

for a greener tomorrow

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AIR CONDITIONING SYSTEMS

# CITY MULTI



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

#### RF 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.

#### nverter 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 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.

## ntelligent 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.

### R 410A 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 Models**

Mitsubishi Electric offers a wide variety of lineup of cooling-only models including standard, high COP, and super high COP models.



## Standard, High COP, or Super High COP options are available by different combinations of modules.





# S + S + S Image: Super High COP model Image: Super High COP model

### YKA features



\*1 : Any continuous operation over 46°C may require an increased frequency of maintenance.
 \*2 : If the height difference between indoor units exceeds 15 meters (but does not exceed 30 meters), use one-size larger pipes for indoor unit liquid pipes.
 \*3 : When the piping length exceeds 40m, use one size larger liquid pipe starting with the section of piping where 40m is exceeded and all piping after that point.

### Energy saving

#### Compressor

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C •  Improved efficiency by the use of DC brushless motor.

 Improved partial-load characteristics achieved by the optimized scroll shape.



Optimized scroll shape (improved volumetric capacity ratio) High Compressor efficiency

Improved SEER performance



 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





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.

changed shape of the bellmouth hood.

#### 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, so this range provides ideal solutions you can trust to protect your investment.







PLFY-VBM



PQRY-YLM

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



## **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.



## nverter Driven Compressor Technology





## 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), 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 6-20HP 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) – 20HP system



## ntelligent 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 CO<sub>2</sub> 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 or refrigerating systems.







# Outdoor Unit

Cooling-only Series (Y), High COP (Y), Super High COP (Y)

- Heat Pump Series (S)

- Heat Pump Series (Y), High COP (Y)

# Wide Selection of Outdoor Units

_			H	IP	4.5	5	6	7	8	9	10	12	14	16	18	
System	Туре	Model name	Мс	odel	P112	P125	P150	P175	P200	P225	P250	P300	P350	P400	P450	
		Y series Page 25 - Page 35 PUCY-P YKA(-BS) PUCY-P YSKA(-BS)		S					8		10	12				
				L									14	16	18	
				XL										• ·           		
	Cooling only	Y series - High COP Page 36 - Page 41 PUCY-EP YSKA(-BS)		s										8 8	8 10	
			*1	L									• ·             			
				XL												
		Y series - Super High COP NEW Page 25 (6HP) Page 42 - Page 45											1 1 1 1 1 1	- - - - - - - - - - - - - - - - - - -		
		PUCY-(SE)P Y(S)KA (-BS)		S			6					6	6 8	6 10	6 6 6	
Air																
Cooled							P140						     	     		
		S series NEW Page 46 - Page 48 PUMY-P VKM2(-BS) PUMY-P YKM2(-BS) PUMY-P YKM1(-BS)			4.5	5	6	7	8	9						
		Y series Page 49 - Page 59 PUHY-P YKA(-BS)		s					8		10	12				
	Heat Pump	PUNT-PISKA(-BS)		L									14	16	18	
			*1	XL												
		Y series - High COP Page 60 - Page 65 PUHY-EP YSKA(-BS)		S										8 8	8 10	
				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 P500	22 P550	24 P600	26 P650	28 P700	30 P750	32 P800	34 P850	36 P900	38 P950	<b>40</b>	42 P1050	44 P1100	<b>46</b>	48 P1200	50 P1250	52 P1300	54 P1350	56 P1400	58 P1450	60 P1500
	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				Ŭ			Ŭ	20	20 20	20 20 20
10 10			12		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								
											Ŭ	Ŭ								
6 6 8	6 8 8	6 8 10	6 10 10																	
			Ŭ																	
	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
10 10			12		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								
															• <b></b>       				+	

# Wide Selection of Outdoor Units

					HP			8	10	12	
S	System	Туре	Model name		Mode			P200	P250	P300	
			Y series - High COP				S	8			
			PUHY-EP YJM-A(-BS)				L		10		
		Heat	PUHY-EP YSJM-A(-BS)				XL			12	
		Pump					s				
			Y series - High COP		-	Ì	L				
	Air						XL				
	Cooled					ľ	s	8	10		
			R2 series		-	ľ	L			12	
		Heat	FURT-FTLM-AT(-D3)	12.00			XL				
		Recovery				ľ	S				
			PURY-P YSLM-A1(-BS)	Analysis Analysis analogias			L				
							XL				
F				-	- 10		9		10	12	
			WY series					•			
		Heat	PQHY-P YLM-A			*1	L				
		Pump	PQHY-P YSLM-A			ŀ	c				
				-							
	Wator						L				
	Cooled				- 10	ŀ	ç				
			WR2 series	-				8	10	12	
		Heat	PQRY-P YLM-A				L				
		Recovery					c				
			PQRY-P YSLM-A	-			3				
							L				
F											
				_							
	Air	Heat	REPLACE MULTI Y series PUHY-RP YJM-B				s	8	10	12	
	Coolea	Pump	PUHY-RP YSJM-B								
1											

\*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.

14	16	18	20	22	24	26	28	30	32	34	36
P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
	88	8	8		     	88	88	8	8		
		10		10		10	   	10		10	
			12	12	12 12		12	12	12 12	12 12	12 12 12
				- 		1 1 1	8				
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 		18	20		- +	   	+				
	88	8 10	10 10	10							
 				12	12 12	12 14	14 14	14 16	16 16	16	
 										18	18 18
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 				     	     		     +	     	   	   	
14	16	18	20	22	24		1 1 1 1				
	88	8 10	10 10	10 12	12 12						
					•		14 14	14 16	16 16	16 18	18 18
 14	16	18	20	22	24		 +				
 	8 8	8 10	10 10	10 12				   			
							14 14	14 16	16 16	16 18	18 18
				- - - 	I I		1				
14	88	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 VKM2 PUMY-P YKM2 PUMY-P YKM1

#### 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.

#### 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/YHME



#### 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.

#### 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.



#### **Inflexed** fan

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















#### 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.



Outdoor Unit



Y series

PUCY-P YKA(-BS) **PUCY-P YSKA(-BS)** PUHY-P YKA(-BS) PUHY-P YSKA(-BS)

**PUHY-EP YSKA(-BS)** 

PUCY-EP YSKA(-BS)

#### **PUCY-SEP YSKA(-BS)**

## 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.



- P1500: 60 m max
- <sup>14</sup> Depending on the model and installation conditions, top-bottom differential 90m [295ft]. For more detailed information, please contact your nearest sales office or distributor.
   <sup>15</sup> 4m or less in cooling at outdoor temperature 10°C or lower for heat pump series.
   <sup>16</sup> 30m is available. If the height difference between indoor units exceeds 15 meters (but does not exceed 30 meters), use one-size larger pipes for indoor unit liquid pipes. [for PUCY-P-Y(S)KA(-BS)/PUCY-EP-YSKA(-BS)/PUCY-SEP-YSKA(-BS)/PUHY-(E)P-Y(S)KA(-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)



Outdoor Unit

#### 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.

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

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

Blue Fin Treatment

Fin.

#### **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.



#### Based on 10HP model

#### 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.

# In operation



#### 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.



### ► Specifications



			NEW			1		
Model			Super High COP PUCY-P150YKA (-BS)	PUCY-P200YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P300YKA (-BS)	PUCY-P350YKA (-BS)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity	*1	kW	16.0	22.4	28.0	33.5	40.0	
(Nominal)		kcal/h	15,000	20,000	25,000	30,000	35,000	
	*1	BTU / h	54,600	76,400	95,500	114,300	136,500	
	Power input	kW	3.39	5.59	7.08	8.95	10.78	
	Current input	A	5.7-5.4-5.2	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	4.71	4.00	3.95	3.74	3.71	
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)					
cooling	Outdoor	D.B.	10.0~52.0°C (50~126°F)					
Indoor unit	Total capacity		50~130% of outdoor unit capacity					
connectable	Model / Quantity		P15~P250/1~12	P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	P15~P400/1~30	
Sound pressure le (measured in ane	vel choic room)	dB <a></a>	57	P15~P250/1~21         P15~P25           57         58         6		61	61	
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	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	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		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		Inverter-control,	Inverter-control,	Inverter-control,	Inverter-control,	Inverter-control,	
	mechanism		Direct-driven by motor					
	Motor output	kW	0.92 x 1					
*2	External static pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter scroll hermetic					
			compressor	compressor	compressor	compressor	compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	4.2	5.5	6.9	8.1	10.4	
	Case heater	kW	-	_	_	_	_	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1<br="" 5y="" 8="">or similar&gt;</munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1<br="" 5y="" 8="">or similar&gt;</munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1<br="" 5y="" 8="">or similar&gt;</munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1<br="" 5y="" 8="">or similar&gt;</munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1<br="" 5y="" 8="">or similar&gt;</munsell>	
External dimensio	n 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 pro	otection	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)	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 ch	narge	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 11.5 kg (26 lbs)	
Net weight		kg (lbs)	174 (384)	174 (384)	183 (404)	201 (444)	237 (523)	
Heat exchanger			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	Joint: CMY-Y102SS/ LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

	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.)

### ► 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	*1	kW	44.0	48.0	56.0
(Nominal)		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
Temp. range of	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)
cooling	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	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P500/1~34	P15~P500/1~39	P15~P500/1~43
Sound pressure level (measured in anechoic room)		dB <a></a>	63	63	65
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
diameter	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 me	echanism	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		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	Pre-coated galvanized steel sheets	Pre-coated galvanized steel sheets
			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimension	n 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	High pressure pre	otection	High pressure sensor,	High pressure sensor,	High pressure sensor,
devices			High pressure switch at 4.15 MPa (601 psi)	High pressure switch at 4.15 MPa (601 psi)	High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit		Over-heat protection,	Over-heat protection,	Over-heat protection,
	(COMP./FAN)		Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	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	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	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.)



### ► Specifications





Model			PUCY-P550	YSKA (-BS)	PUCY-P600	YSKA (-BS)	PUCY-P650	YSKA (-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	*1	kW/	61	5	68	3.0	7	2.0		
(Nominal)		kcal/h	52	900	58	500	61	900		
(i torininai)	*1	BTU/h	209	800	232	000	245	700		
	Power input	kW	15	97	17	79	10	67		
	Current input	Δ	26.9-25	56-246	30.0-28	3 5-27 4	33.2-3	1 5-30 4		
	FER	kW / kW	20.0 20	85	3	82	3	66		
Temp, range of	Indoor	WB	15.0~24.0°	C (59~75°E)	15 0~24 0°	C (59~75°E)	15 0~24 0°	C (59~75°E)		
cooling	Outdoor	D B	10.0~52.0°C	C (50~126°E)	10.0~52.0°C	C (50~126°E)	10.0~52.0°0	2 (50~126°E)		
Indoor unit	Total canacity	0.0.	50~130% of out	foor unit canacity	50~130% of out	door unit canacity	50~130% of out	door unit canacity		
connectable	Model / Quantity		P15~P5		P15~P500/1~50		P15~P	500/1~50		
Sound prossure le			11515		11010	00/1 00	11010	100/1 30		
(measured in ane	dB <a< td=""><td>6</td><td>3</td><td colspan="2">63</td><td>6</td><td>4.5</td></a<>		6	3	63		6	4.5		
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/	8) Brazed	15.88 (5/	8) Brazed	15.88 (5/	8) Brazed		
diameter	Gas pipe	mm (in.)	28.58 (1-1	/8) Brazed	28.58 (1-1	<li>/8) Brazed</li>	28.58 (1-1	/8) Brazed		
Set Model										
Model	1		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	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 m	echanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)		
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll he	metic compressor		
	Starting method	î.	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 galva	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets		
			(+powder coati	ng for -BS type)	(+powder coati	ing for -BS type)	(+powder coat	ing for -BS type)		
		T.	<munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>7 8/1 or similar&gt;</td><td><munsell 5<="" td=""><td>7 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell>	' 8/1 or similar>	<munsell 5y<="" td=""><td>7 8/1 or similar&gt;</td><td><munsell 5<="" td=""><td>7 8/1 or similar&gt;</td></munsell></td></munsell>	7 8/1 or similar>	<munsell 5<="" td=""><td>7 8/1 or similar&gt;</td></munsell>	7 8/1 or similar>		
External dimensio	n 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		
	r	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	High pressure pr	otection	High press	ure sensor,	High press	ure sensor,	High press	sure sensor,		
devices			High pressure switch	at 4.15 MPa (601 psi)	High pressure switch	at 4.15 MPa (601 psi)	High pressure switch	at 4.15 MPa (601 psi)		
	Inverter circuit		Over-heat	protection,	Over-heat	protection,	Over-heat	protection,		
	(COMP./FAN)		Over-currer	nt protection	Over-currer	nt protection	Over-curre	nt protection		
Refrigerant	Type x original c	harge	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)	R410A x 6.5 kg (15 lbs)	R410A x 11.5 kg (26 lbs)		
Net weight		kg (lbs)	183 (404)	201 (444)	183 (404)	237 (523)	183 (404)	237 (523)		
Heat exchanger	1	T	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube		
Pipe between unit	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		
and distributor	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 k	kit: CMY-Y100VBK3	Outdoor Twinning I	kit: CMY-Y100VBK3	Outdoor Twinning	kit: CMY-Y100VBK3		
			Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,		
			CMY-Y2	202/302S-G2	CMY-Y	202/302S-G2	CMY-Y202/302S-G2			
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y104/108/1010-G			

#### Notes:

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

	Indoor Outdoor Pi		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.)



### ► Specifications

Model		PUCY-P700	YSKA (-BS)	PUCY-P750	YSKA (-BS)	PUCY-P800	YSKA (-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	*1	kW	76	6.0	81	.5	88	3.0
(Nominal)		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	Α	37.9-36	6.0-34.7	41.3-39	9.2-37.8	42.9-40	).7-39.3
	EER	kW / kW	3.	38	3.	33	3.4	46
Temp. range of	Indoor	W.B.	15.0~24.0°0	C (59~75°F)	15.0~24.0°	C (59~75°F)	15.0~24.0°0	C (59~75°F)
cooling	Outdoor	D.B.	10.0~52.0°C	; (50~126°F)	10.0~52.0°C	(50~126°F)	10.0~52.0°C	C (50~126°F)
Indoor unit	Total capacity		50~130% of outo	loor unit capacity	50~130% of outo	loor unit capacity	50~130% of outo	loor unit capacity
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	00/1~50	P15~P5	00/1~50
Sound pressure lev (measured in anec	vel hoic room)	dB <a></a>	64	4.5	65	5.5	6	6
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/-	4) Brazed	19.05 (3/-	4) Brazed	19.05 (3/-	4) Brazed
diameter	Gas pipe	mm (in.)	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed	34.93 (1-3	/8) Brazed
Set Model								
Model			PUCY-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				
	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 me	chanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1				
*2	External static pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH2O)				
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	12.4	8.1	12.4	10.8	10.8
<b>E</b> 1 <b>E</b> 1 <b>E</b>	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sneets	Pre-coated galva	nized steel sneets
			(+powder coatil	ng for -BS type)	(+powder coatil	ng for -BS type)	(+powder coatil	ng for -BS type)
External dimension			1 650 x 020 x 740	0/1 01 SIIIIIdi ~	1 650 x 020 x 740	0/1 01 SIIIIIdi ~	NIUNSELL 31 1 650 x 1 220 x 740	0/1 01 SIIIIIdi /
External uniterision		in	1,000 X 920 X 740	1,000 X 1,220 X 740	1,000 X 920 X 740	1,000 X 1,220 X 740	1,030 X 1,220 X 740	1,000 X 1,220 X 740
Protection	High prossure pr	ntection	UJ X 30= 1/4 X 29=3/10	03 X 40-1/10 X 23-3/10	U3 X 30-1/4 X 29-3/10	UTO 000000	Uich proce	103 x 40-1/10 x 23-3/10
devices	riigii picaauc pi	olection	High pressure switch	at 4 15 MPa (601 nsi)	High pressure switch	at 4 15 MPa (601 nsi)	High pressure switch	at 4 15 MPa (601 nei)
4011000	Inverter circuit		Over-heat	protection	Over-heat	protection	Over-heat	protection
	(COMP./FAN)		Over-currer	nt protection	Over-curre	nt protection	Over-currer	nt protection
Refrigerant	Type x original ch	narge	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)	R410A x 11.5 kg (26 lbs)
Net weight	,, 0	kg (lbs)	183 (404)	237 (523)	201 (444)	237 (523)	237 (523)	237 (523)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube
Pipe between unit	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
and distributor	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 k	it: CMY-Y200VBK2	Outdoor Twinning k	tit: CMY-Y200VBK2	Outdoor Twinning k	kit: CMY-Y200VBK2
			Joint: CMY-Y1	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y1	102SS/LS-G2,
			CMY-Y2	202/302S-G2	CMY-Y2	202/302S-G2	CMY-Y2	202/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

#### Notes:

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

	Indoor Outdoor Pipe length		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.)



### ► Specifications



Model		PUCY-P850	YSKA (-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	*1	kW	92	2.0	90	6.0	
(Nominal)		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	5.4-43.8	53.1-50	).4-48.6	
	EER	kW / kW	3.	24	3.	05	
Temp. range of	Indoor	W.B.	15.0~24.0°0	C (59~75°F)	15.0~24.0°	C (59~75°F)	
cooling	Outdoor	D.B.	10.0~52.0°C	C (50~126°F)	10.0~52.0°C	C (50~126°F)	
Indoor unit	Total capacity		50~130% of outo	loor unit capacity	50~130% of out	door unit capacity	
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	500/1~50	
Sound pressure le	vel choic room)	dB <a></a>	6	6	e	6	
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	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	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 me	chanism	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*2	External static pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.8	12.4	12.4	12.4	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galva	nized steel sheets	Pre-coated galvanized steel sheets		
			(+powder coati	ing for -BS type)	(+powder coating for -BS type)		
			<munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>( 8/1 or similar&gt;</td></munsell></td></munsell>	/ 8/1 or similar>	<munsell 51<="" td=""><td>( 8/1 or similar&gt;</td></munsell>	( 8/1 or similar>	
External dimension	n 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	High pressure pr	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 ps		
devices	Inverter circuit		Over-heat protection,	Over-heat protection,	Over-heat protection,	Over-heat protection,	
	(COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	Over-current protection	
Refrigerant	Type x original ch	narge	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	1		Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s 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	
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	
Optional parts			Outdoor Twinning k Joint: CMY-Y102SS/LS- Header: CMY-Y	kit: CMY-Y200VBK2 G2, CMY-Y202/302S-G2 104/108/1010-G	Outdoor Twinning I Joint: CMY-Y102SS/LS- Header: CMY-Y	kit: CMY-Y200VBK2 G2, CMY-Y202/302S-G2 104/108/1010-G	

Notes:

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	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.)

### ► 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	*1	kW	10-	4.0	11	2.0	
(Nominal)		kcal/h	89,	400	96,300		
	*1	BTU / h	354	,800	382	2,100	
	Power input	kW	35.13		38	3.88	
	Current input	Α	59.3-56	6.3-54.3	65.6-6	2.3-60.1	
	EER	kW / kW	2.	96	2	.88	
Temp. range of	Indoor	W.B.	15.0~24.0°0	15.0~24.0°C (59~75°F)		C (59~75°F)	
cooling	Outdoor	D.B.	10.0~52.0°C	C (50~126°F)	10.0~52.0°0	C (50~126°F)	
Indoor unit	Total capacity		50~130% of outo	loor unit capacity	50~130% of out	door unit capacity	
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	500/1~50	
Sound pressure le (measured in ane	evel choic room)	dB <a></a>	67	7.5	6	68	
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4	4) Brazed	19.05 (3)	(4) Brazed	
diameter	Gas pipe	mm (in.)	41.28 (1-5	(8) Brazed	41.28 (1-5	5/8) Brazed	
Set Model			, , , , , , , , , , , , , , , , , , ,				
Model			PUCY-P450YKA (-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	
	Air flow rate	m³/min	175	320	320	320	
		L/s	2,917	5,333	5,333	5,333	
		cfm	6,179	11,299	11,299	11,299	
	Control, Driving me	chanism	Inverter-control, Direct-driven by motor		Inverter-control, Di	rect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	
*2	External static pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	12.4	14.3	14.3	14.3	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	
			(+powder coati	ing for -BS type)	(+powder coating for -BS type)		
			<munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>	/ 8/1 or similar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n 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	
		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	
Protection	High pressure pre	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High pres	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, 0	Over-current protection	Over-heat protection,	Over-current protection	
Refrigerant	Type x original ch	narge	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)	
Net weight		kg (lbs)	237 (523)	305 (673)	305 (673)	305 (673)	
Heat exchanger			Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s 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	
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	
Optional parts			Outdoor Twinning k Joint: CMY-Y102SS/LS- Header: CMY-Y	kit: CMY-Y200VBK2 G2, CMY-Y202/302S-G2 104/108/1010-G	Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SXLS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

	Indoor Outdoor Pipe length		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.)



### ► Specifications

Model		P	UCY-P1050YSKA (-BS	5)	P	UCY-P1100YSKA (-B	S)	
Power source			3-phase 4-wire 380-400-415V 50/60Hz		3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity	*1	kW	115.0		121.5			
(Nominal)		kcal/h	98,900		104,500			
*1		BTU / h		392,400			414,600	
	Power input	kW		33.39			35.21	
	Current input	Α		56.3-53.5-51.6			59.4-56.4-54.4	
	EER	kW / kW		3.44			3.45	
Temp. range of	Indoor	W.B.	1	15.0~24.0°C (59~75°F)	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	1	0.0~52.0°C (50~126°F	·)	1	0.0~52.0°C (50~126°F	F)
Indoor unit	Total capacity		50~13	30% of outdoor unit cap	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50	
Sound pressure le (measured in aneo	vel choic room)	dB <a></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 me	chanism	Inverter-	control, Direct-driven b	by motor	Inverter	-control, Direct-driven I	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		Inverte	r scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor
	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 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>				
External dimension	n 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	High pressure pro	otection	High pressure sensor,	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	t protection
Refrigerant	Type x original ch	narge	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)		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-res	sistant cross fin & copp	er tube	Salt-re	sistant cross fin & copp	per 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 Joint: CMY-Y Head	Twinning kit: CMY-Y30 102SS/LS-G2, CMY-Y2 ler: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G	Outdoo Joint: CMY-Y Hea	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G

#### Notes:

Nominal cooling conditions	(subject to JIS B8615-2)
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	Indoor Outdoor Pipe length		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.)



### ► 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	*1	kW	128.0		132.0				
(Nominal) kcal/h			110,100			113,500			
l'	*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		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	1	10.0~52.0°C (50~126°F)		1	0.0~52.0°C (50~126°F	F)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50		
Sound pressure le (measured in ane	evel choic room)	dB <a></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-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 me	chanism	Inverter-control, Direct-driven by motor			Inverter	-control, Direct-driven I	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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Туре		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-co	Pre-coated galvanized steel sheets			Pre-coated galvanized steel sheets		
			(+p <m< td=""><td>owder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>type) ilar&gt;</td><td colspan="3">(+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></m<>	owder coating for -BS t UNSELL 5Y 8/1 or simi	type) ilar>	(+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimensio	n 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	High pressure pre	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-curren	t protection	Over-heat	protection, Over-currer	t protection	
Refrigerant	Type x original ch	narge	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-re:	sistant cross fin & copp	per tube	Salt-re	sistant cross fin & copp	per tube	
Pipe between unit	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	
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 Joint: CMY-Y Head	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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Nominal cooling	conditions (s	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.)





### ► Specifications

Model		Р	UCY-P1250YSKA (-B	S)	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	*1	kW	136.0		140.0			
(Nominal)		kcal/h		117,000			120,400	
, ,	*1	BTU / h		464,000			477,700	
	Power input	kW		41.27			44.82	
	Current input	Α		69.6-66.1-63.7			75.6-71.8-69.2	
	EER	kW / kW		3.29			3.12	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	1	10.0~52.0°C (50~126°F)			0.0~52.0°C (50~126°F	=)
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/2~50	4. <b>A</b>		P15~P500/2~50	
Sound pressure le (measured in ane	evel choic room)	dB <a></a>		68			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-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 me	echanism	Inverter-control, Direct-driven by motor			Inverter	-control, Direct-driven I	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 pr	ess.	0 Pa (0 mmH2O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		Inverter-control, Direct-driven by motor		Invert	er scroll hermetic comp	pressor	
	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-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets		
			(+p	owder coating for -BS	type)	(+p	owder coating for -BS	type)
			<mi< td=""><td>JNSELL 5Y 8/1 or sim</td><td>llar&gt;</td><td>M&gt;</td><td>UNSELL 5Y 8/1 or sim</td><td>ilar&gt;</td></mi<>	JNSELL 5Y 8/1 or sim	llar>	M>	UNSELL 5Y 8/1 or sim	ilar>
External dimensio	n 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
Destastian	L Pada and a second and	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	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)
Defrigerent	Three y eriginal ch	WP./FAN)	D410A x 11 5 kg (26 lbs)	Dato v at 5 kg (20 lbs)	D 440 A v 44 E kg (26 lbg)	D4104 x 41 5 kg (26 lbs)	Dato A v 11 5 kg (26 lbs)	D440A x 41 5 kg (26 lbg)
Netwoight	Type x original cr	large	227 (522)	227 (E22)	227 (522)	227 (522)	227 (522)	227 (522)
Net weight	-	kg (ibs)	237 (323)	237 (523)	237 (323)	237 (523) Solt ro	237 (523)	237 (523)
Dipo botwoon unit	Liquid pipo	mm (in )	15 99 (E/9) Brozod	15 99 (5/9) Brozod	15 99 (5/9) Brozod	15 99 (5/9) Prozod	15 99 (5/9) Brozod	15 99 (5/9) Brozod
and distributor		(iii.)	13.00 (3/0) BidZeu	29 59 (1 1/9) Brazed	29 59 (1 1/9) Brazed	29 E9 (1 1/9) Brazed	29 59 (1 1/9) Brazed	29 59 (1 1/9) Brazed
Ontional parts	Gas pipe	[11011 (01.)	20.30 (1-1/0) DIAZEU	Twipping kit: CMV V2	20.30 (1-1/0) DIAZEU	20.00 (1-1/0) Diazed	Twinning kit: CMV V2	00//01/20
			loint: CMV V		202/2028 C2	loint: CMV V	1 1WITHING KIL UNIY-Y3	00VDRJ
			JUIII. UNIT-T	10203/L3-02, 0111-1 her: CMY-Y104/108/10	202/3023-02 10-G	JUIIIL CIVIT-T	10203/L3-02, 0111-1 der: CMY-Y104/108/10	202/3023-02 10-G
L			l lead	101. 0101-1104/100/10	10-0	i iea	uci. Civit-1104/100/10	10-0

Notes:

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Nominal cooling conditions	(subject to JIS B8615-2)
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	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.)



### ► 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	*1	kW	144.0		152.0			
(Nominal)		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	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	1	0.0~52.0°C (50~126°F		1	0.0~52.0°C (50~126°F	)
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50	
Sound pressure le	evel	dB <a></a>		68			68.5	
Refrigerant nining		mm (in )		10.05 (3/4) Brazed			10.05 (3/4) Brazed	
diameter	Gas nine	mm (in.)		41 28 (1-5/8) Brazed			41 28 (1-5/8) Brazed	
Set Model	Cas pipe	[11111] (111.)	1	41.20 (1-5/0) Diazed			41.20 (1-5/0) Diazed	
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	m <sup>3</sup> /min	175	175	175	175	175	320
		1/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 me	chanism	Inverter-control Direct-driven by motor			Inverter	-control Direct-driven	ny 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 pr	000	0 Pa (0 mmH O)	0 Pa (0 mmH O)	0 Pa (0 mmH (0)	0 Pa (0 mmH (0)	0 Pa (0 mmH (0)	0 Pa (0 mmH (0)
Compressor	Type	033.		$1 \text{ or a (o minin_2 \text{ or })}$			ar scroll bermetic com	
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	F/V/	12.4	12.4	12.4	12.4	12.4	14.3
	Case heater	k\//	12.7	-	12.7	12.4	12.7	-
External finish	Case neater	NVV	- Pro. cc		shoots -	Pre_cr		shoots
External million			(+nowder coating for BS type)			(+powder costing for BS type)		
			<mi< td=""><td>INSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td>(*P <m< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar&gt;</td></m<></td></mi<>	INSELL 5Y 8/1 or simi	ilar>	(*P <m< td=""><td>UNSELL 5Y 8/1 or sim</td><td>ilar&gt;</td></m<>	UNSELL 5Y 8/1 or sim	ilar>
External dimensio	n 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	High pressure pr	otection	High pressure sensor	High pressure switch	at 4 15 MPa (601 psi)	High pressure sensor	High pressure switch	at 4 15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat r	protection. Over-currer	t protection	Over-heat	protection. Over-currer	t protection
Refrigerant	Type x original ch	narge	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	1.)p=g	ka (lbs)	237 (523)	237 (523)	237 (523)	237 (523)	237 (523)	305 (673)
Heat exchanger		Salt-res	sistant cross fin & copr	per tube	Salt-re	sistant cross fin & copr	per 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		<u> </u>	Outdoor Joint: CMY-Y Head	<sup>-</sup> Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G	Outdoo Joint: CMY-Y Hea	r Twinning kit: CMY-Y3 '102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G

Notes:

\*1

	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.)



#### ► 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	*1	kW		160.0		168.0		
(Nominal)		kcal/h		137,600		144,500		
	*1	BTU / h		545,900			573,200	
	Power input	kW		56.53			60.64	
	Current input	Α		95.4-90.6-87.3			102.3-97.2-93.7	
	EER	kW / kW		2.83			2.77	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	1	10.0~52.0°C (50~126°F)		1	0.0~52.0°C (50~126°F	-)
Indoor unit	Total capacity	9	50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50	
Sound pressure le (measured in anec	vel choic room)	dB <a></a>		69.5			70	
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	p.p.							
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	m <sup>3</sup> /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 me	chanism	Inverter-	control. Direct-driven b	ov motor	Inverter	-control. Direct-driven	ov 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 pre	255	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Type		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comr	ressor
Comprocess	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		<u></u>	Pre-coated galvanized steel sheets (+powder coating for -BS type)		Pre-coated galvanized steel sheets (+powder coating for -BS type)			
External dimension HxW/xD		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 20-3/16	65 x 68-15/16 x 20-3/16	65 x 68-15/16 x 20-3/16	65 x 68-15/16 x 20-3/16	65 x 68-15/16 x 20-3/16	65 x 68-15/16 x 20-3/16
Protection	High pressure pro	ntection	High pressure sensor	High pressure switch	at 4 15 MPa (601 nsi)	High pressure sensor	High pressure switch	at 4 15 MPa (601 nsi)
devices	Inverter circuit (CO	MP/FAN)	Over-heat r	rotection Over-curren	t protection	Over-heat	protection Over-currer	at 4.15 kin a (001 p3)
Refrigerant	Type x original ch	arge	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	Type x enginer er	ka (lbs)	237 (523)	305 (673)	305 (673)	305 (673)	305 (673)	305 (673)
Heat exchanger			Salt-res	sistant cross fin & conn	er tube	Salt-re	sistant cross fin & copr	per 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 nine	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 Joint: CMY-Y Head	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y3 ler: CMY-Y104/108/10	2007 2000 (1996) 2022 2007 2023 2027 2025 - G2 10 - G	Outdoor Joint: CMY-Y Head	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G

Notes:

Nominal cooling conditions (subje	ect to JIS B8615-2)
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	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.)





### 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	*1	kW	44.8 50.4		56.0			
(Nominal) kc		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		Α	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	
Temp. range of	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)	
cooling	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	oor unit Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
connectable	table Model / Quantity		P15~P500/1~34		P15~P500/1~39		P15~P500/1~43	
Sound pressure level dB </td <td>dB <a></a></td> <td colspan="2">60</td> <td colspan="2">60.5</td> <td colspan="2">61</td>		dB <a></a>	60		60.5		61	
(measured in anechoic room)		<b>ub</b> 71						
Refrigerant piping	ant piping Liquid pipe mm (in.)		12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
diameter	Gas pipe	mm (in.)	28.58 (1-1	/8) Brazed	28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed		/8) Brazed	
Set Model								
Model	Turne of Organitity		PUCY-P200YKA (-BS)	PUCT-P2001KA (-BS)	PUCT-P2001KA (-BS)	PUCT-P250TKA (-BS)	PUCT-P250TKA (-BS)	PUCY-P250YKA (-BS)
FAN	Type x Quantity	ma3/main	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 now rate		1/5	1/5	1/5	1/5	1/5	1/5
		L/S	2,917	2,917	2,917	2,917	2,917	2,917
	Control Driving mechanism		0,179	ect driven by motor	0,179	0,179	0,179	rect driven by motor
	Motor output							
*2	External static pr	855	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Type		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	5.5	6.9	6.9	6.9
	Case heater	kW	-	-	-	-	-	-
External finish		Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets		
		(+powder coating for -BS type)		(+powder coating for -BS type)		(+powder coating for -BS type)		
			<munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell>	8/1 or similar>	<munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell>	/ 8/1 or similar>
External dimensio	n 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	1,650 x 920 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16
Protection	High pressure protection		High pressure sensor,		High pressure sensor,		High pressure sensor,	
devices			High pressure switch at 4.15 MPa (601 psi)		High pressure switch at 4.15 MPa (601 psi)		High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection,		Over-heat protection,		Over-heat protection,	
			Over-current protection		Over-current protection		Over-current protection	
Refrigerant	Type x original cl	narge	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 cros	s fin & copper tube	Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s 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	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	22.2 (7/8) Brazed
Optional parts		Outdoor Twinning kit: CMY-Y100VBK3		Outdoor Twinning kit: CMY-Y100VBK3		Outdoor Twinning kit: CMY-Y100VBK3		
		Joint: CMY-Y102SS/LS-G2,		Joint: CMY-Y102SS/LS-G2,		Joint: CMY-Y102SS/LS-G2,		
		CMY-Y202S-G2		GMY-Y202S-G2 Header: CMX X104/108/1010 C		GMY-Y202S-G2		
L				100/1010-0		100/1010-0		100/1010-0

#### 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.)	






### ► Specifications

Model	lodel		PUCY-EP65	0YSKA (-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	*1	kW	73	3.5	8	0.0	
(Nominal)		kcal/h	63,	200	68,800		
	*1	BTU / h	250	,800	273	3,000	
	Power input	kW	19	.74	21	.56	
	Current input	Α	33.3-31	.6-30.5	36.3-3	4.5-33.3	
	EER	kW / kW	3.	72	3.	.71	
Temp. range of	Indoor	W.B.	15.0~24.0°0	C (59~75°F)	15.0~24.0°	C (59~75°F)	
cooling	Outdoor	D.B.	10.0~52.0°C	(50~126°F)	10.0~52.0°C	C (50~126°F)	
Indoor unit	Total capacity		50~130% of outo	loor unit capacity	50~130% of out	door unit capacity	
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	500/1~50	
Sound pressure le (measured in ane	evel choic room)	dB <a></a>	6	4	e	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	3/8) Brazed	
Set Model			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
Model			PUCY-P300YKA (-BS)	PUCY-P350YKA (-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	
	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 me	echanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Di	rect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*2	External static pr	ess.	0 Pa (0 mmH <sub>2</sub> O) 0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	10.4	10.4	10.4	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>		Pre-coated galva (+powder coati <munsell 5)<="" td=""><td>nized steel sheets ing for -BS type) Y 8/1 or similar&gt;</td></munsell>	nized steel sheets ing for -BS type) Y 8/1 or similar>	
External dimensio	n HxWxD	mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	High pressure pr	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High pres	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, (	Over-current protection	Over-heat protection,	Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 6.5 kg (15 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)	201 (444)	237 (523)	237 (523)	237 (523)	
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s 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	
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning k Joint: CMY-Y102SS/LS- Header: CMY-Y	kit: CMY-Y100VBK3 G2, CMY-Y202/302S-G2 104/108/1010-G	Outdoor Twinning Joint: CMY-Y102SS/LS- Header: CMY-Y	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 (s	subject to JIS B8615-2)
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	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 / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Due to continuing improvement, above specification may be subject to change without notice.

