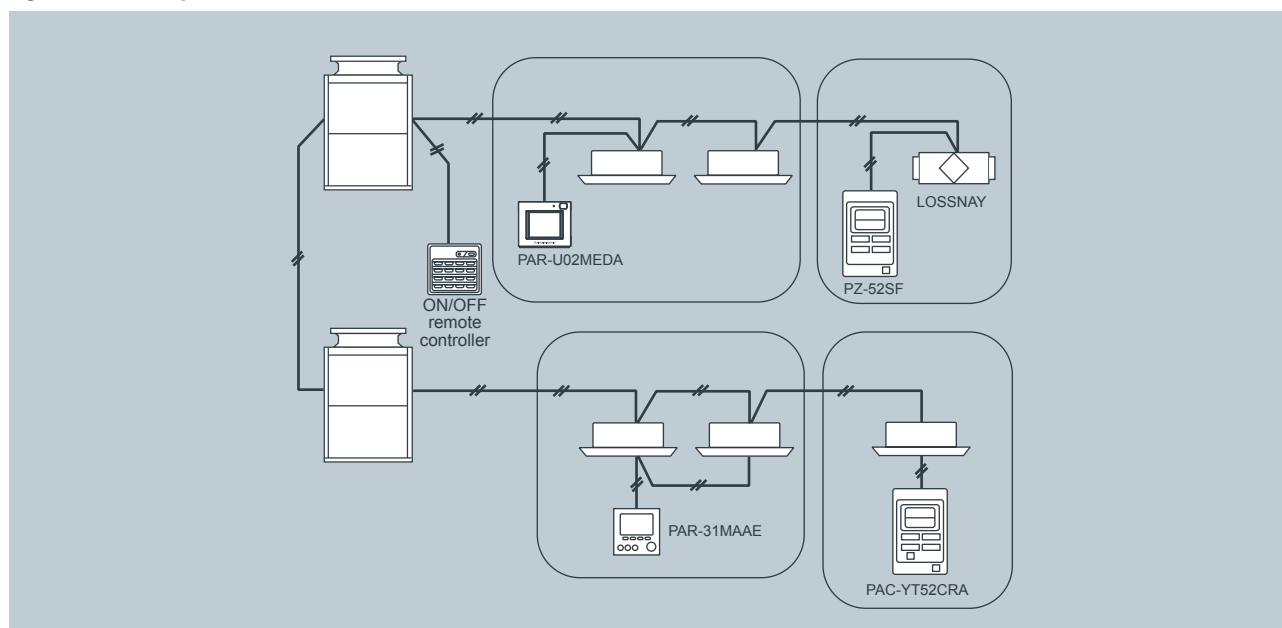
- The group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed. The power can be supplied from one outdoor unit (R410A) or Power supply unit.

NOTE

Dual set point function is available depending on the version of the controller. For the availability of the function, please contact your local distributor.

Dimensions: 130(W) x 120(H) x 19(D) mm
: 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

System example



FUNCTION	DESCRIPTION	PAC-YT40ANRA	
UNITS	Max No.Units	50 units/16 groups	
		OPERATIONS	DISPLAY
ON/OFF	Switches between ON and OFF	✓	✓
ERROR INDICATION	LED flashes during failure. (The error code can be confirmed by removing the cover.)	—	✓
VENTILATION OPERATION (INDEPENDENT)	Group operation of only LOSSNAY units possible. *Only ON/OFF of group.	✓	✓
VENTILATION OPERATION (INTERLOCKED)	The LOSSNAY will run in interlock with the operation of indoor unit. *The fan rate and mode cannot be changed. The LED will turn ON only during operation after interlocking.	✓	✓
EXTERNAL INPUT	On/Off/Fire Alarm	✓	—
EXTERNAL OUTPUT	On/Off/Faults	—	✓



Centralized Remote Controller

With our new Advanced Touch Controller AT-50B, easy and simple operation on the touch panel offers an optimal air environment for individual unit.

Advanced Touch controller AT-50B



Dimensions: 180(W) x 120(H) x 30(D) mm
: 7-2/16(W) x 4-12/16(H) x 1-3/16(D) in.

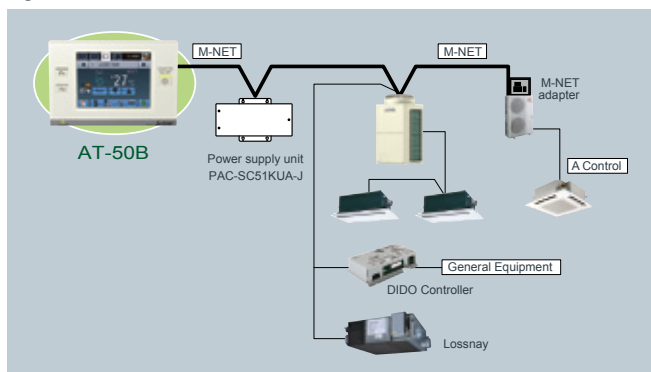
- Temperature will be displayed either in Centigrade in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

Dual set point

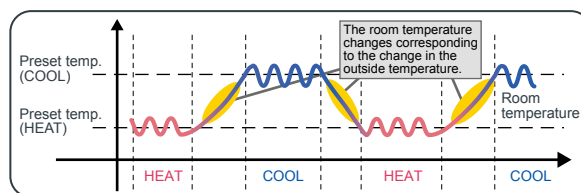
When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

System structure



Operation pattern during Auto (dual set point) mode



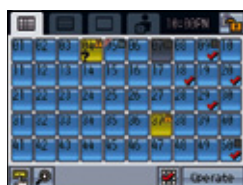
Design

Backlit LCD (Liquid Crystal Display) Touch Panel

5-inch color LCD touch panel enables easy and simple operation.

The backlight lights up when the panel is touched, and lights off after certain period of time.

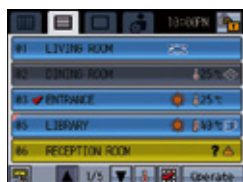
The touch panel displays the operation status of the units in GRID, LIST or in GROUP.



GRID (zoom-out) screen
Displays the operation status of all groups.



GRID (zoom-in) screen
Displays the detailed operation status of each group.



LIST screen
Displays the detailed operation status of each group with group name.



GROUP screen
Displays the detailed operation status of each group. Sets group operations.

Functions

Three in One

The following three features are integrated into AT-50B.

- Control up to 50 indoor units from one location
- A weekly programmable timer, being able to control up to 50 indoor units
- Control up to 50 units/50 groups of air conditioners

Weekly and daily schedule

5 patterns of one day and 12 patterns of weekly schedule

(16 settings max. per pattern).

Two types of weekly schedule can be set.

System changeover

Operation mode can be switched depending on indoor temperature setting and target temperature of each group or a representative indoor unit.

Functions

[Basic Functions]

- ON/OFF ▪ Operation mode switching
- Temperature setting ▪ Fan speed setting
- Airflow direction setting ▪ Louver setting

Night setback function

This function allows having a two-temperature setting to keep the desired room temperature when the units are not in operation and during the time this function is effective.

The unit automatically starts heating (cooling) operation when the temperature drops below (rises above) the preset lower (upper) limit temperature. This is not only for comfort environment, but also for saving energy.

Main system controller/Sub system controller

AT-50B can be set to Sub System controller.

When connecting multiple system controllers, designate the system controller with many functions as the "Main", and set the system controllers with few functions as the "Sub".

Simple button arrangement

The F1 (Function 1) and the F2 (Function 2) button can be set as a run button of the following collective operation.

(Setback/Schedule/Operation Mode/Temperature Correction/Remote Controller Prohibition)

Advanced Functions

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

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



Centralized Remote Controller

Centralized controller AE-200E/AE-50E



Dual Set Point

Dimensions: 284(W) x 200(H) x 65(D) mm
: 11-5/32(W) x 7-27/32(H) x 2-9/16(D) in.



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Control Screen for Power Consumption

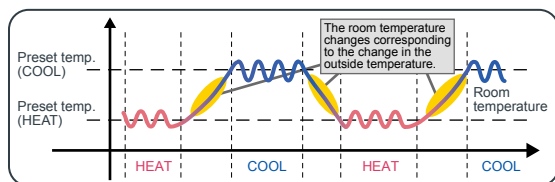


Energy consumption of applicable area is displayed by the month, day, and hour. Energy consumption of two different units, groups and blocks can be compared. Fan operation time as well as energy consumption can be displayed.



Energy consumptions of air-conditioning equipment are ranked and displayed by individual air-conditioning equipment and by area, thus visualizing high-load components. Also, comparison of energy consumption with target electric energy is possible.

Operation pattern during Auto (dual set point) mode



• By comprehensively showing the energy consumption of air-conditioning equipment, it provides assistance in energy saving.

- Energy consumption of air-conditioning equipment by individual area is displayed using graphs for easier viewing.
- Enables comparisons with the previous year's power consumption as well as with the target electric power, thus allowing users to check the operating state at a glance.
- Floor layout is displayed on the 10.4-inch LCD touch panel, facilitating easier operation of air-conditioning equipment.

• In an easy and flexible manner, an optimum system can be established according to the scale of facilities.

- Implements control on up to 50 indoor units of air-conditioning equipment.
- By using three units of expansion controller "AE-50E/EW-50E", the centralized control is implemented for the maximum of 200 indoor units.
- Connection with PC allows implementation of control on more than 200 indoor units via Web browser.*1

*1. Please contact your local distributor for when the feature is supported.

• Features for operating and monitoring the hot water heat pump are also available on CAHV, PWFY, and CRHV.*2

- Centralized batch control on CAHV, PWFY, and CRHV *2 is possible in addition to that on air-conditioning unit.

