

AIR CONDITIONING SYSTEMS

CITY MULTI



CM23AS-Y

CITY MULTI YKE-Series Further Enhanced Energy Saving

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

High rated performance

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

High partial-load performance

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



Energy saving assist function

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



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• Indoor unit	111 ~ 158P
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New release products

Outdoor unit PUCY-P Y(S)KE(-BS) PUCY-GP YSKE(-BS) PUCY-EP Y(S)KE(-BS)

Indoor unit PLFY-EP VEM-E PMFY-P80VFM-PA PFFY-P VEM-E

Remote controller PAR-41MAAM

LOSSNAY LGH-RVX3-E

1. Energy-saving performance

Wasteful energy use can be prevented by operating the inverter according to the load and by using an intelligent power module. Now, further enchanced with our latest YKE-series lineup

2. Self-developed Compressor

Mitsubishi Electric has focused on in-house development of the compressor, the core component of the air conditioner. We have developed compressors that meet the specifications required by the air conditioner.

3. Mitsubishi Electric Quality

CITY MULTI is produced under strict production controls. Production lines are controlled to prevent any minor errors by unique systems, such as "parts server", "Cart Navi".

4. Developed in Japan

The product concept and key parts of CITY MULTI, have been designed at Mitsubishi Electric Works in Japan. This comprises all of the highly technological developments over our long history in Japan.

5. Own system control: M-NET

Mitsubishi Electric uses "M-NET", an original air-conditioner network system. M-NET is a network that connects CITY MULTI air conditioners in a building through the use of transition wiring with 2 non-polar wires.

Control of air-conditioning units and fine control of each indoor unit is accomplished by connecting Mitsubishi Electric Air-conditioner Network System (MELANS) to M-NET.

6. Various applications

CITY MULTI can be installed in various types of buildings, such as residences, offices and hotels. A suitable model can be selected according to the situation of use.

*What is Variable Refrigerant Flow (VRF)?

VRF is characterized by the ability to connect multiple indoor units to one outdoor unit and control the indoor units individually. The outdoor unit uses an inverter-driven compressor and can change the refrigerant flow rate according to the indoor unit load.

Since the capacity range of the indoor unit is wide, air-conditioning of even small spaces is possible. Also, indoor units can be individually started, stopped, and controlled to regulate temperature, thereby leading to energy savings.

Installation information

Energy saving performance

The advantage of CITY MULTI from Mitsubishi Electric is its high energy efficiency, which leads to increased energy savings.

The energy-saving performance of CITY MULTI has been improved to a high level within the industry through technical innovation.

100%

15%

9.00

8.00 7.00

6.50

6.00

5.50 5.00

4.50

4.00

3.50 3.00 Cooling Capacity *YKE-Series

Compressor Frequency

EER (Partial load 50%)

6.54

* Values vary depending on actual conditions, such as ambient temperature.

Compresso

8.43

EP-YKE achieves

29% higher EER

at 50% partial load

Linear Capacity

Control

6.07

Smart control for saving energy

The compressor varies its speed to match the indoor cooling or heating demand, thus it only consumes the amount of energy 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 importance of partial-load efficiency

The energy efficiency ratio (EER) is an index calculated at an ambient temperature of 35°C [95°F]. Actually, the temperature difference between day and night is large, even on hot days.Therefore, it is important to save energy across various temperatures where the EER cannot be measured perfectly. CITY MULTI can achieve true energy savings by improving efficiency not only under rated conditions, but also under partial-load conditions.



High rated performance

CITY MULTI's distinct advantage is its high energy efficiency, which leads to increased energy savings. One of the industry's highest level of energy-saving performance has been achieved through technical innovation





Developed by

Mitsubishi

Electric

Motor(core)

Scroll

Self-developed Compressor

The compressor is the heart of an air conditioner, contains inverter control. Mitsubishi Electric manages all compressor production processes, from development, design, and manufacture to quality control. We develop high-performance compressors to improve performance to a higher level.

Key compressor parts designed by Mitsubishi Electric

Key parts of the compressor such as the scroll and motor (core) are designed by Mitsubishi Electric to increase the operation efficiency of the outdoor unit.

In order to achieve energy saving operation while also improving reliability, a low-pressure shell compressor is used, resulting in stable long-term running performance.