### ► Specifications



Madal			B		C)	P	LICY EDODAVSKA / D	C)	
Rower course			2 phood	4 wire 290 400 415V	50/6011-7	3 pbase 4 wire 380 400 415V 50/60Hz			
Power source	*4	LAA/	3-priase 4-wile 360-400-413V 50/00H2			3-phase	00.4		
(Neminal)	1	KVV kool/b		04.0		90.4			
(Nominal)	*1	KCal/II		72,900			77,700		
	Dewerinnut	вто/п		209,300			306,400		
	Power Input	KVV		21.00			20.00		
		A		30.0-33.0-33.7			39.3-37.4-30.0		
Town and of	EER	KVV / KVV		3.88	<u>``</u>		3.87	<u>\</u>	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	<u>)</u>		15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	50.4	0.0~52.0°C (50~126°F	-)	50.4	0.0~52.0°C (50~126°)	-)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Iviodel / Quantity	r		P15~P500/1~50			P15~P500/1~50		
Sound pressure le	evel	dB <a></a>		64			64		
(measured in aned	choic room)	(in )		40.05 (0(4) Dansad			40.05 (0(4) Deces		
Refrigerant piping	Liquid pipe	mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed		
diameter	Gas pipe	mm (in.)		34.93 (1-3/8) Brazed			34.93 (1-3/8) Brazed		
Set Model									
Model	Turse (Oursetite)		PUCY-P200YKA (-BS)	PUCT-P200TKA (-BS)	PUCT-P350TKA (-B5)	PUCY-P200YKA (-BS)	PUCT-P250TKA (-BS)	PUCT-P350TKA (-B5)	
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	1/5	1/5	1/5	1/5	1/5	1/5	
		L/S	2,917	2,917	2,917	2,917	2,917	2,917	
	0.1.1.0.1	cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving me	echanism	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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter-control, Direct-driven by motor		Inverter	-control, Direct-driven	by motor		
	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-co	bated galvanized steel	sheets	Pre-coated galvanized steel sheets			
			(+p	owder coating for -BS	type)	(+powder coating for -BS type)			
			<mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mi<>	UNSELL 5Y 8/1 or simi	ilar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimensio	n 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	High pressure pr	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CC	MP./FAN)	Over-heat	protection, Over-currer	t protection	Over-heat	protection, Over-currer	t protection	
Refrigerant	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-re:	sistant cross fin & copp	per tube	Salt-re:	sistant cross fin & copp	per 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-Y3	00VBK3	Outdoo	Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
1			I Head	1er: UMY-Y104/108/10	10-0-	I Hea	1er: UMY-Y104/108/10	10-0-	

Notes:

*1	Nominal	cooling	conditions	(subject	to II	S B8615-2)
	NOTITIA	cooling	CONTIGUITORIS	(Subjeci	L LU JI	3 00010-2)

	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 / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Due to continuing improvement, above specification may be subject to change without notice.



#### ► Specifications Model



Model			P	UCY-EP850YSKA (-B	S)	P	UCY-EP900YSKA (-B	S)
Power source			3-phase 4-wire 380-400-415V 50/60Hz			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity	*1	kW	o pridoc	96.0	00/00/12	o pridoc	101 5	00/00/12
(Nominal)	Nominal) kcal/h			82 600		87 300		
(Norminar) Keal/II *1 BTLL/h			327 600			346 300		
	Power input	kW		24.80			26 71	
	Current input	Δ		41 8-39 7-38 3			45 0-42 8-41 2	
	FER	kW / kW		3.87			3.80	
Temp_range_of	Indoor	W B		15 0~24 0°C (59~75°E	ì		15 0~24 0°C (59~75°E	)
cooling	Outdoor	D B	1	0 0~52 0°C (50~126°F	)	1	0 0~52 0°C (50~126°F	/ =)
Indoor unit	Total canacity	0.0.	50~1	30% of outdoor unit ca	nacity	50~1	30% of outdoor unit ca	nacity
connectable	Model / Quantity		00 1	P15~P500/1~50	puolity	00 1	P15~P500/1~50	puolity
Sound pressure le				1 10 1 000/1 00			1 10 1 000/1 00	
(measured in ane	choic room)	dB <a></a>		64			65	
Refrigerant piping	Liquid pipe	mm (in )		19.05 (3/4) Brazed			19 05 (3/4) Brazed	
diameter	Gas nine	mm (in )		41 28 (1-5/8) Brazed			41 28 (1-5/8) Brazed	
Set Model	odo pipo	[/	1	11.20 (1 0.0) Bid200		1	11.20 (1 0/0) Bid200	
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 me	echanism	Inverter-control, Direct-driven by motor			Inverter	-control, Direct-driven I	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 pr	ress.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Type		Inverte	Inverter scroll hermetic compressor			er scroll hermetic comp	pressor
	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-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets		
			(+pc	owder coating for -BS t	ype)	(+powder coating for -BS type)		
			<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mi<>	JNSELL 5Y 8/1 or simi	ilar>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>		
External dimensio	n 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	High pressure pr	otection	High pressure sensor	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)
devices	Inverter circuit (CC	MP./FAN)	Over-heat	protection, Over-currer	t protection	Over-heat	protection, Over-currer	t protection
Refrigerant	Type x original c	harge	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-res	sistant cross fin & copp	ber tube	Salt-res	sistant cross fin & copp	er 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-Y3	00VBK3	Outdoor	Twinning kit: CMY-Y3	00VBK3
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-G

Notes:

\*1

	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 /  $3.1mmH_2O$ ,  $6.1mmH_2O$ ). \*Due to continuing improvement, above specification may be subject to change without notice.



### ► 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	*1	kW		107.0			113.5		
(Nominal)		kcal/h		92,000			97,600		
	*1	BTU / h		365,100			387,300		
	Power input	kW		28.68			30.51		
	Current input	Α		48.4-45.9-44.3			51.5-48.9-47.1		
	EER	kW / kW		3.73			3.72		
Temp. range of	Indoor	W.B.	-	15.0~24.0°C (59~75°F)	)		15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	1	0.0~52.0°C (50~126°F	F)	1	0.0~52.0°C (50~126°F	-)	
Indoor unit	Total capacity		50~13	30% of outdoor unit cap	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/1~50			P15~P500/1~50		
Sound pressure le	vel	dB <a></a>		66			66		
(measured in ane	choic room)			00			00		
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	i		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 me	chanism	Inverter-control, Direct-driven by motor			Inverter	-control, Direct-driven I	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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverte	Inverter scroll hermetic compressor			er scroll hermetic comp	pressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	8.1	10.4	8.1	10.4	10.4	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-co	ated galvanized steel	sheets	Pre-co	bated galvanized steel	sheets	
			(+pc	owder coating for -BS t	ype)	(+p	owder coating for -BS	type)	
			<ml< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td><td><m></m></td><td>UNSELL 5Y 8/1 or sim</td><td>ilar&gt;</td></ml<>	JNSELL 5Y 8/1 or simi	lar>	<m></m>	UNSELL 5Y 8/1 or sim	ilar>	
External dimensio	n 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	
	I	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	High pressure pr	otection	High pressure sensor,	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	; High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	nt protection	
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	per 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	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	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoo	r Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
			Head	ier: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	10-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 / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Due to continuing improvement, above specification may be subject to change without notice.



### ► Specifications

Model



DUCY ED1100VSKA ( BS)

mouor					,0,			,0,	
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	*1	kW	120.0				124.0		
(Nominal)	(Nominal) kcal/h			103,200			106,600		
. ,	*1	BTU / h	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		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F			15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	1	0.0~52.0°C (50~126°F	É)		0.0~52.0°C (50~126°F	÷)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50		
Sound pressure le	vel			66			67		
(measured in aneo	choic room)	UB <a></a>		00			07		
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-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 me	echanism	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter scroll hermetic compressor			Invert	er scroll hermetic comp	pressor	
	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-co	ated galvanized steel	sheets	Pre-co	bated galvanized steel	sheets	
			(+p	owder coating for -BS	type)	(+p	owder coating for -BS	type)	
			<mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td><m></m></td><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td></mi<>	UNSELL 5Y 8/1 or simi	ilar>	<m></m>	UNSELL 5Y 8/1 or simi	ilar>	
External dimension	n 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	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-currer	nt protection	Over-heat	protection, Over-currer	nt protection	
Refrigerant	Type x original ch	narge	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-re:	sistant cross fin & copp	per tube	Salt-re	sistant cross fin & copp	per 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-Y3	00VBK3	Outdoo	r Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
			Head	der: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	10-G	

PUCY-EP1050YSKA (-BS)

Notes:

\*1

	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 /  $3.1mmH_2O$ ,  $6.1mmH_2O$ ). \*Due to continuing improvement, above specification may be subject to change without notice.

### ► Specifications



Model			PUCY-SEP30	0YSKA (-BS)	PUCY-SEP35	0YSKA (-BS)	PUCY-SEP40	0YSKA (-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	*1	kW	32	2.0	38	.4	44	.0
(Nominal)		kcal / h	27,	500	33,0	000	37,	300
	*1	BTU / h	109	,200	131,	000	150,	100
	Power input	kW	6.	79	8.9	93	10.	37
	Current input	Α	11.4-10	0.8-10.4	15.0-14	.3-13.8	17.5-16	.6-16.0
	EER	kW / kW	4.	71	4.3	30	4.:	24
Temp. range of	Indoor	W.B.	15.0~24.0°0	C (59~75°F)	15.0~24.0°C	C (59~75°F)	15.0~24.0°0	C (59~75°F)
cooling	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	Total capacity		50~130% of outo	loor unit capacity	50~130% of outd	oor unit capacity	50~130% of outo	oor unit capacity
connectable	Model / Quantity		P15~P2	50/1~26	P15~P4	00/1~30	P15~P5	00/1~34
Sound pressure le (measured in ane	evel choic room)	dB <a></a>	60	0.5	60	.5	6	1
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed farthest leng	(12.7 (1/2) Brazed, hth >= 40 m)	12.7 (1/2	) Brazed	12.7 (1/2	) Brazed
	Gas pipe	mm (in.)	22.2 (7/8	) Brazed	28.58 (1-1)	(8) Brazed	28.58 (1-1	/8) Brazed
Set Model								
Model			PUCY-P150YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P200YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P250YKA (-BS)

Wouer			FOCT-F1301KA (-03)	FOCT-F1301KA (-D3)	FUCT-F1301KA(-03)	FUCT-F2001KA (-03)	FOCT-F1301KA (-D3)	FUCT-F2301KA (-03)
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 me	chanism	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		MITSUBISHI ELEC	TRIC Inverter scroll	MITSUBISHI ELEC	TRIC Inverter scroll	MITSUBISHI ELEC	TRIC Inverter scroll
			hermetic c	ompressor	hermetic c	ompressor	hermetic c	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.2	4.2	4.2	5.5	4.2	6.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets Pre-coated galvanized steel sheets		Pre-coated galvanized steel sheets			
			(+powder coating for -BS type)		(+powder coating	ng for -BS type)	(+powder coati	ng for -BS type)
			<munsell 3.0y<="" td=""><td>7.8/11 or similar&gt;</td><td><munsell 3.0y<="" td=""><td>7.8/11 or similar&gt;</td><td><munsell 3.0y<="" td=""><td>7.8/11 or similar&gt;</td></munsell></td></munsell></td></munsell>	7.8/11 or similar>	<munsell 3.0y<="" td=""><td>7.8/11 or similar&gt;</td><td><munsell 3.0y<="" td=""><td>7.8/11 or similar&gt;</td></munsell></td></munsell>	7.8/11 or similar>	<munsell 3.0y<="" td=""><td>7.8/11 or similar&gt;</td></munsell>	7.8/11 or similar>
External dimensio	n H x W x D	mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16
Protection	High pressure pre	otection	High pressure sensor	High pressure switch	High pressure sensor,	High pressure switch	High pressure sensor	High pressure switch
devices			at 4.15 MP	a (601 psi)	at 4.15 MP	a (601 psi)	at 4.15 MF	a (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (	Over-current protection	Over-heat protection, (	Over-current protection	Over-heat protection,	Over-current protection
Refrigerant	Type x original ch	narge	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	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)
Net weight		kg (lbs)	174 (384)	174 (384)	174 (384)	174 (384)	174 (384)	183 (404)
Heat exchanger		Salt-resistant cross	s fin & copper tube	Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s 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	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	22.2 (7/8) Brazed
Optional parts			Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3
			Joint: CMY-Y	102SS/LS-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G

#### Notes:

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

	Indoor	Indoor Outdoor		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 / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Due to continuing improvement, above specification may be subject to change without notice.



### ► Specifications



Model			PL	JCY-SEP450YSKA (-E	IS)	PI	JCY-SEP500YSKA (-E	SS)
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	*1	kW	48.0			54.4		
(Nominal)		kcal / h		41.300			46.800	
È Í	*1	BTU / h	163.800				185,600	
	Power input	kW		10.19			12.27	
	Current input	A		17.2-16.3-15.7			20.7-19.6-18.9	
	EER	kW / kW		4.71			4.43	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	1	0.0~52.0°C (50~126°F		1	0.0~52.0°C (50~126°F	-)
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/1~39			P15~P500/1~43	
Sound pressure le	evel			60			60	
(measured in ane	choic room)	UB <a></a>		02			02	
Refrigerant piping	Liquid pipe	mm (in.)		15.88 (5/8) Brazed			15.88 (5/8) Brazed	
diameter	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed	
Set Model								
Model			PUCY-P150YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P150YKA (-BS)	PUCY-P200YKA (-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 me	chanism	Inverter-	control, Direct-driven I	py 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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		MITSUBISHI ELEC	TRIC Inverter scroll he	ermetic compressor	MITSUBISHI ELEC	TRIC Inverter scroll he	ermetic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.2	4.2	4.2	4.2	4.2	5.5
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-co	ated galvanized steel	sheets	Pre-coated galvanized steel sheets		
			(+pd	owder coating for -BS	type)	(+p	owder coating for -BS	type)
			<mun< td=""><td>SELL 3.0Y 7.8/11 or s</td><td>imilar&gt;</td><td><mun< td=""><td>ISELL 3.0Y 7.8/11 or s</td><td>imilar&gt;</td></mun<></td></mun<>	SELL 3.0Y 7.8/11 or s	imilar>	<mun< td=""><td>ISELL 3.0Y 7.8/11 or s</td><td>imilar&gt;</td></mun<>	ISELL 3.0Y 7.8/11 or s	imilar>
External dimensio	n H x W x D	mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16
Protection	High pressure pro	otection	High pressure sensor,	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-currer	t protection	Over-heat	protection, Over-currer	nt protection
Refrigerant	Type x original ch	narge	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)
Net weight		kg (lbs)	174 (384)	174 (384)	174 (384)	174 (384)	174 (384)	174 (384)
Heat exchanger		Salt-res	sistant cross fin & copp	per tube	Salt-re:	sistant cross fin & copp	per 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	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	22.2 (7/8) Brazed
Optional parts			Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoo	Twinning kit: CMY-Y3	00VBK3
			Joint: CMY	-Y102SS/LS-G2, CMY	-Y202S-G2	Joint: CMY	-Y102SS/LS-G2, CMY	-Y202S-G2
			Head	der: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	10-G

#### Notes:

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

	Indoor	Indoor Outdoor Pipe lengt		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 /  $3.1mmH_2O$ ,  $6.1mmH_2O$ ). \*Due to continuing improvement, above specification may be subject to change without notice.





Model			PL	JCY-SEP550YSKA (-B	S)	PL	JCY-SEP600YSKA (-E	SS)
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	*1	kW		60.8			66.4	
(Nominal)		kcal / h		52,300			57,100	
	*1	BTU / h		207,400			226,600	
	Power input	kW		14.50			15.96	
	Current input	A		24.4-23.2-22.4			26.9-25.5-24.6	
	EER	kW / kW		4.19			4.16	
Temp. range of	Indoor	W.B.	· ·	15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	1	0.0~52.0°C (50~126°F	-)	1	0.0~52.0°C (50~126°F	F)
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/1~47			P15~P500/1~50	
Sound pressure le	evel	dB <a></a>		62			62.5	
(measured in aneo	choic room)	00 70		<b>UE</b>			02:0	
Refrigerant piping	Liquid pipe	mm (in.)		15.88 (5/8) Brazed			15.88 (5/8) Brazed	-
diameter	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed	
Set Model								
Model	T and a Output it is		PUCY-P150YKA (-BS)	PUCT-P2001KA (-BS)	PUCT-P2001KA (-BS)	PUCY-P150YKA (-BS)	PUCY-P200YKA (-BS)	PUCT-P250TKA (-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 now rate	m²/min	1/5	1/5	1/5	1/5	1/5	1/5
		L/S	2,917	2,917	2,917	2,917	2,917	2,917
	Central Driving m	CIM	0,179	0,179	6,179	6,179	0,179	0,179
	Control, Driving me	chanism				Inverter		
*0		KVV	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 pr	ess.	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	Туре		MITSUBISHI ELEC	RIC Inverter scroll ne	ermetic compressor	MITSUBISHLELEC	TRIC Inverter scroll ne	ermetic compressor
	Starting method	1.14/	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		KVV	4.2	5.5	5.5	4.2	5.5	6.9
External finish	Case neater	KVV	- Dr	-	-	- Dra a		-
External linish			Pre-co	ated galvanized steel	sneets	Pre-co	bated galvanized steel	sneets
			(+pc		ype)	(+p	ISEL 2 OV 7 9/11 or o	iype)
External dimensio		mm	1 650 x 020 x 740	1 650 x 020 x 740	1 650 x 020 x 740	1 650 x 020 x 740	1 650 x 020 x 740	1 650 x 020 x 740
		in	1,030 x 920 x 740	1,000 X 920 X 740	1,000 X 920 X 740	1,000 X 920 X 740	65 x 36 1/4 x 20 3/16	1,030 x 920 x 740
Protection	High pressure pr	otection	High pressure sensor	High pressure switch	at 4 15 MPa (601 nsi)	High pressure sensor	High pressure switch	at 4 15 MPa (601 nsi)
devices	Inverter circuit (CO	MP/FAN)	Over-heat r	protection Over-curren	t protection	Over-heat	protection Over-currer	t protection
Refrigerant	Type x original ct	narge	R410A x 5.5 kg (13 lbs)	R410A x 5.5 kg (13 lbs)	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)
Net weight	1.)pe ege. e.	ka (lbs)	174 (384)	174 (384)	174 (384)	174 (384)	174 (384)	183 (404)
Heat exchanger			Salt-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er 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	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	22.2 (7/8) Brazed
Optional parts			Outdoor Joint: CMY-Y Head	Twinning kit: CMY-Y3 102SS/LS-G2,CMY-Y2 der: CMY-Y104/108/10	00VBK3 02S/302S-G2 10-G	Outdoo Joint: CMY-Y Hear	r Twinning kit: CMY-Y3 102SS/LS-G2,CMY-Y2 der: CMY-Y104/108/10	00VBK3 02S/302S-G2 10-G
						1 1100		

Notes:

*1	Nominal cooling	conditions	(subject to	JIS B8615-2)
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	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 / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Due to continuing improvement, above specification may be subject to change without notice.



### Specifications

Model			PUCY-SEP650YSKA (-BS)					
Power source				3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling capacity	*1	kW		72.0				
(Nominal)		kcal / h		61,900				
	*1	BTU / h		245,700				
	Power input	kW		17.39				
	Current input	Α		29.3-27.8-26.8				
	EER	kW / kW		4.14				
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)				
cooling	Outdoor	D.B.		10.0~52.0°C (50~126°F)				
Indoor unit	Total capacity			50~130% of outdoor unit capacity				
connectable	Model / Quantity			P15~P500/1~50				
Sound pressure le (measured in aneo	vel hoic room)	dB <a></a>		62.5				
Refrigerant piping	Liquid pipe	mm (in.)		15.88 (5/8) Brazed				
diameter	Gas pipe	mm (in.)		28.58 (1-1/8) Brazed				
Set Model			L	· · · · · · · · · · · · · · · · · · ·				
Model			PUCY-P150YKA (-BS)	PUCY-P250YKA (-BS)	PUCY-P250YKA (-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 me	chanism	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			
*2	External static pre	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)			
Compressor	Туре		MITSUI	BISHI ELECTRIC Inverter scroll hermetic com	pressor			
	Starting method		Inverter	Inverter	Inverter			
	Motor output	kW	4.2	6.9	6.9			
	Case heater	kW	_	-	_			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 11="" 3.0y="" 7.8="" or="" similar=""></munsell>					
External dimension	n H x W x D	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 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16			
Protection	High pressure pro	otection	High press	sure sensor, High pressure switch at 4.15 MP	a (601 psi)			
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection			
Refrigerant	Type x original ch	narge	R410A x 5.5 kg (13 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)			
Net weight		kg (lbs)	174 (384)	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	Liquid pipe	mm (in.)	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			
Optional parts			Jc	Outdoor Twinning kit: CMY-Y300VBK3 int: CMY-Y102SS/LS-G2,CMY-Y202S/302S-0 Header: CMY-Y104/108/1010-G	32			

#### 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 / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Due to continuing improvement, above specification may be subject to change without notice.

## OUTDOOR UNIT NEW S Series PUMY-P VKM2(-BS)





Model					PUMY-P112VKM2 (-BS)	PUMY-P125VKM2 (-BS)	PUMY-P140VKM2 (-BS)
Power source					1-phase 220-230-240V 50Hz/1-phase 220V 60Hz	1-phase 220-230-240V 50Hz/1-phase 220V 60Hz	1-phase 220-230-240V 50Hz/1-phase 220V 60Hz
Cooling capacity			*1	kW	12.5	14.0	15.5
(Nominal)			*1	BTU / h	42,700	47,800	52,900
	Power	r input		kW	2.79	3.46	4.52
	Curre	nt inpu	t	Α	12.87-12.32-11.80/12.87	15.97-15.27-14.64/15.97	20.86-19.95-19.12/20.86
	EER			kW / kW	4.48	4.05	3.43
Temp. range of	Indoo	r 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)
cooling	Outdo	or tem	p.*3	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			*2	kW	14.0	16.0	18.0
(Nominal)			*2	BTU / h	47,800	54,600	61,400
	Power	r input		kW	3.04	3.74	4.47
	Curre	nt inpu	t	A	14.03-13.42-12.86/14.03	17.26-16.51-15.82/17.26	20.63-19.73-18.91/20.63
	COP			kW / kW	4.61	4.28	4.03
Temp. range of	Indoo	r 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)
heating	Outdo	or tem	р.	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	Total of	capacit	y		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/	CITY	MUL	ГІ	P15-P140 / 9	P15-P140 / 10	P15-P140 / 12
	Quantity	Branc	h bo	(	kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22-71, Btu/h type: 09-30 / 8
		Mixed system	Brand box 1	CITY MULT	P15-P140 / 5	P15-P140 / 5	P15-P140 / 5
			unit	Branc	kW type: 22–71, Btu/h type: 09–30 / 5	kW type: 22–71, Btu/h type: 09–30 / 5	kW type: 22–71, Btu/h type: 09–30 / 5
			Brand box 2	ch CITY	P15-P140 / 2 or 3 (*4)	P15-P140 / 3	P15-P140 / 3
			units	Branc box	kW type: 22–71, Btu/h type: 09–30 / 7or8 (*4)	kW type: 22–71, Btu/h type: 09–30 / 8	kW type: 22–71, Btu/h type: 09–30 / 8
Sound pressure le (measured in ane	Sound pressure level (measured in anechoic room) dB <a></a>		49/51	50/52	51/53		
Refrigerant piping	Liquid	pipe		mm (in.	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
diameter	Gas p	ipe		mm (in.	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type 2	x Quan	itity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flo	w rate	ļ	m³/min	110	110	110
			ļ	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 3	x Quan	itity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Startir	ng metl	hod		Inverter	Inverter	Inverter
	Motor	output		kW	2.9	3.5	3.9
External finish					Galvanized Steel Sheet	Galvanized Steel Sheet	Galvanized Steel Sheet
			· · · · · ·		Munsell No. 3Y 7.8/1.1	Munsell No. 3Y 7.8/1.1	Munsell No. 3Y 7.8/1.1
External dimensio	n HxW	xD	-	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	High p	pressur	re pro	tection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverte	er circuit	t (COI	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Comp	ressor			Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan m	notor			Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type 2	x origin	al ch	arge	R410A 4.8kg	R410A 4.8kg	R410A 4.8kg
Net weight				kg (lbs)	122(269)	122(269)	122(269)
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 Branch box: PAC-MK31/51BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E Branch box: PAC-MK31/51BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E Branch box: PAC-MK31/51BC

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 10 to 46 °C D.B. (50 to 115 °F D.B.): in case of connecting PKFY-P15/P20/P25VBM, PFFY-P20/P25/P32VKM,

3 TU to 46 °C U.B. (50 to 115 °F U.B.): In case of connecting PKY YF15/P20/P26/SVBM, PFY YF20/P2
PFFY F20/P26/F32VLF2(F3)WL (E(R)M type indoor unit and M series indoor unit.
4 When 7 indoor units are connected via branch box, 3 CITY MULTI indoor units can be connected.
When 8 indoor units are connected via branch box, 2 CITY MULTI indoor units can be connected.
\*Nominal condition 11, 27 are subject to 150 15042.
\*Due to continuing improvement, above specification may be subject to change without notice.



## OUTDOOR UNIT NEW S Series PUMY-P YKM2(-BS)



### ► Specifications

Model				PUMY-P112YKM2 (-BS)	PUMY-P125YKM2 (-BS)	PUMY-P140YKM2 (-BS)
Power source				3-phase 380-400-415V 50Hz/380V 60Hz	3-phase 380-400-415V 50Hz/380V 60Hz	3-phase 380-400-415V 50Hz/380V 60Hz
Cooling capacity		*1	kW	12.5	14.0	15.5
(Nominal)		*1	BTU / h	42,700	47,800	52,900
	Power inp	out	kW	2.79	3.46	4.52
	Current in	nput	Α	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	Indoor ter	np.	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)
cooling	Outdoor t	emp.*3	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		*2	kW	14.0	16.0	18.0
(Nominal)		*2	BTU / h	47,800	54,600	61,400
	Power inp	out	kW	3.04	3.74	4.47
	Current in	nput	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	Indoor ter	np.	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)
heating	Outdoor t	emp.	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	Total capa	acity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/ CI	TY MUL	TI	P15-P140 / 9	P15-P140 / 10	P15-P140 / 12
	Quantity Bra	anch bo	x	kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22-71, Btu/h type: 09-30 / 8
	Mix sys	ed Bran tem box	1 CITY	P15-P140 / 5	P15-P140 / 5	P15-P140 / 5
		unit	Branch box	kW type: 22–71, Btu/h type: 09–30 / 5	kW type: 22–71, Btu/h type: 09–30 / 5	kW type: 22–71, Btu/h type: 09–30 / 5
		Bran box 2	ch CITY 2 MULTI	P15-P140 / 2 or 3 (*4)	P15-P140 / 3	P15-P140 / 3
		units	Branch box	kW type: 22–71, Btu/h type: 09–30 / 7or8 (*4)	kW type: 22–71, Btu/h type: 09–30 / 8	kW type: 22–71, Btu/h type: 09–30 / 8
Sound pressure le (measured in anec	evel choic room	)	dB <a></a>	49/51	50/52	51/53
Refrigerant piping	Liquid pip	e	mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
diameter	Gas pipe		mm (in.)	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare
FAN	Type x Qu	Jantity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flow ra	ate	m <sup>3</sup> /min	110	110	110
			L/s	1,833	1,833	1,833
			cfm	3,884	3,884	3,884
	Motor out	put	kW	0.06 + 0.06	0.06 + 0.06	0.06 + 0.06
Compressor	Type x Qu	uantity		Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Starting n	nethod		Inverter	Inverter	Inverter
	Motor out	put	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 dimensio	n 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	High pres	sure pro	otection	High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverter cir	cuit (CO	MP./FAN)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Compress	sor		Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan moto	r		Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x ori	iginal ch	narge	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	1			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
1				DIALICITIDUX, PAG-IVING 1/31BG	DIALICITIDUX, PAG-IVING 1/31BG	DIALICITIDUX, PAG-IVING 1/3 IBG

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 10 to 46 °C D.B. (50 to 115 °F D.B.): in case of connecting PKFY-P15/P20/P25VBM, PFFY-P20/P25/P32VKM,

PFFY-P20/P25/P32VLE(R)M type indoor unit and M series indoor unit. \*4 When 7 indoor units are connected via branch box, 3 CITY MULTI indoor units can be connected.

When 8 indoor units are connected via branch box, 2 CITY MULTI indoor units can be connected. \*Nominal condition \*1,\*2 are subject to ISO 15042. \*Due to continuing improvement, above specification may be subject to change without notice.

## OUTDOOR UNIT NEW S Series PUMY-P YKM1(-BS)





Model			PUMY-P175YKM1(-BS)	PUMY-P200YKM1(-BS)	PUMY-P225YKM1(-BS)			
Power source						3-phase 380-415V 50Hz / 380V 60Hz	3-phase 380-415V 50Hz / 380V 60Hz	3-phase 380-415V 50Hz / 380V 60Hz
Cooling capacity			*1	kW		20.0	22.4	25.0
(Nominal)			*1	BTU /	h	68,200	76,400	85,300
	Powe	r input		kW		5.48	6.91	9.62
	Curre	nt inpu	t	Α		8.95-8.51-8.20/8.95	11.29-10.72-10.34/11.29	15.72-14.93-14.39/15.72
	EER			kW / k\	W	3.65	3.24	2.60
Temp. range of	Indoo	r 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)
cooling	Outdo	or tem	р.	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			*2	kW		22.4	25.0	27.3
(Nominal)			*2	BTU /	h	76,400	85,300	93,200
	Powe	r input		kW		5.73	6.96	7.65
	Curre	nt inpu	t	A		9.36-8.89-8.57/9.36	11.37-10.80-10.41/11.37	12.50-11.87-11.44/12.50
	COP			kW / k\	N	3.91	3.59	3.57
Temp. range of	Indoo	r 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)
heating *5	Outdo	or tem	р.	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	Total of	capacit	y			50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/	CITY	MULT	ГІ		P15-P224 / 12	P15-P250 / 12	P15-P250 / 12
	Quantity	Branc	h box	(		kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22-71, Btu/h type: 09-30 / 8
		Mixed system	Branc box 1	h CITY MUL	TI	P15-P224 / 5	P15-P250 / 5	P15-P250 / 5
			unit	Bran box	ch	kW type: 22-71, Btu/h type: 09-30 / 5	kW type: 22–71, Btu/h type: 09–30 / 5	kW type: 22–71, Btu/h type: 09–30 / 5
			Brand box 2	h CITY	/ .TI	P15-P224 / 3	P15-P250 / 5	P15-P250 / 5
			units	Bran box	ch	kW type: 22-71, Btu/h type: 09-30 / 8	kW type: 22–71, Btu/h type: 09–30 / 8	kW type: 22–71, Btu/h type: 09–30 / 8
Sound pressure le (measured in anec	vel choic ro	com)		dB <a< td=""><td>&gt;</td><td>56/61</td><td>56/61</td><td>58/63</td></a<>	>	56/61	56/61	58/63
Refrigerant piping	Liquid	l pipe		mm (in	1.)	9.52(3/8) Flare *3	9.52(3/8) Flare *3	9.52(3/8) Flare *3
diameter	Gas p	ipe		mm (in	1.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
FAN	Type :	x Quan	itity			Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2
	Air flo	w rate	Ļ	m³/mi	n	134	134	143.8
			Ļ	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 Quan	itity		_	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1	Scroll hermetic compressor x 1
	Startir	ng meti	hod		_	Inverter	Inverter	Inverter
	Motor	output	:	kW		4.7	5.4	6.0
External finish						Galvanized Steel Sheet	Galvanized Steel Sheet	Galvanized Steel Sheet
						Munsell No. 3Y 7.8/1.1	Munsell No. 3Y 7.8/1.1	Munsell No. 3Y 7.8/1.1
External dimension	n HxW	хD		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	High p	pressur	re pro	tection		High pressure Switch	High pressure Switch	High pressure Switch
devices	Inverte	er circuit	t (CON	/IP./FAN	1)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)	Overcurrent detection, Overheat detection (Heatsink thermistor)
	Comp	ressor				Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan m	notor				Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type :	x origin	al cha	arge		R410A 7.3kg	R410A 7.3kg	R410A 7.3kg
Net weight				kg (lbs	5)	138(305) *4	138(305) *4	138(305) *4
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					T	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
						Branch box: PAC-MK31/51BC	Branch box: PAC-MK31/51BC	Branch box: PAC-MK31/51BC

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 Liquid pipe diameter: 12.7mm in case of farther piping length is longer than 60m, or the farthest length of main pipe between outdoor unit and branch box is longer than 20m in branch box system.

\*4 139 (306) for PUMY-P175/P200/P25YKM1-BS
\*5 10 to 52°CD.B.: In case of connecting PKY-P15/P20/P25VBM, PFFY-P20/P25/P32VKM, PFFY-P20/P25/P32VLE(R)M type indoor unit and M series indoor unit.
\*Nominal condition \*1,\*2 are subject to ISO 15042.

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





### ► 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			
Cooling capacity	*1	kW	22.4	28.0	33.5	40.0
(Nominal)		kcal/h	20,000	25,000	30,000	35,000
	*1	BTU / h	76,400	95,500	114,300	136,500
	Power input	kW	5.19	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
Temp. range of	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)
cooling	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	*2	kW	22.4	28.0	33.5	40.0
(Nominal)		kcal/h	20,000	25,000	30,000	35,000
, ,	*2	BTU / h	76,400	95,500	114,300	136,500
	Power input	kW	5.05	6.33	8.11	9.61
	Current input	Α	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	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)
heating	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	Total capacity		50~130% of outdoor unit capacity			
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	P15~P400/1~30
Sound pressure le	vel					
(measured in aneo	choic room)	dB <a></a>	57	58	61	61
Refrigerant piping	Liquid pipe			9.52 (3/8) Brazed (12.7 (1/2)	9.52 (3/8) Brazed (12.7 (1/2)	
diameter		mm (in.)	9.52 (3/8) Brazed	Brazed, farthest length $\geq 90 \text{ m}$	Brazed, farthest length $\geq$ = 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			
	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 me	chanism	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
*3	External static pr	ess.	0 Pa (0 mmH₂O)			
Compressor	Туре		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 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n 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	High pressure pr	otection	High pressure sensor. High pressure			
devices			switch at 4.15 MPa (601 psi)			
	Inverter circuit (CO	MP./FAN)	Over-heat protection.	Over-heat protection.	Over-heat protection.	Over-heat protection.
			Over-current protection	Over-current protection	Over-current protection	Over-current protection
Refrigerant	Type x original ch	narge	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-
			Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2	Joint: CMY-Y102SS/LS-G2	G2,CMY-Y202S-G2
			neauer: CMY-Y104/108/1010-G	neauer: CMY-Y104/108/1010-G	neader: CMY-Y104/108/1010-G	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.)





### ► 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	*1	kW	45.0	48.0	55.0
(Nominal)		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
	FFR	kW / kW	3.32	3.04	2 99
Temp_range of	Indoor	WB	15 0~24 0°C (59~75°E)	15 0~24 0°C (59~75°E)	15 0~24 0°C (59~75°E)
cooling	Outdoor	D B	-5.0~52.0°C (23~126°E)	-5.0~52.0°C (23~126°E)	-5.0~52.0°C (23~126°E)
Heating canacity	*2	kW	45.0	48.0	55.0
(Nominal)	-	kcal/h	40.000	43,000	49,000
(Norminal)	*2	BTIL/h	153 500	163,800	187 700
	2 Rower input		10.02	13.33	15 71
	Current input		10.32	22 5 21 2 20 6	26.5.25.1.24.2
		A	10.4-17.3-10.0	22.3-21.3-20.0	20.3-23.1-24.2
Town rongs of	Lodeer		4.12	3.00 45.0. 07.0%C (50. 04%E)	3.30 15.0. 07.0%C (50. 04%E)
Temp. range of	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)
neating	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	Total capacity		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model / Quantity		P15~P500/1~34	P15~P500/1~39	P15~P500/1~43
Sound pressure le (measured in ane	vel choic room)	dB <a></a>	63	63	65
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m <sup>3</sup> /min	210	210	360
		L/s	3.500	3.500	6.000
		cfm	7 415	7 415	12 712
	Control Driving me	chanism	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
*3	External static pr	229	0 Pa (0 mmH-O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Type	000.	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Starting method		Inverter	Inverter	Inverter
	Motor output	k\//	10.8	12.4	13.3
	Case heater	k\M	-	-	-
External finish	Case neater	NVV	Pre coated galvanized steel sheets	Pre coated galvanized steel sheets	Bre coated galvanized steel sheets
External million			(+powder coating for -BS type)	(+powder coating for -BS type)	(+powder coating for -BS type)
			<pre><munsell 1="" 5v="" 8="" or="" similar=""></munsell></pre>	<munsell 1="" 5v="" 8="" or="" similar=""></munsell>	<pre><munsell 1="" 5v="" 8="" or="" similar=""></munsell></pre>
External dimension		mm	1 650 x 1 220 x 740	1 650 x 1 220 x 740	1 650 x 1 750 x 740
External ulmensio		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	High pressure pr	ntection	High pressure sensor. High pressure switch	High pressure sensor. High pressure switch	High pressure sensor. High pressure switch
devices			at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)	at 4.15 MPa (601 psi)
	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
Refrigerant	Type x original ch	narge	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	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2
			Header: CMY-Y104/108/1010-G	Header: CMY-Y104/108/1010-G	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.)