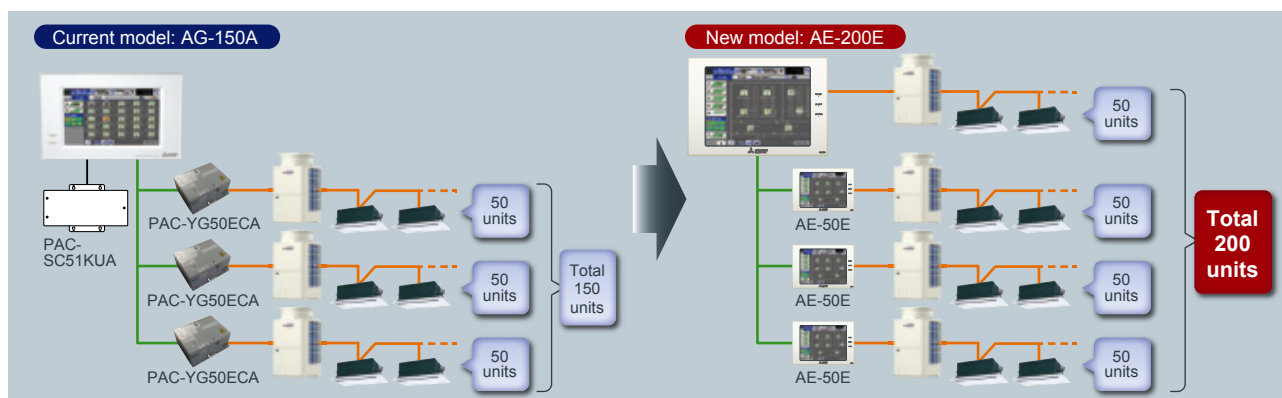
*2. Please contact your local distributor for when these features are supported on CRHV.

Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

*Please contact your Mitsubishi Electric sales office for details.

Comparison in the number of connectable units



Remote Controller

[illegible]

Personal web: Personal web browser Simple Maintenance Tool: Allow to connect Maintenance tool Energy Management license pack: Charge + Energy saving + Peak cut, Energy Monitor Interlock control: Interlock control by AE-200E
--

□ : Each unit ○ : Each group ● : Each block △ : Each floor ◎ : Collective × : Not available			
Item	Description	Operations	Display
Controllable number of unit	Up to 50 units/50 groups		
ON/OFF	ON and OFF operation for the air conditioning units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	○ ○ △ ●	○ ○
Operation mode	Switches between several operation modes depending on the air conditioning unit. Air conditioning unit : Cool/Dry/Auto(*)/Fan/Heat LOSSNAY unit : Heat Recovery/Bypass/Auto CAHV, CRHV, Air To Water (PWFY) units : Heating, Heating ECO, Hot Water, Anti-freeze, Cooling(**) * Auto mode is for CITY MULTI R2 and WR2 series only. ** Only PWFY	○ ○ △ ●	○
Temperature setting	Cool/Dry : 19°C (67°F) -35°C (95°F) [14°C (57°F) -30°C (87°F)] Heat : 4.5°C (40°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] Auto : 19°C (67°F) -28°C (83°F) [17°C (63°F) -28°C (83°F)] The range of temperature depends on the air conditioning unit. [] in case of using middle-temperature on PDFY, PEFY-VML/VMR/VMS/VMH-by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.	○ ○ △ ●	○
Fan speed setting	Models with 4 air flow speed settings : Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings : Hi/Mid/Low Models with 2 air flow speed settings : Hi/Low Fan speed setting (including Auto) varies depending on the model.	○ ○ △ ●	○
Air flow direction setting	Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set)	○ ○ △ ●	○
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	○ ○ △ ●	○
Permit/prohibit local operation	Individually prohibits operation of each local remote controller function. (ON/OFF, Operation mode, Set temperature, Filter sign reset, Air Direction*, Fan Speed*, Timer*) * This function depends on the model.	○ ○ △ ●	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	○
Error	When an error is currently occurring on an air conditioning unit, the afflicted unit and the error code are displayed.	×	□ ○ ◎
Test run	This operates air conditioning units in test run mode.	○ ○ △ ●	○
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	○ ○ △ ●	○
External input/output	By using optional external input/output adapter (PAC-YG10HA-E) you can set and monitor the following. Input : By level signal : "Batch ON/OFF", "Batch emergency stop" By pulse signal : "Batch ON/OFF", "Enable/disable local remote controller" Output : "ON/OFF", "Error/Normal"	◎	◎
Energy Management	Bar Graph : Indoor unit Electric Energy, FAN operation time, Thermo-ON time (TOTAL, Cooling, Heating) can be displayed hourly, daily and monthly. Line Graph : Outdoor temp., Room temp., Set temp. (Heating, Cooling) input from PAC-YG63MCA and temp. from AHC.	×	□ ○ ●
Advanced HVAC Controller (AHC)	The status of AHC can only be monitored.	×	○
New Smart ME controller	The status of sensor on this controller can be monitored.	×	○
Smartphone/Tablet	The specified Web browser on iOS and Android OS can monitor and operate AE-200E. *1	○	○
New Web design	The web screen design is renewed for user friendly interface. *1	○ ○ △ ●	○
Initial setting software	The initial setting can be configured without the connection of AE-200E. *1	×	×
Apportionment of power consumption	Apportionment of power consumption can be calculated on AE-200 without TG-2000A. *2	●	□ ●
BACnet® communication	ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1	○	×

*2. One more AE-50E unit is necessary.

Centralized Remote Controller

With a new colored touch panel, and continuation of all the G-50A functions, AG-150A visualizes its functions from basic control to advanced operations and bringing an ultimate controller to reality.

Centralized controller AG-150A

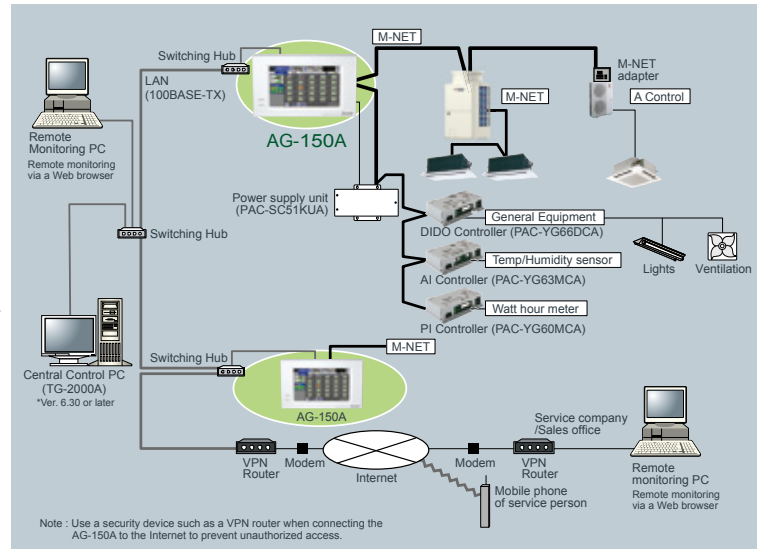


Dimensions: 300(W) x 185(H) x 70.3(D) mm
: 11-13/16(W) x 7-5/16(H) x 2-13/16(D) in.



Option : Black surface cover
PAC-YG71CBL

System structure



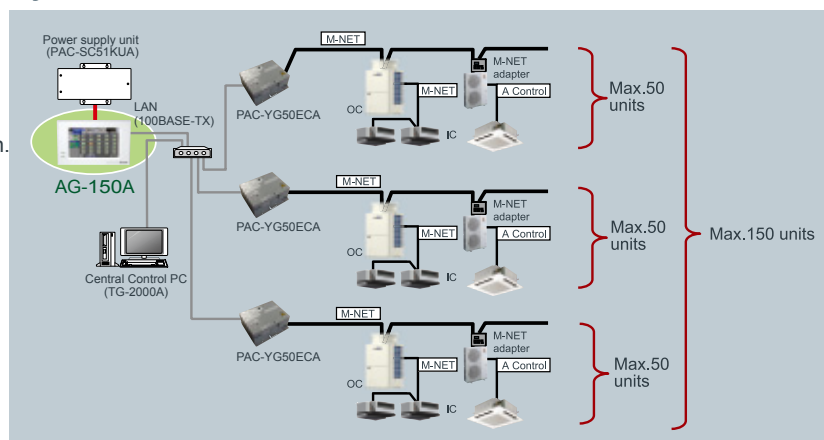
Expansion Controller PAC-YG50ECA



Dimensions: 250(W) x 217(H) x 97.2(D) mm
: 9-7/8(W) x 8-9/16(H) x 3-7/8(D) in.

With a connection of a Expansion Controller, maximum of 150 units/groups can be connected to AG-150A.

System structure



*Do not connect PAC-YG50ECA to TB3 of the outdoor unit.

*Use a security device such as a VPN router when connecting the AG-150A etc. to the Internet to prevent unauthorized access.

Design

Backlight color liquid crystal

Backlight makes it easy to see and control units.
One can identify whether a unit is ON or OFF from a distance.
Control in the night with no lights is possible.

Touch panel

9 inch wide, high-resolution

Touch panel enables operation of units by touching with index finger.
When object unit is touched, orange box appears around the unit icon indicating the unit selected.

Flat back

Easy installation

Allows for an installation of the unit either directly to the wall surface* or using the installation hole in the wall.

*Optional parts are required.

USB memory compatible

Measurement/initial setting CSV data extractable with USB memory.
Can save and overwrite setting data.



Weekly schedule screen

Functions

Controllable units/groups

Controls up to 50 units/groups (including indoor units, LOSSNAY, DIDO/AI/PI controller)
Up to 150 units can be controlled via expansion controller; PAC-YG50ECA (AG-150A software needs to be upgraded to Ver. 2.10 or later.)