High reliable low-pressure shells



Low-pressure shell compressor for top flow models

Most of the area in the compressor is taken up by the low-pressure gas. The refrigerant is drawn in from the side of the compressor and moves to the bottom of the shell where it flows to the scroll section and is compressed. The compressed high-pressure gas is discharged from the top of the compressor. **This prevents the motor and bearings from being heated up by the compressed high-pressure gas.**

The refrigerant is collected at the bottom of the shell to reduce the rate of compressor damage caused by liquid refrigerant compression.

Snap-in core

Mitsubishi Electric has incorporated a new and original production process that wraps a conductor directly around the split core to create a compact and highly efficient motor.





Mitsubishi Electric Quality

Under its quality first principle, Mitsubishi Electric is creating products with an unwavering commitment to quality, producing air conditioning systems that provide comfortable spaces for people around the world.

COMFORT

Beyond creating a comfortable environment, we aim to achieve harmony between users and their surroundings.

EFFICIENCY

We strive to achieve optimum cost performance by continuously reducing energy requirements and improving eco-friendliness.

DURABILITY

Our products are subjected to rigorous testing under harsh conditions that are more extreme than that of the real world to ensure years of reliable service.

Commitment to quality on the production line

The main plant for CITY MULTI, Air-Conditioning & Refrigeration Systems Works, produces many kinds of products and has introduced several unique systems.

These systems include, for example, a "parts server" for preparing parts for assembled, a display for providing indications according to the work point, and "Cart Navi," which prevents work from proceeding to the next process if the correct procedure and specified tools have not been used to achieve the expected process quality. The plant intends to improve both the production efficiency and quality. As the result of this, human errors can be prevented in operations requiring high skills and when handling small parts, such as screws, thus producing high-quality products. These same systems are used in our Thai plant.

On the production line for the primary product, i.e. outdoor units, an airtightness check is performed using helium to eliminate any refrigerant leakage from the piping. After the airtightness check is performed twice and the units are assembled, the units are tested to confirm normal operation. Only the units that pass this test are shipped.



itsubishi

lectric

Air-Conditioning & Refrigeration Systems Works



Cart Navi



Compressor also developed and manufactured by Mitsubishi Electric Refrigerant leak inspection process using helium gas * Applies to CITY MULTI.

Developed in Japan

Mitsubishi Electric is renowned globally and is a household name with a solid reputation for excellent products and services. The company was founded in 1920 and is known by its present name: Mitsubishi Electric. Since our founding, we have risen to the top level of the air conditioning industry and we continue to maintain that position. The company is proud of its achievements in providing some of awarded systems on the market.

Reliable modules appreciated

History of CITY MULTI



Creating high-quality products with cutting-edge technologies and professional people who have deep experience in the development factory

All models of CITY MULTI to be exported around the world are examined at the development factory to ensure that they can withstand the environmental conditions in each region, and products that have passed the quality check are supplied. The marketing, unit design and guality control departments put together a team to work on developing high-guality products. Also the parts used in the units are checked for quality. We have determined the evaluation criteria for more than 300 parts and use only those that have passed the durability and safety tests.

Salt spray test

A sodium chloride solution is sprayed on the part to be tested and evaluated, and the rust generated on the surface is observed to evaluate the corrosion resistance. In accordance with JRA90021,

the standard models and BS models are subjected to this salt

spray test for 480 hours and 960 hours respectively.

Heat shock test

The part is exposed to repeated temperature changes to verify its resistance to changes in ambient temperature.



All parts for CITY MULTI have been checked for quality and reliability.

Own system control: M-NET

A networked system called M-NET is used to control air conditioner operation. Air conditioners can be grouped and controlled appropriately for use by MELANS (Mitsubishi Electric Air-conditioner Network System), which centrally controls air-conditioning units on the network.

Basic M-NET system

The basic M-NET system for multiple building air conditioners consists of outdoor units, indoor units and remote controllers. Outdoor units and indoor units are connected to M-NET through the "outdoor/indoor unit transmission line," and the indoor units and remote controllers are connected through the "remote controller line". Two types of local remote controllers are available: MA and ME. Numbers called M-NET addresses are assigned to outdoor units, indoor units, and local remote controllers, **thus allowing interaction via commands to operate the air conditioners and change settings.**



Controller example

There are many controller options:

They can be connected to a Building Management System using BACnet[®] or a LonWorks[®] interface for a high level of control.

* Optional parts or licenses may be required depending on the type of control.

For more detailed information, please contact your nearest sales office or distributor.



Examples of controller functions

Control using smartphone or tablet terminal* (AE-200E)

Air conditioners can be monitored and operated by using tablets and

smartphones when a Wi-Fi router is connected to the LAN.