### ► Specifications

Model			PUHY-P550	YSKA (-BS)	PUHY-P600	YSKA (-BS)	PUHY-P650	YSKA (-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	*1	kW	63	3.0	68	3.0	73	3.0
(Nominal)		kcal/h	55.	000	60.	000	65.	000
(	*1	BTU / h	215	.000	232.000		249	100
Power input k		kW	16	.07	18 18		19.78	
	Current input	A	27.1-25	5.7-24.8	30.6-29	9.1-28.1	33.3-31	.7-30.5
	EER	kW / kW	3.	92	374		3.	69
Temp. range of	Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)	15.0~24.0°0	C (59~75°F)
cooling	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	*2	kW	63	3.0	68	3.0	73	3.0
(Nominal)		kcal/h	55,	000	60,	000	65,	000
l'	*2	BTU / h	215	,000	232	,000	249	,100
	Power input	kW	15	.51	16	.70	18	.02
	Current input	Α	26.1-24	1.8-23.9	28.1-26	6.7-25.8	30.4-28	3.8-27.8
	COP	kW / kW	4.	06	4.	07	4.	05
Temp. range of	Indoor	D.B.	15.0~27.0°	C (59~81°F)	15.0~27.0°	C (59~81°F)	15.0~27.0°0	C (59~81°F)
heating	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	Total capacity		50~130% of outo	loor unit capacity	50~130% of out	door unit capacity	50~130% of outo	loor unit capacity
connectable	Model / Quantity		P15~P5	00/1~47	P15~P5	500/1~50	P15~P5	00/1~50
Sound pressure le	evel	dB <a></a>	6	3	6	3	64	15
(measured in ane	choic room)		0				-07	
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/	8) Brazed	d 15.88 (5/8) Brazed		15.88 (5/8) Brazed	
diameter	diameter 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	r=		PUHY-P250YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P250YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P250YKA (-BS)	PUHY-P400YKA (-BS)
FAN	Type x Quantity	2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m°/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 me	echanism	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	rect-driven by motor	Inverter-control, Dir	ect-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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Type Otenting and the d		Inverter scroll ner	metic compressor	Inverter scroll ner	metic compressor	Inverter scroll ner	metic compressor
	Starting method	1444	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	KVV L/M	0.9	0.1	0.9	10.4	0.9	10.0
Extornal finish	Case nealer	KVV	-	-	-	-	-	-
			Pre-coated galva	nized steel sneets	Pre-coated gaiva	nized steel sneets	Pre-coated galval	lized steel sneets
				( 8/1 or similars		( 8/1 or similars		(8/1 or similars
External dimensio		mm	1 650 x 020 x 740	1 650 x 020 x 740	1 650 x 020 x 740	1 650 x 1 220 x 740	1 650 x 020 x 740	1 650 x 1 220 x 740
		in	65 x 36 1/4 x 20 3/16	65 x 36 1/4 x 20 3/16	1,030 x 920 x 740	65 x 48 1/16 x 20 3/16	65 x 36 1/4 x 20 3/16	65 x 48 1/16 x 20 3/16
Protection	High pressure pr	otection	High pressure sensor	High pressure switch	High pressure sensor	High pressure switch	High pressure sensor	High pressure switch
devices	lingii pressure pr	010011011	at 4 15 MF	, riigii pressure switch 22 (601 nei)	at 4 15 ME	, riigir piessure switch 2a (601 nei)	at 4 15 MP	/ Ingri pressure switch
	Inverter circuit (CC	MP/FAN)	Over-heat protection	Over-current protection	Over-heat protection	Over-current protection	Over-heat protection (	Over-current protection
Refrigerant	Type x original c	harde	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)	R410A x 8.0 kg (18 lbs)	R410A x 11 5 kg (26 lbs)
Net weight	Type x original of	ka (lbs)	195 (430)	211 (466)	195 (430)	256 (565)	195 (430)	253 (558)
Heat exchanger		119 (100)	Salt-resistant cros	s fin & conner tube	Salt-resistant cros	s fin & conner tube	Salt-resistant cross	s fin & conner tube
Pine between unit	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
and distributor	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		(m.)	Outdoor Twinning k	tit CMY-Y100VBK3	Outdoor Twinning L	(it: CMY-Y100VBK3	Outdoor Twinning k	(it: CMY-Y100VBK3
			Joint CMY-Y	102SS/LS-G2	Joint CMY-Y	102SS/LS-G2	Joint: CMY-Y	102SS/LS-G2
			CMY-Y2	202S/302S-G2	CMY-Y	202S/302S-G2	CMY-Y	202S/302S-G2
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-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.)



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

### ► Specifications

Model		PUHY-P700	YSKA (-BS)	PUHY-P750	YSKA (-BS)	PUHY-P800	YSKA (-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	*1	kW	76	6.0	81.5		90	).0	
(Nominal)		kcal/h	68,0	000	73,	000	80,	000	
` <i>`</i>	*1	BTU / h	259.	,300	278	,100	307,100		
	Power input	kW	21.	.40	23.90		27	.10	
	Current input	Α	36.1-34	.3-33.0	40.3-38	3.3-36.9	45.7-43	3.4-41.8	
	EER	kW / kW	3.	55	3.	41	3.	32	
Temp. range of	Indoor	W.B.	15.0~24.0°C	C (59~75°F)	15.0~24.0°	C (59~75°F)	15.0~24.0°	C (59~75°F)	
cooling	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	*2	kW	76	6.0	8	1.5	90	).0	
(Nominal)		kcal/h	68,0	000	73,	000	80,	000	
, ,	*2	BTU / h	259	,300	278	,100	307	,100	
	Power input	kW	20.	.00	22	.20	23	.01	
	Current input	Α	33.7-32	2.0-30.9	37.4-3	5.6-34.3	38.8-36	0.9-35.5	
	COP	kW / kW	3.0	80	3.	67	3.	91	
Temp. range of	Indoor	D.B.	15.0~27.0°C	C (59~81°F)	15.0~27.0°	C (59~81°F)	15.0~27.0°	C (59~81°F)	
heating	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	Total capacity		50~130% of outo	loor unit capacity	50~130% of out	door unit capacity	50~130% of outo	loor unit capacity	
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	00/1~50	P15~P5	00/1~50	
Sound pressure le	evel	dB <a></a>	64	l.5	65	5.5	6	6	
Refrigerant nining		mm (in )	10.05 (3/	1) Brazed	10.05 (2/4) Brozod		19.05 (3/4) Brazed		
diameter	Gas nine	mm (in.)	34.93 (1-3	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed	
Set Model		111111 (111.)	04.35 (1-5		0 <del>1</del> .00 (1-0	(0) Diazed	04.00 (1-0	io) blazed	
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	m <sup>3</sup> /min	175	210	185	210	210	210	
		L/s	2,917	3.500	3.083	3.500	3.500	3.500	
		cfm	6,179	7,415	6.532	7,415	7,415	7,415	
	Control. Driving me	chanism	Inverter-control. Dir	ect-driven by motor	Inverter-control. Di	ect-driven by motor	Inverter-control. Dir	ect-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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll her	metic 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 galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets	
			(+powder coatir	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	
			<munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell>	8/1 or similar>	<munsell 51<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td></munsell>	' 8/1 or similar>	
External dimensio	n 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	High pressure pr	otection	High pressure sensor,	High pressure switch	High pressure sensor	, High pressure switch	High pressure sensor	High pressure switch	
devices			at 4.15 MP	a (601 psi)	at 4.15 MF	Pa (601 psi)	at 4.15 MF	'a (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat	protection,	Over-heat	protection,	Over-heat	protection,	
			Over-currer	nt protection	Over-currer	nt protection	Over-currer	nt protection	
Refrigerant	Type x original ch	narge	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	s fin & copper tube	Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube	
Pipe between unit	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	
and distributor	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 k	it: CMY-Y200VBK2	Outdoor Twinning	kit: CMY-Y200VBK2	Outdoor Twinning k	tit: CMY-Y200VBK2	

#### 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.)

Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2

Header: CMY-Y104/108/1010-G

\*3 External static pressure option is available (30Pa, 60Pa /  $3.1mmH_2O$ ,  $6.1mmH_2O$ ). \*Nominal condition \*1,\*2 are subject to JIS B8615-2.

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



### ► Specifications



Model		PUH1-P850	115KA (-85)	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	*1	kW	93	3.0	96	3.0
(Nominal)		kcal/h	83.0	000	86.	000
( /	*1	BTU / h	317	.300	327	600
	Power input	kW	29	24	31	57
	Current input	A	49.3-4f	3 8-45 1	53 2-50	) 6-48.8
	FFR	kW / kW	3	18	3	04
Temp, range of	Indoor	W.B.	15.0~24.0°(	C (59~75°F)	15.0~24.0°C (59~75°E)	
cooling	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C (23~126°E)	
Heating capacity	*2	kW	93	3.0	96	3.0
(Nominal)		kcal/h	83.	000	86.	000
( /	*2	BTU / h	317	.300	327	.600
	Power input	kW	25	.40	28	.07
	Current input	Α	42.8-40	).7-39.2	47.3-45	5.0-43.3
	COP	kW / kW	3.0	66	3.	42
Temp. range of	Indoor	D.B.	15.0~27.0°C	C (59~81°F)	15.0~27.0°	C (59~81°F)
heating	Outdoor	W.B.	-20.0~15.5°	C (-4~60°F)	-20.0~15.5°	C (-4~60°F)
Indoor unit	Total capacity		50~130% of outc	50~130% of outdoor unit capacity		loor unit capacity
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	.00/1~50
Sound pressure le (measured in ane	vel choic room)	dB <a></a>	6	6	6	6
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	41.28 (1-5/8) Brazed		/8) Brazed
Set Model						
Model			PUHY-P400YKA (-BS)	PUHY-P450YKA (-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
	Air flow rate	m <sup>3</sup> /min	210	210	210	210
		L/s	3,500	3,500	3,500	3,500
		cfm	7,415	7,415	7,415	7,415
	Control, Driving me	echanism	Inverter-control, Dir	rect-driven by motor	Inverter-control, Di	ect-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.8	12.4	12.4	12.4
	Case heater	kW	_	-	_	-
External finish			Pre-coated galvar (+powder coati <munsell 5y<="" td=""><td>nized steel sheets ing for -BS type) ⁄ 8/1 or similar&gt;</td><td>Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>nized steel sheets ng for -BS type) ′ 8/1 or similar&gt;</td></munsell></td></munsell>	nized steel sheets ing for -BS type) ⁄ 8/1 or similar>	Pre-coated galva (+powder coati <munsell 5y<="" td=""><td>nized steel sheets ng for -BS type) ′ 8/1 or similar&gt;</td></munsell>	nized steel sheets ng for -BS type) ′ 8/1 or similar>
External dimension	n 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	High pressure pr	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (CC	MP./FAN)	Over-heat protection, (	Over-current protection	Over-heat protection,	Over-current protection
Refrigerant	Type x original cl	narge	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)
Heat exchanger			Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s 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
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
Optional parts			Outdoor Twinning k Joint: CMY-Y102SS/LS-C Header: CMY-Y	kit: CMY-Y200VBK2 G2, CMY-Y202S/302S-G2 104/108/1010-G	Outdoor Twinning H Joint: CMY-Y102SS/LS-0 Header: CMY-Y	iit: CMY-Y200VBK2 32, CMY-Y202S/302S-G2 104/108/1010-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.)



### ► Specifications

Model			PUHY-P950	YSKA (-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	*1	kW	10	3.0	110	0.0	
(Nominal)		kcal/h	89,	000	98,0	000	
	*1	BTU / h	351	,400	375,	300	
	Power input	kW	34	.21	36.	78	
	Current input	Α	57.7-54	1.8-52.8	62.0-58	.9-56.8	
	EER	kW / kW	3.	01	2.9	99	
Temp. range of	Indoor	W.B.	15.0~24.0°0	C (59~75°F)	15.0~24.0°C	C (59~75°F)	
cooling	Outdoor	D.B.	-5.0~52.0°C	; (23~126°F)	-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW	10	3.0	110	0.0	
(Nominal)		kcal/h	89,	000	98,0	000	
	*2	BTU / h	351	,400	375,	300	
	Power input	kW	30	.56	33.	13	
	Current input	A	51.5-49	9.0-47.2	55.9-53	.1-51.2	
	COP	kW / kW	3.	37	3.3	32	
Temp. range of	Indoor	D.B.	15.0~27.0°C	C (59~81°F)	15.0~27.0°C	C (59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°	C (-4~60°F)	-20.0~15.5°	C (-4~60°F)	
Indoor unit	Iotal capacity		50~130% of outo	loor unit capacity	50~130% of outd	loor unit capacity	
connectable	Model / Quantity		P15~P5	00/1~50	P15~P5	00/1~50	
Sound pressure le	evel choic room)	dB <a></a>	67	7.5	68		
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/-	4) Brazed	19.05 (3/4	4) Brazed	
diameter	Gas pipe	mm (in.)	41.28 (1-5	41.28 (1-5/8) Brazed		(8) Brazed	
Set Model			<u> </u>	.,		.,	
Model			PUHY-P450YKA (-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	
	Air flow rate	m³/min	210	360	360	360	
		L/s	3,500	6,000	6,000	6,000	
		cfm	7,415	12,712	12,712	12,712	
	Control, Driving me	echanism	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	
*3	External static pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	12.4	13.3	13.3	13.3	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galvar	nized steel sheets	
			(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	
			<munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>8/1 or similar&gt;</td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>8/1 or similar&gt;</td></munsell>	8/1 or similar>	
External dimensio	n 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	
<b>D</b> 1 1		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	
Protection	High pressure pro	otection	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-neat protection, C	Dver-current protection	Over-neat protection, C	Diver-current protection	
Retrigerant	Type x original cr	harge	R410A X 11.5 Kg (26 IDS)	R410A X 11.8 Kg (27 lbs)	R410A X 11.8 Kg (27 lbs)	R410A X 11.8 Kg (27 lbs)	
Net weight		Kg (IDS)	253 (558)	288 (635)	288 (635)	288 (635)	
Heat exchanger	Liquid pipe	mana (in )	Salt-resistant cross	s fin & copper tube	Salt-resistant cross	s fin & copper tube	
and distributer		(in.)	13.00 (5/0) Blazed	10.00 (0/0) Diazed	10.00 (0/0) DIdZed	10.00 (0/0) Diazed	
Optional parts	Gas pipe	µnını (m.)	20.30 (1-1/0) Blazed		20.00 (1-1/0) Blazed	20.00 (1-1/0) Blazed	
			Loint: CMX X10255/LS (	AIL UNIT-YZUUVBKZ	Uutaoor Twinning k	11. UNIT-YZUUVBKZ	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-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.)





### ► 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	*1	kW		115.0			121.5		
(Nominal)		kcal/h		103,000			108,000		
	*1	BTU / h		392,400			414,600		
	Power input	kW		32.57			35.63		
	Current input	Α		54.9-52.2-50.3			60.1-57.1-55.0		
	EER	kW / kW		3.53			3.41		
Temp. range of	Indoor	W.B.	1	15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	)	-	5.0~52.0°C (23~126°F	)	
Heating capacity	*2	kW		115.0	·		121.5		
(Nominal)		kcal/h		103,000			108,000		
, ,	*2	BTU / h		392,400			414,600		
	Power input	kW		31.50			33.80		
	Current input	Α		53.1-50.5-48.6			57.0-54.2-52.2		
	COP	kW / kW		3.65			3.59		
Temp. range of	Indoor	D.B.	1	15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F	)		-20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50		
Sound pressure le	vel			66 F			66 F		
(measured in aneo	choic room)	UB <a></a>		00.5			C.00		
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			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 me	chanism	Inverter-	control, Direct-driven b	py motor	Inverter	-control, Direct-driven b	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	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-co	ated galvanized steel	sheets	Pre-co	pated galvanized steel	sheets	
			(+pc	owder coating for -BS t	ype)	(+p	owder coating for -BS t	ype)	
			<ml< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td><td><m< td=""><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></m<></td></ml<>	JNSELL 5Y 8/1 or simi	lar>	<m< td=""><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></m<>	UNSELL 5Y 8/1 or simi	lar>	
External dimension	n 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	High pressure pro	otection	High pressure sensor,	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat protection, Over-current protection		Over-heat	protection, Over-curren	t protection		
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er 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-Y3	00VBK3	Outdoor	r Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
			Head	ler: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-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.)



### ► Specifications

Model		P	UHY-P1150YSKA (-B	S)	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	*1	kW		130.0			135.0	
(Nominal)		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	
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)
cooling	Outdoor	D.B.	-	-5.0~52.0°C (23~126°F)		-	5.0~52.0°C (23~126°F	)
Heating capacity	*2	kW		130.0			135.0	
(Nominal)		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	Indoor	D.B.		15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F	)	-	-20.0~15.5°C (-4~60°F	)
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50	
Sound pressure le (measured in ane	evel choic room)	dB <a></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			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 me	chanism	Inverter-	control, Direct-driven b	py motor	Inverter	-control, Direct-driven b	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Туре		Inverte	er scroll hermetic comp	oressor	Inverte	er scroll hermetic comp	ressor
	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-co	ated galvanized steel	sheets	Pre-co	bated galvanized steel	sheets
			(+pd	owder coating for -BS t	type)	(+p	owder coating for -BS t	ype)
			<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td><mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></mi<></td></mi<>	JNSELL 5Y 8/1 or simi	ilar>	<mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></mi<>	UNSELL 5Y 8/1 or simi	lar>
External dimensio	n 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	High pressure pro	otection	High pressure sensor,	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	per tube	Salt-res	sistant cross fin & copp	er tube
Pipe between unit	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
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	I winning kit: CMY-Y3	UUVBK3	Outdoor	I winning kit: CMY-Y3	JUVBK3
			JOINT: CMIY-Y	10233/L3-G2, UMY-Y	202/3028-62	Joint: CMY-Y	10235/LS-G2, UMY-Y	202/3023-62
1			пеас	aci. Givi 1-1 104/106/10	10-0	пеас	Jel. GIVIT-T 104/106/10	10-0

#### 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.)





### ► 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	*1	kW		138.0			141.0		
(Nominal)		kcal/h		123,000			126,000		
	*1	BTU / h		470,900			481,100		
	Power input	kW		43.12			45.77		
	Current input	Α		72.7-69.1-66.6			77.2-73.4-70.7		
	EER	kW / kW		3.20		3.08			
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F)		
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	5)	-	5.0~52.0°C (23~126°F	)	
Heating capacity	*2	kW		138.0		141.0			
(Nominal)		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	kW / kW		3.42			3.28		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.	-	-20.0~15.5°C (-4~60°F	)		-20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit cap	pacity	
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50		
Sound pressure le	vel	dB <a></a>		68			68		
(measured in aneo	choic room)	mm (in )		10.05 (3/4) Brazed		10.05 (3/4) Brazed			
diameter		mm (in.)		41.28 (1.5/8) Brazed		41 28 (1-5/8) Brazed			
Set Model	Gas pipe	[111111 (111. <i>)</i>		41.20 (1-5/0) Diazeu			41.20 (1-5/6) blazeu		
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 me	chanism	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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	
Compressor	Type		Inverte	er scroll hermetic comr	ressor	Inverte	er scroll hermetic comp	ressor	
Compresses	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-co	ated galvanized steel	sheets	Pre-co	ated galvanized steel	sheets	
			(+p	owder coating for -BS	type)	(+p	owder coating for -BS t	vpe)	
			<mu< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td><m< td=""><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></m<></td></mu<>	UNSELL 5Y 8/1 or simi	ilar>	<m< td=""><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></m<>	UNSELL 5Y 8/1 or simi	lar>	
External dimensio	n 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	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection	
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er 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-Y3	00VBK3	Outdoo	Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
1			Hear	der: CMY-Y104/108/10	10-G	Hear	der: CMY-Y104/108/10	10-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.)



### Specifications

Model		P	UHY-P1350YSKA (-B	S)	PUHY-P1400YSKA (-BS)				
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz	3-phase	3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity	*1	kW		144.0			151.0		
(Nominal)		kcal/h		129,000			135,000		
	*1	BTU / h		491,300		515,200			
	Power input	kW		48.64		52.24			
	Current input	Α		82.1-78.0-75.1		88.1-83.7-80.7			
	EER	kW / kW		2.96			2.89		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)	15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.	-	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW		144.0	.,	151.0			
(Nominal)		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	kW / kW		3.12			3.05		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F	() ()		-20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50		
Sound pressure le	vel			00			00.5		
(measured in aneo	choic room)	an <u></u>		08		68.5			
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			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 me	chanism	Inverter-	control, Direct-driven I	by motor	Inverter	-control, Direct-driven I	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverte	er scroll hermetic comp	pressor	Inverte	er scroll hermetic comp	ressor	
	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-co	ated galvanized steel	sheets	Pre-co	bated galvanized steel	sheets	
			(+pd	owder coating for -BS	type)	(+p	owder coating for -BS f	ype)	
			<mi< td=""><td>JNSELL 5Y 8/1 or sim</td><td>ilar&gt;</td><td><m></m></td><td>UNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></mi<>	JNSELL 5Y 8/1 or sim	ilar>	<m></m>	UNSELL 5Y 8/1 or simi	lar>	
External dimension	n 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	High pressure pro	otection	High pressure sensor,	High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	; High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	Over-heat protection, Over-current protection		Over-heat	protection, Over-currer	t protection	
Refrigerant	Type x original ch	narge	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)	253 (558)	253 (558)	253 (558)	253 (558)	253 (558)	288 (635)	
Heat exchanger			Salt-res	sistant cross fin & copp	per tube	Salt-re:	sistant cross fin & copp	er 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-Y3	00VBK3	Outdoo	r Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
			Head	ler: CMY-Y104/108/10	10-G	Hea	der: CMY-Y104/108/10	10-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.)





### ► Specifications

Model			P	UHY-P1450YSKA (-B	S)	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	*1	kW		158.0			165.0		
(Nominal)		kcal/h		141,000			147,000		
	*1	BTU / h		539,100			563,000		
	Power input	kW		55.83		59.56			
	Current input	А		94.2-89.5-86.3		100.5-95.5-92.0			
	EER	kW / kW		2.83			2.77		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F)			15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	-)	-	5.0~52.0°C (23~126°F	)	
Heating capacity	*2	kW		158.0			165.0		
(Nominal)		kcal/h		141,000			147,000		
	*2	BTU / h		539,100			563,000		
	Power input	kW		52.49			56.12		
	Current input	Α		88.6-84.1-81.1			94.7-90.0-86.7		
	COP	kW / kW		3.01			2.94		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F			15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F	·)		20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity	9	50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/2~50			P15~P500/2~50		
Sound pressure le	evel	dB <a></a>		69.5			70		
Refrigerant nining	Liquid nine	mm (in )		19 05 (3/4) Brazed		19.05 (3/4) Brazed			
diameter	Gas nine	mm (in )		41 28 (1-5/8) Brazed			41 28 (1-5/8) Brazed		
Set Model				41.20 (1 0/0) Did20d			41.20 (1 0/0) Did200		
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	m <sup>3</sup> /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 me	chanism	Inverter	control. Direct-driven t	by motor	Inverter	-control. Direct-driven t	ov 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 pre	222	0 Pa (0 mmH.O)	0 Pa (0 mmH.O)	0 Pa (0 mmH.O)	0 Pa (0 mmH.O)	0 Pa (0 mmH.O)	0 Pa (0 mmH.O)	
Compressor	Type		Inverte	er scroll hermetic com		Inverte	er scroll hermetic com	ressor	
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	outo nouto.		Pre-co	ated galvanized steel	sheets	Pre-co	ated galvanized steel	sheets	
			(+n	owder coating for -BS t	tyne)	(+n	owder coating for -BS t	vne)	
			<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td><mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></mi<></td></mi<>	JNSELL 5Y 8/1 or simi	ilar>	<mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></mi<>	JNSELL 5Y 8/1 or simi	lar>	
External dimension	n 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	High pressure pro	otection	High pressure sensor	High pressure switch	at 4 15 MPa (601 psi)	High pressure sensor	High pressure switch	at 4 15 MPa (601 psi)	
devices	Inverter circuit (CO	MP/FAN)	Over-heat r	Over-best protection. Over-current protection		Over-heat	protection Over-curren	t protection	
Refrigerant	Type x original ch	arge	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	rype x original of	ka (lbs)	253 (558)	288 (635)	288 (635)	288 (635)	288 (635)	288 (635)	
Heat exchanger			Salt-res	sistant cross fin & conr	per tube	Salt-re:	sistant cross fin & conn	er 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			Quitdoor	Twinning kit: CMY-Y3	00VBK3	Quitdooi	Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2. CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2. CMY-Y	202/302S-G2	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-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.)

### ► Specifications



Model		PUHY-EP40	JYSKA (-BS)	PUHY-EP450	JYSKA (-BS)	PUHY-EP50	OYSKA (-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	*1	kW	44	.8	50	).4	50	5.0	
(Nominal)		kcal/h	40,	000	45,	000	50,	50,000	
	*1	BTU / h	152	900	172,000		191,100		
	Power input	kW	10	.39	12	.05	13	.79	
	Current input	Α	17.5-16	6.6-16.0	20.3-19	.3-18.6	23.2-2	2.1-21.3	
	EER	kW / kW	4.	31	4.	18	4.	06	
Temp. range of	Indoor	W.B.	15.0~24.0°0	C (59~75°F)	15.0~24.0°0	C (59~75°F)	15.0~24.0°	C (59~75°F)	
cooling	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C	C (23~126°F)	
Heating capacity	*2	kW	44	44.8		).4	50	5.0	
(Nominal)		kcal/h	40,	000	45,	000	50,	000	
	*2	BTU / h	152	900	172	,000	191	,100	
	Power input	kW	10	.66	12	.00	13	.36	
	Current input	Α	17.9-17	.0-16.4	20.2-19	0.2-18.5	22.5-2	1.4-20.6	
	COP	kW / kW	4.	20	4.:	20	4.	19	
Temp. range of	Indoor	D.B.	15.0~27.0°0	C (59~81°F)	15.0~27.0°0	C (59~81°F)	15.0~27.0°	C (59~81°F)	
heating	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	Total capacity		50~130% of outo	loor unit capacity	50~130% of outo	loor unit capacity	50~130% of out	door unit capacity	
connectable	Model / Quantity		P15~P5	00/1~34	P15~P5	00/1~39	P15~P5	600/1~43	
Sound pressure le	vel	dB <a></a>	6	0	60	0.5	6	51	
(measured in aned	choic room)		40 7 (4/0	Durana d	45.00 (5/	Durana d	45.00 (5)	0) Decent	
Refrigerant piping		mm (in.)	12.7 (1/2	) Brazeo	15.88 (5/8	3) Brazed	15.88 (5/	8) Brazed	
diameter	Gas pipe	mm (in.)	28.58 (1-1	26.56 (1-1/6) Blazeu		/8) Brazed	28.58 (1-1	/8) Brazed	
Set Model									
FAN	Tupo y Quantity		Dropollor fop y 1	PUHI-P2001KA (-B3)	Dropollor fop y 1	PUHI-P2501KA (-D5)	PUHT-F250TKA (-B5)	Dropollor fop y 1	
FAN	Air flow rate	m <sup>3</sup> /min	175	175	175	175	175	175	
	All now rate	111 /11111	2.017	2.017	2.017	2.017	2.017	2.017	
		cfm	6 170	6 170	6,170	6,170	6 170	6,170	
	Control Driving me	chanism	Inverter-control Dir	ect-driven by motor	Inverter-control Dir	ect_driven by motor	Inverter-control Di	ect-driven by motor	
	Motor output	k\M							
*3	External static pr	000	0.52 x 1	0.32 x 1	0.52 x 1	0.32 x 1	0.32 x 1	0.52 X 1	
Compressor	Type	033.	Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	Inverter scroll bei	metic compressor	
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.5	5.5	5.5	6.9	6.9	6.9	
	Case heater	kW	-	-	-	-	-	-	
External finish	ouco noutor		Pre-coated galva	nized steel sheets	Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	
			(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	(+powder coati	ng for -BS type)	
			<munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5<="" td=""><td>8/1 or similar&gt;</td></munsell></td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5<="" td=""><td>8/1 or similar&gt;</td></munsell></td></munsell>	8/1 or similar>	<munsell 5<="" td=""><td>8/1 or similar&gt;</td></munsell>	8/1 or similar>	
External dimension	n 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	1,650 x 920 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	
Protection	High pressure pre	otection	High pressure sensor	High pressure switch	High pressure sensor,	High pressure switch	High pressure sensor	, High pressure switch	
devices			at 4.15 MP	a (601 psi)	at 4.15 MP	a (601 psi)	at 4.15 MF	Pa (601 psi)	
	Inverter circuit (CO	MP./FAN)	Over-heat protection, (	Over-current protection	Over-heat protection, (	Over-current protection	Over-heat protection,	Over-current protection	
Refrigerant	Type x original ch	harge	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)	R410A x 8.0 kg (18 lbs)	
Net weight		kg (lbs)	195 (430)	195 (430)	195 (430)	195 (430)	195 (430)	195 (430)	
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cross	s fin & copper tube	Salt-resistant cros	s 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	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	22.2 (7/8) Brazed	
Optional parts			Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	Outdoor Twinning I	kit: CMY-Y100VBK3	
			Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	Joint: CMY-Y102SS/L	S-G2, CMY-Y202S-G2	
1			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-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.)





### ► Specifications

Model			PUHY-EP65	0YSKA (-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	*1	kW	73	3.5	80	.0	
(Nominal)		kcal/h	65,	000	70,0	000	
	*1	BTU / h	250	,800	273,	000	
	Power input	kW	20	.41	23.	39	
	Current input	A	34.4-32	2.7-31.5	39.4-37	.5-36.1	
	EER	kW / kW	3.	60	3.42		
Temp. range of	Indoor	W.B.	15.0~24.0°	C (59~75°F)	15.0~24.0°C (59~75°F)		
cooling	Outdoor	D.B.	-5.0~52.0°C	(23~126°F)	-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW	73	3.5	80	.0	
(Nominal)		kcal/h	65,	000	70,0	000	
	*2	BTU / h	250	,800	273,000		
	Power input	kW	18	.70	20.25		
	Current input	Α	31.5-29	9.9-28.9	34.1-32	.4-31.3	
	COP	kW / kW	3.	93	3.9	95	
Temp. range of	Indoor	D.B.	15.0~27.0°	C (59~81°F)	15.0~27.0°C	C (59~81°F)	
heating	Outdoor	W.B.	-20.0~15.5°	°C (-4~60°F)	-20.0~15.5°	C (-4~60°F)	
Indoor unit	Total capacity		50~130% of out	door unit capacity	50~130% of outd	loor unit capacity	
connectable	Model / Quantity		P15~P5	600/1~50	P15~P5	00/1~50	
Sound pressure le	evel	dB <a></a>	6	4	6	4	
(measured in anechoic room)					64		
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/	8) Brazed	19.05 (3/4	4) Brazed	
diameter	Gas pipe	mm (in.)	28.58 (1-1	28.58 (1-1/8) Brazed		/8) Brazed	
Set Model							
Model			PUHY-P300YKA (-BS)	PUHY-P350YKA (-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	
	Air flow rate	m³/min	185	210	210	210	
		L/s	3,083	3,500	3,500	3,500	
		cfm	6,532	7,415	7,415	7,415	
	Control, Driving me	chanism	Inverter-control, Di	rect-driven by motor	Inverter-control, Dir	ect-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		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	8.1	10.4	10.4	10.4	
<b>E</b> 1 <b>C</b> 1 <b>C</b>	Case heater	kW	-	-	-	-	
External finish			Pre-coated galva	nized steel sheets	Pre-coated galvar	nized steel sheets	
			(+powder coati	ng for -BS type)	(+powder coatil	ng for -BS type)	
<b>F</b> ( ) ( )			<munsell 51<="" td=""><td>8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>8/1 or similar&gt;</td></munsell></td></munsell>	8/1 or similar>	<munsell 5y<="" td=""><td>8/1 or similar&gt;</td></munsell>	8/1 or similar>	
External dimensio	n HXWXD	mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
<b>D</b> :		in.	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	High pressure pro	otection	High pressure sensor, High pres	sure switch at 4.15 MPa (601 psi)	High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-neat protection, o	Over-current protection	Over-neat protection, C	Dver-current protection	
Retrigerant	Type x original cr	harge	R410A X 8.0 Kg (18 lDS)	R410A X 11.5 Kg (26 lbs)	R410A X 11.5 Kg (26 lbs)	R410A X 11.5 Kg (26 lbs)	
Net weight		Kg (IDS)	211 (466)	256 (565)	256 (565)	256 (565)	
Heat exchanger	h · · · ·	<i>(</i> )	Salt-resistant cros	s fin & copper tube	Salt-resistant cross	s fin & copper tube	
Pipe between unit		mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	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	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
			Outdoor Twinning F Joint: CMY-Y102SS/LS-0 Header: CMY-Y	at: CMY-Y100VBK3 G2, CMY-Y202S/302S-G2 104/108/1010-G	Outdoor Twinning k Joint: CMY-Y102SS/LS-G Header: CMY-Y	it: CMY-Y200VBK2 52, CMY-Y202S/302S-G2 104/108/1010-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.)

### ► Specifications



Model			P	UHY-EP750YSKA (-B	S)	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	*1	kW		84.8		90.4			
(Nominal)		kcal/h		75,000			80,000		
, ,	*1	BTU / h		289,300		308,400			
	Power input	kW	21 14				23.00		
	Current input	Α		35.6-33.9-32.6			38.8-36.8-35.5		
	EER	kW / kW		4.01			3.93		
Temp, range of	Indoor	W.B.		15.0~24.0°C (59~75°F		15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.		-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)		
Heating capacity	*2	kW		84.8	/	90.4			
(Nominal)		kcal/h		75,000			80,000		
	*2	BTU / h		289,300			308,400		
	Power input	kW		20.58			21.99		
	Current input	Α		34.7-33.0-31.8			37.1-35.2-33.9		
	COP	kW / kW		4.12			4.11		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F			15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F	5)		-20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/1~50			P15~P500/1~50		
Sound pressure le (measured in aneo	evel choic room)	dB <a></a>		64			64		
Refrigerant piping	Liquid pipe	mm (in.)		19.05 (3/4) Brazed			19.05 (3/4) Brazed		
diameter	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 me	echanism	Inverter	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven I	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverte	er scroll hermetic comp	pressor	Inverte	er scroll hermetic comp	pressor	
	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-cc (+p <m< td=""><td>oated galvanized steel owder coating for -BS UNSELL 5Y 8/1 or sim</td><td>sheets type) ilar&gt;</td><td>Pre-cc (+pi <m< td=""><td>oated galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>sheets type) ilar&gt;</td></m<></td></m<>	oated galvanized steel owder coating for -BS UNSELL 5Y 8/1 or sim	sheets type) ilar>	Pre-cc (+pi <m< td=""><td>oated galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>sheets type) ilar&gt;</td></m<>	oated galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi	sheets type) ilar>	
External dimension	n 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	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-currer	nt protection	Over-heat	protection, Over-currer	t protection	
Refrigerant	Type x original ch	narge	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-re:	sistant cross fin & copp	per tube	Salt-re:	sistant cross fin & copp	er 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 Joint: CMY-Y Head	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G	Outdoor Joint: CMY-Y Head	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-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.)



### ► Specifications



Model			P	UHY-EP850YSKA (-B	S)	P	UHY-EP900YSKA (-B	S)	
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz	3-phase	3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity	*1	kW		96.0			101.5		
(Nominal)		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		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)	15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.	-5.0~52.0°C (23~126°F)			-5.0~52.0°C (23~126°F)			
Heating capacity	*2	kW		96.0		101.5			
(Nominal)		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	Indoor	D.B.		15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.		-20.0~15.5°C (-4~60°F	)		-20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/1~50			P15~P500/1~50		
Sound pressure le (measured in ane	evel choic room)	dB <a></a>		64			65		
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			1						
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 me	echanism	Inverter	-control, Direct-driven I	by motor	Inverter	-control, Direct-driven I	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 pr	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Туре		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor	
	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-cc (+p <mi< td=""><td>oated galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi</td><td>sheets type) ilar&gt;</td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mi<>	oated galvanized steel owder coating for -BS t UNSELL 5Y 8/1 or simi	sheets type) ilar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1="" 5y="" 8="" or="" similar=""></munsell>			
External dimension	n 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	High pressure pre	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-currer	t protection	Over-heat	protection, Over-currer	t protection	
Refrigerant	Type x original ch	narge	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-re:	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er 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 Joint: CMY-Y Head	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G	Outdoor Joint: CMY-Y Head	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-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.)