Monitoring functions

Temperature/Humidity (using AI controller)
General equipment such as lights on LCD (using DIDO controller)
Interlock function from AI controller, DIDO controller to indoor units and between DIDO units are available.
AG-150A interlock with DIDO controller or free contact on an indoor unit available. * Ver. 2.30 or later

Energy saving functions

Seasonal scheduling and automatic switch over *1
Yearly scheduling on LCD *1
Scheduling fan speed and airflow direction
Optimized Start up
External temperature interlock control
Night setback control
*1 License required.

With a license

Personal web: Personal web browser
Simple Maintenance Tool: Allow to connect Maintenance tool
AG-150A Energy Management license pack: Charge + Energy saving + Peak cut + Energy monitor
Annual schedule, Weekly schedule: Annual schedule, Weekly schedule (2 types), Today schedule
Interlock control: Interlock control by AG-150A

Functions

<div> <input type="checkbox"/> : Each unit <input type="radio"/> : Each group <input checked="" type="radio"/> : Each block <input type="triangle"/> : Each floor <input checked="" type="radio"/> : Collective <input checked="" type="x"/> : Not available </div>			
Item	Description	Operations	Display
Controllable unit	50 units/groups or 150 units/groups via expansion controller; PAC-YG50ECA.		
ON/OFF	ON and OFF operation for the air conditioner units and general equipment. (To operate general equipment, PAC-YG66DCA is required.)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/>
Mode selection	Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/vent - heat interchange/ normal ventilation) depending on the air conditioner unit. Auto mode is for CITY MULTI R2 and WR2 series only.	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Temperature setting	Cool/Dry : 19°C-30°C (14°C-30°C) / 67°F-87°F (57°F-87°F) Heat : 17°C-28°C (17°C-28°C) / 63°F-83°F (63°F-83°F) Auto : 19°C-28°C (17°C-28°C) / 63°F-83°F (63°F-83°F) () in case of using middle-temperature on PEFY-VML/VMR/VMS/VMH by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Schedule operation	Annual/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	<input checked="" type="x"/>	<input type="radio"/>
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	<input checked="" type="x"/>	<input type="radio"/>
Test run	This operates air conditioner units in test run mode.	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
External input/output	By using optional external input/output adaptor (PAC-YG10HA) you can set and monitor the following. Input : By level signal : "Batch start/stop", "Batch emergency stop" By pulse signal : "Batch start/stop", "Enable/disable local remote controller" Output : "Start/stop", "Error/Normal"	<input type="radio"/>	<input type="radio"/>

*NOTE: Operation and displayed content vary depending on the indoor unit model.

◆Future release schedule is subject to change without notice.



Centralized Remote Controller

NEW

Centralized controller EW-50E

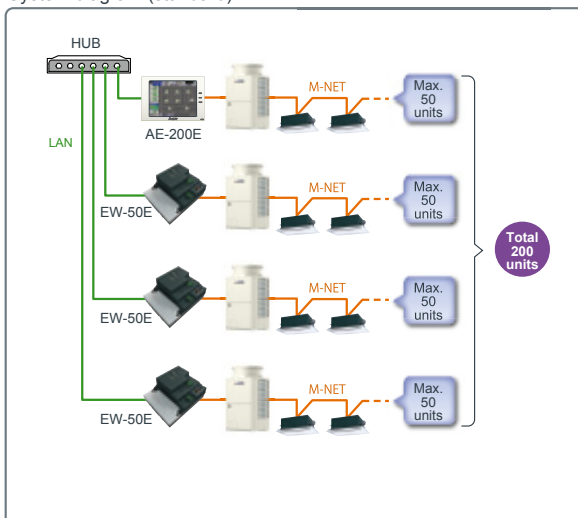


Dual Set Point

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

System Structure

System diagram (standard)



* When M-NET of AE-200E is not used, a maximum of four EW-50E units can be connected.

Main Features

• Available as the expansion controller for AE-200E

Connecting three EW-50E units to an AE-200E makes it possible to operate and monitor a maximum of 200 indoor units.

• Apportioned electricity charge function

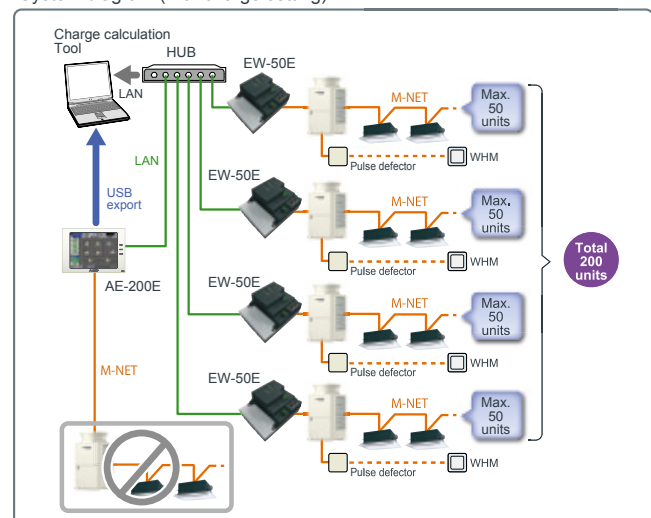
The amount of power consumed by the air conditioners is calculated with the use of AE-200E. The calculated data can be output to the PC via USB memory or LAN, and the charge report can be created with the use of the designated charge calculation tool.

*The apportioned electricity charge function on AE-200E and TG-2000A cannot be used together.

*To use the apportioned electricity charge function on AE-200E, check that the version of TG-2000A is 6.60 or later, even if the apportioned electricity charge function on TG-2000A is not used.

*For other restrictions, refer to the Installation Manual and Instruction Book.

System diagram (with charge setting)



• Enabled to operate and monitor air conditioners independently by using a PC

Even without an AE-200E, EW-50E is possible to monitor and operate air conditioners using a browser software^{*1}. Via the Internet, air conditioners can be monitored and operated from a remote location. In addition, air conditioners in multiple buildings can be operated collectively.^{*2}

* 1. The operation of this product has been confirmed on

Internet Explorer 8, IE9, IE10, and IE11, and on Oracle® Java Ver8.

Microsoft® Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.

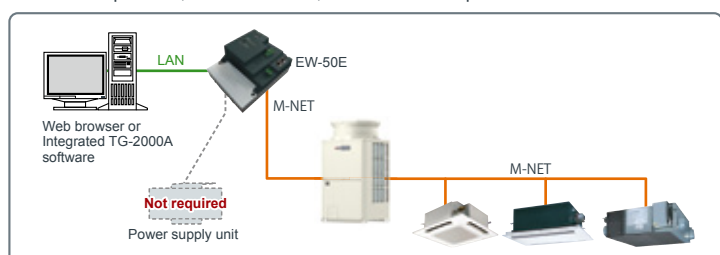
Oracle® and Java® are trademarks or registered trademarks of Oracle Corporation, its subsidiaries, and related companies in the United States or other countries.

Company names and product names in this brochure may be trademarks or registered trademarks of the respective rights holder.

* 2. When connecting an EW-50E via the Internet, do not directly connect the EW-50E to the Internet.

Instead, always connect via a router via a VPN function that can ensure security.

To monitor the indoor units connected to EW-50E, use TG-2000A of Ver. 6.60 or later.



Remote Controller

• Manage air conditioner usage conditions

It is possible to use a web browser to display the energy consumption of air conditioners in an easy-to-understand manner.



• Operable without the transmission line power supply unit

Because the EW-50E unit is equipped with a power supply function, power supply from a transmission line power supply unit is not necessary.

Since power supply from an outdoor unit is also not necessary, self-sustained operation is possible even when the outdoor unit system goes down. (If the power consumption factor exceeds 1.5, a power supply unit is required.)

• Energy-saving control

By adding an energy-saving control license (optional product), the set temperature can be changed automatically^{*1} based on the room temperature surrounding each air conditioner. Therefore, energy-saving control is possible without affecting comfort greatly.

* 1. This function changes the set temperature in units of +2°C for cooling and -2°C for heating by the specified time interval.

If the difference between the suction temperature and the set temperature is significant, it is possible to exclude it from the energy-saving subject.

Functions

* The functions and specifications are subject to change.

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

Item	Remarks	Setting	Display
ON/OFF	Switches to ON or OFF air conditioners and general equipment.	⊙	⊙
Operation mode switching	Switches to cool, dry, auto, fan, or heat operation. * Depending on the unit, some modes are not available.	⊙	○
Room temperature setting	The temperature can be set in the following range. The values inside the parenthesis are for indoor units for medium temperature. * Depending on the model, the setting temperature range differs. · Cooling/dry : 19°C to 35°C (4.5°C to 30°C) · Heating : 17°C to 28°C (17°C to 28°C) · Auto : 19°C to 28°C (17°C to 28°C)	⊙	○
Set temperature 0.5°C increments	The temperature can be set and displayed in 0.5°C increments. * With some unit combinations, the temperature is set in 1°C increments.	⊙	○
Fan speed setting	The fan speed can be set to 4 levels, 3 levels, 2 levels or automatic. * Available fan speeds differ depending on the unit.	⊙	○
Air direction setting	Fixed swing in five levels or auto air direction can be set. * Available air directions differ depending on the unit.	⊙	○
Prohibition of local remote controller operation	It is possible to disable the ability to use to local remote controller to run or stop, the operation mode, set temperature, filter sign reset, wind speed, wind direction and timer operation. * In the Lossnay group, only ON/OFF and filter reset can be disabled. * Disabling of the fan speed, air direction, and timer operation can be set for the PAC-SF50AT, PAR-36MA, PAR-F30ME, and PAC-YT52CR models.	⊙	○
Room temperature display	Displays the suction temperature of the indoor unit.	—	○
Error display	Displays the current error content together with the address.	—	⊙
Schedule operation	Today/weekly/weekly by season/yearly Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan	⊙	○
Energy management	Displays the power consumption* or operating hours. * Requires an optional part.	—	⊙
Ventilator operation (solo)	Group operation can be possible for free plan Lossnay units only. * The above group operation mode includes auto ventilation, heat exchange, and normal ventilation.	⊙	○
Ventilator operation (interlocked)	Free plan Lossnay units and indoor units can be interlocked and operated together. * At this point, air volume can be operated but the ventilation mode cannot be selected.	⊙	○
External input (timer connection, emergency stop input, etc.)	Using a level signal or pulse signal, it is possible to input the following. Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input. Pulse signal: Batch ON/OFF or Operation Disable/Enable * Requires an external power supply and separately sold external I/O adapter (PAC-YG10HA). Of the above inputs, only one input can be selected.	□	—
External output (error output, operation output)	Using the level signal, ON/OFF and Error/Normal are output. * Requires an external power supply and separately sold external I/O adapter (PAC-YG10HA).	—	□
Web browser	Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy saving control setting (option), energy saving peak cut setting (option), set temperature range restrictions, other	⊙ ^{*1}	⊙ ^{*1}
Filter reset	Filter sign reset	○	○
Connectable location	Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable	—	—

* The functions and specifications differ depending on the connected equipment and model.