ME Controller (PAR-U02MEDA)

The ME remote controller can be operated when it is connected with any of the indoor units.

When changing the room layout, you can set the groups easily with the remote controller.



Schedule-based control of temperature and operation mode

The air conditioner's start time can be scheduled according to the opening time or a fixed time. The function can be locked during working hours so that staff cannot control the air

* Centraized Remote controller is required to use this function.

conditioners.

Auto-off function via the occupancy sensor (PAR-U02MEDA)

When the built-in occupancy and brightness sensors detect vacancy in a specific zone, the controller uses its internal function to reduce energy consumption.



Operation can be continued even if indoor unit stops for maintenance

Mitsubishi Electric indoor units can continue to operate, even if one is under repair, because the unit's LEV is closed by supplying power from outdoor unit automatically.



* Before starting maintenance, please confirm that LEV is closed.



Varied applications

Various commercial and residential facilities can benefit from the advantages of Mitsubishi Electric's CITY MULTI system.

Design flexibility

Depending on building design, size and usage, the choice of air conditioning differs. The CITY MULTI series offers a wide range of solutions to match various design requirements.

Energy saving

The CITY MULTI series and system realize high energy savings with zoned comfort operating unit independently by units, room or floors.

Simple installation

Compared to a conventional chiller and fan coil system, CITY MULTI 2-pipe system does not require pumps or control panels, as these functions are integrated into the outdoor units. Moreover, maintenance is easier with less key components.

Residence

The CITY MULTI series provides homeowners with large residences with multiple bedrooms an energy efficient solution which realizes comfort living environment through daily operations. Different types of indoor units can be selected and connected to an outdoor unit

Outdoor unit



Energy saving with zoned comfort

It is possible to manage air conditioning units independently by units, room or floor.

High partial load performance

In residential applications, not all rooms are used at once. Having an efficient operation even at partial load is a great advantage in running cost.

Low operation noise

Low noise mode offers residents a peaceful living environment. * Capacity drops during low noise mode.





Condominium

Air-cooled side-flow S series Small footprint suitable for installation around buildings or even on the balcony.



Luxury Houses

Air-cooled heat pump Y series

Up to 60HP model lineup and max. 50 indoor units connectable. Suitable to cover multi-story by single outdoor unit.

Flexible installation

External static pressure selectable (0,30,60 Pa) to match site condition.



Please do not install the outdoor unit adjacent to a room where quietness is required.

Quiet operation mode

Low noise operation contributes to realize a peaceful living environment.

* Capacity will be automatically reduced when transitioning into low noise mode.

(Ex) PUHY-P200YKD Standard 57dB -13 dB Low noise mode 44dB (50%)

Indoor unit



Various types of indoor units contribute to meet different room design.





concealed type Low noise level: Min. 22dB (P15)* External static pressure: 5, 15, 35, 50 Pa





concealed type Low noise level : Min.22dB (P20/25)*

External static pressure: 35 or 40, 50, 70, 100, 150 Pa





1-way airflow ceiling mounted type

Excellent solution for rooms with lighting equipment are at the center of the room or wall surface occupied.

* Measured in anechoic room under testing condition. Actual noise depends on installation.

Control

Local remote controller

Easy to understand and use with simple buttons.

Basic operation and status monitoring available.

* Requires wireless signal receiving unit



Wireless remote controller

Centralized remote controller

LCD color touch panel enables easy and simple operation.

Able to collectively control all indoor units (up to 50 indoor units).



Advanced touch controller

Office

Air conditioning systems supplied by Mitsubishi Electric play an important role in providing comfort to the workers, preserving flexibility, by enabling control to be maintained of the whole building, as well as independent control of floors and spaces.



Outdoor unit / Heat source unit



Energy saving with zoned comfort

It is possible to manage air conditioning units independently by units, room or floor. Provides personal comfort for the room occupants and at the same time saves energy.

Adaptable to different design and structure

Depending on building structure and design, it is possible to choose the outdoor unit that fits in the available space and are visually discreet.

Low rise



Air-cooled side-flow S series

Small footprint suitable for installation around buildings or even on the balcony.

High rise

Water-cooled heat pump Y series

VRF system with a water circuit. The compact heat source units are installed in machine rooms on each floor suitable for high rise buildings.



Middle rise

Air-cooled heat pump Y series

One outdoor unit connects up to 50 indoor units. Max total piping length of 1,000m provides flexibility to match requirement of various buildings.