### ► Specifications

Model			P	UHY-EP950YSKA (-B	S)	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	*1	kW		107.0			113.5		
(Nominal)		kcal/h		95,000			100,000		
. ,	*1	BTU / h		365,100			387,300		
	Power input	kW		29.23			32.06		
	Current input	Α		49.3-46.8-45.1			54.1-51.4-49.5		
	EER	kW / kW		3.66			3.54		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)	15.0~24.0°C (59~75°F)			
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F		-	5.0~52.0°C (23~126°F	() ()	
Heating capacity	*2	kW		107.0	/	113.5			
(Nominal)		kcal/h		95,000		100.000			
	*2	BTU / h		365,100			387,300		
	Power input	kW		27.22			28.80		
	Current input	Α		45.9-43.6-42.0			48.6-46.1-44.5		
	COP	kW / kW		3.93			3.94		
Temp. range of	Indoor	D.B.		15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F	)		20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity			P15~P500/1~50			P15~P500/1~50		
Sound pressure le	evel	dB <a></a>		66			66		
(measured in ane	choic room)	ub -A-		00		00			
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	r		PUHY-P300YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P300YKA (-BS)	PUHY-P350YKA (-BS)	PUHY-P350YKA (-BS)	
FAN	Type x Quantity	<u>.</u>	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	
		ctm	6,532	6,532	7,415	6,532	7,415	7,415	
	Control, Driving me	chanism	Inverter-	-control, Direct-driven t	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 pro	ess.	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Туре		Inverte	er scroll hermetic comp	oressor	Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.1	8.1	10.4	8.1	10.4	10.4	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-co	ated galvanized steel	sheets	Pre-co	ated galvanized steel	sheets	
			(+pd	owder coating for -BS t	type)	(+p	owder coating for -BS f	ype)	
			<ml< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td><m< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></m<></td></ml<>	JNSELL 5Y 8/1 or simi	ilar>	<m< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td></m<>	JNSELL 5Y 8/1 or simi	lar>	
External dimensio	n 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	High pressure pro	otection	High pressure sensor,	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	t protection	
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	er tube	Salt-re:	sistant cross fin & copp	er tube	
Pipe between unit	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	12.7 (1/2) Brazed	
and distributor Gas pipe mm (in			12.7 (1/2) Brazed 22.2 (7/8) Brazed 22.2 (7/8) Brazed 22.58 (1.1/8) Brazed 22.2 (7/8) Brazed 22.58 (1.1/8) Brazed 22.2 (7/8) Brazed 23.58 (1.1/8) Braz						
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	Gas pipe	mm (in.)	22.2 (7/8) Brazed Outdoor	22.2 (7/8) Brazed Twinning kit: CMY-Y3	28.58 (1-1/8) Brazed 00VBK3	22.2 (7/8) Brazed Outdoor	28.58 (1-1/8) Brazed Twinning kit: CMY-Y3	28.58 (1-1/8) Brazed 00VBK3	

#### 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.)





### ► Specifications

Model			Pl	JHY-EP1050YSKA (-E	SS)	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	*1	kW		120.0			125.0		
(Nominal)		kcal/h		105,000			110,000		
	*1	BTU / h		409,400			426,500		
	Power input	kW		35.08			36.76		
	Current input	Α		59.2-56.2-54.2			62.0-58.9-56.8		
	EER	kW / kW		3.42			3.40		
Temp. range of	Indoor	W.B.		15.0~24.0°C (59~75°F	)		15.0~24.0°C (59~75°F	)	
cooling	Outdoor	D.B.	-	5.0~52.0°C (23~126°F	-)	-5.0~52.0°C (23~126°F)			
Heating capacity	*2	kW		120.0			125.0		
(Nominal)		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	Indoor	D.B.		15.0~27.0°C (59~81°F	)		15.0~27.0°C (59~81°F	)	
heating	Outdoor	W.B.	-	20.0~15.5°C (-4~60°F			-20.0~15.5°C (-4~60°F	)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Model / Quantity	r		P15~P500/2~50			P15~P500/2~50		
Sound pressure level (measured in anechoic room) dB <a></a>				66			67		
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			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	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 me	chanism	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 pr	ess.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₀O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type		Inverte	er scroll hermetic com	pressor	Inverte	er scroll hermetic com	ressor	
	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-co	ated galvanized steel	sheets	Pre-co	ated galvanized steel	sheets	
			(+p	owder coating for -BS	type)	(+p	owder coating for -BS f	type)	
			<mu< td=""><td>JNSELL 5Y 8/1 or sim</td><td>ilar&gt;</td><td><mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td></mi<></td></mu<>	JNSELL 5Y 8/1 or sim	ilar>	<mi< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td></mi<>	UNSELL 5Y 8/1 or simi	ilar>	
External dimensio	n 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	High pressure pro	otection	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	High pressure sensor	, High pressure switch	at 4.15 MPa (601 psi)	
devices	Inverter circuit (CO	MP./FAN)	Over-heat	protection, Over-currer	nt protection	Over-heat	protection, Over-curren	t protection	
Refrigerant	Type x original ch	narge	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-res	sistant cross fin & copp	per tube	Salt-re:	sistant cross fin & copp	er 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-Y3	00VBK3	Outdoor	Twinning kit: CMY-Y3	00VBK3	
			Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	Joint: CMY-Y	102SS/LS-G2, CMY-Y	202/302S-G2	
			Head	der: CMY-Y104/108/10	10-G	Head	der: CMY-Y104/108/10	10-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.)



# 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
- OA Processing Units

# Wide Selection of Indoor Units

	Тур	е	Model name		Model	P15	P20	P25	P32	
		       	PLFY-P VBM-E							
		4-way air flow	Page70 - Page71							 
			PLFY-P VCM-E2 Page70 - Page71							1
	Ceiling Cassette	2-way	PLFY-P VLMD-E		5					
		air flow	Page72 - Page73		2					
		1-way air flow	PMFY-P VBM-E		5					
		1	Page74 - Page75							
			PEFY-P VMR-E-L/R Page76 - Page77							
			PEFY-P VMS1(L)-E		5					
			Page78 - Page79							
	Ceiling Co	ncealed	PEFY-P VMA(L)-E							
			PEFY-P VMA3-E Page80 - Page81	~	-					     
			PEFY-P VMH-E2							
			PEFY-P VMH(S)-E							
		Fresh Air	PEFY-P VMH-E-F							
			Page86 - Page87							
	Ceiling Su	spended	PCFY-P VKM-E Page88 - Page89							
			PKFY-P VBM-E							
			Page90 - Page91		_					
	Wall Moun	ted	PKFY-P VHM-E Page90 - Page91							
	Wall Mount		PKFY-P VKM-E							' — — — — — — — — — — — — — — — — — — —
			Page90 - Page91		<u> </u>					
			PFFY-P VKM-E2							
			PFFY-P VLEM-E							
	Floor Stan	ding/	Page94 - Page95							
	Floor Mour Concealed	nted	PFFY-P VLRM-E PFFY-P VLRMM-E Page96 - Page97							1
Page 68			PFFY-P YM-E PFFY-P YMH-E NEW Page98 - Page99							



### INDOOR UNIT Ceiling cassette type 4-way airflow PLFY-P VBM-E Free 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.



#### 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  $Low \rightarrow Mid2 \rightarrow Mid1 \rightarrow High \rightarrow Auto$ 

\* 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 m

\*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.



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



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

New 4-way Cassette PLFY-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, PLFY-VBM-E ONLY)

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



### ► Specifications

				PLFY-P32VBM-E	PLFY-P40VBM-E	E PLFY-P50VBN	И-Е 🛛	PLFY-P63VBM-E	PLFY-P80VBM-E	PLFY-P100	VBM-E	PLFY-P125VBM-E		
Power s	source					1-phase 2	220-2	40V 50Hz / 1-phas	e 220V 60Hz					
Cooling	oonooit	, *1	kW	3.6	4.5	5.6		7.1	9.0	11.2	2	14.0		
	capacity	*1	BTU/h	12,300	15,400	19,100		24,200	30,700	38,20	00	47,800		
Hosting	, conocit	, *1	kW	4.0	5.0	6.3		8.0	10.0	12.5	5	16.0		
пеашу	g capacity	*1	BTU/h	13,600	17,100	21,500		27,300	34,100	42,70	00	54,600		
Power		Cooling	kW	0.03		0.04		0.05	0.07	0.15	5	0.16		
consumption Heating kW			kW	0.02		0.03		0.04	0.06	0.14	ł	0.15		
Current		Cooling	А	0.27		0.29		0.36	0.51	1.00	)	1.07		
Current		Heating	Α	0.20		0.22		0.29	0.43	0.94	L I	1.00		
Externa	al finish	Unit					Ga	alvanized steel she	et					
(Munse	ell No.)	Panel					N	Vhite (6.4Y 8.9/0.4)						
Dimens	sion	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)		
HxWx	D	Panel	mm(in.)			35 x 95	50 x 9	50 (1-3/8 x 37-7/16	6 x 37-7/16)					
Net wei	iaht	Unit	kg(lbs.)		22 (49)			23 (	(51)		27	(60)		
	igint	Panel	kg(lbs.)		6 (13)									
Heat ex	changer					Cross fin	(Alun	ninum plate fin and	copper tube)					
	Type x	Quantity						Turbo fan x 1						
	Airflow	rate *2	m³/min	11-12-13-14	12-1	3-14-16		14-15-16-18	16-18-20-22	21-24-2	7-29	22-25-28-30		
Fan	(Lo-Mid2	-Mid1-Hi)	L/s	183-200-217-233	200-21	7-233-267		233-250-267-300	267-300-333-367	350-400-4	50-483	367-417-467-500		
	·		cfm	388-424-459-494	424-45	59-494-565		494-530-565-636	565-636-706-777	742-848-95	53-1024	777-883-989-1059		
	External static pressure Pa		0											
Motor	Туре			DC motor										
	Output		kW			0.050					0.1	120		
Air filter	r							PP Honeycomb						
Refrige	rant	Gas (Flare)	mm(in.)	ø12.7	(ø1/2)	ø12.7 (ø1/2) / ø15.88 (Compatible	(ø5/8) e)	ø15.88	8(ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)				
pipe dia	ameter	Liquid (Flare)	mm(in.)	ø6.35	(ø1/4)	ø6.35 (ø1/4) / ø9.52 ( (Compatible	ø3/8) :)		ø9.52	! (ø3/8)				
Field dra	ain pipe c	liameter	mm(in.)					O.D. 32 (1-1/4)						
Sound (Lo-Mid	pressure I2-Mid1-Hi	level ) *2 *3	dB(A)	27-28-29-31	27-2	8-30-31		28-29-30-32	30-32-35-37	34-37-3	9-41	35-38-41-43		
				PLFY-P15VCN	1-E2 PLF	-P20VCM-E2		PLFY-P25VCM-E2	PLFY-P32	/CM-E2	PLI	FY-P40VCM-E2		
Power	source						1-pł	hase 220-240V 50	Hz					
Cooling	o capacit	v *1	kW	1.7		2.2		2.8	3.6			4.5		
		/ +/	OTU/											

					1 phase 220 2401 00112							
Cooling	n canacit	., *1	kW	1.7	2.2	2.8	3.6	4.5				
COOMIN	y capaci	<sup>y</sup> *1	BTU/h	5,800	7,500	9,600	12,300	15,400				
Heating	a canacit	*1	kW	1.9	2.5	3,2	4.0	5.0				
Tieauni	y capaci	• <sup>y</sup> *1	BTU/h	6,500	8,500	10,900	13,600	17,100				
Power		Cooling	kW	0.04	0.05	0.05	0.06	0.06				
consun	nption	Heating kW		0.04	0.05	0.05	0.06	0.06				
Curron	•	Cooling	Α	0.19	0.23	0.23	0.28	0.28				
Power Corconsumption   Current Hei   External finish Un   (Munsell No.) Pa   Dimension Ur   Heat exchanger Type x Qua   Airflow rate Fan	Heating	Α	0.19	0.23	0.23	0.28	0.28					
Externa	al finish	Unit		Galvanized steel sheet with gray heat insulation								
(Munse	ell No.)	Panel				White (6.4Y 8.9/0.4)						
Dimens	sion	Unit	mm(in.)		208 x	570 x 570 (8-1/4 x 22-1/2 x	22-1/2)					
HxWx	D	Panel	mm(in.)		20 x 6	50 x 650 (13/16 x 25-5/8 x 2	25-5/8)					
Net		Unit	kg(lbs.)		15.5 (35)	17 (38)						
Net we	Net weight	Panel	kg(lbs.)		3 (7) 3 (7)							
Heat exchanger					Cross	fin (Aluminum fin and coppe	er tube)	<u>, , , , , , , , , , , , , , , , , , , </u>				
	Type x Quantity					Turbo fan x 1	,					
	Airflow rate *2		m³/min	8-8.5-9	8-9-10	8-9-10	8-9-11	8-9-11				
Fan			L/s	133-142-150	133-150-167	133-150-167	133-150-183	133-150-183				
	(Lo-Mid	l-Hi)	cfm	283-300-353	283-318-353	283-318-353	283-318-388	283-318-388				
	Externa F	al static pressure	Ра		0							
Motor	Туре	•				1-phase induction motor						
WOU	Outp	ut	kW	0.008	0.011	0.015	0.02	0.02				
Air filte	r				PP I	Honeycomb fabric (long life	type)	-				
Refrige	rant	Gas(Flare)	mm(in.)			ø12.7 (ø1/2)						
pipe dia	ameter	Liquid(Flare)	mm(in.)			ø6.35 (ø1/4)						
Field dr	ain pipe	diameter	mm(in.)		O.D. 32 (	1-1/4) (PVC pipe VP-25 cor	nnectable)					
Sound (Lo-Mi	pressure d-Hi)	e level *2 *3	dB(A)	28-30-31	28-31-35	29-31-37	29-33-38	30-34-39				

#### 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-middle-high) or (low-middle1-middle2-high).

 $^{\ast}3~$  It is measured in an echoic room at power source 230V.

### 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.



#### Compact unit and low noise level attained!

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

												0000
	Capacity		P20	P25	P32	P40	P50	P63	P80	P100	P125	
	Sound pressure Level	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>

											dB(A)
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>

#### 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

#### 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.

Indoor Unit
				PLFY-P20VLMD-E		PLFY-P25VL	MD-E	PLFY-	P32VLMD-E		PLFY-P40VLMD-E
Power s	source					1-phase 220	0-240V 50Hz /	1-phase 220	-230V 60Hz		
Cooling	canacity	, *1	kW	2.2		2.8			3.6		4.5
Cooling	capacity	*1	BTU/h	7,500		9,600			12,300		15,400
Heating	canacity	, *1	kW	2.5		3.2			4.0		5.0
ricating	capacit	*1	BTU/h	8,500		10,900	)		13,600		17,100
Power		Cooling	kW	0.072 / 0.075		0.072 / 0.	075	0.0	72 / 0.075		0.081 / 0.085
consum	ption	Heating	kW	0.065 / 0.069		0.065 / 0.	069	0.0	65 / 0.069		0.074 / 0.079
Current		Cooling	А	0.36 / 0.37		0.36 / 0.3	37	0.	36 / 0.37		0.40 / 0.42
ouncil		Heating	А	0.30 / 0.32		0.30 / 0.3	32	0.	30 / 0.32		0.34 / 0.37
Externa	l finish	Unit					Galvanized	steel plate			
(Munse	ll No.)	Panel					Pure white (6	6.4Y 8.9/0.4)			
Dimensio	n	Unit	mm (in.)			290 x 1	776 x 634 (11-	7/16 x 30-9/1	6 x 25)		
HxWxI	2	Panel	mm (in.)			20 x 1	080 x 710 (13	3/16 x 42-9/16	i x 28)		
Net wei	aht	Unit	kg(lbs.)		23 (	51)			24	(53)	
	5	Panel	kg(lbs.)				6.5	(15)			
Heat ex	changer						Cros	s fin			
	Туре х	Quantity					Turbo	fan x 1			
_	Airflow	rate *2	m³/min			6.5-8.0-9	9.5				7.0-8.5-10.5
Fan	(Lo-Mid	-Hi)	L/s			108-133-1	158				117-142-175
		,	cfm			230-283-3	335				247-300-371
	External sta	atic pressure	Pa					)			
Motor	Type						1-phase indu	uction motor			
	Output		kW				0.015 (a	at 240V)			
Air filter						PP ł	noneycomb fal	oric (long life t	ype)		
Refriger	ant	Gas(Flare)	mm(in.)				ø12.7	(ø1/2)			
pipe dia	meter	Liquid(Flare)	mm(in.)				ø6.35	(ø1/4)			
Field dra	ain pipe o	liameter	mm(in.)				0.D.32	(1-1/4)			
Sound pre	ssure level	220V,240V	dB(A)			27-30-3	3				29-33-36
(Lo-Mid-Hi	) *2 *3	230V	dB(A)			28-31-3	4				30-34-37
				PLFY-P50VLMD-E	PL	FY-P63VLMD-E	PLFY-P8	0VLMD-E	PLFY-P100VLM	D-E	PLFY-P125VLMD-E
Power	source					1-phase 220-240V	50Hz / 1-pha	se 220-230V	60Hz		
		*1	kW	5.6	I	7.1	9	.0	11.2		14.0
Cooling	capacit	y *1	BTU/h	19,100		24,200	30,	700	38,200		47.800
		*1	kW	6.3		8.0	1(	0.0	12.5		16.0
Heating	) capacit	y *1	BTU/h	21,500		27,300	34,	100	42,700		54,600
Power		Cooling	kW	0.082 / 0.086		0.101 / 0.105	0.147	/ 0.156	0.157 / 0.186		0.28 / 0.28
consum	ption	Heating	kW	0.075 / 0.080		0.094 / 0.099	0.140	/ 0.150	0.150 / 0.180		0.27 / 0.27
		Cooling	А	0.41 / 0.43		0.49 / 0.51	0.72	/ 0.74	0.75 / 0.88		1.35 / 1.35
Current		Heating	А	0.35 / 0.38		0.43 / 0.46	0.66	/ 0.69	0.69 / 0.83		1.33 / 1.33
Externa	al finish	Unit					Galvanized	steel plate			
(Munse	ll No.)	Panel					Pure white (6	.4Y 8.9 / 0.4)			
Dimens	ion	Unit	mm (in.)	290 x 946 x 634 (11	-7/16 x	37-1/4 x 25)	290 x 14	146 x 634 (11	-7/16 x 56-15/16 x 2	5)	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)
HxW>	( D	Panel	mm (in.)	20 x 1250 x 710 (1	3/16 x 4	49-1/4 x 28)	20 x 1	750 x 710 (13	/16 x 68-15/16 x 28)		20 x 2010 x 710 (13/16 x 79-3/16 x 28)
N		Unit	kg(lbs.)	27 (60)		28 (62)	44	(98)	47 (104)		56 (124)
INEL WE	gni	Panel	kg(lbs.)	7.5	(17)			12.5	(28)		13.0 (29)
Heat ex	change						Cros	ss fin			
	Туре х	Quantity		Turbo	fan x 1			Turbo	fan x 2		Sirocco fan x 4
	Airflow	rate *2	m³/min	9.0-11.0-12.5	1	11.0-13.0-15.5	15.5-18	.5-22.0	17.5-21.0-25.0	C	24.0-27.0-30.0-33.0
Fan	(P50~P100	:Lo-Mid-Hi)	L/s	150-183-208		167-217-258	258-30	08-367	292-350-417		400-450-500-550
	(P125:Lo-N	lid2-Mid1-Hi)	cfm	318-388-441		353-459-547	547-65	53-777	618-742-883		848-953-1,059-1,165
	External sta	atic pressure	Ра				(	)			·
Motor	Туре						1-phase indu	uction motor			
WOLUI	Output		kW	0.020 (a	at 240V	)	0.020 (a	at 240V)	0.030 (at 240\	/)	0.078 x 2 (at 240V)
Airfilto											Synthetic fiber unwoven
All liller						PP r	ioneycomb fai	oric (long life I	(ype)		cloth filter (long life)
Refrige	rant	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)			ø15.88 (ø5/8)				
pipe dia	ameter	Liquid	mm(in.)	ø6.35 (ø1/4)				ø9.52	(ø3/8)		
Eiold de	ain nine i	(Fiare)	mm(in)				0.0.00	0 (1 1/4)	· · ·		
Sound pro		2201/2401/	dB(A)	21 24 27		22.27.20	U.D.32	. (1-1/4)	26.20.42		40.42.44.46
l a Mid L	i) *0 *0	2209,2409		31-34-37		32-31-39	33-3	00-39	30-39-42		4U-42-44-40
	") <sup>-</sup> 2 "3	2300	ub(A)	<b>১∠-</b> ১ <b>5</b> -১୪		33-30-40	34-3	7-40	37-41-43		

### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

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

\*3 It is measured in anechoic room.

# 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

	Сара	icity	P20	P25	P32	P40
Sound		High	35	37		39
pressure	Fan	Mid 1	33	3	6	37
level	Speed	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.



Indoor Unit

				PMFY-P20VBM-E PMFY-P25VBM-E PMFY-P32VBM-E PMF									
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz							
Cooling		, *1	kW	2.2	2.8	3.6	4.5						
Coomig	g capacity	′ *1	BTU/h	7,500	9,600	12,300	15,400						
Hosting		, *1	kW	2.5	3.2	4.0	5.0						
Heating	g capacity	′ *1	BTU/h	8,500	10,900	13,600	17,100						
Power		Cooling	kW	0.042	0.0	44	0.054						
consum	nption	Heating	kW	0.042	44	0.054							
Curron		Cooling	А	0.20	0.:	21	0.26						
Current	Heating A			0.20	0.20 0.21 0.26								
Externa	External finish (Munsell No.)				White (0.98	Y 8.99/0.63)							
Dimens	sion	Unit	mm(in.)		230 x 812 x 395 (9-	1/16 x 32 x 15-9/16)							
HxW	< D	Panel	mm(in.)		30 x 1000 x 470 (1-3/	16 x 39-3/8 x 18-9/16)							
Notwo	iaht	Unit	kg(lbs.)		14	(31)							
INCI WC	igin	Panel	kg(lbs.)		3	(7)							
Heat ex	kchanger			Cross fin (Aluminum plate fin and copper tube)									
	Туре				Line flow fan x 1								
	Airflow	*2	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						
Fan	(Lo-Mid2	Mid1_Hi)	L/s	108-120-133-145	122-133	-143-155	128-145-162-178						
		-10110 1-111)	cfm	230-254-283-307	258-283	-304-328	272-307-343-378						
	External sta	aticpressure	Pa		(	)							
Motor	Туре				1-phase ind	uction motor							
WOO	Output		kW		0.0	28							
Air filter	r				PP Honeyo	comb fabric							
Refrige	rant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)							
pipe dia	ameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)							
Field dr	rain 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				27-30-33-35	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.

# INDOOR UNIT Ceiling concealed type

# PEFY-P VMR-E-L/R



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.

### Easy Maintenance

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

# **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.



				PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L						
Power	source			1-pha	ase 220-230-240V 50Hz / 1-phase 220-230V	60Hz						
O a a line a		*1	kW	2.2	2.8	3.6						
	capacit	y *1	BTU/h	7,500	9,600	12,300						
		*1	kW	2.5	3.2	4.0						
Heating	) capacit	y *1	BTU/h	8,500	10,900	13,600						
Power		Cooling	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08						
consum	nption	Heating	kW	0.06 / 0.06	0.06 / 0.06	0.07 / 0.08						
_		Coolina	А	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38						
Current		Heating	А	0.29 / 0.29	0.29 / 0.29	0.34 / 0.38						
Externa	al finish				Galvanized							
Dimens	ion R	ear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)							
HXW	D B	ottom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)							
Net we	iaht		ka(lbs.)		18 (40)							
Heater	change	r		Cross fin (Aluminum fin and copper tube)								
Theat es	Type x	Quantity			Sirocco fan x 1							
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Quantity	m³/min	4 8-5	8-7.9	4 8-5 8-9 3						
	Airflow	rate	1 /s	4.0-3.	7 132	80.07.155						
Fan	(Lo-Mic	I-Hi)	C/S	170.20	-132	170 205 328						
	Extorn	al etatic	CIIII	176-20	55-219	170-203-320						
	Droccu	a static	Ра		5							
	Tupo	e 2			1 phase industion motor							
Motor	Type		14147		1-phase induction motor	0.000						
A := 64 -	Output		KVV	0.0	18 DD Use susses fabris (use bable)	0.023						
Air filter	· .				PP Honeycomb fabric (washable)							
Refrige	rant	Gas	mm(in.)		ø12.7 (ø1/2) Brazed							
pipe dia	ameter	Liquid	mm(in.)		ø6.35 (ø1/4) Brazed							
Field dr	ain pipe	diameter	mm(ın.)		O.D. 26 (1)							
Sound p	oressure	220V		20-2	5-30	20-25-33						
level (Lo	o-Mid-Hi)	230V	dB(A)	21-2	6-32	21-26-35						
	*3	240V		22-2	7-30	22-27-33						
				PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R						
Power	source			PEFY-P20VMR-E-R	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V (	PEFY-P32VMR-E-R						
Power	source	*1	kW	PEFY-P20VMR-E-R 1-pha	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8	PEFY-P32VMR-E-R 60Hz						
Power : Cooling	source I capacit	y *1 y *1	kW BTU/h	PEFY-P20VMR-E-R 1-pha 2.2 7 500	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9 600	PEFY-P32VMR-E-R 60Hz 3.6 12.300						
Power : Cooling	source capacit	y *1 y *1 *1	kW BTU/h kW	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0						
Power : Cooling Heating	source I capacit I capacit	y *1 y *1 y *1 y *1	kW BTU/h kW BTU/h	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600						
Power : Cooling Heating	source I capacit I capacit	y *1 y *1 y *1 Cooling	kW BTU/h kW BTU/h kW	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08						
Power Cooling Heating Power	source capacit capacit	y *1 *1 y *1 y *1 Cooling Heating	kW BTU/h kW BTU/h kW kW	PEFY-P20VMR-E-R 1-phr 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08						
Power Cooling Heating Power consum	source capacit capacit	y *1 *1 y *1 Cooling Heating Cooling	kW BTU/h kW BTU/h kW kW	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.06 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38						
Power Cooling Heating Power consum Current	source capacit capacit capacit	y *1 *1 y *1 Cooling Heating Cooling	kW BTU/h kW BTU/h kW kW A A	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power : Cooling Heating Power consum Current	source g capacit g capacit nption	y *1 *1 y *1 Cooling Heating Cooling Heating	kW BTU/h kW BTU/h kW kW A A A	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power : Cooling Heating Power consum Current Externa Dimens	source g capacit g capacit nption	y *1 y *1 y *1 Cooling Heating Cooling Heating	kW BTU/h kW BTU/h kW kW A A A Mm (in.)	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power Cooling Heating Power consum Current Externa Dimens	source g capacit g capacit g capacit	y *1 y *1 y *1 Cooling Heating Cooling Heating Heating	kW BTU/h kW BTU/h kW kW A A A mm (in.)	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/4)	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3	source g capacit g capacit g capacit a finish sion R G D Bo	y *1 y *1 y *1 Cooling Heating Cooling Heating ear inlet	kW BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) ko(lbs)	PEFY-P20VMR-E-R           1-phr           2.2           7,500           2.5           8,500           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-1/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40)	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net weit	source g capacit g capacit g capacit nption : al finish sion R < D Bc ight	y *1 y *1 y *1 Cooling Heating Cooling Heating ear inlet	kW BTU/h kW BTU/h kW kW A A A A mm (in.) kg(lbs.)	PEFY-P20VMR-E-R           1-phr           2.2           7,500           2.5           8,500           0.06 / 0.06           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and comper tube)	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net wei Heat ex	source g capacit g capacit g capacit al finish sion k D B gght cchange	*1 y *1 *1 Y *1 Cooling Heating Cooling Heating ear inlet	kW BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.)	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirrece fan x 1	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3 Net wei Heat ex	source g capacit g capacit g capacit nption al finish sion R c D Bo ight cchange Type x	y *1 y *1 y *1 Cooling Heating Cooling Heating ear inlet ottom inlet	kW BTU/h kW BTU/h kW kW kW A A A mm (in.) kg(lbs.)	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8 - 2.0	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 48,58,0.2						
Power : Cooling Heating Power consum Current Externa Dimens H x W 5 Net wei Heat es	source g capacit g capacit g capacit g capacit al finish ion R c D Bc ight cchanger Type x Airflow	y *1 y *1 y *1 Cooling Heating Cooling Heating ear inlet ottom inlet	kW BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.)	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 4.8-5 20 0 0	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 0.07 455						
Power : Cooling Heating Power consum Current Externa Dimens H x W 5 Net wei Heat es	source g capacit g capacit	y *1 *1 *1 y *1 Cooling Heating Cooling Heating cooling Heating cooling Heating cooling Heating Rear inlet r Quantity rate I-Hi)	kW BTU/h kW BTU/h kW KW A A A mm (in.) mm (in.) kg(lbs.) m <sup>3</sup> /min L's	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 470.02	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-1/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 *-132	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 120.020						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net wei Heat ex	source capacit g capacit g capacit g capacit g capacit signt constant g capacit g capa	y *1 *1 *1 Cooling Heating Cooling Heating Heating ear inlet tottom inlet r Quantity rate I-Hi)	kW BTU/h kW BTU/h kW kW A A A A mm (in.) mm (in.) kg(lbs.) mm (in.) kg(lbs.)	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5. 80-97 170-20	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 7-132 15-279	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net wei Heat ex	source capacit g capacit g capacit g capacit g capacit nption al finish sion R c D Bc ight cchanger Type x Airflow (Lo-Mic Externa	y *1 y *1 y *1 Cooling Heating Cooling Heating Cooling Heating ear inlet ottom inlet r Quantity rate I-Hi) al static	kW BTU/h kW BTU/h kW kW A A A Mm (in.) kg(lbs.) mm (in.) kg(lbs.) mr/min L/s Cfm	PEFY-P20VMR-E-R 1-pha 2.2 7,500 2.5 8,500 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 4.8-5 80-97 170-20	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 / 0.29 0.29 / 0.29 / 0.29 0.20 / 0.29 / 0.29 / 0.29 0.20 / 0.29	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3 Net wei Heat ex	source g capacit g capacit capacit capacit g c	y *1 y *1 y *1 Cooling Heating Cooling Heating Heating ear inlet totom inlet r Quantity rate I-Hi) al static re *2	kW BTU/h kW BTU/h kW kW kW A A A m(in.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.)	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           4.8-5.           80-97           170-20	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 / 0.29 0.20 / 0.29 / 0	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3 Net wei Heat es Fan	source capacit g capacit g capacit g capacit g capacit al finish sion R c D Bc ght change Type x Airflow (Lo-Mic Externa pressur Type	y *1 y *1 Y *1 Cooling Heating Cooling Heating Heating ear inlet totom inlet r Quantity rate I-Hi) al static re *2	kW BTU/h kW BTU/h kW kW A A A A (m) (in.) kg(lbs.) m <sup>3</sup> /min L/s cfm Pa	PEFY-P20VMR-E-R	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 7-132 15-279 5	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3 Net wei Heat es Fan	source capacit g capacit g	y *1 y *1 y *1 Cooling Heating Cooling Heating ear inlet ttom inlet r Quantity rate I-Hi) al static re *2	kW BTU/h kW BTU/h kW kW A A A Mm (in.) mm (in.) kg(lbs.) m <sup>3</sup> /min L/s cfm Pa	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           1.29 / 0.29           1.29 / 0.29           1.29 / 0.29           1.29 / 0.29           1.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V 0 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2) 18 (40) Cross fin (Aluminum fin and copper tube) Sirocco fan x 1 8-7.9 5 1-phase induction motor 18	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3 Net wei Heat ex Fan Motor	source capacit g capacit g capacit g capacit g capacit a finish ion R co gght cchange Type x Airflow (Lo-Mic Externa pressur Type Output	y *1 *1 y *1 Cooling Heating Cooling Heating cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heati	kW BTU/h kW BTU/h kW KW A A A Mm (in.) kg(lbs.) mm (in.) kg(lbs.) Mm (in.) kg(lbs.) Pa kW	PEFY-P20VMR-E-R	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 0.20 / 0.29 / 0.29 / 0.29 0.20 / 0.29 / 0.2	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net wei Heat ez Fan Motor Air filter Refrige	source capacit a capacit a capacit a capacit a finish ion R c D Bc ght cchange Type x Airflow (Lo-Mic Externa pressur Type Output rant	y *1 y *1 y *1 Cooling Heating Cooling Heating Heating ear inlet ottom inlet r Quantity rate I-Hi) al static re *2 Gas	kW BTU/h kW BTU/h kW kW A A A A Mm (in.) kg(lbs.) mm (in.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.)	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           1.100           1.100           1.100           1.100           1.100           0.29 / 0.29           170-20           0.00	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.29 / 0.29 0.29 / 0.29 Galvanized 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8) 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) 300 x 640	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net wei Heat ex Fan Motor Air filter Refrige pipe dia	source g capacit g capacit capacit capacit g capacit g capacit g capacit g capacit g c	y *1 y *1 Y *1 Cooling Heating Cooling Heating Cooling Heating ear inlet totom inlet r Quantity rate I-Hi) al static re *2 Gas Liquid	kW BTU/h kW BTU/h kW kW A A A mm (in.) mm (in.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.) kg(lbs.) kw kw	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           1.29 / 0.29           1.29 / 0.29           1.29 / 0.29           1.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R ase 220-230-240V 50Hz / 1-phase 220-230V ( 2.8 9,600 3.2 10,900 0.06 / 0.06 0.06 / 0.06 0.029 / 0.29 0.29 / 0.29 / 0.29 0.29 / 0.29 / 0.29 0.29 / 0	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023						
Power : Cooling Heating Power consum Current Externa Dimens H x W 2 Net wei Heat ex Fan Motor Air filter Refrige pipe dia Field dr	source capacit g capacit g capacit capacit capacit g capacit g capacit g capacit g cap	y *1 y *1 Y *1 Cooling Heating Cooling Heating dear inlet totom inlet r Quantity rate I-Hi) al static re *2 Gas Liquid diameter	kW BTU/h kW BTU/h kW kW A A A a (m) (n) kg(lbs.)	PEFY-P20VMR-E-R           1-pha           2.2           7,500           2.5           8,500           0.06 / 0.06           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           1.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29           0.29 / 0.29	PEFY-P25VMR-E-R           ase 220-230-240V 50Hz / 1-phase 220-230V 0           2.8           9,600           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           8-7.9           *132           15-279           5           1-phase induction motor           18           PP Honeycomb fabric (washable)           ø12.7 (ø1/2) Brazed           ø6.35 (ø1/4) Brazed           0.D. 26(1)	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023						
Power : Cooling Heating Power consum Current Externa Dimens H x W 3 Net wei Heat es Fan Motor Air filter Refrige Field dr	source capacit g capacit g capacit capacit capacit g capacit g capacit g capacit g cap	y *1 y *1 Y *1 Cooling Heating Cooling Heating Cooling Heating cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Hea	kW BTU/h kW BTU/h kW kW A A A Mm (in.) mm (in.) kg(lbs.) V kW Pa Pa kW kW Mm(in.) mm(in.)	PEFY-P20VMR-E-R	PEFY-P25VMR-E-R           ase 220-230-240V 50Hz / 1-phase 220-230V 0           2.8           9,600           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           8-7.9           7-132           25-279           5           1-phase induction motor           18           PP Honeycomb fabric (washable)           ø12.7 (ø1/2) Brazed           ø6.35 (ø1/4) Brazed           0.D. 26(1)           5-30	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023 20-25-33						
Power : Cooling Power consum Current Externa Dimens H x W 3 Net wei Heat ext Fan Motor Air filter Refrige pipe dia Field dr Sound (d	source capacit g capacit g capacit cap	y *1 y *1 Y *1 Cooling Heating Cooling Heating Cooling Heating ear inlet ottom inlet r Quantity rate I-Hi) al static re *2 Gas Liquid diameter 220V 230V	kW BTU/h kW BTU/h kW KW A A A Mm (in.) mm (in.) kg(lbs.) Kg(lbs.) F Cfm C f m k kw M m (in.) m m(in.) mm(in.) mm(in.) dB(A)	PEFY-P20VMR-E-R	PEFY-P25VMR-E-R           ase 220-230-240V 50Hz / 1-phase 220-230V (1           2.8           9,600           3.2           10,900           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           8-7.9           7-132           5           1-phase induction motor           18           PP Honeycomb fabric (washable)           ø12.7 (ø1/2) Brazed           ø6.35 (ø1/4) Brazed           0.D. 26(1)           5-30	PEFY-P32VMR-E-R 60Hz 3.6 12,300 4.0 13,600 0.07 / 0.08 0.34 / 0.38 0.34 / 0.38 4.8-5.8-9.3 80-97-155 170-205-328 0.023 0.023 20-25-33 21-26-35						

### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

 $^{\ast}2$   $\,$  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.)