* Electric energy can be proportionally divided using the EW-50E alone.

But the apportioned electricity charge function requires an AE-200E or TG-2000A.

■Notes

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

* 2. Use only items for which the unit has the function.

■Connectable equipment: Free plan direct expansion system air conditioner

Inverter air conditioner for facility

Package air conditioner for facility (the AW control model can be connected using an M control compatible indoor unit)

A Control Mr. Slim (Can be connected using an M-NET adapter or special outdoor unit)

Kirigamine room air conditioner (Requires a system control interface or M-NET control interface)

Free plan Lossnay/Lossnay with heating and humidification

Independent humidification unit^{*2}

Environmental measuring controller, metering measurement controller, general interface



Centralized controller EB-50GU-J



The Web Server Function enables Remote Operation or Scheduling Via a Web Browser on a Personal Computer!
Up to 50 indoor units can be controlled!

Web Browser

Enables monitoring and operation of indoor units using a PC with Microsoft® Internet Explorer (Ver.8 or Ver.9)

*When connecting to the Internet, please use the VPN (Virtual Private Network).

Using "Dial-up Connection"

- Enables monitoring and operation from a remote place
- Enables error notification by e-mails to a PC or to a mobile phone



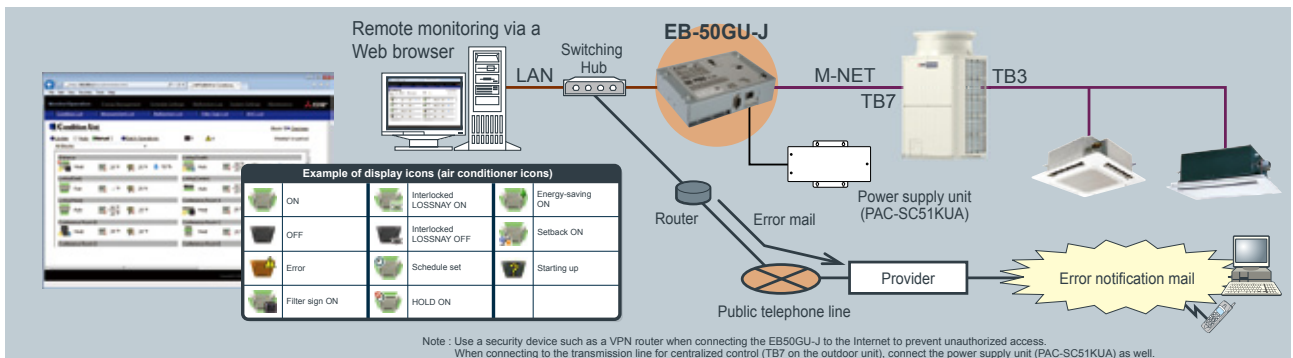
Java™ is a registered trademark of Oracle® and/or its affiliates.

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

Function	Description	Operations	Display
ON / OFF	ON and OFF operation for the air conditioner units	○●◎	○◎
Mode selection	Switches between COOL/DRY/FAN/AUTO/HEAT	○●◎	○
Temperature setting	The temperature can be set within the following range. Cool/Drying: 67°F - 95°F/19°C - 35°C Heat: 40°F - 83°F/4.5°C - 28°C Auto (single set point): 67°F - 83°F/19°C - 28°C Auto (dual set points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. *The settable temperature ranges and items vary depending on the indoor and outdoor unit models.	○●◎	○
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	○●◎	○
Timer operation / Schedule	Annual/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.	○●◎	○
Permit / Prohibit function	Individually prohibit operation of each local remote control function	○●◎	○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	X	□
Test run	This operates air conditioner units in test run mode.	○◎△	○
Ventilation interlock	Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment).	○	○
AHC status	Displays the status of input and output ports of each Advanced HVAC CONTROLLER (AHC).	X	□
Energy Use Status	On the Energy Use Status screen, the energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. Operators can check the detailed status of given indoor units by specifying the date to display the data per group, block, or unit address.	X	□○●

*NOTE: Operation and displayed content vary depending on the indoor unit model.

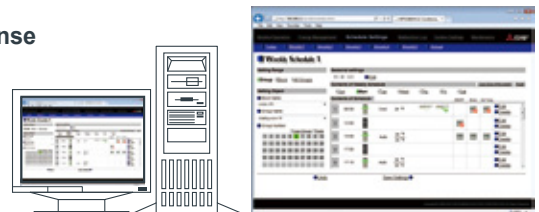
System Structure (image)



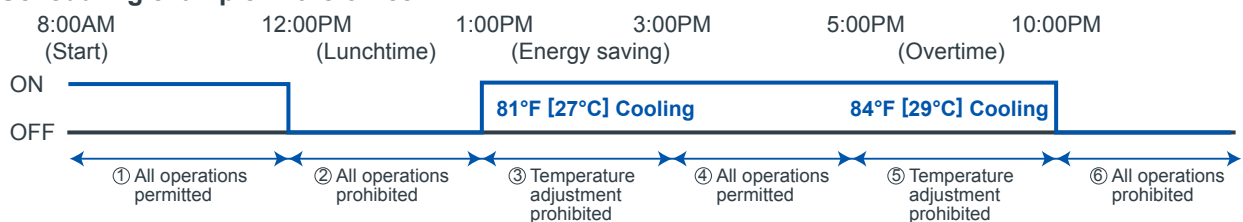
Annual / Weekly Schedule

Enables Weekly and Annual scheduling with a registering license

- The operations that can be scheduled for air conditioning unit group: ON/OFF/Optimized Start, Mode, Set Temp, Air Direction, Fan Speed, and Prohibit Remote Controller operation
- For annual schedule, it is possible to set 50 day-long settings up to 24 months into the future.



Scheduling example in the office



Up to 12 operation settings per day in 1-minute increment

Remote Controller

Centralized Remote Controller

AHC ADAPTER PAC-IF01AHC-J



Dimensions: 4-9/16(W) x 3-1/2(H) x 1-9/16(D) in.
: 116(W) x 90(H) x 40(D) mm

Advanced HVAC CONTROLLER (hereafter referred to as AHC) comprises of MITSUBISHI ELECTRIC's AHC ADAPTER (PAC-IF01AHC-J) and α 2 SIMPLE APPLICATION CONTROLLER* (hereafter referred to as ALPHA2).

* α 2 SIMPLE APPLICATION CONTROLLER is one of the Programming Logic Controllers that are manufactured by MITSUBISHI ELECTRIC CORPORATION.

AHC allows for the connection of MITSUBISHI ELECTRIC's air conditioning network system (hereafter referred to as M-NET) to other systems, which was not possible with the use of ALPHA2 alone. AHC provides the following functions.

- ① Controls external devices using the sensor data of the air conditioning units connected to M-NET.
- ② Interlocks the operation of air conditioning units and external devices that are connected to ALPHA2.
- ③ Controls air conditioning units that are connected to M-NET.
- ④ Allows for the combined use of the items ①-③ above.
- ⑤ Monitors the input/output status of ALPHA2 via a remote controller or a centralized controller.

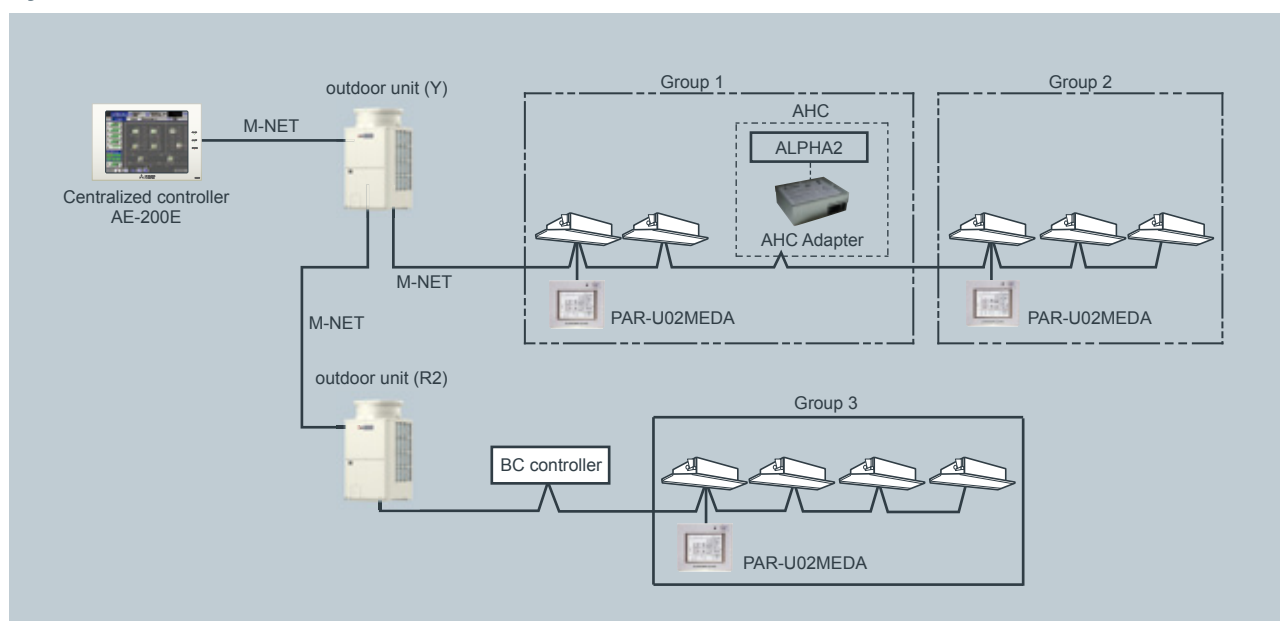
Compatible controllers

- Remote Controller: PAR-U02MEDA
- Centralized Controller: EB-50GU-J, AE-200E, AE-50E, EW-50E

* Refer to the manual that came with ALPHA2 for information about ALPHA2.