High reliable system

Measures in case of malfunction or maintenance leads to higher reliability.



Mitsubishi Electric's original M-NET system enables indoor units to continue operation even when one unit in the system stops due to malfunction or maintenance.

Centralized Control - AE-200E



Assist quick response to error

Error notification e-mail and error log / icons on the display enables quick action in case of trouble.

Time saving billing method

AE-200E apportions the value on the WHM of the outdoor unit based on the operating time of each indoor unit.

Advanced energy saving with peakcut operation

Energy saving with outdoor unit capacity control depending on demand level or the electric energy values.

On-site or Remote control



AE-200E is a LCD color touch screen controller monitoring and controlling up to 200 indoor units/groups.

Enables on-site status monitoring, operation, scheduling, settings.

Remote management



The monitoring and control information can also be viewed remotely from a LAN-connected PC, tablet, or smartphones.



The system can be combined into the large-scaled BMS management via BACnet.

Meeting rooms

Local Control



Temperature & —_/ humidity sensor ME remote controller

Energy saving management with automatic OFF

Vacancy detected by the built-in occupancy sensor.



Easy layout change with ME type controller

Able to smoothly respond to tenant requirement to change layout.



Open space

Indoor unit



Various types of indoor units contribute to enhance air environment.

Customized airflow with i-see sensor

Realized with i-see sensor adjusting 4 vane direction (direct/indirect).





* In case of a 2.7m ceiling

Visually discreet with flexible duct design

The indoor units are concealed, and only the inlet and outlet slits can be seen. Static pressure up to 150Pa enables ducting to multiple rooms.



Hotels

The CITY MULTI series provides hotels a solution to realize greater comfort and energy conservation through daily operations.

Outdoor unit / Heat source unit



Energy saving with zoned comfort

It is possible to manage air conditioning units independently by units, room or floor.

High partial load performance

In hotels, the occupancy rate depends on the season and day of the week. Having an efficient operation even at partial load is a great advantage in running cost.

Adaptable to different design and structure

Depending on building structure and design, it is possible to choose the outdoor unit that fits.





Villas and Cottages

Air-cooled side-flow S series

Small footprint suitable for installation around buildings or even on the balcony.





Middle-rise Hotels

Air-cooled heat pump Y series

One outdoor unit connects up to 50 indoor units. Max total piping length of 1,000m provides flexibility to match requirement of various buildings.



High reliable system

Measures in case of malfunction or maintenance leads to higher reliability.

High-rise Hotels

Water-cooled heat pump WY series

VRF system with a water circuit. The compact heat source units are installed in machine rooms on each floor suitable for high rise buildings.



Centralized Control - AE-200E



System management and control with AE-200E



AE-200E is a LCD color touch screen controller monitoring and controlling up to 200 indoor units/ groups.

Enables on-site status monitoring, operation, scheduling, settings.



Prevent unnecessary operation of the indoor unit.

Change temperature setting when window or door to the balcony opens/closes.



Prioritize guest comfort at all times

Pre-cooling/pre-heating the room

By using the centralized controller's schedule function, it is possible to pre-cool/pre-heat the room before the guest arrives.

Interlock functions to ensure comfort

By interlocking an in-house power generator and AE-200E, in the case of a power shutdown, it is possible to reduce operating capacity in common areas such as the lobby or staff room.





Remote control/monitoring from a LAN-connected PC, tablet, or smartphone.

* A Wi-Fi router is required.



The system can be combined into the large-scaled BMS management via BACnet.







Indoor unit



Ceiling concealed low-noise type

Blends in various designed room and provide quiet sleeping atmosphere with low operation noise.





Local Control



Easy to use with large-sized icons and full color touch panel display.

Customized display color and control paramaters.









Schools

CITY MULTI series offer energy saving optimal air environment mandatory for students to concentrate and learn better.

Outdoor unit



Energy saving with zoned comfort

It is possible to manage air conditioning units independently by units, room or floor.

High partial load performance

In schools, not all rooms are used at once. Having an efficient operation even at partial load is a great advantage in running cost.

Small size

The air-cooled side-flow S series

Small footprint suitable for low-rise school buildings where the buildings are separated by functions such as classrooms, libraries or even by grades.

Middle - Large size

The air-cooled heat pump Y series

One outdoor unit connecting up to 50 indoor units. The unit can be installed collectively either on the roof or on the ground level depending on requirement.