# INDOOR UNIT Ceiling concealed type

# PEFY-P VMS1(L)-E



Static PressureHeightWidthWidthWidth5~50Pa200mm<br/>7-28/32lin.Low Noise790mm<br/>31-1/8in.990mm<br/>990mm1,190mm<br/>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. 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

### **PP** Honeycomb fabric

Washable PP Honeycomb fabric filter as standard

									dB(A)
	Сара	city	P15	P20	P25	P32	P40	P50	P63
Sound		High	28	29	30	32	33	35	36
Level	Fan Speed	Mid	24	25	26	27	30	32	33
	2,000	Low	22	23	24	24	28	30	30

Indoor Unit

				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	9				1-phase 220-24	0V 50Hz / 1-phase	220-240V 60Hz		
Cooling		*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Cooling	y capac	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200
Heating		*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Tieaunų	y capai	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300
Power	*3	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]
consun	nption	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]
Curron	+ *3	Cooling	А	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]
Curren		Heating	А	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]
Extern	al finis	h					Galvanized			
Dimen	sion		mm		200 x 79	90 x 700		200 x 99	90 x 700	200 x 1,190 x 700
HxW	хD		ln.		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 w	eight	*3	kg(lbs.)		19(42) [18(40)]		20(45) [19(42)]	24(53)	[23(51)]	28(62) [27(60)]
Heat e	xchang	er				Cross fin (A	Aluminium fin and co	opper tube)		
	Туре х	Quantity			Sirocco	fan x 2		Sirocco	fan x 3	Sirocco fan x 4
	Airflow	, rata	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
Fan			L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275
	(LO-IVI	iu-ni)	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			
WOO	output		kW				0.096			
Air filter						PP Hor	neycomb fabric (was	shable)		
Refrigerant	Gas		mm(in.)			Ø	12.7 (ø1/2) Braze	d		ø15.88 (ø5/8) Brazed
pipe diameter	Liquid		mm(in.)			e	6.35 (ø1/4) Braze	d		ø9.52 (ø3/8) Brazed
Field dr	ain pipe	diameter	mm(in.)				O.D. 32 (1-1/4)			
Sound p	oressure	e level								
(Lo-Mid-Hi)		dB <a></a>	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36	
(mesured in anechoic room		hoic room)								

Notes:

<sup>\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor : 27°CD.B./19°CW.B. (81°FD.B. / 66°FW.B.) Outdoor : 35°CD.B. (95°FD.B. ) Heating : Indoor : 20°CD.B. (68°FD.B.) Outdoor : 7°CD.B. / 6°CW.B. (45°FD.B. / 43°FW.B.) Pipe length : 7.5m (24-9/16ft) Height difference : 0m (0ft)

<sup>\*2</sup> The external static pressure is set to 15 Pa at factory shipment.

<sup>\*3 [ ]</sup> is in case of PEFY-P15-63VMS1L-E

# INDOOR UNIT Ceiling Concealed Type

# PEFY-P VMA(L)-E PEFY-P VMA3-E



Middle Static Pressure 35~150Pa 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.



PEFY-P	/MA(L)	20	25	32	40	50	63	71	80	100	125	140
Height	mm						250					
Width	mm		700		90	0	1	1,100		1,4	100	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	/50/7	0/100	0/150	Pa			

# Air Inlet (1) Rear inlet (2) Bottom inlet Air inlet Air outlet Air outlet

\* 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 VMAL-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.



				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	g capaci	ity *1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
(Nomin	al)	*2	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating	g capac	ty *2	kW	2.5	3.2	4.0	5.0	6.3	8.0	
(Nomin	al)	*3	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power	C	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]	
consum	ption H	leating *3	kW	0.04	0.04	0.05	0.07	0.09	0.10	
Current	t C	Cooling *3	<u>A</u>	0.53 [0.42]	0.53 [0.42]	0.55 [0.44]	0.64 [0.53]	0.74 [0.63]	1.01 [0.90]	
Eutomo	H	leating	A	0.42	0.42	0.44	0.53	0.63	0.90	
Externa	ai iinisn		<b>mm</b>	250 x 700 x 722	250 x 700 x 722	Gaivanized		250 x 000 x 722	250 x 1 100 x 722	
Dimens	sion H :	xWxD	in	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	
Not woi	iaht		ka(lbs)	23 (51) [22 (40)]	23 (51) [22 (40)]	23 (51) [22 (40)]	26 (58) [25 (56)]	26 (58) [25 (56)]	32 (71) [31(69)]	
Heat ex	change	er	Kg(ID3)	20 (01) [22 (40)]	20 (01) [22 (40)]	Cross fin (Aluminum	fin and conner tube)	20 (00) [20 (00)]	02 (11) [01(00)]	
110410/	Type x	x Quantity				Sirocco fan x 1	in and copper tabe)		Sirocco fan x 2	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		m³/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0	12.0 - 14.5 - 17.0	13.5 - 16.0 - 19.0	
_	Airflow	v rate	L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283	225 - 267 - 317	
Fan	(Low-N	Mid-High)	cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600	477 - 565 - 671	
	Extern	nal static	D-							
	pressu	ure *4	Ра	<20> - <35> - 50 - 0 - <100> - <150>	<20> - <35> - 50 - 0 - <100> - <150>	<20> - <35> - 50 - 0 - <100> - <150>	<20> - <35> - 50 - <70> - <100> - <150>	<20> - <35> - 50 - 0 - <100> - <150>	<20> - <35> - 50 - 0 - <100> - <150>	
Motor	Туре					DC r	notor			
WOU	Output	ıt	kW	0.085	0.085	0.085	0.085	0.085	0.121	
Air filter	r					PP honeyc	omb fabric.	r		
Refrigera	ant Li	iquid (R410A)	mm(in.)	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	9.52 (3/8) Brazed	
pipe diar	neter G	Gas (R410A)	mm(in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
Field dr	ain pipe	e 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	pressur	re level (m	easured in	anechoic room)						
Low-M	lid-High	1) *3 *5	dB(A)	26-28-29	26-28-29	28-30-34	28-30-34	28-32-35	29-32-36	
		*3 *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	
Powers	source	*1		PEFY-P71VMA(L)-E	PEFY-P80VMA(L)-E	PEFY-P100VMA(L)-E 1-phase 220-230	PEFY-P125VMA(L)-E 0-240V 50 / 60Hz	PEFY-P140VMA(L)-E	PEFY-P20VMA3-E	
Power : Cooling	source capaci	*1 sity *1	kW	PEFY-P71VMA(L)-E 8.0	PEFY-P80VMA(L)-E 9.0	PEFY-P100VMA(L)-E 1-phase 220-230 11.2	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0	PEFY-P140VMA(L)-E 16.0	PEFY-P20VMA3-E 2.2	
Powers Cooling (Nomin	source g capaci al)	*1 bity *1 *2	kW BTU/h	PEFY-P71VMA(L)-E 8.0 27,300	PEFY-P80VMA(L)-E 9.0 30,700	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200	PEFY-P125VMA(L)-E )-240V 50 / 60Hz 14.0 47,800	PEFY-P140VMA(L)-E 16.0 54,600	PEFY-P20VMA3-E 2.2 7,500	
Powers Cooling (Nomin Heating	source g capaci al) g capac	*1 ity *1 *2 ity *2	kW BTU/h kW	PEFY-P71VMA(L)-E 8.0 27,300 9.0	PEFY-P80VMA(L)-E 9.0 30,700 10.0	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5	PEFY-P125VMA(L)-E 0-240V 50 / 60Hz 14.0 47,800 16.0	PEFY-P140VMA(L)-E 16.0 54,600 18.0	PEFY-P20VMA3-E 2.2 7,500 2.5	
Power s Cooling (Nomin Heating (Nomin	source g capaci al) g capac al)	*1 ity *1 *2 ity *2 *3	kW BTU/h kW BTU/h	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700	9.0 9.0 30,700 10.0 34,100	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500	
Powers Cooling (Nomin Heating (Nomin Power	source g capaci al) g capac al) C	*1 ity *1 *2 ity *2 *3 cooling *3	kW BTU/h kW BTU/h kW	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12]	9.0 30,700 10.0 34,100 0.14 [0.12]	PEFY-P100VMA(L)-E 1-phase 220-23( 11.2 38,200 12.5 42,700 0.24 [0.22]	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32]	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34]	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110	
Power s Cooling (Nomin Heating (Nomin Power consum	source g capaci al) g capac al) ption H	*1 tity *1 *2 tity *2 *3 Cooling *3 Reating *3	kW BTU/h kW BTU/h kW kW	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 0.12	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 0.12	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 0.22	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 0.32	PEFY-P140VMA(L)-E 16.0 54.600 18.0 61,400 0.36 [0.34] 0.34	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090	
Power s Cooling (Nomin Heating (Nomin Power consum Current	source g capaci al) g capac al) Capac al) Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci	*1 tity *1 *2 tity *2 *3 Cooling *3 leating *3 cooling *3	kW BTU/h kW BTU/h kW kW A	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04]	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04]	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36]	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94]	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10]	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90	
Power s Cooling (Nomin Heating (Nomin Power consum Current	source g capaci al) g capac al) C ption H H t C H	*1 tity *1 *2 tity *2 *3 cooling *3 leating *3 leating *3	kW BTU/h kW BTU/h kW kW A A A	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 0.24 prices	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa	source g capaci al) g capac al) capac al) C ption H H al finish	*1 tity *1 *2 tity *2 *3 cooling *3 leating *3 leating *3	kW BTU/h kW BTU/h kW kW A A A	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 ± 4.400 ± 722	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 4 400 x 720	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 / 4.400 + 722	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 2.50 ± 4.600 ± 722	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens	source g capaci al) g capac al) ption H t C H al finish sion H	*1 ity *1 *2 ity *2 *3 cooling *3 leating *3 cooling *3 leating x W x D	kW BTU/h kW BTU/h kW kW A A A Mm	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 0.7/9 x 42 E/45 x 92 7/9	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 0.7% x 42 5145 x 78 78	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 0.702 x 1,400 x 732	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 0.70 × 55 40 x 29 79	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 0.7(2 x 62 x 28 7(2))	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 x 900 x 732 0.7% x 25 7/6 x 28 7/9	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens	source g capaci al) g capac al) g capac al) t C H H al finish sion H 2	*1 ity *1 *2 ity *2 *3 cooling *3 leating *3 leating *3 x W x D	kW BTU/h kW BTU/h kW kW A A A mm in. kr((bs)	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)]	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)]	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanized 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) (41 (91))	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) (41 (91))	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)]	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.90 0.79 250 x 900 x 732 9-7/8 x 35-7/16 x 28-7/8	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei	source g capaci al) g capac al) cal) t t c H al finish sion H sion H	*1 *1 *2 2 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 3 2 2 3 2 3 2 2 3 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 2 3 2 2 2 3 2 2 2 3 2 2 2 2 3 2 2 2 2 2 3 2 2 2 3 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	kW BTU/h kW BTU/h kW kW A A A A mm in. kg(lbs)	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)]	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)]	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanized 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum)	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and concert tube)	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)]	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60)	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex	source capacial) capac al) capac al) t t t t t t t t t t t t t t t t t t t	*1 itty *1 *2 itty *2 *3 icooling *3 icooling *3 i	kW BTU/h kW BTU/h kW kW A A A A mm in. kg(lbs)	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)]	PEFY-P80VMA(L)-E 9.0 10.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)]	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirroco fan x 2	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube)	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)]	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 x 900 x 732 9-7/8 x 35-7/16 x 28-7/8 27(60) Sinocco fan x 1	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex	source al) capaci al) capac al) t t t t t t t t t t t t t t t t t t t	*1 *2 ity *1 *2 ity *2 *3 icooling *3 leating *3 leating *3 vooling *3 leating *	kW BTU/h kW BTU/h kW kW A A A M mm in. kg(lbs)	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0	PEFY-P100VMA(L)-E 1-phase 220-23( 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanized 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 isteel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0	PEFY-P140VMA(L)-E 16.0 54.600 18.0 61.400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 x 900 x 732 9-7/8 x 35-7/16 x 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex	source capacial) g capac al) g capac al) t C H t C H al finish sion H sion H sion H cchange Type x	*1 ity *1 *2 ity *2 *3 cooling *3 leating *3 leating *3 keating *3 x W x D er x W x D er x Quantity v rate	kW BTU/h kW BTU/h kW kW A A A M m M in. kg(lbs) m <sup>3</sup> /min L/s	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350	PEFY-P100VMA(L)-E 1-phase 220-23( 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanized 250 x 1,40 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0,110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex	source capacial) capacial) capacial) constant call finish t C H t H t C H t H t C t H t A t finish t t t t t t t t t t t t t t t t t t t	*1 ity *1 2 ity *2 *3 itooling *3 iteating *3 iteating *3 iteating *3 iteating *3 iteating *3 iteating *3 x W x D er x Quantity v rate Mid-High)	kW BTU/h kW BTU/h kW kW A A A M mm in. kg(lbs) m <sup>3</sup> /min L/s cfm	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1.165	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1.201 - 1.412	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1.042 - 1.254 - 1.483	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 x 900 x 732 9-7/8 x 35-7/16 x 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex	source g capaci al) g capac al) g capac al) t t H al finish sion H 3 ight kchange Type × Airflow (Low-N Extern	*1 ity *1 2 ity *2 *3 ieating *3 ieating *3 ieating *3 kating kating *3 kating kating	kW BTU/h kW BTU/h kW kW A A A A mm in. kg(lbs) m³/min L/s cfm	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 x 900 x 732 9.7/8 x 35-7/16 x 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex	source g capacial) g capac al) g capac al) g capac al) g capac al) G t H C H H al finish sion H 2 ight cchange Type x Airflow (Low-ft Extern pressu	*1 ity *1 *2 ity *2 *3 cooling *3 leating *3 leating *3 leating *3 eating *3 eating *3 eating *3 eating *3 volume *4	kW BTU/h kW BTU/h kW kW A A A A Mm in. kg(lbs) m³/min L/s cfm Pa	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 × 1,100 × 732 9.7/8 × 43-5/16 × 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D>-⊲D>-50-	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⟨D>-⟨S>-50-<⟨D>-⟨ID>-⟨ID>-⟨ID>-⟨ID>-⟨ID>-⟨ID>-⟨ID>-⟨	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D⊲D-50-00-<100-<150-	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <\$\$>-50 - <10> - <125>	
Power : Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex Fan	source g capaci al) g capac al) C C C H t C H H al finish t C H H H C C H H C C H H H C C H H H C H H C C H H H C C H H H C	*1 *2 itty *1 *2 itty *2 *3 itooling *3 iteating *	kW BTU/h kW BTU/h kW kW A A A mm in. kg(lbs) m³/min L/s cfm Pa	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 <∅→<𝔅>-𝔅>-𝔅>-𝔅>	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D-⊲S> 50 - √D - <0D - <5D	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 ⊴D- <50 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 - <00 -	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412 ⊲D→-⊲D→-⊲D→-⊲D→-⊲D→-⊲D→ notor	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D - ⊲S - 50 - √D - <100 - <150	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <35 - 50 - <70 - <100 - <125	
Power : Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex Fan	source g capacial) g capac al) g capac al) C Chapter H d finish al finish al finish Type x Airflow (Low-N Extern press) Cutpu Outpu	*1 *2 ity *1 *2 ity *2 *3 icoling *3 icoling *3	kW BTU/h kW BTU/h kW kW A A A mm in. kg(lbs) m³/min L/s cfm Pa kW	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 <∞	PEFY-P80VMA(L)-E 9.0 10.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 × 1,100 × 732 9-7/8 × 43-5/16 × 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 <	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 <	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 i steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D - ⊲SD - 50 - √D - <10D - <15D	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <\$⊳-\$0-<70> <10> <12> 0.085	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex Fan Motor Air filter	source g capacial) g capacial) g capacial) g capacial ption H t Change Type x Airflow (Low-P Extern Type Outpur	*1 *2 ity *1 *2 ity *2 *3 icoling *3 ieating *3	kW BTU/h kW BTU/h kW kW A A A mm in. kg(lbs) m <sup>3</sup> /min L/s cfm Pa kW	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D - ⊲S - 50 - <td -="" <10d="" <15d<br="">0.121</td> <td>PEFY-P80VMA(L)-E 9.0 10.0 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 × 1,100 × 732 9-7/8 × 43-5/16 × 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D - ⊲S - 50 - ⊲TD - &lt;10D - &lt;15D 0.121</td> <td>PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizeo 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 ⊲DC r 0.244 PP honeyc</td> <td>PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412 ⊲D - 35-50 - 4D - &lt;150- notor 0.244 omb fabric.</td> <td>PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 × 1,600 × 732 9-7/8 × 63 × 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D - ⊲S - 50 - ⊲D - &lt;10 - &lt;150</td> <td>PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan × 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 &lt;35&gt;-50 - &lt;70&gt; - &lt;10&gt; - &lt;12&gt; 0.085</td>	0.121	PEFY-P80VMA(L)-E 9.0 10.0 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 × 1,100 × 732 9-7/8 × 43-5/16 × 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D - ⊲S - 50 - ⊲TD - <10D - <15D 0.121	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizeo 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 ⊲DC r 0.244 PP honeyc	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412 ⊲D - 35-50 - 4D - <150- notor 0.244 omb fabric.	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 × 1,600 × 732 9-7/8 × 63 × 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D - ⊲S - 50 - ⊲D - <10 - <150	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan × 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <35>-50 - <70> - <10> - <12> 0.085
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex Fan Motor Air filter Refrigera	source g capacial) g capaca al) C ption H t t C H H H H H H H H H H H H H H H H	*1 *2 ity *1 *2 ity *2 *3 icooling *3 leating *3 leating *3 leating *3 leating *3 leating *3 eating *3 eating *3 eating *3 eating *3 leating *3 l	kW BTU/h kW BTU/h kW kW A A A A M mm in. kg(lbs) m <sup>3</sup> /min L/s cfm Pa R W Mm(in.)	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D⊲S-50-  -   0.121   9.52 (3/8) Brazed	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D - ⊲S - 50 - ⊲D - <10 - <150 0.121 9.52 (3/8) Brazed	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 ≪D - 45>-50-470-400-450 D C r 0.244 PP honeycc 9.52 (3/8) Brazed	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 istel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412 ⊲D→-⊲S→-⊲D→-⊲D→-<15⊅ notor 0.244 omb fabric. 9.52 (3/8) Brazed	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D⊲\$>-50√D<10D<15D 0.244 9.52 (3/8) Brazed	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <35> - 50 - <7▷ - <10▷ - <12▷ 0.085 6.35 (1/4)Flare	
Power s Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex Fan Motor Air filter Refrigera pipe diar	source g capacial) g capacal al) g capacal capacal g capacal H t t t t t t t t t t t t t t t t t t	*1 ity *1 *2 ity *2 *3 cooling *3 leating *3 cooling *3 leating *3 leating *3 leating *3 kating *3 leating *3 kating *3 kating *3 kating *3 leating *3 kating *	kW BTU/h kW BTU/h kW kW A A A A A A A A A A C A A A A A A A A	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D⊲S-50-√D⊲DD⊲SD 0.121 9.52 (3/8) Brazed 15.88 (5/8) Brazed	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D - ⊲S - 50 - √D - ⊲(D) - ⊲(S) 0.121 9.52 (3/8) Brazed 15.88 (5/8) Brazed	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanized 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 ⊲D - 400 - <50 812 - 989 - 1,165 ⊲D - 400 - <50 D C r 0.244 PP honeycc 9.52 (3/8) Brazed 15.88 (5/8) Brazed	PEFY-P125VMA(L)-E -240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 isteel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 2.10 250 x 1,600 x 732 9-7/8 x 63 x 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D - ⊲S - 50 - √D - ⊲(D) - ⊲(S) 0.244 9.52 (3/8) Brazed 15.88 (5/8) Brazed	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0,110 0,090 0,90 0,90 0,79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <35- 50 - <70- <100- <125- 0.085 6.35 (1/4)Flare 12.7 (1/2)Flare	
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Power S Cooling (Nomin Heating (Nomin Power consum Current Externa Dimens Net wei Heat ex Fan Motor Air filter Refrigera pipe diar Field dir Sound (Low-M	source g capacial) g capac al) g capac al) g capac al capacial d finish al finish al finish al finish al finish al finish Airflow (Low-N Free ant Li meter G ain pipe pressur g capac al)	*1 *1 *2 ity *1 *2 ity *2 *3 ity *2 *3 ity *2 *3 itooling *3 ieating *3 ieating *3 ieating *3 ieating *3 *3 ieating *3 *3 *4 *4 *4 *4 ity *2 *4 ity *2 *3 isy *3 isy *3 i	kW BTU/h kW BTU/h kW kW A A A Mm in. kg(lbs) mm in. kg(lbs) ms/min L/s cfm Pa kW mm(in.) mm(in.) easured in dB(A)	PEFY-P71VMA(L)-E 8.0 27,300 9.0 30,700 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 (20-35)-50-70- (10)- (10)- (12) 0.121 9.52 (3/8) Brazed 15.88 (5/8) Brazed 0.122 (1-1/4) anechoic room) 30-34-38	PEFY-P80VMA(L)-E 9.0 30,700 10.0 34,100 0.14 [0.12] 0.12 1.15 [1.04] 1.04 250 x 1,100 x 732 9-7/8 x 43-5/16 x 28-7/8 32 (71) [31 (69)] 14.5 - 18.0 - 21.0 242 - 300 - 350 512 - 636 - 742 ⊲D→ ⊲D→ 100 - <5D→ 0.121 9.52 (3/8) Brazed 15.88 (5/8) Brazed 0.D.32 (1-1/4) 30-34-38	PEFY-P100VMA(L)-E 1-phase 220-230 11.2 38,200 12.5 42,700 0.24 [0.22] 0.22 1.47 [1.36] 1.36 Galvanizec 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] Cross fin (Aluminum Sirocco fan x 2 23.0 - 28.0 - 33.0 383 - 467 - 550 812 - 989 - 1,165 ≪DC r 0.244 PP honeyc 9.52 (3/8) Brazed 15.88 (5/8) Brazed 0.D.32 (1-1/4) 32-37-41	PEFY-P125VMA(L)-E →240V 50 / 60Hz 14.0 47,800 16.0 54,600 0.34 [0.32] 0.32 2.05 [1.94] 1.94 steel plate 250 x 1,400 x 732 9-7/8 x 55-1/8 x 28-7/8 42 (93) [41 (91)] fin and copper tube) 28.0 - 34.0 - 40.0 467 - 567 - 667 989 - 1,201 - 1,412 <2(D - 3(2) - 5(0) - (10) - (15)) notor 0.244 omb fabric. 9.52 (3/8) Brazed 15.88 (5/8) Brazed 0.D.32 (1-1/4)	PEFY-P140VMA(L)-E 16.0 54,600 18.0 61,400 0.36 [0.34] 0.34 2.21 [2.10] 250 × 1,600 × 732 9-7/8 × 63 × 28-7/8 46 (102) [45 (100)] 29.5 - 35.5 - 42.0 492 - 592 - 700 1,042 - 1,254 - 1,483 ⊲D35 - 50 - √D - <100 - <150 0.244 9.52 (3/8) Brazed 15.88 (5/8) Brazed O.D.32 (1-1/4) 36-41-45	PEFY-P20VMA3-E 2.2 7,500 2.5 8,500 0.110 0.090 0.90 0.79 250 × 900 × 732 9-7/8 × 35-7/16 × 28-7/8 27(60) Sirocco fan x 1 12.0 - 14.5 - 17.0 200 - 242 - 283 424 - 512 - 600 <35- 50 - √70 - <105 - <125> 0.085 6.35 (1/4)Flare 12.7 (1/2)Flare O.D.32 (1-1/4) 30-35-39	

### Notes:

- \*1
- \*2
- \*3 \*4
- \*5
- Nominal cooling conditions Indoor:  $27^{\circ}$ ( $81^{\circ}F$ )DB/ $19^{\circ}$ C( $66^{\circ}F$ )WB, Outdoor:  $35^{\circ}$ C( $95^{\circ}F$ )DB Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.) Nominal heating conditions Indoor:  $20^{\circ}$ ( $268^{\circ}F$ )DB, Outdoor:  $7^{\circ}$ C( $45^{\circ}F$ )DB/ $6^{\circ}$ C( $43^{\circ}F$ )WB Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.) The values are measured at the rated external static pressure. The rated external static pressure is shown without < >.The factory setting is the rated value. 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. 1.5m
  - Measurement location
- \*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.



- \* [] 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. \*



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



## High static pressure of 200 Pa

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

PEFY-P	VMH-E2	P40	P50	P63	P71	P80	P100	P125	P140
External static	220V				50/10	0/200			
pressure (Pa)	230/240V				100/18	50/200			

# Reduced noise thanks to the use of newly designed centrifugal fan

Sound pressure level table (Standard static pressure 220V)

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

### **IT terminal**

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

### **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.



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

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



mm (in.)



				PEFY-P40VMH-E2	PEFY-P50VMH-E2	PEFY-P63VMH-E2	PEFY-P71VMH-E2			
Power	source			4.5	1-phase 220-240V 50Hz	/ 1-phase 220-240V 60Hz				
Caslin		*1	kW	15,400	5.6	7.1	8.0			
Cooliné	y capacit	y *1	BTU/h	5.0	19,100	24,200	27,300			
11		*3	kW	17,100	6.3	8.0	9.0			
Heating	g capacit	y *3	BTU/h		21,500	27,300	30,700			
Power	*2	Cooling	kW	0.190 / 0.230	0.190/0.230	0.240/0.300	0.260/0.330			
consun	nption	Heating	kW	0.190 / 0.230	0.190/0.230	0.240/0.300	0.260/0.330			
0	*2	Cooling	Α	0.88 / 1.06	0.88/1.06	1.12/1.38	1.20/1.51			
Curren	τ	Heating	Α	0.88 / 1.06	0.88/1.06	1.12/1.38	1.20/1.51			
Externa	al finish				Galvanized	I steel plate				
			mm	380 x 745 x 900	380 x 745 x 900	380 x 745 x 900	380 x 1,030 x 900			
Dimens	sion H x	WxD	in.	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 40-9/16 x 35-7/16			
Net we	ight		kg(lbs.)	42 (93)	42 (93)	43 (95)	57 (126)			
Heat e	xchange	r			Cross fin (Aluminum pla	ate fin and copper tube)				
	Туре х	Quantity			Sirocco fan x 1		Sirocco fan x 2			
			m³/min	10.0 - 14.0	10.0 - 14.0	13.5 - 19.0	15.5 - 22.0			
_	AITIOW	rate	L/s	167 - 233	167 - 233	225 - 317	258 - 367			
Fan	(LO-HI)		cfm	353 - 494	353 - 494	477 - 671	547 - 777			
*4	External static	220V	Pa		<50> 10	0 <200>				
	pressure	230,240V	Ра		<100> 1	50 <200>				
	Туре				1-phase ind	uction motor				
Motor	Output		kW	0.130	0.130	0.180	0.230			
Air filte	r (option	)		Synthe	tic fiber unwoven cloth filter (long l	life filter) and filter box are recomm	ended.			
Refrige	erant	Gas	mm(in.)	12.7 (1/2)Brazed	12.7 (1/2)Brazed	15.88 (5/8)Brazed	15.88 (5/8)Brazed			
pipe di	ameter	Liquid	mm(in.)	6.35 (1/4)Brazed	6.35 (1/4)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed			
Field dr	ain pipe	diameter	mm(in.)		O.D. 32	2 (1-1/4)				
Sound	pressure	220V	dB(A)	27-34	27-34	32-38	32-39			
level (L	o-Hi) *2	230,240V	dB(A)	31-37	31-37	36-41	35-41			
				PEFY-P80VMH-E2	PEFY-P100VMH-E2	PEFY-P125VMH-E2	PEFY-P140VMH-E2			
Power	source				1-phase 220-240V 50Hz	/ 1-phase 220-240V 60Hz				
		*1	kW	9.0	11.2	14.0	16.0			
Cooling	g capacit	y *1	BTU/h	30,700	38,200	47.800	54,600			
		*3	kW	10.0	12.5	16.0	18.0			
Heating	g capacit	y *3	BTU/h	34,100	42.700	54.600	61,400			
Power	*2	Cooling	kW	0.320/0.400	0.480/0.580	0.480/0.580	0.480/0.590			
consur	notion	Heating	kW	0.320/0.400	0.480/0.580	0.480/0.580	0.480/0.590			
	*2	Coolina	А	1.47/1.83	2.34/2.66	2.34/2.66	2.35/2.70			
Curren	t	Heating	Α	1.47/1.83	2.34/2.66	2.34/2.66	2.35/2.70			
Externa	al finish	<u> </u>			Galvanized	steel plate				
			mm	380 x 1,030 x 900	380 x 1,195 x 900	380 x 1,195 x 900	380 x 1,195 x 900			
Dimens	sion H x	WxD	in.	15 x 40-9/16 x 35-7/16	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16			
Net weight kg(lb				57 (126)         66 (146)         66 (146)         68 (150)						
Heat exchanger				Cross fin (Aluminum plate fin and copper tube)						
Type x Quantity					Sirocco	fan x 2				

26.5 - 38.0

442 - 633

936 - 1,342

0.400

15.88 (5/8)Brazed

9.52 (3/8)Brazed

34-42

38-44

26.5 - 38.0

442 - 633

936 - 1,342

0.400

15.88 (5/8)Brazed

9.52 (3/8)Brazed

34-42

38-44

<50> 100 <200>

<100> 150 <200>

1-phase induction motor

Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended

O.D. 32 (1-1/4)

Notes:

m³/min

L/s

cfm

Ра

Ра

kW

mm(in.)

mm(in.)

dB(A)

Airflow rate

\*4 External static 220V

230,240V

Gas

pipe diameter Liquid mm(in.)

level (Lo-Hi) \*2 230,240V dB(A)

(Lo-Hi)

pressure

Type Output

Field drain pipe diameter

Sound pressure 220V

Air filter (option)

Refrigerant

Fan

Motor

18.0 - 25.0

300 - 417

636 - 883

0.230

15.88 (5/8)Brazed

9.52 (3/8)Brazed

35-41

38-43

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

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

\*3 Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

\*4 The factory setting of external static pressure is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

28.0 - 40.0

467 - 667

989 - 1,412

0.400

15.88 (5/8)Brazed

9.52 (3/8)Brazed

34-42

38-44

# INDOOR UNIT Ceiling concealed type PEFY-P VMH(S)-E



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	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250			
	220V	50/100/200											
External static	230/240V			1	100/15	50/200	)						
pressure (Pa)	380V											110/	220
(* -/	400/415V									130/	260		

PEFY-P VMHS-E	P200	P250	
External static pressure (Pa)	<50>-<100>-150	0-<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	Сара	city	P40	P50	P63	P71	P80	P100	P125	P140
pressure	Fan Speed	High	34	34	38	39	41	42	42	42
Level		Low	27	27	32	32	35	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.





				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 220-24	0V 60Hz	1	
Cooling	a capacit	*1 v	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
	BIU/h		BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600
Heating capacity *1 BTU/		kW DTU/b	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
Bower		Cooling	BTU/II	0.19	21,500	27,300	30,700	0.32/0.40	42,700	0.58	61,400
consum	nntion	Heating	kW	0.19	0.23	0.24 / 0.30	0.26 / 0.33	0.32/0.40	0.48	/ 0.58	0.48/0.59
		Cooling	A	0.88	1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70
Current	t	Heating	А	0.88	1.06	1.12 / 1.38	1.20 / 1.51	1.47 / 1.83	2.34	/ 2.66	2.35 / 2.70
Externa	al finish						Galva	nized			
Dimons	sion H v	WVD	mm		380 x 750 x 900		380 x 1,0	000 x 900		380 x 1,200 x 900	)
Dimens		WXD	in.	15	x 29-9/16 x 35-7	/16	15 x 39-3/8	3 x 35-7/16	15	5 x 47-1/4 x 35-7/	16
Net wei	ight		kg(lbs.)		41 (91)		50 (	111)	65 (	144)	67 (148)
Heat ex	change	r Ouentitu				Cross	fin (Aluminum pla	ate fin and coppe	r tube)	Siroooo fon y 2	
	Type x	Quantity	m³/min	10.0	14.0	13 5 10 0	15 5-22 0	18.0-25.0	26.5	-38.0	28 0 40 0
	Airflow	rate	1/s	167	233	225-317	258-367	300-417	442	-633	467-667
Fan	(Lo-Hi)		cfm	353	494	477-671	547-777	636-883	936-	1342	989-1413
	External static	220V	Pa				50 · 10	0 · 200			
	pressure *2	230,240V	Pa				100 · 1	50 · 200			
Motor	Туре						1-phase ind	uction motor			
motor	Output	*3	kW	0.	08	0.12	0.14	0.18		0.26	
Air filter	r (option	)				Synth	ethic fiber unwov	en cloth filter (lor	ng life)		
Defiles		(Elaro)	mm(in.)	ø12.7	(ø1/2)			ø15.8	8 (ø5/8)		
Refrige	rant	(Fiare)									
hihe die	ameter	(Flare)	mm(in.)	ø6.35	(ø1/4)			ø9.52	(ø3/8)		
Field dra	ain pipe	diameter	mm(in.)				O.D. 32	2 (1-1/4)			
Sound p	oressure	220V	dB(A)	27-	-34	32-38	32-39	35-41		34-42	
level (Lo	o-Hi) *6	230,240V	dB(A)	31	-37	36-41	35-41	38-43		38-44	
_											
				PEFY-P2	00VMH-E	PEFY-P2	50VMH-E	PEFY-P200VMHS-E PEFY-P250VMHS-E			
Powers	source			3-phas	e 380-415V 50H	z / 3N ~ 380-415V 60Hz		1-phase 220-240V 50Hz		/ 1-phase 220-240V 60Hz	
Cooling	g capacit	^1 У ∗1	kW	22.	4	28	28.0		22.4		8.0
		*1		70,4	00	31.5		25.0		31.5	
Heating	g capacit	ty ∗1	BTU/h	85 300		107 500		85 300		107.500	
Power		Cooling	kW	0.99 / 1.14		1.23 / 1.41		0.63 *7		0.82 *7	
consum	nption	Heating	kW	0.99 /	1.14	1.23	/ 1.41	0.63 *7		0.	.82 *7
	Cooling	380-415V	А	1.62 /	1.86	2.00	/ 2.30				_
Current	Cooming	220-230-240V	A	-		-	-	3.47-3.32-3.18 *7		4.72-4	.43-4.14 *7
ouncil	Heating	380-415V	A	1.62 /	1.86	2.00	/ 2.30	-	-		_
-		220-230-240V	A	-	Calva	-	-	3.47-3.3	32-3.18 *7	4.72-4.43-4.14 *7	
Externa	ai tinisn		mm	Galvanized			470 x 1,250 x 1,120				
Dimens	sion H x	WxD	in	18-9/16 x 49-1/4 x 44-1/8			18-9/16 x 49-1/4 x 44-1/8				
Net wei	iaht		ka(lbs.)	100 (221)			97 (214) 100 (221)				
Heat ex	kchange	r	0( )	Cross fin (Aluminum plate fin and copper tube)			r tube)	Cross fin (Aluminum plate fin and copper tube)			
	Туре х	Quantity			Sirocco	fan x 2		Sirocco fan x 2			
			m³/min	58.	0	72	2.0	-	-		-
	Airflow	rate	L/s	96	7	12	200	-	-		-
			cfm	204	8	25	643	-	-	50.07	-
Ean		Lo Mid Hi	m³/min					50.0-61	.0-72.0	58.0-7	1.0-84.0
Fall			cfm	-		-	_	1766-21	54-2542	2048-24	507-2966
		380V	Pa		110	· 220 *4		1700 21			2000
	External static	400,415V	Pa		130	· 260 *4			-	_	
	pressure		Ра		-	-			<50>-<100>-15	60-<200>-<250>	*8
mn		mmH₂O		-	-		<5.1>-<10.2>-15.3-<20.4>-<25.5> *8				
Motor			3-phase ind	uction motor			DC r	notor			
	Output		kW	0.7	6 *5	1.	08 *5	3.0	37	0.	.87
Air filter	r(option)	Cas		Syntr	ethic fiber unwov	en cioth filter (Ion	ig life)	Synthethic fiber unv	voven cloth filter (long	life filter) and filter bo	x are recommended.
Pofrigo	rant	(Brazing)	mm(in.)	ø19.05	(ø3/4)	ø22.2	(ø7/8)	ø19.05	(ø3/4)	ø22.2	(ø7/8)
nine dia	ameter	Liquid									
p.p0 010		(Brazing)	mm(in.)		ø9.52	(ø3/8)			ø9.52	(ø3/8)	
Field dra	ain pipe	diameter	mm(in.)		O.D. 32	2 (1-1/4)			O.D. 32	2 (1-1/4)	
Sound	ressure	380V	dB(A)	42 (110Pa) /	45 (220Pa) *6	50 (110Pa)	/ 52 (220Pa) *6		-		_
level		400,415V	dB(A)	44 (130Pa) /	47 (260Pa) *6	52 (130Pa)	/ 54 (260Pa) *6	-	-		-
		Lo-Mid-Hi	dB(A)			-	_	36-3	9-43 *9	39-4	12-46 *9

### Notes:

\*1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB19°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.