* The use of AHC ADAPTER requires either a remote controller or a centralized controller.

System Structure



Centralized Remote Controller

PI Controller PAC-YG60MCA



Dimension: 200(W) x 120(H) x 45(D) mm
: 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

No more PLCs are needed!

Our new PI controller makes it possible to perform energy saving without PLC, which is cost saving.

Maximum of 4 measurement meter (WHM, gas meter, water meter, calorie meter) can be connected to the PI controller and can be used also for charge calculation.

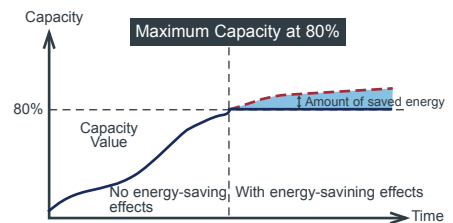
*24 VDC power needs to be provided on site.

Energy Saving Control (Peak Cut)

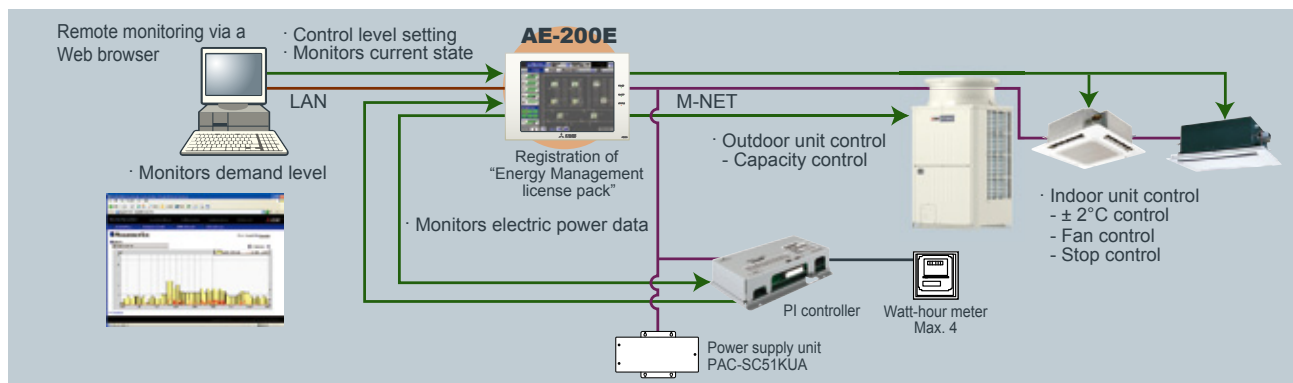
Enables Energy Saving Control with the use of our new PI controller.
(Registration of "Energy Management license pack" is required.)

To perform energy saving, the capacity of the outdoor unit is controlled.

*Please note that when using an energy saving control, there are no warranties to failures such as usage over the contracted electricity.



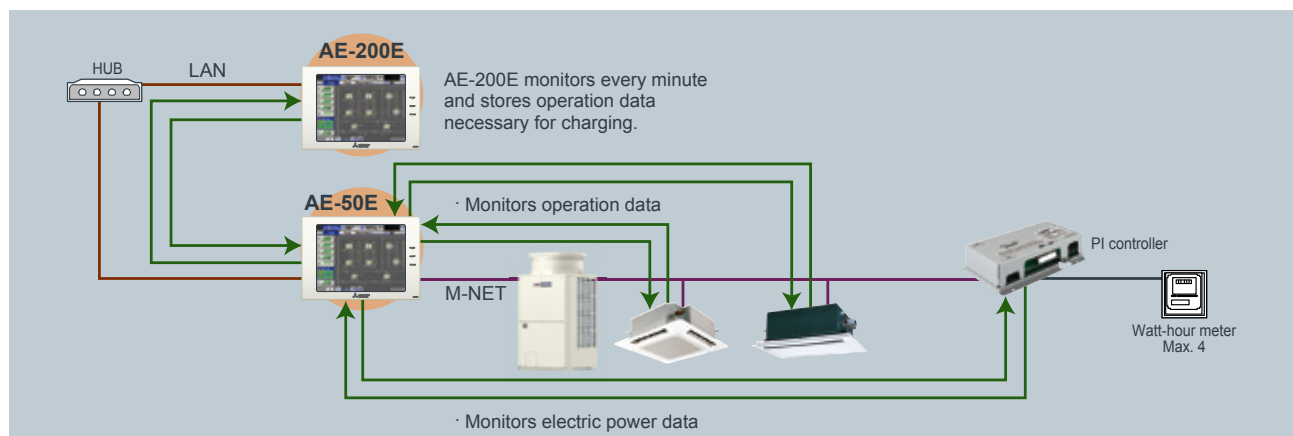
System Structure



Charge Calculation

Enables charge calculation for each tenant and output as CSV file

System Structure



DIDO Controller PAC-YG66DCA



Dimension: 200(W) x 120(H) x 45(D) mm
: 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

No more PLCs are needed!

Our new DIDO controller makes it possible to control general-purpose equipment without PLC, which is cost saving. Up to 6 general-purpose equipment can be connected to the DIDO controller.

*24 VDC power needs to be provided on site.

General-purpose equipment Control

Enables to control and monitor equipment other than air-conditioners (air-conditioners of other companies, lights, ventilators, etc.)

System Structure

- In addition to above, the air-conditioners can be interlocked with general-purpose equipment. E.g. Interlock between indoor units and security system.
- The indoor units can be turned ON/OFF when the security system is activated/deactivated.

Icon display (Lights)



ON



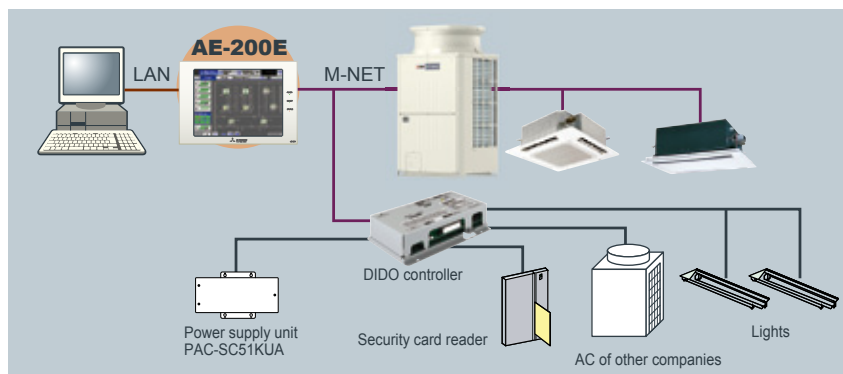
OFF



Error



Schedule set



AI Controller PAC-YG63MCA



Dimension: 200(W) x 120(H) x 45(D) mm
: 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

Our new AI controller makes it possible to monitor the values measured by the temperature/humidity sensor connected to the AI controller.

The AI controller has two input and two output channels.

*24 VDC power needs to be provided on site.

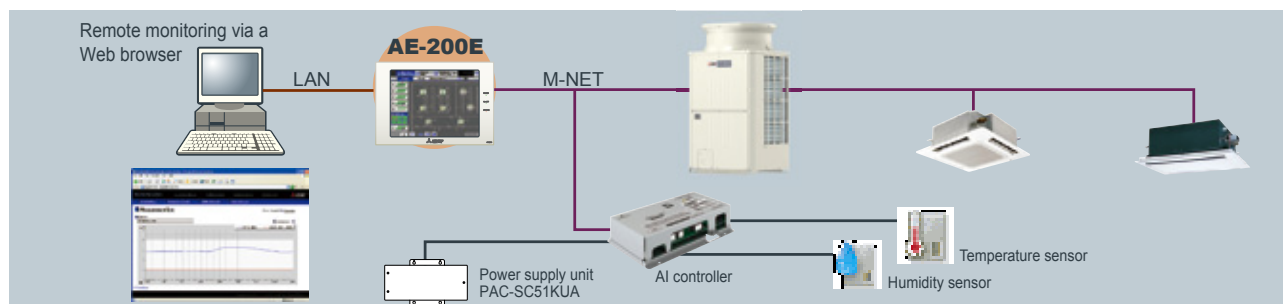
Temperature/Humidity Monitoring

Monitors the values measured by the temperature/humidity sensor connected to the AI controller

Temperature : Pt100, 4 to 20mA DC, 1 to 5 VDC, 0 to 10 VDC
Humidity : 4 to 20mA DC, 1 to 5 VDC, 0 to 10 VDC

- Trend displays of measurement data can be shown on a Web browser.
- An alarm can be output by e-mail when measurement data exceeds a preset upper or lower limit.