# INDOOR UNIT Fresh Air Intake Type

# PEFY-P VMH-E-F





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%).



<sup>&</sup>lt; 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.



			PEFY-P80VMH-E-F	PEFY-P140VMH-E-F				
Power source			1-phase 220-240V 50Hz /	/ 1-phase 208-230V 60Hz				
	*1	kW	9.0	16.0				
Cooling capacity	<sup>y</sup> *1	BTU/h	30,700	54,600				
11	. *1	kW	8.5	15.1				
Heating capacity	<sup>y</sup> *1	BTU/h	29,000	51,500				
Power	Cooling	kW	0.16 / 0.21	0.29 / 0.33				
consumption	Heating	kW	0.16 / 0.21	0.29 / 0.33				
Quant	Cooling	A	0.67 / 0.91	1.24 / 1.48				
Current	Heating	A	0.67 / 0.91	1.24 / 1.48				
External finish			Galva	nized				
Dimension			380 x 1000 x 900	380 x 1200 x 900				
HxWxD		mm(in.)	(15 x 39-3/8 x 35-7/16)	(15 x 47-1/4 x 35-7/16)				
Net weight		kg(lbs.)	50 (111)	67 (148)				
Heat exchanger	ſ		Cross fin (Aluminum pla	ate fin and copper tube)				
Type x	Quantity		Sirocco fan x 1	Sirocco fan x 2				
		m³/min	9.0	18.0				
Airflow	rate	L/s	150	300				
E		cfm	318	636				
External	208V	Pa	35 - 85 - 170	35 - 85 - 170				
static	220V	Pa	40 - 115 - 190	50 - 115 - 190				
pressure	230V	Pa	50 - 130 - 210	60 - 130 - 220				
(Lo-Mid-Hi)	240V	Pa	80 - 170 - 220	100 - 170 - 240				
Туре			1-phase indu	uction motor				
Motor Output		kW	0.09 (at 220V)	0.14 (at 220V)				
Air filter (option)	)		Synthetic fiber unwove	en cloth filter (long life)				
	Gas							
Refrigerant	(Flare)	mm(in.)	ø15.88	(ø5/8)				
pipe diameter	Liquid							
pipe diameter Liqui		mm(ın.)	ø9.52 (ø3/8)					
	(Flare)		0 D 32	(1-1/4)				
Field drain pipe of	diameter	mm(in.)						
Field drain pipe of	diameter 208. 220V	dB(A)	27 - 38 - 43	28 - 38 - 43				
Field drain pipe of Sound pressure level (I o-Mid-Hi) *2	diameter 208, 220V 230, 240V	dB(A)	27 - 38 - 43 33 - 43 - 45	28 - 38 - 43 34 - 43 - 45				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2	diameter 208, 220V 230, 240V	dB(A) dB(A)	27 - 38 - 43 33 - 43 - 45	28 - 38 - 43 34 - 43 - 45				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2	diameter 208, 220V 230, 240V	mm(in.) dB(A) dB(A)	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source	diameter 208, 220V 230, 240V	mm(in.) dB(A) dB(A)	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source	diameter 208, 220V 230, 240V	mm(in.) dB(A) dB(A) kW	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capaci	diameter 208, 220V 230, 240V	mm(in.) dB(A) dB(A) kW BTU/h	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H. 22.4 76,400	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capaci	diameter 208, 220V 230, 240V	mm(in.) dB(A) dB(A) kW BTU/h kW	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H: 22.4 76,400 21.2	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capaci Heating capac	diameter 208, 220V 230, 240V ity	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h	27 - 38 - 43 33 - 43 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capaci Heating capac Power	diameter 208, 220V 230, 240V ity ity Cooling	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) '2 Power source Cooling capaci Heating capac Power consumption	diameter 208, 220V 230, 240V ity ity Cooling Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) '2 Power source Cooling capaci Heating capac Power consumption Current	ity Cooling Heating Cooling	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current	ity Cooling Heating Cooling Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current External finish	diameter 208, 220V 230, 240V ity Cooling Heating Cooling Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) '2 Power source Cooling capaci Heating capac Power consumption Current External finish Dimension	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW A A A A Mm/in )	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 125	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) '2 Power source Cooling capaci Heating capac Power consumption Current External finish Dimension H x W x D	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW A A A a mm(in.)	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.50 x 1120 -1/4 x 44-1/8)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) '2           Power source           Cooling capaci           Heating capaci           Heating capaci           Consumption           Current           External finish           Dimension           H x W x D           Net weight	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A Mm(in.) kg(lbs.)	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvz 470 x 125 (18-9/16 x 49 100	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 inized 50 x 1120 1/4 x 44-1/8) (221)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current External finish Dimension H x W x D Net weight Heat exchange	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW kW A A A Mm(in.) kg(lbs.)	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 inized 0.68 / 0.86 inized 1/4 x 44-1/8) (221) ate fin and copper tube)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current External finish Dimension H x W x D Net weight Heat exchange Type x	ity ity Cooling Heating Cooling Heating Perr Quantity	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW kW A A A A A A A A A A A A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum ply	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.120 1/4 x 44-1/8) (221) tate fin and copper tube) fan x 2				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) '2 Power source Cooling capaci Heating capac Power consumption Current External finish Dimension H x W x D Net weight Heat exchange	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating er Quantity	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW kW A A a mm(in.) kg(lbs.) m <sup>3</sup> /min	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galvz 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.120 -1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35				
Field drain pipe c Sound pressure level (Lo-Mid-Hi) '2 Power source Cooling capaci Heating capac Power consumption Current External finish Dimension H x W x D Net weight Heat exchange Type x Airflow	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating er Quantity rate	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW A A A A mm(in.) kg(lbs.) m³/min L/s	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galvz 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 inized 50 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) i fan x 2 35 583				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current External finish Dimension H x W x D Net weight Heat exchange Type x Airflow	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating er Quantity rate	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A A A A Mm(in.) kg(lbs.) m³/min L/s cfm	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 inized 0.68 / 0.86 inized 1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capaci Heating capaci Power consumption Current External finish Dimension H x W x D Net weight Heat exchange Type x Airflow External	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating er Quantity rate 380V	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A a mm(in.) kg(lbs.) m³/min L/s cfm Pa	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 Galva 470 × 122 (18-9/16 × 49 100 Cross fin (Aluminum pb Sirocco 28 467 989 140 / 200	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 122 1221 221) 24t fin and copper tube) If an x 2 583 1236 110 / 190				
Field drain pipe of Sound pressure level (Lo-Mid-Hi)       '2         Power source       Cooling capaci         Heating capaci       Heating capaci         Heating capaci       Consumption         Current       External finish         Dimension       H × W × D         Net weight       Heat exchange         Fan       Airflow         External static       Static	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating H	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW A A A a mm(in.) kg(lbs.) m <sup>3</sup> /min L/s cfm Pa Pa	27 - 38 - 43 33 - 43 33 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 126 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 120 -1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capace         Heating capace         Power consumption         Current         External finish         Dimension         H × W × D         Net weight         Heat exchange         Type x         Airflow         External         static         pressure	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Heating Per Quantity rate 380V 400V 415V	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW kW A A A A mm(in.) kg(lbs.) kg(lbs.) cfm Pa Pa Pa Pa Pa	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galvz 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.39 / 0.50 0.68 / 0.86 inized 50 x 1120 1/4 x 44-1/8) (221) ate fin and copper tube) i fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capaci         Heating capaci         Power consumption         Current         External finish         Dimension         H x W x D         Net weight         Heat exchange         Fan         External static pressure         Motor       Type	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating H	mm(in.) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW kW A A A A A A A A A A A A A A A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49) 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 3-phase ind	28 - 38 - 43           34 - 43 - 45           PEFY-P250 VMH-E-F           z / 3N~ 380-415V 60Hz           95,500           26.5           90,400           0.39 / 0.50           0.68 / 0.86           inized           30 x 1120           .1/4 x 44-1/8)           (221)           ate fin and copper tube)           .fan x 2           35           1236           110 / 190           120 / 200           130 / 210				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current External finish Dimension H x W x D Net weight Heat exchange Heat exchange tatic pressure Motor Output	diameter 208, 220V 230, 240V ity Cooling Heating Cooling Heating Heating Cooling Heating arr Quantity rate 380V 400V 415V	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A A ( Mm(in.) kg(lbs.) m <sup>3</sup> /min L/s cfm Pa Pa Pa Pa Pa kW	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 × 122 (18-9/16 × 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 3-phase ind 0.20	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 0.68 / 0.86 120 -1/4 x 44-1/8) (221) ate fin and copper tube) fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capaci         Heating capaci         Heating capaci         Consumption         Current         External finish         Dimension         H × W × D         Net weight         Heat exchange         Fan         External static pressure         Motor       Type Output         Air filter (optio	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating H	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW kW kW A A a mm(in.) kg(lbs.) m <sup>3</sup> /min L/s cfm Pa Pa Pa Pa Pa Ra	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H: 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galva 470 x 12E (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20	28 - 38 - 43           34 - 43 - 45           PEFY-P250 VMH-E-F           z / 3N~ 380-415V 60Hz           95,500           26.5           90,400           0.39 / 0.50           0.39 / 0.50           0.68 / 0.86           mized           00 x 1120           -1/4 x 44-1/8)           (221)           ate fin and copper tube)           fan x 2           35           110 / 190           120 / 200           130 / 210           uction motor           0.23				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capace Heating capace Power consumption Current External finish Dimension H × W × D Net weight Heat exchange Net weight Heat exchange Fan External static pressure Motor Type Output Air filter (optio	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating H	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW A A A A A A A A A A A A A A A A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galve 470 x 125 (18-9/16 X 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unwoven 21.0 5 ( 52/1)	28 - 38 - 43 34 - 43 - 45 PEFY-P250 VMH-E-F z / 3N~ 380-415V 60Hz 28.0 95,500 26.5 90,400 0.39 / 0.50 0.68 / 0.86 1026 / 0.86 1120 1/4 x 44 - 1/8) (221) ate fin and copper tube) 1 fan x 2 35 583 1236 110 / 190 120 / 200 130 / 210 uction motor 0.23 cloth filter (long life type)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capac         Heating capac         Power consumption         Current         External finish         Dimension         H x W x D         Net weight         Heat exchange         Type x         Airflow         Fan         Type (Dutput)         Airfletr (option)         Refrigerant	diameter 208, 220V 230, 240V ity ity ity Cooling Heating Cooling Heating Heating Cooling Heating Heating Cooling Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooli	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A A A A A A A A A A A A A A A	27 - 38 - 43           33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           Siroccc           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20           Synthetic fiber unwoven           ø19.05 (ø3/4)	28 - 38 - 43         34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz         28.0         95,500         26.5         90,400         0.39 / 0.50         0.68 / 0.86         inized         30 x 1120         .1/4 x 44-1/8)         (221)         ate fin and copper tube)         .fan x 2         35         583         1236         110 / 190         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)         ø22.2 (ø7/8)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capac         Heating capac         Power consumption         Current         External finish         Dimension H x W x D         Net weight         Heat exchange         Type x         Airflow         Fan         External static pressure         Motor       Type Output         Air filter (optio         Refrigerant pipe diameter	diameter 208, 220V 230, 240V 230, 240V ity Cooling Heating Liquita Liquita Liquita Liquita Liquita	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A A A A A A A A A A	27 - 38 - 43           33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           Galva           470 × 122           (18-9/16 × 49           100           Cross fin (Aluminum pla           Sirocco           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20           Synthetic fiber unwoven           ø19.05 (ø3/4)	28 - 38 - 43         34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         0.68 / 0.86         1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         fan x 2         35         583         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)         Ø22.2 (Ø7/8)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi)       '2         Power source       Cooling capac         Heating capac       Heating capac         Heating capac       Cooling capac         Power consumption       Current         External finish       Dimension         H × W × D       Net weight         Heat exchange       Type x         Airflow       External static pressure         Motor       Type         Motor       Output         Air filter (optio       Refrigerant pipe diameter	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Cooling Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling C	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW a a a b db db db db db db db db db db db db d	27 - 38 - 43           33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H:           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           Galva           470 x 125           (18-9/16 x 49)           100 ·           Cross fin (Aluminum pla           Sirocco           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20           Synthetic fiber unwoven           ø19.05 (ø3/4)	28 - 38 - 43           34 - 43 - 45           PEFY-P250 VMH-E-F           z/ 3N~ 380-415V 60Hz           95,500           26.5           90,400           0.39 / 0.50           0.39 / 0.50           0.68 / 0.86           1/120           1/14 x 44-1/8)           (221)           ate fin and copper tube)           fan x 2           35           110 / 190           120 / 200           130 / 210           uction motor           0.23           cloth filter (long life type)           Ø22.2 (ø7/8)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capac         Heating capac         Power consumption         Current         External finish         Dimension         H × W x D         Net weight         Heat exchange         External finish         Dimension         H × W x D         Net weight         Heat exchange         Airflow         External static pressure         Motor       Type X Output         Air filter (optio         Refrigerant pipe diameter         Field drain pipe of	diameter 208, 220V 230, 240V ity ity Cooling Heating Heating H	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW BTU/h kW a A A A A A A A A A A A A A A A A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galve 470 x 125 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 Synthetic fiber unwoven ø19.05 (ø3/4) ø9.52 0.D.32	28 - 38 - 43           34 - 43 - 45           PEFY-P250 VMH-E-F           z / 3N~ 380-415V 60Hz           95,500           26.5           90,400           0.39 / 0.50           0.39 / 0.50           0.68 / 0.86           1/4 x 44-1/8)           (221)           ate fin and copper tube)           if an x 2           35           583           110 / 190           120 / 200           130 / 210           uction motor           0.23           (coth filter (long life type)              (ø3/8)           (1-1/4)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2         Power source         Cooling capac         Heating capac         Power consumption         Current         External finish         Dimension         H × W x D         Net weight         Heat exchange         Type x         Airflow         Fan         Katernal static         pressure         Motor         Output         Air filter (option         Refrigerant         pipe diameter         Field drain pipe or	diameter 208, 220V 230, 240V ity ity Cooling Heating Cooling Hating Cooling Hating Cooling Hating Cooling Hating Cooli	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A mm(in.) Kg(lbs.) m <sup>3</sup> /min L/s cfm Pa Pa Pa Pa Pa Pa Mag Mag Mag Mag Mag Mag Mag Ma	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.34 / 0.42 0.58 / 0.74 Galve 470 x 122 (18-9/16 x 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unwoven ø19.05 (ø3/4) ø9.52 0.D.32	28 - 38 - 43         34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         1/4 x 44-1/8)         (221)         ate fin and copper tube)         .fan x 2         35         1236         110 / 190         120 / 200         0.23         cloth filter (long life type)         \$\u022.2 (\u07/8)         (\u03/8)         (1-1/4)				
Field drain pipe of Sound pressure level (Lo-Mid-Hi) *2 Power source Cooling capac Heating capac Power consumption Current External finish Dimension H x W x D Net weight Heat exchange Airflow Fan External static pressure Motor Type Output Air filter (optio Refrigerant pipe diameter Field drain pipe o	ity ity ity Cooling Heating Cooling Haabab Cooling Haababbb Cooling Haababbbb Cooling Heating Heating Heat	mm(in.) dB(A) dB(A) dB(A) kW BTU/h kW BTU/h kW BTU/h kW A A A A A A A A A A A A A A A A A A	27 - 38 - 43 33 - 43 - 45 PEFY-P200VMH-E-F 3-phase 380-415V 50H 22.4 76,400 21.2 72,300 0.34 / 0.42 0.58 / 0.74 0.58 / 0.74 0.58 / 0.74 Galva 470 × 122 (18-9/16 × 49 100 Cross fin (Aluminum pla Sirocco 28 467 989 140 / 200 150 / 210 160 / 220 3-phase ind 0.20 Synthetic fiber unwoven ø19.05 (ø3/4) ø9.52 0.D.32 39 / 42 40 / 43	28 - 38 - 43           34 - 43 - 45           PEFY-P250 VMH-E-F           z / 3N~ 380-415V 60Hz           95,500           26.5           90,400           0.39 / 0.50           0.39 / 0.50           0.68 / 0.86           0.68 / 0.86           1120           -1/4 x 44-1/8)           (221)           ate fin and copper tube)           .fan x 2           35           1236           120 / 200           130 / 210           uction motor           0.23           (cloth filter (long life type)           Ø22.2 (ø7/8)           (ø3/8)           (1-1/4)           40 / 44           40 / 45				

### Notes:

The cooling and heating capacites are the maximum capacites that were obitained 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 infomation.
 The operating noise is the data that was obitained by measuring it 1.5m from the the bottom of the unit in an anechoic room. (Noise meter A-scale value)
 The direct of Electrical characteristic indicates at 240V 50Hz/230V/60Hz (PEFY-P80, 140VHM-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

When the 100% fresh air indoor units are connected, th	e maximum connecta
Heat pump models	Cooling only
110%(100% in case of heating below-5°C(23°F))	110%

10% (100% in Case of inearing below-5 c(23 F))
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# 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.

Indoor Unit

### 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 and 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.



				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E		
Power	source				1-phase 220-240V 50H	z / 1-phase 220V 60Hz			
Cooling capacity *1		*1	kW	4.5	7.1	11.2	14.0		
		<sup>y</sup> *1	BTU/h	15,400	24,200	38,200	47,800		
*1		*1	kW	5.0	8.0	12.5	16.0		
Пеаші	у сараси	<sup>y</sup> *1	BTU/h	17,100	27,300	42,700	54,600		
Power		Cooling	kW	0.04	0.05	0.09	0.11		
consu	mption	Heating	kW	0.04	0.05	0.09	0.11		
Curren	+	Cooling	А	0.28	0.33	0.65	0.76		
Curren	L	Heating	A	0.28	0.33	0.65	0.76		
Externa	al finish(I	/unsell N	<b>\</b> 0.)		6.4Y 8	.9/ 0.4			
Dimon	sion II.v		mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	600 x 680		
Dimens		VV X D	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 6	3 x 26-3/4		
Net we	ight		kg(lbs.)	24(53)	32 (71)	36 (79)	38 (84)		
Heat e	xchange			Cross fin (Aluminum fin and copper tube)					
	Туре х	Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco	fan x 4		
	Airflow	*2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31		
Fan	/Lo Mid2	Mid1 Hi)	L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517		
		-wiiu i-i ii)	cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095		
	External sta	tic pressure	Pa	0					
Matar	Туре				DC motor				
WOLDI	Output		kW	0.090	0.095	0.1	160		
Air filte	r				PP Honeyco	mb (long life)			
		Gas	mm(in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.0	5 (ø3/4) (Compatible)		
Refrige	erant	(Flare)		. ,		. ,			
pipe di	ameter	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)			
Field dr	ain pipe	diameter	mm(in.)		O.D. 2	26 (1)			
Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3		i level i) *2 *3	dB(A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44		

Notes:

\*3 It is measured in anechoic room.

<sup>\*1</sup> 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

<sup>\*2</sup> Airflw rate/Sound pressure level are shown in (low-middle 2-middle 1-high).

# 

# PKFY-P VBM-E PKFY-P VHM-E PKFY-P VKM-E

1 <b>-</b>
PKFY-P VHM

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



P32 P40 P50 P63 P100 Capacity P15 P20 P25  $\bigcirc$ VBM\* VHM  $\bigcirc$  $\bigcirc$ VKM  $\bigcirc$  $\bigcirc$ \*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

Capacity range



### Built-in signal receiver

changed from white to pure white.

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

PKFY-P VBM features	
Compact profile	

Quiet operation

# **PKFY-P VHM features**

# Compact size of 898mm

Light unit

Width size reduced to match small size buildings and offices.



Comparison with PKFY-P VGM-E

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.



Indoor Unit

				PKFY-P15VBM-E PKFY-P20VBM-E PKFY-P25VBM-E PKFY-P32VHM-E PKF					PKFY-P50VHM-E		
Power	source				1-phase 220-240V 50Hz / 1-phase 220V 60Hz						
Cooling capacity *1		*1	kW	1.7	2.2	2.8	3.6	4.5	5.6		
		<sup>.y</sup> *1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100		
Heating		*1	kW	1.9	2.5	3.2	4.0	5.0	6.3		
пеаші	y capaci	<sup>ty</sup> *1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500		
Power	C	cooling *4	kW		0.04			0.04			
consun	nption H	leating	kW		0.04			0.03			
Curron	. C	cooling *4	Α		0.20			0.40			
Curren	Η	leating	А		0.20			0.30			
Externa	al finish(	Munsell N	lo.)		Plastic (1.0Y 9.2/0.2)			Plastic (1.0Y 9.2/0.2)			
Dimens	sion H x	WxD	mm(in.)	295 x 815	5 x 225 (11-5/8 x 32-1/8	8 x 8-7/8)	295 x 898 x 249(11-5/8 x 35-3/8 x 9-13/16)				
Net we	ight		kg(lbs.)	10 (23) 13(29							
Heat ex	xchange	r		Cross fin (Aluminum fin and copper tube)							
	Туре х	Quantity		Line flow fa			v fan x 1				
	Airflow	rate *2	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		
Fan	(Lo-Mid	Aid1_Hi	L/s	82-83-87-88	82-87-	82-87-93-98		150-175-192	150-175-200		
	(LO-IVIIO		cfm	173-177-184-187	173-177-184-187 173-184-198-208			318-353-388 318-371-406 318-371-424			
	External st	atic pressure	Pa			(	0				
Motor	Туре			1	-phase induction motor	r	DC motor				
WOUDI	Output		kW	0.017 0.030							
Air filte	r			PP Honeycomb							
		Gas	mm(in )			a12 7 (a1/2)			ø12.7 (ø1/2) / ø15.88 (ø5/8)		
Refrige	rant	(Flare)				012.1 (0112)	(Compatible)				
pipe dia	ameter	Liquid	mm(in)			a6 35 (a1/4)			ø6.35 (ø1/4) / ø9.52 (ø3/8)		
		(Flare)				00.00 (0174)			(Compatible)		
Field dr	ain pipe	diameter	mm(in.)			I.D.16	6 (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.

				PKFY-P63VKM-E	PKFY-P100VKM-E				
Power s	source			1-phase 220-230-240V 50	0Hz / 1-phase 220V 60Hz				
*1		*1	kW	7.1	11.2				
Cooling	Capacit	<sup>y</sup> *1	BTU/h	24,200	38,200				
		*1	kW	8.0	12.5				
пеаціпд	сараси	y *1	BTU/h	27,300	42,600				
Power	С	ooling *4	kW	0.05	0.08				
consum	ption H	eating	kW	0.04	0.07				
Current	С	ooling *4	А	0.37	0.58				
Current	H	eating	А	0.30	0.51				
Externa	l finish(l	Munsell N	lo.)	Plastic (1.0	OY 9.2/0.2)				
Dimens	ion H x	WxD	mm(in.)	365 x 1,170 x 295 (14-	365 x 1,170 x 295 (14-3/8 x 46-1/16 x 11-5/8)				
Net wei	ght		kg(lbs.)	21 (46)					
Heat ex	change	r		Cross fin (Aluminum fin and copper tube)					
	Туре х	Quantity		Line flow	w fan x 1				
	Airflow	rate *2	m³/min	16-20	20-26				
Fan	(Lo-Hi)	Tale	L/s	267-333	333-433				
	(LO-III)		cfm	565-706	706-918				
	External sta	atic pressure	Pa	C					
Motor	Туре			DC motor					
WOLDI	Output		kW	0.0	56				
Air filter	•			PP Hone	eycomb				
Refrige	rant	Gas (Flare)	mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8) / ø19.05 (ø3/4) (Compatible)				
pipe diameter		Liquid (Flare)	mm(in.)	ø9.52	(ø3/8)				
Field dra	ain pipe	diameter	mm(in.)	I.D. 16	6(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.

# 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.



# 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.

### Quiet operation

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



### **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 controllable, 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!



				PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2				
Power	source				1-phase 220	)-240V 50Hz					
Caslin		*1	kW	2.2	2.8	3.6	4.5				
Coomi	y capaci	<sup>ty</sup> *1	BTU/h	7,500	9,600	12,300	15,400				
Liestin	~ ~~~~~	*1	kW	2.5	3.2	4.0	5.0				
пеаци	g capaci	<sup>ty</sup> *1	BTU/h	8,500	10,900	13,600	17,100				
Power		Cooling	kW	0.025	0.025	0.025	0.028				
consur	nption	Heating	kW	0.025	0.025	0.025	0.028				
Curron	Current		А	0.20	0.20	0.20	0.24				
Curren	ı	Heating	А	0.20	0.20	0.20	0.24				
Extern	al finish				Plastic (P	ure white)					
Dimen	sion		mm		600 x 70	00 x 200					
НхW	хD		in.	23-5/8 x 27-9/16 x 7-7/8							
Net we	eight		kg(lbs.)		15	(34)					
Heat e	xchange	r			Cross fin (Alminium pla	ate fin and copper tube)					
	Туре х	Quantity		Line flow fan x 2							
	Airflow	rate *2	3/	59687687	61708001	61708001	80005107				
Fan	(Lo-Mic	d-Hi-SHi)	m-/mm	5.5-6.6-7.6-6.7	0.1-7.0-8.0-9.1	0.1-7.0-0.0-9.1	8.0-9.0-9.5-10.7				
	Eaterna	al static	Da								
	pressu	re	Ра			J					
Mator	Туре				DC r	notor					
WOLDI	Output		kW		0.03	3 x 2					
Air filte	r				PP honeycomb fab	ric (Catechin Filter)					
Refrige	erant	Gas(Flare)	mm(in.)		ø12.7	(ø1/2)					
pipe di	ameter	Liquid(Flare)	mm(in.)		ø6.35	(ø1/4)					
Field d	rain pipe	diamete	r		I.D.16	S (5/8)					
Sound pressure level (Lo-Mid-Hi-SHi) *2 dB(/				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.

# 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.



$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$					PFFY-P20VLEM-E	PFFY-P25VLEM-E	PFFY-P32VLEM-E	PFFY-P40VLEM-E	PFFY-P50VLEM-E	PFFY-P63VLEM-E	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Power s	source				1-r	bhase 220-240V 50Hz	1-phase 208-230V 60	Hz		
Cooling Capacity         *1 Heating capacity         BTU/h *1         7,500         9,600         12,300         15,400         19,100         24,200           Heating capacity         *1 *1         KW         2.5         3.2         4.0         5.0         6.3         8.0           Power consumption         Cooling Heating         KW         0.04 / 0.06         0.06 / 0.07         0.085 / 0.09         0.1 / 0.11           Current         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.)         M         630 x 1,050 x 220         630 x 1,170 x 220         630 x 1,410 x 220           Dimension H x W x D         mn         630 x 1,050 x 220         630 x 1,170 x 220         630 x 1,410 x 220           Net weight         kg(lbs.)         28 (62)         30 (67)         32 (71)         36 (80)         37 (82)           Heat exchanger         Cross fin (Aluminum plate fin and copper tube)         Sirocco fan x 1         Sirocco fan x 2	Cooling	, concoit	. *1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
$\begin{tabular}{ c c c c c c c } \hline Fant & KW & 2.5 & 3.2 & 4.0 & 5.0 & 6.3 & 8.0 \\ \hline Flower & Cooling & KW & 0.04 / 0.06 & 10,900 & 13,600 & 17,100 & 21,500 & 27,300 \\ \hline Cooling & KW & 0.04 / 0.06 & 0.06 / 0.07 & 0.065 / 0.075 & 0.085 / 0.09 & 0.1 / 0.11 \\ \hline Corrent & Cooling & KW & 0.04 / 0.06 & 0.06 / 0.07 & 0.065 / 0.075 & 0.085 / 0.09 & 0.1 / 0.11 \\ \hline Current & Cooling & A & 0.19 / 0.25 & 0.29 / 0.30 & 0.32 / 0.33 & 0.40 / 0.41 & 0.46 / 0.47 \\ \hline External finish(Munsell No.) & Acrylic paint (5Y 8/1) \\ \hline Dimension H x W x D & mm & 630 x 1,050 x 220 & 630 x 1,170 x 220 & 630 x 1,410 x 220 \\ \hline In & 24-13/16 x 41-3/8 x 8-11/16 & 24-13/16 x 46-1/8 x 8-11/16 & 24-13/16 x 55-9/16 x 8-11/16 \\ \hline Net weight & kg(lbs.) & 28 (62) & 30 (67) & 32 (71) & 36 (80) & 37 (82) \\ \hline Heat exchanger & Cross fin (Aluminum plate fin and copper tube) \\ \hline Fan & Arrylic presult & Sirocco fan x 1 & Sirocco fan x 2 \\ \hline Type x Quantity & Sirocco fan x 1 & Sirocco fan x 2 \\ \hline Lo-Hi) & *2 & M'min & 5.5-6.5 & 7.0-9.0 & 9.0-11.0 & 12.0-14.0 & 12.0-15.5 \\ \hline Lys & 92-108 & 117-150 & 150-183 & 200-233 & 200-258 \\ \hline Crim & 194-230 & 247-318 & 318-388 & 424-494 & 424-547 \\ \hline Motor & Type & & & & & & & & & & & & & & & & & & &$	Cooling	Capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity         *1         BTU/h         8,500         10,900         13,600         17,100         21,500         27,300           Power consumption         KW         0.04 / 0.06         0.06 / 0.07         0.065 / 0.075         0.085 / 0.09         0.1 / 0.11           Current         Cooling         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           External finish(Munsell No.)         A         0.19 / 0.25         0.29 / 0.30         0.32 / 0.33         0.40 / 0.41         0.46 / 0.47           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           Net weight         kg(lbs.)         28 (62)         30 (67)         32 (71)         36 (80)         37 (82)           Heat exchanger         Cross fin (Aluminum plate fin and copper tube)         V         Sirocco fan x 1         Sirocco fan x 2           Type x Quantity         Sirocco fan x 1         Sirocco fan x 2         Users in (Aluminum plate fin and copper tube)         V         Users in (Aluminum plate fin and copper tube)         12.0-15.5	Liesting		. *1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		g capacit	y *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Power		Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	consur	nption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
$\begin{tabular}{ c c c c c c c } \hline Clinetic Index (Clinetic Index (Clinetindex (Clinetic Index (Clinetic Ind$	Current		Cooling	А	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Current		Heating	A	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Externa	al finish(I	Munsell N	No.)			Acrylic pai	nt (5Y 8/1)			
Differision HXWXD         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)           Type x Quantity         Sirocco fan x 1         Sirocco fan x 2           Airflow rate t(Lo-Hi)         22         m²/min         5.5-6.5         7.0-9.0         9.0-11.0         12.0-14.0         12.0-15.5           Even at static pressure         Pa         0         17-150         150-183         200-233         200-238           Motor         Type         0.015         0.018         0.030         0.035         0.050           Air filter         PP Honeycomb fabric (washable)           Before cont         (Base minin.)	Discussion H when D mm 630 x 1,050 x 220 630 x 1,170 x 220 630 x 1,4							410 x 220			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Dimension H x W x D			in.	24-13/16 x 41	-3/8 x 8-11/16	24-13/16 x 46	24-13/16 x 46-1/8 x 8-11/16		-9/16 x 8-11/16	
Cross fin (Aluminum plate fin and copper tube)         Heat exchanger       Cross fin (Aluminum plate fin and copper tube)         Fan       Type x Quantity       Sirocco fan x 1       Sirocco fan x 2         Airflow rate $_{(Lo-H)}$ $2^{m/min}$ $5.5-6.5$ $7.0-9.0$ $9.0-11.0$ $12.0-14.0$ $12.0-15.5$ Extend static pressure       Pa $117-150$ $150-183$ $200-233$ $200-258$ Motor       Type $0$ $0$ $0$ $0$ $0.015$ $0.018$ $0.030$ $0.035$ $0.050$ Air filter       V $0$ $0.015$ $0.018$ $0.030$ $0.035$ $0.050$ Air filter       V $0.015$ $0.012$ $0.012.7$ ( $0/1/2$ ) $0.05.88$ ( $0.5/8$ )	Net wei	Net weight kg(lbs.) 28 (62) 30 (67) 32 (71) 36 (80)				37 (82)					
$ \begin{array}{ c c c c c c } \hline \mbox{Ype x Quantity} & Sirocco fan x 1 & Sirocco fan x 2 \\ \hline \mbox{Airflow rate} & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & $	Heat ex	change	r			(	Cross fin (Aluminum pla	ate fin and copper tube	)		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Type x Quantity			Sirocco	o fan x 1		Sirocco	fan x 2		
Fan         Annow rate *2 (Lo-Hi)         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         0           Motor         Type         0.015         0.018         0.030         0.035         0.050           Air filter         PP Honeycomb fabric (washable)         912.7 (ø1/2)         ø15.88 (ø5/8)         \$15.88 (ø5/8)		Airflow	rata	m³/min	5.5-6.5		7.0-9.0	9.0-11.0	12.0-14.0	12.0-15.5	
Image: Lorenty         Cfm         194-230         247-318         318-388         424-94         424-547           External static pressure         Pa         0 <t< td=""><td>Fan</td><td></td><td>*2</td><td>L/s</td><td>92-</td><td colspan="2">92-108</td><td>150-183</td><td>200-233</td><td>200-258</td></t<>	Fan		*2	L/s	92-	92-108		150-183	200-233	200-258	
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)           Beforenet         (Fun)         mm(in.)         ø15.88 (ø5/8)		(LO-HI)		cfm	194-230		247-318	247-318 318-388 424-494			
Motor         Type         1-phase induction motor           Output         kW         0.015         0.018         0.030         0.035         0.050           Air filter         PP Honeycomb fabric (washable)             Ø15.88 (ø5/8)		External sta	atic pressure	Pa			(	)			
Motion         Output         kW         0.015         0.018         0.030         0.035         0.050           Air filter         PP Honeycomb fabric (washable)           Befriancent         (Fam)         mm(in.)         ø12.7 (ø1/2)         ø15.88 (ø5/8)	Mator	Туре					1-phase ind	uction motor			
Air filter         PP Honeycomb fabric (washable)           Befriescent         (Flam)           mm(in.)         Ø12.7 (Ø1/2)	WOLDI	Output		kW	0.0	015	0.018	0.030	0.035	0.050	
Gas         mm(in.)         ø12.7 (ø1/2)         ø15.88 (ø5/8)	Air filter	r					PP Honeycomb f	abric (washable)			
Pofrigorant (Flare)			Gas	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)	
	Refrige	rant	(Flare)	,			. (. ,				
pipe diameter         Liquid (Flore)         mm(in.)         ø6.35 (ø1/4)         ø9.52 (ø3/8)	pipe dia	ameter	Liquid (Elare)	mm(in.)			ø6.35 (ø1/4)			ø9.52 (ø3/8)	
Field drain pipe diameter mm(in.) ID 26 (1) <accessory (1-3="" (13="" (top="" 16))="" 27="" 32)="" :20="" end="" hose="" o.d=""></accessory>	Field drain nine diameter mm/in )						<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))&gt;</td><td></td></accessory>	27 (1-3/32) (top end :20	) (13/16))>		
Sound pressure level	Sound	pressure	level	()				(			
Closhi         *2 *3 *4         dB(A)         34-40         35-40         38-43         40-46	(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.

# INDOOR UNIT Floor mounted concealed type

# PFFY-P VLRM-E PFFY-P VLRMM-E



# Easily installable floor-standing concealed unit for perimeter zone





installation image (PFFY-P VLRMM-E)

# 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.



				PFFY-P20VLRM-E	PFFY-P25VLRM-E	PFFY-P32VLRM-E	PFFY-P40VLRM-E	PFFY-P50VLRM-E	PFFY-P63VLRM-E	
Power	source				1-r	hase 220-240V 50Hz	1-phase 208-230V 60	Hz	•	
0		. *1	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Cooling	g capacit	y *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	
Lleating		*1	kW	2.5	3.2	4.0	5.0	6.3	8.0	
пеаші	y capacit	. <sup>y</sup> *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300	
Power		Cooling	kW	0.04 / 0.06		0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
consu	mption	Heating	kW	0.04	/ 0.06	0.06 / 0.07	0.065 / 0.075	0.085 / 0.09	0.1 / 0.11	
Curren		Cooling	A	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
Current Heatin		Heating	Α	0.19	/ 0.25	0.29 / 0.30	0.32 / 0.33	0.40 / 0.41	0.46 / 0.47	
Externa	al finish(I	Munsell N	No.)			Galvanized	steel plate			
Dimension		W	mm	639 x 8	86 x 220	639 x 1,0	06 x 220	639 x 1,	246 x 220	
Dimens	SION H X	VV X D	in.	25-3/16 x 34-1	I5/16 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 ex	xchange	r				Cross fin (Aluminum pla	ate fin and copper tube	)		
	Type x Quantity			Sirocco	o fan x 1		Sirocco	fan x 2		
	Ainflow	*2	m³/min	5.5	5.5-6.5		9.0-11.0	12.0-14.0	12.0-15.5	
Fan	AITIOW	rate	L/s	92-	92-108		150-183	200-233	200-258	
	(LO-HI)		cfm	194	-230	247-318 318-388		424-494	424-547	
	External sta	atic pressure	Pa		0					
	Туре					1-phase ind	uction motor			
WOLDI	Output		kW	0.0	015	0.018	0.030	0.035	0.050	
Air filte	r					PP Honeycomb f	abric (washable)			
Refrige	erant	Gas (Elare)	mm(in.)			ø12.7 (ø1/2)			ø15.88 (ø5/8)	
pipe diameter Liquid			mm(in.)			ø6.35 (ø1/4)			ø9.52 (ø3/8)	
Field dr	ain pipe	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))&gt;</td><td></td></accessory>	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.