System Structure

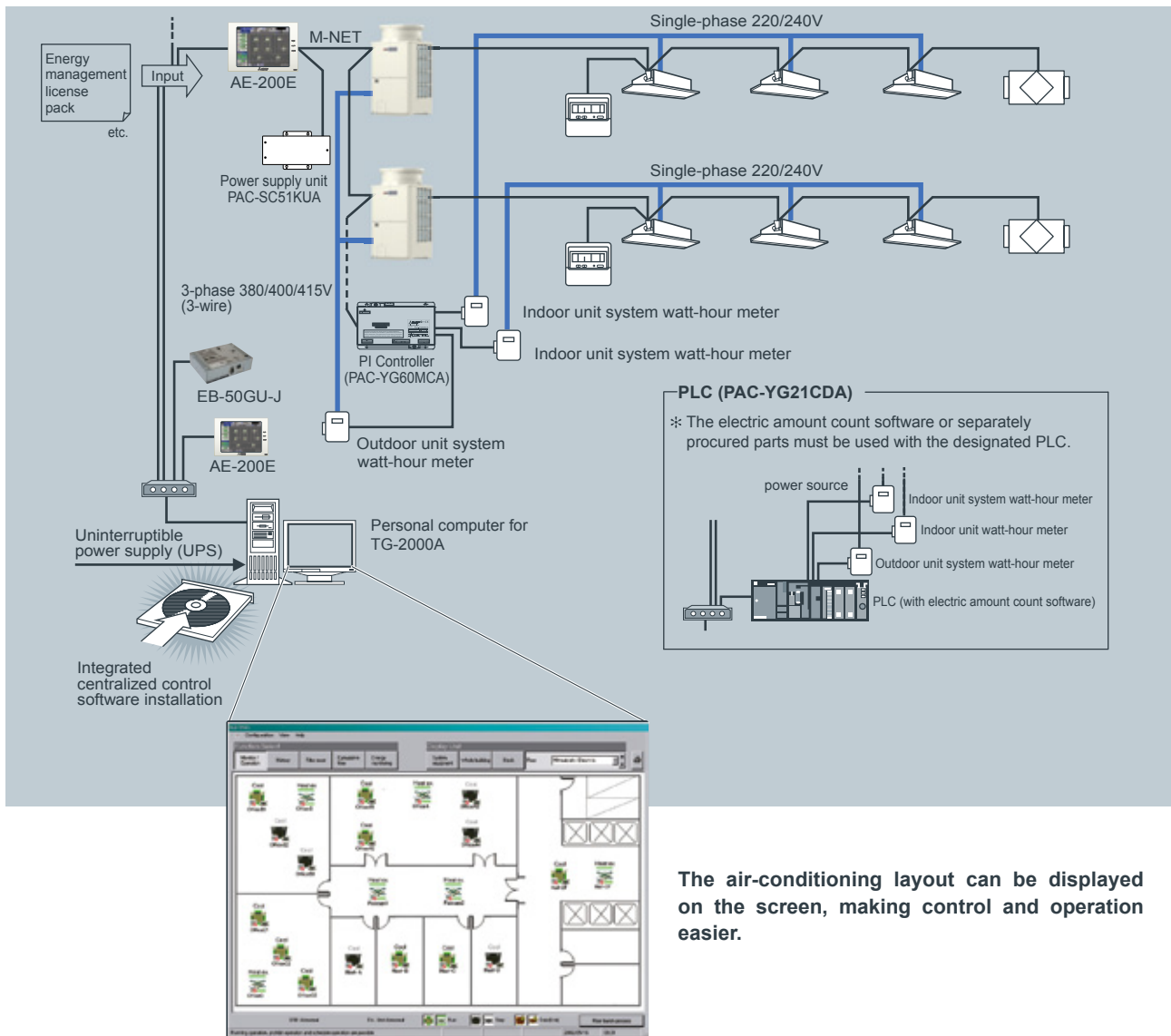


Remote Controller



Integrated centralized control software TG-2000A

Example of Basic System Configuration



Effective use of TG-2000A

Multiple air conditioning charges in multiple buildings can be calculated. The power apportionment percentage data and apportioned power rate can be calculated for each unit, and can be output as a CSV file.



For example, installing TG-2000A to the system in the headquarters makes it possible to control AE-200E, AE-50E, EW-50E, AG-150A, or EB-50GU-J units that are used in branch offices. (Version 6.60 or later)



Remote Controller

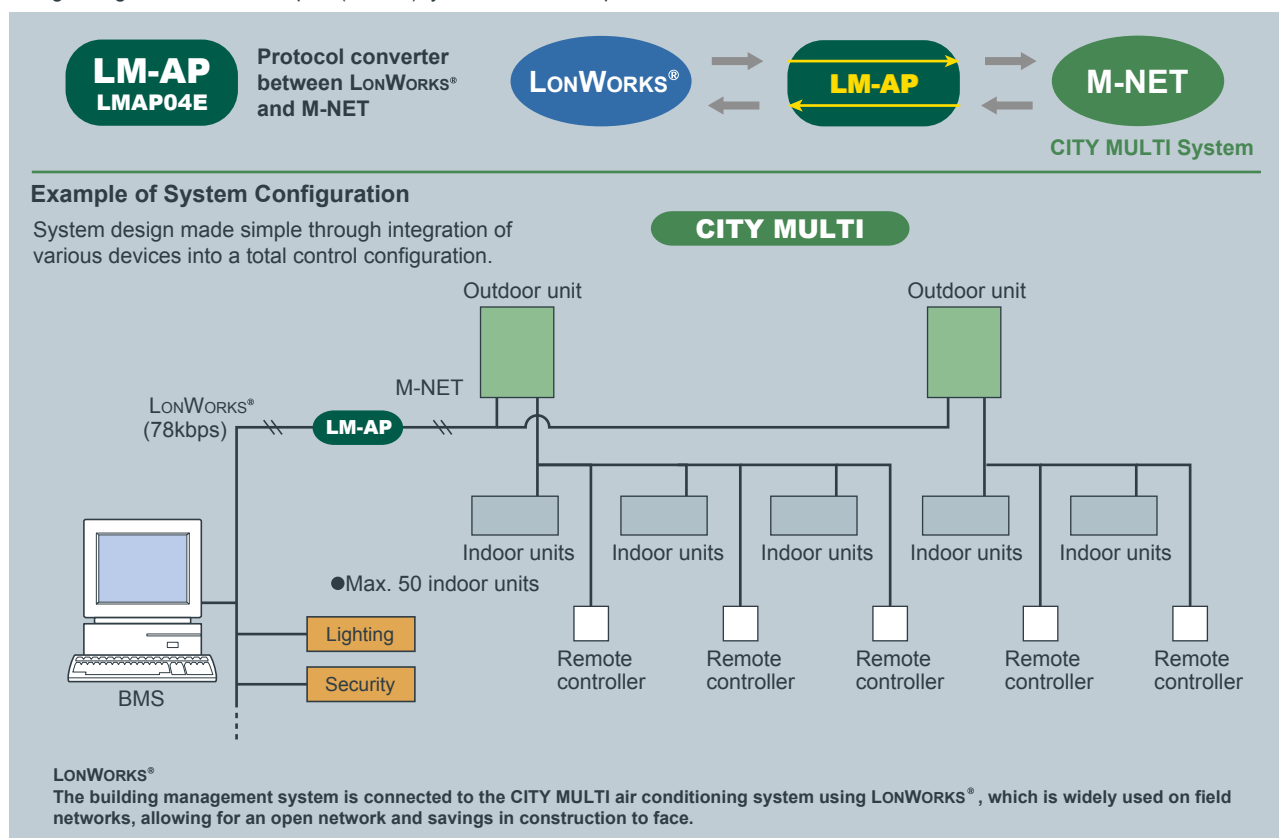
LONWORKS® (LMAP04E)

CITY MULTI can easily combine into a Building Management System (BMS) via the LonWorks® and M-NET adapter LMAP04. LonWorks® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LonWorks®.



One LM ADAPTER unit can connect up to 50 Groups/50 indoor units.

Using a single LonWorks® adapter (LM-AP), you can connect up to a maximum of 50 indoor units.



LON, LonWorks® and the Echelon logo are trademarks of Echelon Corporation registered in the United States and other countries.

LONWORKS® INTERFACE

FUNCTION	CONTENT
Control	
ON/OFF	Switches between ON and OFF
Mode Operation	Cooling/Drying/Heating/Auto/Fan
Setpoint Adjustment	Cooling 19-35°C, Heating 4.5-28°C, Auto 19-28°C
Fan Speed Control	Lo-Mi1-Mi2-Hi
Permit/Prohibit	ON/OFF, Mode, Setpoint
Emergency Stop	-
Monitoring	
ON/OFF	Switches between ON and OFF
Mode	Cooling/Drying/Heating/Auto/Fan
Setpoint	Cooling 19-35°C, Heating 4.5-28°C, Auto 19-28°C
Fan Speed	Lo-Mi1-Mi2-Hi
Permit/Prohibit	ON/OFF, Mode, Setpoint
Alarm State	-
Room Temperature	-10°C~50°C
Thermo ON/OFF	ON/OFF



BACnet® (BAC-HD150)

CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet® and M-NET adapter BAC-HD150. BACnet® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS via BACnet®.