Dower course				PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E		
Power s	source				1-p	hase 220-240V 50Hz /	1-phase 220-240V 60	Hz			
Cooling	oonooit	, *1	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Cooling	Capacit	<sup>y</sup> *1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200		
Heating	, oonooit	, *1	kW	2.5	3.2	4.0	5.0	6.3	8.0		
пеаш	J capacit	<sup>y</sup> *1	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300		
Power		Cooling	kW	0.04		0.04	0.05	0.05	0.07		
consur	nption	Heating	kW	0.	04	0.04	0.05	0.05	0.07		
Current		Cooling	А	0.	34	0.38	0.43	0.48	0.59		
Current		Heating	А	0.	34	0.38	0.43	0.48	0.59		
Externa	al finish(N	/unsell N	lo.)			Galvanized	steel plate				
Dimension III Mar D			mm	639 x 8	86 x 220	639 x 1,0	06 x 220	639 x 1,2	246 x 220		
Dimension H x W x L		VV X D	in.	25-3/16 x 34-1	5/16 x 8-11/16	25-3/16 x 39-	5/8 x 8-11/16	25-3/16 x 49-1/16 x 8-11/1625 (56)			
Net weight kg			kg(lbs.)	21	(47)	24 (53)	(64)				
Heat exchanger					(	Cross fin (Aluminum pla	ate fin and copper tube	)			
	Type x Quantity			Sirocco	fan x 1		Sirocco	fan x 2			
	Airflow	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		
Fan	/Lo Mid F	li)	L/s	75-9	2-108	108-125-150	133-158-183	167-200-233	183-217-258		
		")	cfm	159-1	230-265-318 282-3		282-335-388	353-424-494	388-459-547		
	External static	pressure *2	Pa			20/4	0/60				
Motor	Туре					DC brushless motor					
WOLDI	Output		kW			0.0	96				
Air filter	r					PP Honeycomb f	abric (washable)				
Refrige	rant	Gas	mm(in.)			ø12.7 (ø1/	2) Brazed		ø15.88 (ø5/8) Brazed		
pipe dia	ameter	Liquid	mm(in.)			ø6.35 (ø1/	<ol><li>Brazed</li></ol>		ø9.52 (ø3/8) Brazed		
Field dra	ain pipe o	diameter	mm(in.)		I.D.26 (1)	<accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))&gt;</td><td></td></accessory>	27 (1-3/32) (top end :20	) (13/16))>			
Sound p	ressure	20Pa	dB(A)	31-3	6-40	27-32-37	30-36-40	32-37-41	35-40-44		
level (Lo	-Mid-Hi)	40Pa	dB(A)	34-3	9-42	30-35-41	32-38-42	35-40-44	36-42-47		
*3		60Pa	dB(A)	35-4	0-43	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.

# **INDOOR UNIT** Floor standing exposed

# **PFFY-P YMH-E**



Floor-standing CITY MULTI units featuring large capacity, great airflow rate, and high static pressure are suitable for air conditioning large spaces, such as event halls, churches, subway stations, airports, and offices.



# Increased adaptation to local needs

In addition to the standard duct blowing, the

plenum blowing and the rear suction are made selectable as optional.



# **Pulley belt option**

This option supports the use of wider ranges of airflow rate and static pressure to suit a greater variety of purposes.

### **Reduces installation and** maintenance time and costs

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

P200/P250YM-E



Installation example

PFFY-P200YM-E 8 HP 65.0/69.0 0 PFFY-P250YM-E 10HP 77.0/72.0 0 PFFY-P200YMH-E\* 8 HP 65.0 180/200

Air flow rate (m<sup>3</sup>/min)

High, 50/60Hz

72.0

150.0

200.0

Static pressure (Pa)

380V, 50/60Hz

180/210

210/390

290/510

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

\*High static pressure model

PFFY-P250YMH-E\*

PFFY-P400YM-E

PFFY-P500YM-E

# Plenum or duct type

10HP

16HP

20HP

Plenum specifications : Duct specifications : Duct specifications : P200/P250YMH-E P400/P500YM-E 394 273 394 1834





and large space air

► Solution

▶ Requirements

				PFFY-P200YM-E	PFFY-P250YM-E	PFFY-P200YMH-E	PFFY-P250YMH-E	PFFY-P400YM-E	PFFY-P500YM-E	
Power sou	urce					3-phase 4-wire 380-	400-415 V 50/60 Hz			
Cooling ca	apacity	*1	kW	22.4	28.0	22.4	28.0	45.0	56.0	
(Nominal)		*1	BTU/h	76,400	95,500	76,400	95,500	153,500	191,100	
*2	Power in	nput	kW	0.490/0.680	1.05/1.26	1.00/1.41	1.31/1.41	2.86/3.79	3.94/5.30	
*2	Current (380-400-	input 415 V)	А	0.97-0.98-0.99/ 1.24-1.23-1.22	1.74-1.83-1.88/ 2.06-2.05-2.04	1.82-1.85-1.87/ 2.37-2.37-2.37	2.14-2.18-2.20/ 2.18-2.18-2.18	5.23-5.25-5.33/ 6.16-6.18-6.26	7.66-7.68-7.76/ 8.49-8.51-8.58	
Heating ca	apacity	*3	kW	25.0	31.5	25.0	31.5	50.0	63.0	
(Nominal)		*3	BTU/h	85,300	107,500	85,300	107,500	170,600	215,000	
*2	Power in	nput	kW	0.490/0.680	1.05/1.26	1.00/1.41	1.31/1.41	2.86/3.79	3.94/5.30	
*2	Current (380-400-	input 415 V)	А	0.97-0.98-0.99/ 1.24-1.23-1.22	1.74-1.83-1.88/ 2.06-2.05-2.04	1.82-1.85-1.87/ 2.37-2.37-2.37	2.14-2.18-2.20/ 2.18-2.18-2.18	5.23-5.25-5.33/ 6.16-6.18-6.26	7.66-7.68-7.76/ 8.49-8.51-8.58	
External finish Galvanized steel plate (with polyester coating)										
External d	limensio	n	mm	1,665 x 1,200 x 500	1,665 x 1,200 x 500	1,465 x 1,200 x 500	1,465 x 1,200 x 500	1,800 x 1,860 x 650	1,800 x 1,860 x 650	
HxWxD			in.	65-9/16 x 47-1/4 x 19-11/16	65-9/16 x 47-1/4 x 19-11/16	57-11/16 x 47-1/4 x 19-11/16	57-11/16 x 47-1/4 x 19-11/16	70-7/8 x 73-1/4 x 25-5/8	70-7/8 x 73-1/4 x 25-5/8	
Net weigh	t		kg (lbs)	157 (347)	158 (349)	138 (305)	139 (307)	310 (684)	362 (799)	
Heat exchanger						Cross fin (Aluminum	fin and copper tube)			
FAN	Туре х С	Quantit	у	Sirocco fan x 2						
	External static		Pa	<0>	<0>	<180>/<200>	<180>/<210>	<210>/<390>	<290>/<510>	
	press. (3	380 V)	mmH <sub>2</sub> O	<0.0>	<0.0>	<18.4>/<20.4>	<18.4>/<21.4>	<21.4>/<39.8>	<29.6>/<52.0>	
	Motor Ty	уре				3-phase ind	uction motor			
	Motor or	utput	kW	0.400	0.500	0.770 0.770		3.700	5.500	
	Driving I	mecha	nism		Direct-drive	en by motor	Belt driving			
	Air flow	rate .		(High	-Low)	(High)				
			m³/min	65.0 - 59.0/69.0 - 60.0	77.0 - 56.0/72.0 - 50.0	65.0	72.0	150.0	200.0	
			L/s	1,083 - 983/1,150 - 1,000	1,283 - 933/1,200 - 833	1,083	1,200	2,500	3,333	
			cfm	2,295 - 2,083/2,436 - 2,119	2,719 - 1,977/2,542 - 1,766	2,295	2,542	5,297	7,062	
Sound pre	essure le	vel		(High	-Low)		(Hi	gh)		
(measured i (380 V)	n anechoid	room) *2	dB <a></a>	58-56/60-56	63-60/62-60	58/60	60/61	68/69	69/69	
Air filter						PP honeyc	omb fabric.			
Refrigerar diameter	nt piping	Liquid (R410A)	mm (in.)	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	9.52 (3/8)Brazed	12.7 (1/2)Brazed	15.88 (5/8)Brazed	
		Gas (R410A)	mm (in.)	22.22 (7/8)Brazed	22.22 (7/8)Brazed	22.22 (7/8)Brazed	22.22 (7/8)Brazed	28.58 (1-1/8)Brazed	28.58 (1-1/8)Brazed	
Field drain	n pipe siz	ze	in.	Rc 1	Rc 1	Rc 1	Rc 1	Rc 1-1/4	Rc 1-1/4	

Notes:

- \*1 Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- \*2 The values are measured at the factory setting of external static pressure.
- \*3 Nominal heating conditions
- Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45° FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

\*4 Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.

- \*5 Connect to the outdoor/heat source unit which capacity is larger than or equal to the indoor unit capacity. (PFFY-P400, P500YM-E only)
- \*6 This unit cannot be connected to R2 or WR2 series. (PFFY-P400, P500YM-E only)

\* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

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





# The Ventilation System for Enhanced Air Quality - Lossnay

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



# ■50Hz model

LGH-15RX5-E [150m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-25RX5-E [250m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-35RX5-E [350m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-50RX5-E [500m<sup>3</sup>/h Single phase 220-240V 50Hz] **LGH-65RX**5-E [650m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-80RX5-E [800m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-100RX5-E [1000m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-150RX5-E [1500m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-200RX5-E [2000m<sup>3</sup>/h Single phase 220-240V 50Hz]

# ■60Hz model

LGH-15RX5-E60	[150m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-25RX5-E60	[250m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-35RX5-E60	[350m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-50RX5-E60	[500m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-65RX5-E60	[650m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-80RX5-E60	[800m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-100RX5-E60	[1000m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-150RX5-E60	[1500m <sup>3</sup> /h Single phase 220-240V 60Hz]
LGH-200RX5-E60	[2000m <sup>3</sup> /h Single phase 220-240V 60Hz]

# 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

### EA Stale air exhaust (dirty indoor air) Spacer plate OA Fresh air induction (fresh air) RA Stale air induction (fresh air) RA Stale air induction (dirty heating/cooling air)

# **B. Total Energy transfer**



Sensible heat Latent heat

# • Hyper Eco Core

Better energy conservation by improved total heat exchange efficiency.



Indoor Unit



# Why LOSSNAY is necessary.

# Without ventilation...

Lack of Ventilation makes people sick by dirty indoor air including CO<sub>2</sub>, 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 ! <u>ADVANTAGES</u> <u>Clean air supply, dirty air exhaust</u> by Two air paths (OA→ SA and RA→ EA) <u>Energy recovery</u> by LOSSNAY Core <u>Free cooling</u> by bypass damper <u>MULTI VENTILATION MODE</u> for multi ventilation request (Power supply, Power supply/exhaust, Power exhaust)



Indoor Unit

# **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 initia setting.

\* Extra-Low not equipped LGH-150RX<sub>5</sub> and 200RX<sub>5</sub>.

\* The ventilation mode is actually selected in three levels, and the remote controller also displays these three levels.

# Energy Saving by OWEEKLY 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 (	Но	ourly)	<b>D7 4401 D</b> 4	é u - 11				
current RA4 s	8:0	o with	PZ-415LB C	ontroller				22:00
					high			
new RX₅ seri	es	with PZ	-60DR-E					
	8:0	0 9:0	0 12:	00 13:0	0 17:	00	19:00	22:00
		low	high	low	high	low	extra	low
Tolal power co	ons	umption	in one day : l l	_GH-100 _GH-100	RX₄-E : 6,160W (14 hour RX₅-E : 5,040W (14 hour	s) s) <b>&gt; 1,120V</b>	N (18%) le	ISS
Monday	8:0	0 9:	00 12	:00 13:	00 17	:00	19:00	22:00
to Thursday		low	high	low	high	low	extra	low
	8:0	0 9:	00 12	:00 13:	00 17	:00		22:00
Friday		low	high	low	high	exti	ra low	
Saturdav	8:(	00						22;00
to Sunday					extra low			

# "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.
- 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 tempereture 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.

# 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.



# NEW LOSSNAY remote controller (PZ-43SMF-E)



Indoor Un



LGH-15~35RX5-E

# Model line up

# Specification

# LGH-15RX₅-E

Model		LGH-15RX₅-E								
Frequency / Power source					50Hz / Single p	hase 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	
Airvolumo	(m³/h)	150	150	110	70	150	150	110	70	
Air volume	(L/s)	42	42	31	19	42	42	31	19	
Extornal static processo	(mmH <sub>2</sub> 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 officiency (%)	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 of panel in an anechoeid	r the center c 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-2	5RX₅-E			
Frequency / Power source					50Hz / Single p	hase 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
6 in	(m³/h)	250	250	155	105	250	250	155	105
Air volume	(L/s)	69	69	43	29	69	69	43	29
External static pressure	(mmH <sub>2</sub> 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
External static pressure	(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	—	_	—	_
Enthelmy exchange officiency (%)	Heating	69.5	69.5	74.0	77.5	—	_	—	—
Entraipy exchange enciency (%)	Cooling	68.0	68.0	72.5	76.0	—	_	—	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeic	the center 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 p	hase 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
A :	(m³/h)	350	350	210	115	350	350	210	115
Air volume	(L/s)	97	97	58	32	97	97	58	32
External static pressure	(mmH2O)	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
External static pressure	(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	—	—	—	—
Enthelmy exchange officiency (%)	Heating	71.5	71.5	76.5	81.5	—	—	—	—
Enthalpy exchange enciency (%)	Cooling	71.0	71.0	75.5	81.0	—	—	—	—
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	the center 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-50~80RX5-E

### LGH-50RX₅-E

Model					LGH-5	0RX₅-E			
Frequency / Power source					50Hz / Single p	hase 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
Airvolumo	(m³/h)	500	500	390	180	500	500	390	180
Air volume	(L/s)	139	139	108	50	139	139	108	50
	(mmH <sub>2</sub> 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	—	_	—	—
Entholmy exchange officiency (%)	Heating	69.0	69.0	71.0	78.0	—	—	—	_
Enthalpy exchange enciency (%)	Cooling	66.5	66.5	68.0	77.0	—	—	—	_
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c 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-65RXs-E								
Frequency / Power source					50Hz / Single p	hase 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		
Airvolumo	(m³/h)	650	650	520	265	650	650	520	265		
Air volume	(L/s)	181	181	144	74	181	181	144	74		
Extornal static proceuro	(mmH <sub>2</sub> 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	—	—	—	_		
Entholmy exchange officiency (%)	Heating	68.5	68.5	70.5	78.0	_	—	—	_		
Enthalpy exchange entciency (%)	Cooling	66.0	66.0	68.5	77.0	—	—	—	_		
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c 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-80RXs-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 <sub>2</sub> 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	—	_	—	—	
Enthelmy exchange officiency (%)	Heating	71.0	71.0	72.5	79.5	_	—	—	—	
Enthalpy exchange enciency (%)	Cooling	70.0	70.0	71.5	79.5	—	_	—		
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c 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-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	(mmH2O)	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	—	—	—	—	
Entholmy exchange officiency (%)	Heating	72.5	72.5	74.0	80.0	—	—	—	—	
Enthalpy exchange enciency (%)	Cooling	71.0	71.0	73.0	79.0	_	—	_	—	
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	the center 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 <sub>2</sub> 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	-	—	—			
Enthelmy exchange officiency (%)	Heating	72.0	72.0	72.5	-	—	—			
Enthalpy exchange entciency (76)	Cooling	70.5	70.5	71.5	—	—	—			
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c 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 <sub>2</sub> 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 officiency (%)	Heating	72.5	72.5	73.5	—	—	—		
	Cooling	71.0	71.0	72.0	—	—	—		
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	the center 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)



### LGH-15~35RX5-E60

### LGH-15RX5-E60

Model	LGH-15RXs-E60									
Frequency / Power source		60Hz / 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)		0.54-0.56	0.45-0.46	0.28-0.3	0.15-0.16	0.54-0.57	0.45-0.47	0.28-0.3	0.15-0.16	
Power consumption (W)		118-134	98-109	61-69	32-37	117-135	97-112	61-69	32-37	
Air volume	(m³/h)	150	150	110	60	150	150	110	60	
	(L/s)	42	42	31	17	42	42	31	17	
External static pressure	(mmH <sub>2</sub> O)	14.8	10.7	5.6	1.6	14.8	10.7	5.6	1.6	
	(Pa)	145	105	55	16	145	105	55	16	
Temperature exchange efficiency (	%)	80.0	80.0	82.0	85.0	—	—	—	—	
Enthalpy exchange officiency (%)	Heating	73.5	73.5	76.5	81.5	—	—	_	—	
Enthalpy exchange entciency (76)	Cooling	74.5	74.5	78.5	82.0	—	—	—		
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c chamber)	29.5-31	27-29	21.5-22.5	18-18	29.5-31	27-29	22-23.5	18-19	
Weight (kg)					2	0				
Starting current					Under 0	.9A Less				

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

# LGH-25RX5-E60

Model		LGH-25RX₅-E60								
Frequency / Power source		60Hz / 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)		0.61-0.64	0.54-0.56	0.28-0.3	0.17-0.18	0.62-0.65	0.55-0.57	0.28-0.3	0.17-0.18	
Power consumption (W)		132-150	118-134	61-70	37-42	134-152	119-135	61-70	37-42	
Air volume	(m³/h)	250	250	145	95	250	250	145	95	
	(L/s)	69	69	40	26	69	69	40	26	
External static pressure	(mmH2O)	11.7	7.6	2.5	1.0	11.7	7.6	2.5	1.0	
	(Pa)	115	75	25	10	115	75	25	10	
Temperature exchange efficiency (	%)	73.0	73.0	79.5	82.0	—	—	—	—	
Enthelmy exchange officiency (%)	Heating	63.5	63.5	73.0	78.0	—	—	—	—	
Enthalpy exchange enciency (%)	Cooling	66.5	66.5	75.0	78.0	—	—	—	—	
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	the center chamber)	27.5-29	25.5-27	20-21	18-18	28-29.5	26-27.5	20.5-21	18-18	
Weight (kg)	20									
Starting current					Under 1	.0A Less				

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

### LGH-35RX5-E60

Model		LGH-35RXs-E60								
Frequency / Power source		60Hz / Single phase 220-240V								
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation		
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low	
Current (A)		1.02-1.02	0.93-0.96	0.65-0.68	0.29-0.31	1.02-1.02	0.94-0.97	0.65-0.68	0.29-0.31	
Power consumption (W)		222-241	202-229	141-162	62-73	222-241	204-231	141-162	62-73	
Air volume	(m³/h)	350	350	255	115	350	350	255	115	
	(L/s)	97	97	71	32	97	97	71	32	
External static pressure	(mmH <sub>2</sub> O)	19.4	7.6	4.1	0.8	19.4	7.6	4.1	0.8	
	(Pa)	190	75	40	8	190	75	40	8	
Temperature exchange efficiency (	%)	75.0	75.0	80.5	85.0	_	—	—	—	
Enthalpy exchange officiency (%)	Heating	71.5	71.5	74.5	78.0	_	—	—	—	
Enthalpy exchange entciency (%)	Cooling	71.0	71.0	73.5	77.0	_	_	—	_	
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	the center chamber)	31.5-33	28.5-30.5	22.5-26	18-18	32-33.5	29-31	22.5-26	18-18	
Weight (kg)		29								
Starting current		Under 2.0A Less								

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




#### LGH-50~80RX5-E60

#### LGH-50RX5-E60

Model					LGH-50	RX₅-E60						
Frequency / Power source					60Hz / Single p	hase 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)		1.34-1.38	1.20-1.25	0.86-0.90	0.36-0.39	1.34-1.39	1.20-1.25	0.86-0.90	0.36-0.39			
Power consumption (W)		285-315	263-298	187-213	79-93	285-317	263-298	187-213	79-93			
A :	(m³/h)	500	500	380	180	500	500	380	180			
	(L/s)	139	139	106	50	139	139	106	50			
External static pressure	(mmH <sub>2</sub> O)	20.4	6.6	4.1	0.8	20.4	6.6	4.1	0.8			
	(Pa)	200	65	40	8	200	65	40	8			
Temperature exchange efficiency (	%)	72.0	72.0	78.0	83.0	_	—	—	_			
Firsthelms and afficiency (9() Heating		69.0	69.0	72.0	79.0	—	—	—	—			
	Cooling	67.5	67.5	71.0	79.0	—	—	—	_			
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	(Measured at 1.5m under the center) of panel in an anechoeic chamber)         34-35.5         30-32.5         25-27.5         18-18.5         34.5-36         31-33					25.5-27.5	18-18.5					
Weight (kg)			32									
Starting current					Under 2	.5A Less						

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

#### LGH-65RX5-E60

Model					LGH-65	RX₅-E60					
Frequency / Power source					60Hz / Single p	hase 220-240V					
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		1.9-2.0	1.8-1.9	1.2-1.3	0.6-0.6	2.0-2.0	1.8-1.9	1.2-1.3	0.6-0.6		
Power consumption (W)		415-470	390-435	253-290	120-140	433-470	390-435	253-290	120-140		
6 in	(m³/h)	650	650	470	240	650	650	470	240		
	(L/s)	181	181	131	67	181	181	131	67		
External static pressure	(mmH2O)	18.9	6.1	3.1	0.8	18.9	6.1	3.1	0.8		
	(Pa)	185	60	30	8	185	60	30	8		
Temperature exchange efficiency (%	6)	71.0	71.0	76.0	82.0	—	_	—	—		
Enthalpy exchange officiency (%)	Heating	67.5	67.5	72.5	79.0	—	—	—	—		
	Cooling	67.0	67.0	72.5	79.0	—	—	—	—		
Noise (dB) (Measured at 1.5m under of panel in an anechoeic	the center chamber)	35.5-37.5	33-34.5	26.5-29	19-20	36-37.5	33-35	27-30	19-20		
Weight (kg)		40									
Starting current		Under 4.0A Less									

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

#### LGH-80RX5-E60

Model					LGH-80	RX₅-E60					
Frequency / Power source					60Hz / Single p	hase 220-240V					
Ventilation mode			LOSSNAY	ventilation			By-pass ve	entilation			
Fan speed		Extra High	High	Low	Extra Low	Extra High	High	Low	Extra Low		
Current (A)		2.4-2.4	2.1-2.2	1.6-1.7	0.6-0.7	2.4-2.4	2.1-2.2	1.6-1.7	0.6-0.7		
Power consumption (W)		498-542	456-505	350-407	130-158	505-550	456-508	350-407	130-158		
Airvolumo	(m³/h)	800	800	660	300	800	800	660	300		
Air volume	(L/s)	222	222	183	83	222	222	183	83		
External static pressure	(mmH <sub>2</sub> O)	23.5	12.7	8.7	1.8	23.5	12.7	8.7	1.8		
	(Pa)	230	125	85	18	230	125	85	18		
Temperature exchange efficiency (%)		74.0	74.0	76.0	84.0	—	_	—	—		
Fatheline and affinite (0() Hea		71.0	71.0	73.0	82.0	_	—	—	—		
Enthalpy exchange enciency (%)	Cooling	70.0	70.0	72.0	82.0	—	—	—	—		
Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber		35.5-37	32.5-34.5	29-31	21-21	36-38	33-35	31-32	21-21		
Weight (kg)		53									
Starting current		Under 4.5A Less									

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



LGH-100RX5-E60

LGH-150/200RX5-E60

#### LGH-100RX5-E60

Model					LGH-100	)RX₅-E60					
Frequency / Power source					60Hz / Single p	hase 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)		2.9-2.9	2.7-2.8	1.6-1.7	0.8-0.9	2.9-2.9	2.8-2.8	1.6-1.7	0.8-0.9		
Power consumption (W)		620-680	580-650	350-405	168-197	620-680	582-653	350-405	168-197		
A :	(m³/h)	1000	1000	700	415	1000	1000	700	415		
Air volume	(L/s)	278	278	194	115	278	278	194	115		
External static proceuro	(mmH <sub>2</sub> O)	20.4	11.7	5.6	1.9	20.4	11.7	5.6	1.9		
External static pressure	(Pa)	200	115	55	19	200	115	55	19		
Temperature exchange efficiency (%)		77.0	77.0	81.0	87.0	—	_	—	—		
Fatheless and affiniances (9() Heating		72.5	72.5	77.0	82.0	—	—	—	—		
Enthalpy exchange enciency (%)	Cooling	73.0	73.0	77.0	82.0	—	—	—	_		
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	the center chamber)	36-38	34.5-36.5	28-30	21-21	37.5-39.5	36-38	29-31	21-21		
Weight (kg)		59									
Starting current		Under 5.0A Less									

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

#### LGH-150RX5-E60

Model				LGH-15	0RX₅-E60					
Frequency / Power source				60Hz / Single p	hase 220-240V					
Ventilation mode			LOSSNAY ventilation		By-pass ventilation					
Fan speed		Extra High	Extra High Low Extra High				Low			
Current (A)		4.6-4.8	4.1-4.2	3.2-3.4	4.7-4.8	4.1-4.3	3.2-3.4			
Power consumption (W)		980-1080	895-1000	702-810	1000-1090	900-1010	702-810			
Airvolumo	(m³/h)	1500	1500	1230	1500	1500	1230			
Air volume	(L/s)	417	417	342	417	417	342			
External static pressure	(mmH <sub>2</sub> O)	24.0	13.3	8.7	24.0	13.3	8.7			
	(Pa)	235	130	85	235	130	85			
Temperature exchange efficiency (%)		74.5	74.5	76.5	—	—	—			
Enthelmy exchange officiency (%) Heating		72.0	72.0	74.0	—	—	—			
	Cooling	71.0	71.0	72.0	—	—	—			
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c chamber)	37.5-40 35-37 31-33.5			39-41	36-38.5	31.5-34			
Weight (kg)		105								
Starting current				Under 9	.0A Less					

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

#### LGH-200RX5-E60

Model				LGH-20	0RX₅-E60					
Frequency / Power source				60Hz / Single p	hase 220-240V					
Ventilation mode			LOSSNAY ventilation		By-pass ventilation					
Fan speed		Extra High	Extra High Low Extra High				Low			
Current (A)		5.7-5.8	5.3-5.5	3.3-3.5	5.7-5.8	5.3-5.5	3.3-3.5			
Power consumption (W)		1220-1355	1160-1295	715-835	1220-1355	1160-1295	715-835			
Airvolumo	(m³/h)	2000	2000	1400	2000	2000	1400			
	(L/s)	556	556	389	556	556	389			
	(mmH <sub>2</sub> O)	19.4	10.2	5.1	19.4	10.2	5.1			
External static pressure	(Pa)	190	100	50	190	100	50			
Temperature exchange efficiency (%)		77.0	77.0	81.0	—	—	—			
Enthology exchange officiency (%)	Heating	72.5	72.5	77.0	-	—	—			
Enthalpy exchange enciency (%)	Cooling	73.0	73.0	77.0	—	—	—			
Noise (dB) (Measured at 1.5m under of panel in an anechoeid	r the center c chamber)	38.5-40.5	36.5-38.5	30-32.5	40.5-42	39-40.5	32-33.5			
Weight (kg)		118								
Starting current				Under 10	0.0A Less					

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



## Control



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

#### Centralized Controller System



# 

VL-100U5-E Pull-string switch type VL-100EU5-E Wall switch type

## Heat Recovery Ventilators for Residential Use

Time Spent in Comfort with a Breath of Fresh Air



NEW

## **Total-Heat-Exchange Concept**



Indoor supply-air  $\{ lndoor \\ temperature(^{\circ}C) = \{ lndoor \\ temperature(^{\circ}C) - \\ temperature(^{\circ}C) \} x \\ Temp \\ temperature(^{\circ}C) + \\ temperature(^{\circ}C) \\ tempe$ 

Calculation example : 16°C = (20°C - 0°C) x 80% + 0°C (Low fan speed)

Upgraded high-

performance filter.

## Specification

•Simple installation through boring of 2 installation holes.

- •Low-noise (Less than 30dB at low fan speed).
- •1-motor 2-fan system. •Air-volume:low/high fan speeds. ·Air-supply/exhaust pipes and a plastic weather cover are included. •Equipped with an outdoor-air shutter.

•Pull-string switch (VL-100U<sub>5</sub>-E)

•Wall-switch (VL-100EU<sub>5</sub>-E)

## HI LO

Supply

voltage (V)

220

230

240

220

#### **Extension Pipe** P-100P-E

Power line

frequency (Hz)

50

50

50

60

Fan

speed

HI

LO

нι

10

HI

LO

Calculation example : 24°C = 36°C - (36°C - 21°C) x80% (Low fan speed)

Air volume

(m<sup>3</sup>/h)

100

55

105

60

106

61

103

Power

consumption

(W)

30

13

3

15

34

17

34

 Total length when connected to the pipe extension coupling is 300mm. **Extension Pipe Coupling** P-100PJ-E

33∘с

Stale hot air

(exhaust)

36°C

Fresh hot air

(outdoor air)

Noise

(dB)

36.5

24

37

25

38

27

38

Weight

(kg)

7.5



· Screw-in method

Temp.exchange

. efficiency

(%)

73

80

80

72

79

73

**Optional parts** 

High performance filter P-100HF5-E

P-100F5-E

**Replacement filter** 

Standard grade

replacement filter.

Indoor Unit



## **OA Processing Units**

## RDH4 Series NEW



### 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.



### Permeable Film Humidifier (RDH4 model)

#### Comfortable Level of Humidity for Exceptionable Air Quality

The OA Processing Unit is equipped with a 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.







## **RD4 Series**

## A Total Air Conditioning Package Manifesting Remarkable Power

#### Lossnay Ventilation and Air Conditioning

The OA (outdoor-air) Processing Unit creates an optimum environment while providing substantial energy savings. The OA Processing Unit comprises forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants preventing ailments such as sick building syndrome. Inside the OA Processing Unit is the Lossnay Core, a heat-exchange unit that transfers heat efficiently, cutting ventilation load by as much as 70%. This special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.



## **The Air Conditioning Function**

#### **Two Units in One**

Along with Lossnay ventilation, the OA Processing Unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy. Also, with ventilation and air conditioning integrated, space is saved and installation expense kept to a minimum. Wha'ts more, the air temperature in any room can be perfectly adjusted to the desired





temperature of the occupants via the OA Processing Unit, which can be used as the indoor unit of the CITY MULTI air conditioning system. The heat recovery function maximizes efficiency and saves energy, benefiting the environment and helping companies cut costs. It also reduces the refrigerant load and lowers the amount of horsepower required by the outdoor unit.

Indoor Unit

## Specification NEW

Model				GUF-50RDH4		GUF-100RDH4		GUF-50RD4		GUF-100RD4		GUF-100RDH4-60		
Power source						1-	phase 220	-240V 50	Hz			1-phase	220V 60Hz	
Cooling capacity		*1	kW	5.57	<1.94>	11.44	<4.12>	5.57	<1.94>	11.44	<4.12>	11.44	<4.12>	
Figure in < > is the	he recovery	*1	kcal / h	4,800	<1,650>	9,800	<3,500>	4,800	<1,650>	9,800	<3,500>	9,800	<3,500>	
capacity by LOSS	SNAY core.	*1	BTU / h	19,000	<6,600>	39,000	<14,000>	19,000	<6,600>	39,000	<14,000>	39,000	<14,000>	
*3	Power input		W	235-	265	480	-505	235	-265	480	-505	6	85	
*3	Current input		A	1.1	15	2.	20	1.	.15	2	.20	3.	20	
Heating capacity		*2	kW	6.21	<2.04>	12.56	<4.26>	6.21	<2.04>	12.56	<4.26>	12.56	<4.26>	
Figure in < > is the	he recovery	*2	kcal / h	5,340	<1,750>	10,800	<3,650>	5,340	<1,750>	10,800	<3,650>	10,800	<3,650>	
capacity by LOSS	SNAY core.	*2	BTU / h	21,200 <7,000>		42,850	<14,450>	21,200	<7,000>	42,850	<14,450>	42,850	<14,450>	
*3	Power input		W	235-	265	480	-505	235	-265	480	)-505	6	85	
*3	Current input		A	1.1	15	2.	20	1.	.15	2	.20	3.	20	
Capacity equivale	ent to indoor unit			P3	32	Р	63	Р	32	P	63	P	63	
Humidifying capa	lumidifying capacity kg / h 2.7 5.4						.4		_		_	5	.4	
			lbs / h	6.	0	1:	2.0		_		12	2.0		
	Humidifier			Per	rmeable fi	lm humidi	fier				_			
External finish					Galvanized, with grey insulation sheet									
External dimension	on H x W x D		mm	317 x 1,016 x 1,288		398 x 1,2	31 x 1,580	317 x 1,0	16 x 1,288	398 x 1,2	31 x 1,580	398 x 1,231 x 1,580		
			in.	12-1/2 x 40	0 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4	12-1/2 x 4	40 x 50-3/4	15-11/16 x 4	8-1/2 x 62-1/4	15-11/16 x 4	8-1/2 x 62-1/4	
Net weight			kg (lbs)	51 (1	112)	88 (	194)	48 (	(106)	82	(181)	88 (	194)	
Heat	LOSSNAY core				F	Partition, (	Cross-flow	structure,	Special pr	eserved p	paper-plate			
exchanger	Refrigerant coil			Cross fin (Aluminum fin and copper tube)										
FAN	Type x Quantity						SA: Cer	ntrifugal fa	in (Sirocco	fan) x 1				
				EA: Centrifugal fan (Sirocco fan) x 1										
	External		Ра	12	5	1	35	5   140   140		40	115			
	static press.	*4	mmH₂O	12	.7	1;	3.8	14	4.3	1.	4.3	11	1.7	
	Motor type			1	Totally end	closed cap	bacitor perr	manent split-phase induction			notor, 4 po	les, 2unit	S	
	Motor output		kW		-		-		_		_	-	-	
	Driving mechani	sm					D	Direct-driv	en by moto	or				
	Airflow rate		m³ / h	50	0	1,0	000	5	00	1,	000	1,0	000	
	(High value)		L/s	13	9	2	78	1	39	2	78	2	78	
			cfm	29	4	5	89	2	94	5	89	5	89	
Sound pressure l	Sound pressure level (Low-High) (measured in anechoic room) *3				33.5-34.5 38-39 33.5-34.5 38-39				3-39	40	0.5			
Insulation materia		Dolyaster sheat												
Air filter Supplying air				Monyeon fabrice filter (Cravitational method 92%) & Ontional part: High officiancy filter (Colorimetric method 65%)										
		Non-woven rabits litter (Gravitational method 62%) & Optional part. High enciency litter (Colorimetric method 65%)												
Protection device	Extractioning an					Hom		Fi						
Refrigerant contro	ol device							IEV						
Connectable outo	loor unit			R410A CITY MULTI										
Diameter of Liquid mm (in.)			ø6.35 (ø1	/4) Flare	ø9.52 (ø	3/8) Flare	ø6.35 (ø	1/4) Flare	ø9.52 (ø	3/8) Flare	ø9.52 (ø	3/8) Flare		
refrigerant pipe	Gas		mm (in.)	ø12.7 (ø1	/2) Flare	ø15.88 (ø	5/8) Flare	ø12.7 (ø	1/2) Flare	ø15.88 (g	ø5/8) Flare	ø15.88 (ø	5/8) Flare	
Field drain pipe s	ize		mm (in.)		,	So	cket (I.D. 3	2mm (1-1	I/4))+O.D.	32mm (1-	1/4)		,	

#### Notes:

- \*1 Nominal cooling conditions Indoor : 27°CDB (81°FDB)/19°CWB (66°FWB) Outdoor : 35°CDB (95°FDB)/24°CWB (75°FWB)
- \*2 Nominal heating conditions Indoor : 20°CDB (68°FDB)/13.8°CWB (57°FWB) Outdoor : 7°CDB (45°FDB)/6°CWB (43°FWB)
- \*3 The values are measured at the rated external static pressure.
- \*4 The figure in < > indicates the value when external static pressure is changed.



# 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.



## Icon Explanation



#### 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.

\*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.

Operation pattern during Auto (dual set point) mode



## 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

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

Model         Maximute         Parameter         Par			Local	remote (	controlle	r *9						ç	Syste	m cor	trolle	r					*9
Induced         Induced <t< td=""><td>Model</td><td>PAR-31MAAE</td><td>PAR-21MAA</td><td>PAR-U02MEDA</td><td>PAC-YT52CRA</td><td>PAR-FL32MA</td><td>PAC-</td><td>AT-50B</td><td>AE-2</td><td>200E</td><td>AE-2</td><td>00E +</td><td>EW</td><td>-50E</td><td>AG-</td><td>150A</td><td>AG-1</td><td>50A +</td><td>EB-50</td><td>)GU-J</td><td>TG-2000A</td></t<>	Model	PAR-31MAAE	PAR-21MAA	PAR-U02MEDA	PAC-YT52CRA	PAR-FL32MA	PAC-	AT-50B	AE-2	200E	AE-2	00E +	EW	-50E	AG-	150A	AG-1	50A +	EB-50	)GU-J	TG-2000A
Group (Indor)         116         <	Controllable Groups / Indoors						TINUANNA		50 /	50	200	200	50	/ 50	50	50	150	150	50	/ 50	
Operating         Operating <t< td=""><td>(Group / Indoor) *8</td><td>1/16</td><td>1/16</td><td>1/16</td><td>1/16</td><td>1/16</td><td>16 / 50</td><td>50 / 50</td><td>AE-200E</td><td>Browser*4</td><td>AE-200E</td><td>Browser*4</td><td>EW-50E</td><td>Browser*4</td><td>AG-150A</td><td>Browser*4</td><td>AG-150A</td><td>Browser*4</td><td>EB-50GU-J</td><td>Browser*4</td><td>2000/2000</td></t<>	(Group / Indoor) *8	1/16	1/16	1/16	1/16	1/16	16 / 50	50 / 50	AE-200E	Browser*4	AE-200E	Browser*4	EW-50E	Browser*4	AG-150A	Browser*4	AG-150A	Browser*4	EB-50GU-J	Browser*4	2000/2000
ON / OFF         O<	Operating																				
Mode (adv) (adv) (adv)         O	ON / OFF	0	0	0	0	0	O	O	0	0	0 🗖	0		0	◎ ■	$\odot$	$\odot$	0		◎ ■	
Temperature set         O         O         O         N         O         O         O         N	Mode (cool / heat / dry / fan)	0	0	0	0	0	N	O	0	◎ ■	0 🗖	0	Ν	0	0	$\odot$	$\odot$	0	Ν	$\odot$	
Dual set point         ***         O         N         O         N         O	Temperature-set	0	0	0	0	0	N	O	0	◎ ■	o 🗖	0	Ν	0	0	$\odot$	$\odot$	0	Ν	$\odot$	
Lacal Permit / Prohibit N N N N N N N N O O O O O O O O O O O	Dual set point *10	0	N	0	0	Ν	O*11	O	0	◎ ■	0	0	Ν	0	N	Ν	Ν	N	Ν	$\odot$	
Fan speed         O	Local Permit / Prohibit	N	N	N	N	Ν	N	O	0	◎ ■	0	0	Ν	0	0	$\odot$	$\odot$	0	Ν	0	0
Air-flow direction       O	Fan speed	0	0	0	0	0	N	O	0	0	0	0	Ν	0	0	$\odot$	© 🗖	0	Ν	0	0
Status moniforing       O	Air-flow direction	0	0	0	0	0	N	O	$\odot$		0	0	N	0	0	$\odot$		© 🔳	N		O I
ON / OFF         O	Status monitoring																				
Mode (col/ free/ dry (ar)         O </td <td>ON / OFF</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>O</td> <td>O</td> <td>O</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>O</td> <td>0</td> <td>O</td> <td>0</td> <td></td> <td>0</td> <td>0</td>	ON / OFF	0	0	0	0	0	O	O	O	0	0	0		0	O	0	O	0		0	0
Temperature-set         O	Mode (cool / heat / dry / fan)	0	0	0	0	0	N	0	0	0	0	0	Ν	0	0	0	0	0	Ν	0	0
Local Permit / Prohibit       O </td <td>Temperature-set</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>N</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>Ν</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>Ν</td> <td>0</td> <td>0</td>	Temperature-set	0	0	0	0	0	N	0	0	0	0	0	Ν	0	0	0	0	0	Ν	0	0
Fan speed         O	Local Permit / Prohibit	0	0	0	0	0	0	0	0	0	0	0	N	0	0	0	0	0	N	0	0
Air-Row direction       O	Fan speed	0	0	0	0	0	N	0	0	0	0	0	N	0	0	0	0	0	N	0	0
Indoor temperature         O         O         O         O         O         O         O         O         O         O         N         O         O         O         N         O         O         O         N         O         N         N         N         N         N         N         N         N         N         O         O         O         O         O         O         N	Air-flow direction	0	0	0	0	0	N	0	0	0	0	0	N	0	0	0	0	0	N	0	0
Filter sign       O <th< td=""><td>Indoor temperature</td><td>0</td><td>0</td><td>0</td><td>0</td><td>N</td><td>N</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>Ν</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>Ν</td><td>0</td><td>0</td></th<>	Indoor temperature	0	0	0	0	N	N	0	0	0	0	0	Ν	0	0	0	0	0	Ν	0	0
Error fashing       O	Filter sign	0	0	0	N	N	N	O	0	0	0	0	Ν	0	0	0	0	0	Ν	0	0
Error code         O         N	Error flashing	0	0	0	0	0	0	O	0	0	0	0		0	0	0	0	0		0	0
Operation hour         N	Error code	0	0	0	0	N	0	0	0	0	0	0	N	0	0	0	0	0	N	0	0
Scheduling         O         O         N         N         O         Image of O/ OFF per day         1         8         1         N         1         N         16         24 </td <td>Operation hour</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>Ν</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>Ν</td> <td>N</td> <td>N</td> <td>N</td> <td>Ν</td> <td>•</td>	Operation hour	N	N	N	N	Ν	N	N	N	N	N	N	N	N	N	Ν	N	N	N	Ν	•
One-day       O       O       O       N<	■Scheduling								1					1		-					
Integr of ON / OFF per day       1       8       1       N       16       24       <	One-day	0	0	0	N	N	N	0					N						N		
Weekly       O       O       O       N       N       N       O <td>Times of ON / OFF per day</td> <td>1</td> <td>8</td> <td>1</td> <td>N</td> <td>1</td> <td>N</td> <td>16</td> <td>24</td> <td>24</td> <td>24</td> <td>24</td> <td>N</td> <td>24</td> <td>24</td> <td>24</td> <td>24</td> <td>24</td> <td>N</td> <td>24</td> <td>24</td>	Times of ON / OFF per day	1	8	1	N	1	N	16	24	24	24	24	N	24	24	24	24	24	N	24	24
Immes of ON/OFF per week       8 x7       8 x7       N	Weekly	0	0	0	N	N	N	0					N						N		
Annual         N         N         N         N         N         N         O         N <td>Times of ON / OFF per week</td> <td>8 x 7</td> <td>8 x 7</td> <td>8x7</td> <td>N</td> <td>N</td> <td>N</td> <td>16 x 7</td> <td>24 x 7</td> <td>24 x 7</td> <td>24 x 7</td> <td>24 x 7</td> <td>N</td> <td>24 x 7</td> <td>N</td> <td>24 x 7</td> <td>24 x 7</td>	Times of ON / OFF per week	8 x 7	8 x 7	8x7	N	N	N	16 x 7	24 x 7	24 x 7	24 x 7	24 x 7	N	24 x 7	24 x 7	24 x 7	24 x 7	24 x 7	N	24 x 7	24 x 7
Optimized start-up         N	Annual	N	N	N	N	N	N	N	Ø	©		0	N		©		©	©	N	©	0
Auto-off timer         O         O         O         N	Optimized start-up	N	N	N	N	N	N	N		0	0		N		0	0	0	0	N	0	0
Min. Imare setting unit (minute)       5       1       5       1	Auto-off timer	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Error record       O       N       N       N       N       O       O       O       N       O       O       N       O       O       O       N       N       O       O       O       N       O       O       O       N       O       O       O       N <t< td=""><td>Min. timer setting unit (minute)</td><td>5</td><td>1</td><td>5</td><td>N</td><td>10</td><td>N</td><td>5</td><td>  1</td><td>1</td><td>  1</td><td>1</td><td>N</td><td>  1</td><td>1</td><td>1</td><td>1</td><td>  1</td><td>N</td><td>1</td><td>1</td></t<>	Min. timer setting unit (minute)	5	1	5	N	10	N	5	1	1	1	1	N	1	1	1	1	1	N	1	1
Error record         O         N         N         N         N         N         O         N         <	Recording																				~
Daily / monthly report         N	Error record	0	N	N	N	N	N	0		0			N		0	0	0	0	N	0	0
Electricity charge         N	Daily / monthly report	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	<u> </u>
Cherry management (data         N	Electricity charge	N	N	N	N	N	N	N	N	N	•	N	N	N	N	N	N	N	N	N	<u> </u>
Utter         Tempset limitation by Local R/C         O         O         N	Energy management data	N	N	N	N	N	N	N	•	•	•	•	N	•	N	N	N	N	N	•	N
tempset limitation by Code I/ 1         O         O         O         O         O         O         N <t< td=""><td>Other Toma and limitation buildered D / 0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>L NI</td><td>  NI</td><td>  NI</td><td></td><td></td><td>1.51</td><td>l NI I</td><td></td><td></td><td></td><td>NI</td><td></td><td>N</td></t<>	Other Toma and limitation buildered D / 0								L NI	NI	NI			1.51	l NI I				NI		N
Important of your former       0 </td <td>Temp-set limitation by Local R / C</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>N</td> <td>N</td> <td>N</td> <td></td> <td>N</td> <td>N O</td>	Temp-set limitation by Local R / C	0	0	0	0	N	N	N		N	N	N	N	N	N	N	N	N	N	N	N O
Operation-lock         O         O         O         N	Concretion look	0.	0.	0	0 10	N N	N N	0.	N N	0-2-6	N N	0.5%	IN N	0-2-6	IN N	0-2-6	N N	0-2-6	N N	0-2-6	
Night setback       O       N       O       N       N       N       N       O       O <sup>-</sup>	Operation-lock	0		0		N N	N N	0		N 0*2	N	N 012	IN N	IN O <sup>12</sup>	N	N 012	N	IN 0 <sup>12</sup>	N N	IN O <sup>12</sup>	<u>N</u>
Sinding temperative control         N         N         N         N         N         N         N         N         N         O	NIGHT SELDACK	<u> </u>	IN NI		IN NI	IN N	IN N			02		01	IN N	02	0	02	0	02	IN N	02	
DACher Cullification         N	Silding temperature control	N N	N N	IN NI	IN NI	IN N	IN NI	IN NI		0.			IN			N			IN N	N	
Variation interlocked)         N/O	BACHEL <sup>®</sup> COHHECHOH	IN orlookod)	IN	IN	IN	IN	IN	IN				•	•		IN	IN	IN	IN	IN	IN	IN
Group setting         O <sup>+1</sup> O <sup>+1</sup> O         O <sup>+1</sup> N         O         O         O <sup>-2</sup> </td <td>Management (Group / Int</td> <td></td> <td>N</td> <td></td> <td></td>	Management (Group / Int																		N		
Group setting         N         <	Croup potting	N/O	N/O	N/O	N/O	N	0	0		0/0		0/0	IN N	0/0	0	0/0	0	0/0	N N	0/0	0/0
Biotox setting       N       N       N       N       N       N       O       O <sup>2</sup> O       O <sup>2</sup> O       O <sup>2</sup> O       O <sup>2</sup>	Block cotting					N		0		02		02	IN N	02	0	02	0	02	N N	02	
Revision or electricity charge N N N N N N N N N N N N N N N N N N N	DIUCK Setting	N N	IN N	N N	N N	N	N N	IN N		0 <sup>2</sup>			IN N			02		0 <sup>2</sup>	N N	02	
		IN .	IN d (Oracura	/ Instaulas	IN IN	N	N	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
	Operating on LOSSNAY					NU CHT		<b>a</b> / <b>a</b>	اه	اهره	مرا	مرا		اهر	هره		مراها	اهرها		اهرها	
	UN/UFF	N/O	N/O	N/O	N/O	N/O '	0/0 <sup>3</sup>	0/0	0/0		0/0	0/0		0/0	0/0		0/0	0/0		0/0	
	Fan speed	N/O	N/O	N/O	N	N	N	0/0	0/0	0/0	0/0	0/0	N/N	0/0	0/0	0/0	0/0	0/0	N/N	0/0	0/0
	venulation mode	N	N	N	N	N	N	Ø/N	IQ/N	W/N	N / O	N /O	N / N	IO/ N	W/N	©/N	©/N	Ø/N	N/N	©/N	0/ N
■status monitoring on LOSSNAY interlocked (Group / Interlocked)	Status monitoring on LOS	SSNAY in	terlocked	(Group /	Interlock	ed)															
	UN/OFF	N/O	N/O	N/O	N/O	N	N	0/0	0/0	0/0	0/0	0/0	▲/▲	0/0	0/0	0/0	0/0	0/0	▲/▲	0/0	0/0
	Fan speed	N/O	N/O	N/O	N	N	N	0/0	0/0	0/0	0/0	0/0	N/N	0/0	0/0	0/0	0/0	0/0	N/N	0/0	0/0
	ventilation mode	N	N	N	N	N	N	O/N	O/N	O/N	O/N	O/N	N/N	10/ N	O/N	O/N	O/N	O/N	N/N	O/N	0/ N
	Ventilation mode	N	N	N	Ν	Ν	N	O/N	O/N	O/N	O/N	O/N	N/N	O/N	O/N	O/N	O/N	O/N	N/N	O/N	O/N
Ventilation mode         N         N         N         N         N         O/N         O/NO/NO/NO/NO/NO/NO/NO/NO/NO/NO/NO/NO/NO	0	0.5.1			0.000																

©: 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-50 (●) : License registration for the optional functions required N : Not Available (Not Used.) △: Batched only ; ▲: Batched handling (for maintenance) nse registration possibl : 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/KAG-150A/EB-50GU-J license registration to AE-200E/AE-50E/KM-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.

- The maximum number or controllable units decreases depending on the index. In model.
   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. BAC-HD150 ver. 2.10 and later supports the dual set point function.

Air conditioner control system interface LMAP04-E:LonWorks® Interface Controls up to 50 Groups/ 50 units, for details, refer to its description.

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. \*12

<sup>\*5.</sup> 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.6.50A or later.
EW-50E is compatible with TG-2000A Ver.6.60 or later.
\*6. This function can be set only on the ME remote controller.
\*7. 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. Exc indoor use only.

## Individual **Remote Controller**

#### Wired MA remote controller PAR-31MAAE

Dual

Point



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



• Temperature will be displayed either in Centigrade in 0.5or 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**

	O: Each group	$\times$ : Not ava	ilable
Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches among Cool/Dry/Fan/Auto/Heat.	0	0
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.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
Louver setting	Switches between louver ON/OFF.	0	0
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.	0	0
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.	_	0
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.	0	0
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).	×	0
Operation lock	The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.	0	0
Temperature range restriction	The room temperature range for each operation mode can be restricted.	0	0
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.	0	x

#### Wired MA remote controller PAR-21MAA



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

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

#### Multi-language Display Example [Dot display table]

- 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



Langu	lage	English	German	Spanish	Russian	Italian	Chinese	French	Japanese
Waiting for start-u	р	PLEASE WAIT	←	←	←	←	←	←	←
Operation mode	Cool	©COOL	ØKühlen	<b>ö</b> frío	©Холоа	©COOL	②制冷	©≈FROID	◎冷房
	Dry	O DRY	oTrocknen		ОСушка	O DRY	〇除湿	ODESHU	0ドライ
	Heat	≍HEAT	¤Heizen	¤(ALOR	⇔Тепло	☆HEAT	☆制热	¤CHAUD	淬暖房
	Auto	‡‡AUTO	t;tauto	↑→AUTO- ←↓MÁTICO	‡⊒Авто	t;tauto	は自动	t;tauto	⇔口目
	Auto(Cool)	‡;;COOL	t‡Kühlen	‡ĴFRÍO	‡‡Холоя	‡‡COOL	は制冷	‡;‡FROID	は冷房
	Auto(Heat)	t≓tHEAT	‡‡Heizen	‡‡(ALOR	‡;;Тепло	t≓HEAT	は制想	‡‡(HAUD	↓↓ 暖房
	Fan		<b>SSL</b> üfter	S LACIÓN	<b>\$\$</b> Вент		\$\$送风	S LATION	\$\$送風
	Ventilation		₩Gebläse Wetrie⊾		₩Венти- Жляция		XΣ换气		382换気
	Stand by (Hot adjust)	STANO BY	STANO BY	CALENTANDO	ОБОГРЕВ: Пауза	STAND BY	准备中	PRE CHAUFFAGE	<b>準備中</b>
	Defrost	DEFROST	Altaven	DESCONGE - LACIÓN	Оттаивание	SBRINA MENTO	除霜中	DEGIVRAGE	霜取中
Not use button		NOT AVAILABLE	NiCht Verfusbar	NO DISPONIBLE	НЕ Аоступно	NON DISPONIBILE	无效按钮	NON DISPONIBLE	無効ポッソ
Check (Error)		Снеск	Prüfen	COMPROBAR	Проверка	Снеск	检查	CONTROLE	点検
Test run		TEST RUN	Testbetrieb	test funcio Namiento	ТЕСТОВЫЙ ЗАПУСК	TEST RUN	试运转	TEST	試ウソテソ
Self check		SELF CHECK	Selbst - diagnose	AUTO REVISIÓN	Самодиаг- Костика	SELF CHECK	自我诊断	AUTO CONTROLE	自己リッグリ
Unit function selection		FUNCTION	FUNKTION SAUSWANI	SELECCIÓN DE FUNCIÓN	Выбор Функции	SELEZIONE	功能选择	SELECTION FONCTIONS	キノウ選択
Setting of ventilation		SETTING OF VENTILATION	Lüfterstufen Wahlen	CONFIG. VENTILACIÓN	Настройка Вентустан.	IMPOSTAZIONE ARIAESTERMA	换气设定	SELECTION VENTILATION	换氮淀

#### **Functions**

		X. NOL ava	liable
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	0	0
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.	0	0
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 NI6H fan speed only.	0	0
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.	0	0
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.	0	0
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, "	x	0*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 : Coo I, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	x	0
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	X	
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.	0	0
Set temperature range limit	Set temperature range limit to cooling, heating, or auto mode.	0	0
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	0	0

O Fash server . Materialishis

#### **ME remote controller PAR-U02MEDA**



 $\begin{array}{l} \mbox{Dimensions} \ : 140(W) \ x \ 120(H) \ x \ 25(D) \ mm \\ \\ \ : 5 - 9/16(W) \ x \ 4 - 3/4(H) \ x \ 1(D) \ in. \end{array}$ 

#### Example of system configuration



- Occupancy Sensor
- The occupancy sensor detects vacancy for energy-save control.

#### • Touch Panel & Backlit LCD

The touch panel shows the operation settings screen. When the backlight is off, touching the panel turns the backlight on, and it will stay lit for a predetermined period of time.

LED Indicator

The LED indicator indicates the operation status in different colors. The LED indicator lights up during normal operation, lights off when units are stopped, and blinks when an error occurs.

#### Brightness Sensor

The brightness sensor detects the brightness of the room for energy-save control.

Temperature & Humidity Sensor

The sensor detects the room temperature and the relative humidity.

- Device control via AHC (Advanced HVAC Controller)
   Allows for control of other manufacturer's products connected via AHC
- Auto (dual set point) modes

Two set temperatures (one each for cooling and heating) can be set

Occupancy Sensor detection zone



Vertical direction



#### $\bigcirc$ :Each group $\times$ :Not available

Item	Description	Operations	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Drying / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model. Auto mode is for CITY MULTI R2, and WR2 series only.	0	0
Temperature setting	The temperature can be set within the following range. Cool / Drying : 19°C - 38°C / 67°F - 95°F Heat : 4.5°C - 28°C / 40°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. * The settable temperature ranges vary depending on the indoor unit model.	0	0
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	0	0
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	0	0
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.	×	0
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.)	—	0
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.	0	0
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.	0	0
Energy-save control during /acancy	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/Set 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.	0	0



## 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  $\boxed{\mathbf{v}_{u}}$  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	X : Not ava	allable
Item	Description	Operations	Display
ON/OFF	Changes between ON and OFF.	0	0
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.	0	0
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.	0	0
Fan speed setting	Changes the fan speed. * The settable fan speed varies depending on the indoor unit model to be connected.	0	0
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.	x	0
Error	Displays the current error status with the address. * The address may not be displayed depending on the error status.	x	
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.	0	0
Set temperature range limit	The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO).	0	0

#### 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.



 $\label{eq:par-slg4B-E} \begin{array}{c} \mbox{PAR-SL94B-E} \\ \mbox{(Wireless remote controller kit for ceiling suspended)} \\ \mbox{Dimensions: 182(W) x 57(H) x 31(D) mm} \end{array}$ 

- 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.

Example of system configuration

\*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.

#### Signal receiving Signal unit eceiving 3 unit PAR-SL94B-E Non-polarized 2-wire Signal receiving unit **000** ∇ **000** ∇ Wireless Wireless Wireless ..... remote controller controller remote controller PAR-FA32MA PAR-SA9FA-E PAR-SI 94B-F

#### 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	FAR-FA32IVIA	
PEFY-P VMS1(L)		PAR-FI 32MA
PEFY-VMA(L)		
PCEX-P VKM	PAR-FA32MA	
	PAR-SL94B-E	
PLFY-P VBM-E	PAR-SA9FA-E	
PKFY-P VBM-E	Duiltin	
PKFY-P VHM/VKM	Built-IN	

#### **Functions**

	U: Each group	X : Not ava	liable
Item	Description	Operations	Display
ON/OFF	ON and OFF operation for a single group	0	0
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 NI6H fan speed only. * Set to PAR-FL32MA according to its Installation Manual 4 "Model setting".	0	0
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.	0	0
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.	x	0*1
Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.	X	x
* Some models will have different display for the six flowdirection and for anod			

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

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.

System structure



- Temperature will be displayed either in Centigrade in 0.5or 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.

#### 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.

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



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

Remote Controller

ALC: NO.

#### 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

#### Advanced Functions

#### 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)

	☐ : Each unit ○: Each group ◎ : Group or collective		
ltem	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.	O	0
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.	0	0
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.	x	0
Ventilation (independent)	Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.	0	0
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.	0	0
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.)		0
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.		0
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.	0	0
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.		0
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 in available.	0	0

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 controller AE-200E/AE-50E



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.

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

#### **Control Screen for Power Consumption**



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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

## • By comprehensibly 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 airconditioning 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.<sup>11</sup>

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

- $\bullet$  Features for operating and monitoring the hot water heat pump are also available on CAHV, PWFY, and CRHV.  $^{\circ 2}$ 
  - Centralized batch control on CAHV, PWFY, and CRHV  $^{\mbox{\tiny *2}}$
  - 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





#### With a license

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

#### **Functions**

	□ : Each unit O : Each group ● : Each block △ : Each floor O :	Collective X:	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.)	$00\Delta \bullet$	$\bigcirc \bigcirc$
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	0040	0
Temperature setting	Coo/Dry: 19°C (67°F) -35°C (98°F) [14°C (57°F) -30°C (83°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.	0040	0
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.	0040	0
Air flow direction setting	Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set)	$\bigcirc \bigcirc \triangle \bigcirc \bigcirc$	0
Schedule operation	Weekly schedule can be set by groups based on daily operation pattern.	$00\Delta \bullet$	0
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.	0040	0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	×	0
Error	When an error is currently occuring on an air conditioning unit, the afflicated unit and the error code are displayed.	×	
Test run	This operates air conditioning units in test run mode.	$00\Delta \bullet$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$00\Delta0$	0
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"	0	O
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.	×	0
New Smart ME contoroller	The status of sensor on this controller can be monitored.	×	Ó
Smartphone/Tablet	The specified Web browser on iOS and Android OS can monitor and operate AE-200E. *1	0	0
New Web design	The web screen design is renewed for user friendly interface. *1	$00\Delta \bullet$	0
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 <sup>®</sup> communication	ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1	0	×

\*1. Please contact your local distributor for when the feature is supported.] \*2. One more AE-50E unit is necessary. Remote Controller

#### **Centralized controller EW-50E**



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

#### System Structure

System diagram (standard)



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

#### • 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<sup>11</sup>. 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.<sup>12</sup>

- $^{\ast}$  1. The operation of this product has been confirmed on
  - Internet Explorer 8, IE9, IE10, and IE11, and on Oracle<sup>®</sup> 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.



Apportioned electricity charge function

Available as the expansion controller for AE-200E

operate and monitor a maximum of 200 indoor units.

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

Connecting three EW-50E units to an AE-200E makes it possible to

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

System diagram (with charge setting)

**Main Features** 

tool





 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<sup>-1</sup> 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.

* The functions and specifications are subject to change. (2): By group or multiple groups (2): By groups (2): B		Ba	tch only
Item	Remarks	Setting	Display
ON/OFF	Switches to ON or OFF air conditioners and general equipment.	0	0
Operation mode switching	Switches to cool, dry, auto, fan, or heat operation. * Depending on the unit, some modes are not available.	$\bigcirc$	0
Room temperature setting	The temperature can be set within the following range. Cool/Dry: 19°C - 35°C/67°F - 95°F Heat: 4.5°C - 28°C/40°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.	0	0
Set temperature 0.5°C	The temperature can be set and displayed in 0.5°C increments.	0	0
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.	0	0
Air direction setting	Fixed swing in five levels or auto air direction can be set. * Available air directions differ depending on the unit.	Ŏ	Ŏ
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.	0	0
Room temperature display	Displays the suction temperature of the indoor unit.	—	0
Error display	Displays the current error content together with the address.	—	0
Schedule operation	Today/weekly/weekly by season/yearly Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan	O	0
Energy management	Displays the power consumption* or operating hours. * Requires an optional part.	—	0
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.	0	0
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.	0	0
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	© .,	◎.,
Filter reset	Filter sign reset	Ó	
Connectable location	Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable	_	_
* The functions and encoificati	ince 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.

\* 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 <sup>2</sup> Environmental measuring controller, metering measurement controller, general interface

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**



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.

#### 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

AG-150A interlock with DIDO controller or free contact on an indoor unit available.

#### **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.

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4 29:00 👿				
			×	Cancel

Weekly schedule screen

#### 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**

	$\Box$ : Each unit $\bigcirc$ : Each group $igodoldsymbol{\Theta}$ : Each block $\bigtriangleup$ : Each floor $\oslash$ : Collective	X∶Not ava	ailable
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.)	$\bigcirc \bigcirc \triangle \bigcirc$	00
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.	0040	0
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 DinSW7-1 to ON Ver DEFY-PA/VMH-F-E 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.	0040	0
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)	$\bigcirc \bigcirc \land \bigcirc \land \bigcirc$	0
Schedule operation	Annaul/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.		0
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).		0
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	0
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.	$\bigcirc \bigcirc \land \bigcirc \land \bigcirc$	0
Ventilation interlock	In ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$\bigcirc \bigcirc \triangle \bigcirc \bigcirc$	0
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"	O	O

\*NOTE: Operation and displayed content vary depending on the indoor unit model . •Future release schedule is subject to change without notice.

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



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



- 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.
- 16 groups/50 units can be controlled.
- ·Up to 16 groups/50 units can be operated with one ON/OFF remote controller.

A general-purpose interface is available for control, so general devices can also be turned ON and OFF.

• Just press a switch to start.

All of the units can be started and stopped by pressing the main switch, and each unit in the group can be started and stopped with individual switches.

• LED flashing during failure.

If any error should occur in the air conditioner, its details can be confirmed easily with the flashing LED. The LED also indicates whether each group is running or stopped.

• Interlock operation with external system possible.

It can be flexibly interlocked with a card reader, fire alarm system or building management system, etc., using the incorporated external input/output function.

• Flexible group setting.

•The groups can be easily configured, so the group pattern can be freely set according to the layout.

•The ON/OFF remote controller can be connected at the indoor/outdoor transmission line without the power supply unit.

#### NOTE

Dual set point function is available depending on the version of the controller.

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

FUNCTION	DESCRIPTION	PAC-YT	40ANRA
UNITS	Max No.Units	50 units/	16 groups
		OPERATIONS	DISPLAY
ON/OFF	ON and OFF operation	$\checkmark$	$\checkmark$
	LED flashes during failure.		,
ERROR INDICATION	(The error code can be confirmed by removing the cover.)	_	
VENTILATION OPERATION	Group operation of only LOSSNAY units possible.		
(INDEPENDENT)	*Only ON/OFF of group.		
	The LOSSNAY will run in interlock with the operation of indoor unit.		
(INTERLOCKED)	*The fan rate and mode cannot be changed.	$\checkmark$	$\checkmark$
	The LED will turn ON only during operation after interlocking.		
EXTERNAL INPUT	On/Off/Fire Alarm *	$\checkmark$	-
EXTERNAL OUTPUT	On/Off/Faults *	_	$\checkmark$

\* Applicable to collective only Not applicable to groups

#### Centralized controller EB-50GU-J



EB-50GU-J (without display) • Dimensions:9-7/8 (W) x 8-9/16 (H) x 3-7/8 (D) in. :250 (W) x 217 (H) x 97.2 (D) mm



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

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<sup>®</sup> 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

	□:Each unit ○:Each group ●:Each block △:Each floor ⊚:Collecti	ve X:Not a	available	
Function	Description	Operations	Display	
ON / OFF	ON and OFF operation for the air conditioner units	$\bigcirc \bigcirc \bigcirc$	00	
Mode selection	Switches between COOL/DRY/FAN/AUTO/HEAT	$\bigcirc \bigcirc \bigcirc$	0	
Temperature setting	The temperature can be set within the following range. Cool/Drying: 67°F - 95°F/4.5°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.	○●⊚	0	
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.		0	
Permit / Prohibit function	Individually prohibit operation of each local remote control function		0	
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.		0	
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.			
Test run	This operates air conditioner units in test run mode.		0	
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).		0	
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.	×		

\*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.





#### AHC ADAPTER PAC-IF01AHC-J



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

 $\alpha$  SIMPLE APPLICATION CONTROLLER is one of the Programming Logic Controllers that are manufactured by MITSUBISHI ELECTRIC CORPORATION.

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

## 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.
- 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



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

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. Capacity 80% Capacity Value No energy-saving effects Time

#### 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.

M-NET

DIDO controlle

Security card reader

#### General-purpose equipment Control

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

AN

**AE-200E** 

Power supply unit PAC-SC51KUA

- · 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.



AI Controller PAC-YG63MCA



Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(Ŵ) 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 Al 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 Al 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

AC of other companies

- 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



Lights

#### Integrated centralized control software TG-2000A



#### 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)

#### LONWORKS® (LMAP04E)

CITY MULTI can easily combine into a Building Management System (BMS) via the LONWORKS<sup>®</sup> and M-NET adapter LMAP04. LONWORKS<sup>®</sup> 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<sup>®</sup>.



#### 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.



LONWORKS<sup>®</sup>

The building management system is connected to the CITY MULTI air conditioning system using LONWORKS<sup>®</sup>, which is widely used on field networks, allowing for an open network and savings in construction to face.

## LON, LONWORKS<sup>®</sup> and the Echelon logo are trademarks of Echelon Corporation registered in the United States and other countries.

LONWORKS® INTERFACE		
FUNCTION	CONTENT	
Control		
ON/OFF	ON/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	o-Mi1-Mi2-Hi	
Permit/Prohibit	ON/OFF, Mode, Setpoint	
Emergency Stop	-	
Monitoring		
ON/OFF	ON/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	Normal/Abnormal	
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<sup>®</sup> and M-NET adapter BAC-HD150. BACnet<sup>®</sup> is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS via BACnet<sup>®</sup>.



#### 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.



BACnet® and M-NET adapter			
FUNCTION	CONTENT		
Operation			
ON/OFF	ON/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	ON/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	Temperature		
Alarm Signal	Normal/Abnormal		
Error Code	2 Character code- Indicates all unit alarms		
Communication State	Normal/Abnormal		









## **OPTIONAL PARTS FOR INDOOR UNITS**

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

Description	intion Medel		ty	Domerko
Description Model		VBM	VCM	Remarks
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-SH53TM-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)

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

Model

PMP-40BMW

Applicable capacity

P20, P25, P32, P40

Description

Decoration panel

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

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

Description	Model	Applicable capacity		Demester
		VMH(S)-E	VMH-E2	Remarks
	PAC-KE04DM-F	P40~P140	-	
Drain pump	PAC-KE05DM-F	P200, P250	-	
	PAC-DRP10DP-E	-	P40~P140	
	PAC-KE86LAF	P40, P50, P63	P40, P50, P63	
Long life filter	PAC-KE88LAF	P71, P80	P71, P80	
	PAC-KE89LAF	P100, P125, P140	P100, P125, P140	
	PAC-KE85LAF	P200, P250	-	
Filter box	PAC-KE63TB-F	P40, P50, P63	P40, P50, P63	
	PAC-KE80TB-F	P71, P80	-	
	PAC-KE99TB	-	P71, P80	Necessary when long life filter is used
	PAC-KE140TB-F	P100, P125, P140	P100, P125, P140	
	PAC-KE250TB-F	P200, P250	-	

#### >>Ceiling concealed type (PEFY-VMA(L)/VMA3)

Description	Model	Applicable capacity		
		VMA(L)	VMA3	
Filter box	PAC-KE91TB-E	P20, P25, P32	-	
	PAC-KE92TB-E	P40, P50	P20	
	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
	PAC-KE88LAF	P80
Long life filter	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))

Model	Applicable capacity	
PAC-KE07DM-E	P15, 20, 25, 32, 40, 50, 63	*For PEFY-VMS1L only
PAC-KE70HS-E	P15, 20, 25, 32, 40, 50, 63	
	PAC-KE07DM-E PAC-KE70HS-E	PAC-KE07DM-E         P15, 20, 25, 32, 40, 50, 63           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

#### >>Floor standing type (PFFY-P-YM(H))

Description	Model	Applicable capacity
OA dust flangs	PAC-ODF10DF-E	P200, 250
OA duct hange	PAC-ODF20DF-E	P400, 500
Plenum	PAC-PLE20PL-E1	P400, 500



## **OPTIONAL PARTS FOR OUTDOOR UNITS**

#### >>For PUCY series

Description	Model	Remarks
	CMY-Y100VBK3	For PUCY-P550~P650 / EP400~EP650YSKA / SEP300~SEP400YSKA
Twinning kit	CMY-Y200VBK2	For PUCY-P700~P1000 / EP700YSKA
	CMY-Y300VBK3	For PUCY-P1050~P1350 / EP750~EP1100YSKA / SEP450~SEP650YSKA
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
Branch pipe (Joint)	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)
		The 1st branch of P450~P650
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)
		The 1st branch of P700~P1250
	CMY-Y104-G	For 4 branches
Branch pipe (Header)	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	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
	CMY-Y68-G-E
Branch box	PAC-MK31BC
	PAC-MK51BC

#### >>For PUHY series

Description	Model	Remarks	
	CMY-Y100VBK3	For PUHY-P550~P650YSKA / EP400~EP650YSKA	
Twinning kit	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	
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)	
		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	
Control box guard	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	Electrical 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
LMAP04-E	Air conditioner interface	PAC-YG86TK	Mounting kit for AE-200E wall-mount installations
PAC-YG11CDA	Electric amount count software	PAC-YG71CBL	Black surface cover for AG-150A
BAC-HD150	BAC net <sup>®</sup> 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 defrostprocess.
- •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°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B.

Heating: -10°CD.B.~ 20°CD.B

The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.

- Cooling: 21°CD.B or below; Heating: 20°CD.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 calculated. Note that the electric power consumption by air conditioner is calculated. Note that the electric power consumption by 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)

Major components	Checking cycle	Maintenance cycle	Major components	Checking cycle	Maintenance cycle
Compressor	1 year	20,000 hours	Expansion valve		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, presser sensor)	1 year	5 years
Electric board		25,000 hours	Drain pan		8 years
Heat exchanger		5 years			

Table 1. Maintenance cycle

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		5 years	
High-performance filter		1 year	
Fan belt	1.000	5,000 hours	
Smoothing capacitor	ryear	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.)

# MITSUBISHI ELECTRIC MULTIPLE SPLIT TYPE AIR CONDITIONERS R410A Series



# 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 environmental management system standard ISO 14001 certification.

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.

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

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.

#### <sup>▲</sup>Warning

■ Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.

**ISO Authorization System** 

authorized plant.

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

# MITSUBISHI ELECTRIC CORPORATION

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