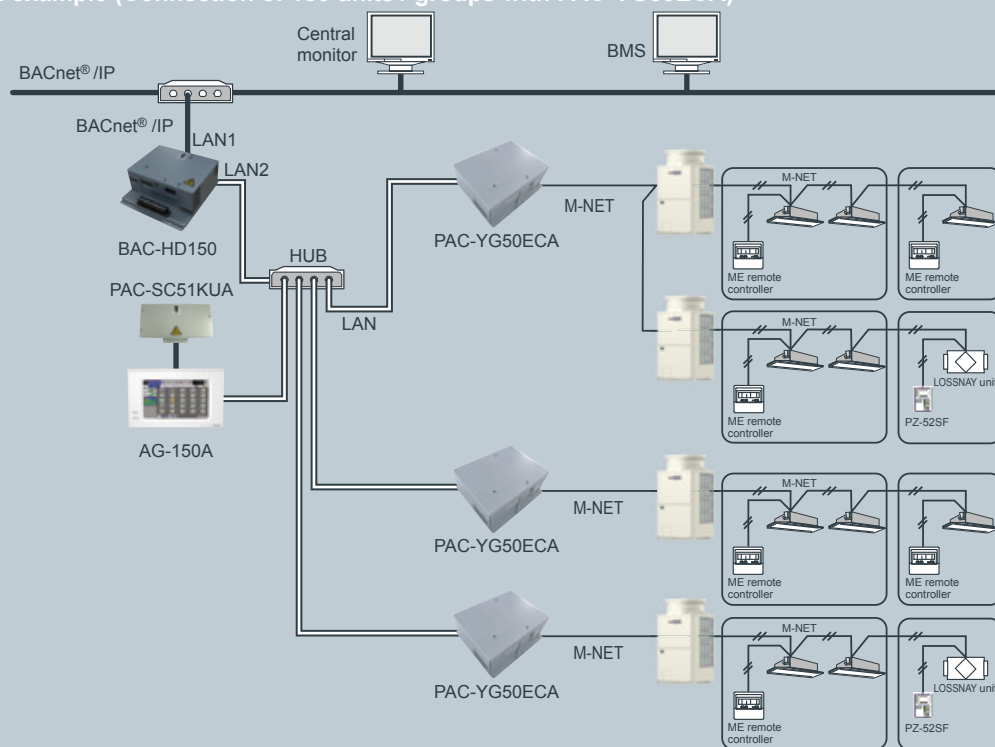


BAC-HD150 can control up to 50 units/groups (including LOSSNAY).

Up to 150 units/groups (including LOSSNAY) can be controlled from one BAC-HD150 with three expansion controllers PAC-YG50ECA. (50 units/PAC-YG50ECA)

When the dual-set-point function is used, no expansion controllers can be connected, and only up to 50 units/groups can be controlled from each BAC-HD150.

System example (Connection of 150 units / groups with PAC-YG50ECA)



BACnet® and M-NET adapter

FUNCTION	CONTENT
Operation	
ON/OFF	Switches between ON and OFF
Mode	Cool/Dry/Heat/Auto/Fan
Fan Speed	Low-Mid1-Mid2-Hi
Airflow Direction	Horizontal- 60°-80°-100°swing
Set Temperature	Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F]
Filter Sign Reset	Normal/Reset
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp.
Forced OFF	Release/Effective
Monitoring	
ON/OFF	Switches between ON and OFF
Mode	Cool/Dry/Heat/Fan
Fan Speed	Low-Mid1-Mid2-Hi
Air Direction	Horizontal- 60°-80°-100°swing
Set Temperature	Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F]
Filter Sign	Normal/Reset
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp.
Indoor Temperature	-
Alarm Signal	Normal/Abnormal
Error Code	2 Character code- Indicates all unit alarms
Communication State	Normal/Abnormal

Remote Controller



Optional Parts



Optional Parts

OPTIONAL PARTS FOR INDOOR UNITS

>>4-way cassette type (PLFY-VBM/VCM)

Description	Model	Applicable capacity		Remarks
		VBM	VCM	
Decoration panel	SLP-2AAW / SLP-2ALW	—	P20, P25, P32, P40	SLP-2ALW is for PLFY-P-VCM-E2 or later model only. For more detailed information, please contact your nearest sales office or distributor.
	PLP-6BA	P32, P40, P50, P63, P80, P100, P125	—	
Automatic Filter Elevation Panel	PLP-6BAJ	P32, P40, P50, P63, P80, P100, P125	—	
Multi-functional casement	PAC-SH3TM-E	P32, P40, P50, P63, P80, P100, P125	—	
High-efficiency filter element	PAC-SH59KF-E	P32, P40, P50, P63, P80, P100, P125	—	
Wireless signal receiver	PAR-SA9FA-E	P32, P40, P50, P63, P80, P100, P125	—	
Space panel	PAC-SH48AS-E	P32, P40, P50, P63, P80, P100, P125	—	
"i-see" sensor	PAC-SA1ME-E	P32, P40, P50, P63, P80, P100, P125	—	
Duct flange for fresh air intake	PAC-SH65OF-E	P32, P40, P50, P63, P80, P100, P125	—	
Shutter plate	PAC-SH51SP-E	P32, P40, P50, P63, P80, P100, P125	—	

>>2-way cassette type (PLFY-VLMD)

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

>>1-way cassette type(PMFY-VBM)

Description	Model	Applicable capacity
Decoration panel	PMP-40BMW	P20, P25, P32, P40

>>Ceiling concealed type (PEFY-VMH(S))

Description	Model	Applicable capacity	Remarks
Drain pump	PAC-KE04DM-F	P40~P250VMH	
	PAC-KE05DM-F	P200, P250VMHS	
Long life filter	PAC-KE86LAF	P40, P50, P63	
	PAC-KE88LAF	P71, P80	
	PAC-KE89LAF	P100, P125, P140	
	PAC-KE85LAF	P200, P250	
Filter box	PAC-KE63TB-F	P40, P50, P63	Necessary when long life filter is used
	PAC-KE80TB-F	P71, P80	
	PAC-KE140TB-F	P100, P125, P140	
	PAC-KE250TB-F	P200, P250	

>>Ceiling concealed type (PEFY-VMA(L))

Description	Model	Applicable capacity
Filter box	PAC-KE91TB-E	P20, P25, P32
	PAC-KE92TB-E	P40,P50
	PAC-KE93TB-E	P63, P71, P80
	PAC-KE94TB-E	P100, P125
	PAC-KE95TB-E	P140

>>Fresh air intake type (PEFY-VMH-E-F)

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

>>Ceiling suspended type (PCFY-VKM)

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

>>Ceiling concealed type (PEFY-VMS1(L))

Description	Model	Applicable capacity	
Drain pump	PAC-KE07DM-E	P15, 20, 25, 32, 40, 50, 63	*For PEFY-VMS1L only
Control box replace kit	PAC-KE70HS-E	P15, 20, 25, 32, 40, 50, 63	

>>Wall mounted type (PKFY-VBM/VHM/VKM)

Description	Model	Applicable capacity
External LEV Box	PAC-SG95LE-E	P15, 20, 25, 32, 40, 50, 63
Drain pump kit	PAC-SH75DM-E	P32, 40, 50
	PAC-SH94DM-E	P63,100



OPTIONAL PARTS FOR OUTDOOR UNITS

>>For PUCY series

Description	Model	Remarks
Twinning kit	CMY-Y100VBK3	For PUCY-P550~P650 / EP400~EP650YSKA
	CMY-Y200VBK2	For PUCY-P700~P1000 / EP700YSKA
	CMY-Y300VBK3	For PUCY-P1050~P1350 / EP750~EP1100YSKA
Branch pipe (Joint)	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)
	CMY-Y302S-G2	The 1st branch of P450~P650
		651 or above (Total capacity of indoor unit)
Branch pipe (Header)	CMY-Y104-G	The 1st branch of P700~P1250
	CMY-Y108-G	For 4 branches
	CMY-Y1010-G	For 8 branches
		For 10 branches

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification.

>>For PUMY series

Description	Model
Branch Pipe (2 Branch)	CMY-Y62-G-E
Header	CMY-Y64-G-E
Header	CMY-Y68-G-E
Drain Socket	PAC-SG61DS-E
Centralized Drain Pan	PAC-SH97DP-E
Port Connector (ø9.52 → ø12.7)	PAC-SG73RJ-E
Port Connector (ø15.88 → ø19.05)	PAC-SG75RJ-E
Air Protect Guide (2 pcs required)	PAC-SH95AG-E
Air Outlet Guide	PAC-SH96SG-E
Base Heater	PAC-SJ20BH-E

>>For PUHY series

Description	Model	Remarks
Twinning kit	CMY-Y100VBK3	For PUHY-P550~P650YSKA / EP400~EP650YSKA
	CMY-Y200VBK2	For PUHY-P700~P900YSKA / EP700YSKA
	CMY-Y200VBK3	For PUHY-P950~P1000YSKA
	CMY-Y300VBK3	For PUHY-P1050~P1500YSKA / EP750~1100YSKA
Branch pipe (Joint)	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)
		The 1st branch of P450~P650
		651 or above (Total capacity of indoor unit)
	CMY-Y302S-G2	The 1st branch of P700~P1250
Branch pipe (Header)	CMY-Y104-G	For 4 branches
	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
	PAC-KK45HY	For PUHY-P-Y(S)HA

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification.

■ Snow Hood

Prevention the Outdoor unit from wind and snow damages in cold or snowy areas, snow hood is recommended and helpful.

*Do not use a snow hood made of stainless steel, which may cause the unit to rust. If the use of a stainless snow hood is the only option, contact the sales office before installing it.

Refer to the data book for details.

OPTIONAL PARTS FOR CONTROL

Model	Description	Model	Description
PAC-SE41TS-E	Remote Sensor for A/J/K/M-Net Control	PAC-YG50ECA	Expansion controller for AG-150A
PAC-SE55RA-E	Remote ON/OFF adaptor for Indoor Unit	PAC-SC51KUA	Power supply unit for AG-150A
PAC-SA88HA-EP	Remote Display Adaptor for Indoor Unit	PAC-YG81TB	Mounting attachment B type for AG-150A wall-mount installations
PAC-SA89TA-EP	Timer Adaptor for remote controller	PAC-YG82TB	Mounting attachment for AE-200E wall-mount installations
PAC-SC37SA-E	Output signal connector	PAC-YG83UTB	Electric box for AG-150A wall-embed installations
PAC-SC36NA-E	Input signal connector	PAC-YG84UTB	Electric box for AE-200E wall-embed installations
PAC-SF46EPA	Transmission booster	PAC-YG85KTB	Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations
LMAPO4-E	Air conditioner interface	PAC-YG86TK	Mounting attachment for AE-200E wall-mount installations
PAC-YG11CDA	Electric amount count software	PAC-YG71CBL	Black surface cover for AG-150A
BAC-HD150	BAC net® and M-NET adapter	PAC-YG72CWL	Surface cover with USB port for AE-200E
PAC-YT51HAA-J	External input/output adapter for AT-50B		
PAC-YG10HA	External input/output adapter for AE-200E / AG-150A		

Installation Information

1. General precautions

1-1. Usage

- ◆The air-conditioning system described in this catalogue is designed for human comfort.
- ◆This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- ◆To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

1-2. Installation environment

- ◆Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- ◆Do not install the unit in acidic or alkaline environment.
- ◆Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- ◆To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- ◆This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- ◆Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

1-3. Backup system

- ◆In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

1-4. Unit characteristics

- ◆Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- ◆When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrost process.
- ◆Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- ◆The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" for the measurement location.
- ◆Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes even when operating normally. Please consider to avoid location where quietness is required.
- ◆The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However, when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.

- ◆When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

1-5. Relevant equipment

- ◆Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.
- ◆Consult your local distributor or a qualified technician when installing an earth leakage breaker.
- ◆If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- ◆Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- ◆Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- ◆If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

1-6. Unit installation

- ◆Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- ◆Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- ◆Ensure there is enough space around each unit.

1-7. Optional accessories

- ◆Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- ◆Some optional accessories may not be compatible with the air conditioning unit to be used or may not suitable for the installation conditions. Check the compatibility when considering any accessories.
- ◆Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

1-8. Operation/Maintenance

- ◆Read the Instruction Book that is provided with each unit carefully prior to use.
 - ◆Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety.
- Consult your local distributor or a qualified technician when special expertise is required such as when the indoor unit needs to be cleaned.

2. Precautions for Indoor unit

2-1. Operating environment

- ◆The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.
- ◆If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the indoor units.

2-2. Unit characteristics

- ◆The return air temperature display on the remote controller may differ from the ones on the other thermometers.
- ◆The clock on the remote controller may be displayed with a time lag of approximately one minute every month.
- ◆The temperature using a built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- ◆Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed on or in the ceiling operate the automatic cooling/heating switchover.
- ◆The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is large such as computer rooms.
- ◆Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the operation noise may increase.
- ◆The room temperature may rise over the preset temperature in the environment where the heating air conditioning load is small.

2-3. Unit installation

- ◆Do not have any branching points on the downstream of the refrigerant pipe header.
- ◆When a field-supplied external thermistor is installed or when a device for the demand control is used, abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor for details.
- ◆When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from the air.
- ◆The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" for the available range for fresh air intake volume.
- ◆Operating fresh air intake on the indoor unit may increase the sound pressure level.

3. Precautions for Fresh air intake type indoor unit

3-1. Usage

- ◆ This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

3-2. Unit characteristics

- ◆ This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- ◆ This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- ◆ Outside air temperature ranges for the operation must be as follows:
Cooling: 21°C D.B./15.5°C W.B. ~ 43°C D.B./35°C W.B.
Heating: -10°C D.B. ~ 20°C D.B.
The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.
Cooling: 21°C D.B. or below; Heating: 20°C D.B. or above
- ◆ Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- ◆ If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- ◆ Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

4. Precautions for Outdoor unit/Heat source unit

4-1. Installation environment

- ◆ Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- ◆ Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA (JRA9002).
- ◆ Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge air may occur.
- ◆ Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units.
Provide water-proof protection to the floor when installing the units on the rooftop.
- ◆ In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow guard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- ◆ When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0°C, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not applicable to the PUMY series)
- ◆ Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- ◆ When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- ◆ Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury.
- ◆ A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere.

When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

- ◆Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- ◆Interlock the heat source unit and water circuit pump.
- ◆Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place where the ambient temperature can be 0°C or below.
 - ◆Keep the water circulating to prevent it from freezing when the ambient temperature is 0°C or below.
 - ◆Before a long period of non use, be sure to purge the water out of the unit.
- ◆Salt-resistant unit is resistant to salt corrosion, but not salt-proof.

Please note the following when installing and maintaining outdoor units in marine atmosphere.

1. Install the salt-resistant unit out of direct exposure to sea breeze, and minimize the exposure to salt water mist.
2. Avoid installing a sun shade over the outdoor unit, so that rain will wash away salt deposits off the unit.
3. Install the unit horizontally to ensure proper water drainage from the base of the unit. Accumulation of water in the base of the outdoor unit will significantly accelerate corrosion.
4. Periodically wash salt deposits off the unit, especially when the unit is installed in a coastal area.
5. Repair all noticeable scratches after installation and during maintenance.
6. Periodically check the unit, and apply anti-rust agent and replace corroded parts as necessary.

4-2. Circulating water

- ◆Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water quality of the water in the heat source unit regularly.
- ◆A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the atmosphere.

When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

4-3. Unit characteristics

- ◆When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

4-4. Relevant equipment

- ◆Provide grounding in accordance with the local regulations.

5. Precautions for Control-related items

5-1. Product specification

- ◆To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- ◆Billing calculation for AE-200E, AE-50E, EW-50E, AG-150A, EB-50GU-J, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- ◆In the apportioned billing function for AE-200E, AE-50E, EW-50E, AG-150A, and EB-50GU-J, use separate watthour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watthour meter for the large-capacity indoor unit (with two or more addresses).
- ◆When using the peak cut function on the AE-200E, AE-50E, EW-50E, AG-150A, and EB-50GU-J, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AE-200E, AE-50E, EW-50E, AG-150A, or EB-50GU-J malfunctions or stops. Provide a back-up remedy as necessary.
- ◆The controllers cannot operate while the indoor unit is OFF. (No error)
Turn ON the power to the indoor unit when operating the controllers.
- ◆When using the interlocked control function on the AE-200E, AE-50E, EW-50E, AG-150A, EB-50GU-J, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

5-2. Installation environment

- ◆The surge protection for the transmission line may be required in areas where lightning strikes frequently occur.
- ◆A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- ◆When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- ◆Install the wired remote controller (switch box) to the place where the following conditions are met.
 - ◆Where installation surface is flat
 - ◆Where the remote controller can detect an accurate room temperature
The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
 - ◆Install the controller in a place where it is not subject to the heat source.
(If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
 - ◆Install the controller in a place where an average room temperature can be detected.
 - ◆Install the controller in a place where no other wires are present around the temperature sensor.
(If other wires are present, the remote controller cannot detect an accurate room temperature.)
- ◆To prevent unauthorized access, always use a security device such as a VPN router when connecting AE-200E, AE-50E, EW-50E, AG-150A, EB-50GU-J, or TG-2000A to the Internet.

Maintenance Equipment

Maintenance cycle [Note that maintenance cycle does not mean guarantee period.]

The following tables are applicable when using equipment under the conditions below.

- Normal use without frequent START/STOPs (The number of START/STOPs is assumed to be less than 6 times per hour in normal use.)
- Operating hours are assumed to be 10 hours per day/2500 hours per year.

If the following conditions are met, the equipment may not be used, or the "maintenance cycle" and "replacement intervals" may be shortened.

- When equipment is used in an environment where the temperature and humidity are high or change dramatically
- When equipment is used in an environment where the power supply fluctuations (the distortion of voltage, frequency, and waveform) are large (Only within the allowable range)
- When equipment is used in an environment where the unit may receive vibration or mechanical shock
- When equipment is used in an environment where dust, salt, toxic gases such as sulfur dioxide and hydrogen sulfide, and oil mist are present
- When equipment starts/stops frequently and operates for a long time (24-hour air conditioning operation)

Table 1. Maintenance cycle

Major components	Checking cycle	Maintenance cycle	Major components	Checking cycle	Maintenance cycle
Compressor	1 year	20,000 hours	Expansion valve	1 year	20,000 hours
Motor (Fan, Louver, drain pump)		20,000 hours	Valve (solenoid valve, four-way valve)		20,000 hours
Bearing		15,000 hours	Sensor (thermistor, pressure sensor)		5 years
Electric board		25,000 hours	Drain pan		8 years
Heat exchanger		5 years			

Note1 This table shows major components. Refer to the maintenance contract for details.

Note2 This maintenance cycle shows a period in which products are expected to require no maintenance. Use this cycle for planning maintenance (budgeting the maintenance expense etc.) Checking/ Maintenance cycle may be shorter than the one on this table depending on the contents of maintenance check contract.

- Sudden unpredictable accident may occur even if check-up is performed.

Replacement cycle of consumable components

[Note that replacement cycle does not mean guarantee period.]

Table 2. Replacement cycle

Major components	Checking cycle	Replacement cycle
Long-life filter	1 year	5 years
High-performance filter		1 year
Fan belt		5,000 hours
Smoothing capacitor		10 years
Fuse		10 years
Crank case heater		8 years

Note1 This table shows major components. Refer to the maintenance contract for details.

Note2 This replacement cycle shows a period in which products are expected to require no replacements. Use this cycle for planning maintenance (budgeting expenses for replacing equipments etc.)



for a greener tomorrow

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



FM33568 / ISO 9001:2008

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

ISO Authorization System

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



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

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

⚠ Warning

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

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