Local Control



MA remote controller

Schedule setting

Easy to use with basic controls

Weekly schedule timer available. Different schedule can be set per day of week and 8 operation patterns (ON/OFF, Set temp)

Prevent unnecessary operation

To limit the access of operation such as students, it is possible to prohibit operations such as, ON/OFF, Mode, Set temp, Menu, Fan, Louver, Vane.

Indoor unit



Wide selection to match design requirement

Floor standing exposed types

Offers wide range of airflow rate and static pressure options. Suitable for wide open areas such as the cafeteria and sports halls.







Hospitals

CITY MULTI series are energy efficient playing an important role to maintain comfortable air environment for the patients spending quality time in the facility and doctors and staff working long hours.

Outdoor unit



Energy saving with zoned comfort

It is possible to manage air conditioning units independently by units, room or floor.



High reliable operation modes

Rotation control

Longer service life by operating outdoor units alternately and reducing operating load.

Emergency operation mode

Outdoor unit temporary performs emergency operation if there is at least one module that can operate normally.

* There is a limit to the time that can be continued emergency operation.

Wide operation range

High operating capacity even at 52°C outside temperature.







40/104 42/107 44/111 46/114 48/118 50/122 **52/125** Outdoor air temperature (°C/°F)



Optimized air quality with fresh air

Ventilation plays an important role to provide patients and doctors with adequate air quality throughout the day.

LOSSNAY system recovers the energy within the stale air from the inside and used to pre-cool the incoming fresh air from outside.



Control







Assist quick response to error

Error notification e-mail and error log / icons on the display enables quick action in case of trouble.

Indoor unit



Comfort air distribution with low noise level

* Measured in anechoic room under testing condition. Actual noise depends on installation.

Low static ceiling concealed type Sound pressure level: Min. 22dB (P15)*

External static pressure: 5, 15, 35, 50 Pa

Medium static ceiling concealed type

Sound pressure level: Min.22dB (P20/25)* External static pressure: 35 or 40, 50, 70, 100, 150 Pa

Outdoor/Heat source unit



Outdoor unit

Side flow type

- The side flow type, which has the selection from 4 HP up to 12 HP, contributes to reduction in installation space.
- 1 fan models are more compact, 981 mm [38-5/8 in.] in height



Top flow type

- A wide lineup of up to 60 HP
- Total piping length of 1000 m [3281 ft.], height difference of 50 m [164 ft.], and high flexibility in piping work
- Features various operation modes, and the unit can be set according to the intended use
- Both standard and high-efficiency models are available



Heat source unit

- Use of water piping allows for individual air conditioning with no need to worry about height differences.
- Installation of heat source units in machine rooms help reduce influence on building exteriors.





				HP	4	5	5.5	7	8	9	10	12	14	16	
System	Series	Туре	Model name	Model	P100	P125	P140	P175	P200	P225	P250	P300	P350	P400	
			S-Series			VKM2			YKM2		YB	M2			
		Cooling	PUMY-CP VKM2 (-BS)			ҮКМ2		7	8	9	10	12			
		Offiy	PUMY-CP YBM2 (-BS) CP100-CP140		4	5	5.5								
			Page 27-Page 29												
	-		S-Series												
	S		PUMY-SP VKM2 (-BS)		4	5	5.5								
			Page 30-Page 31												
		Heat	S Sorios												
		rump	PUMY-P YKM3(-BS)						ҮКМЗ		YB	M2			
			PUMY-P YBM2(-BS)					(7)	8	9	10	(12)			
			P175-P225									Ŭ			
			Fage 52-Fage 55												
			Y-Series Standard type	S					8		10	12			
			PUCY-P YSKE(-BS)												
			A . A										(14)	(16)	
			Page 57-Page 66	XL											
			Y-Series - High Standard type	s										8	
			PUCY-GP YSKE(-BS)											8	
			-	L											
Air															
cooled		Cooling only	Page 67-Page 71	XL											
			PLICY-EP YKE(-BS)	s					8		10				
			2001 II. (20)												
			Single												
	Y		Page 72-Page 73									12	14	16	
			PUCY-EP YSKE(-BS)											8	
				S										8	
			Combination												
			Page 74-Page 82	XL											
			Y-Series								10	12			
			PUHY-P YKD(-BS)	⁵					8			12			
			PUHY-P YSKD(-BS)	L									14	16	
				XL											
		Heat Pump	Page 83-Page 92	<u> </u>											
			Y-Series - High Efficiency	s										8	
			PUHY-EP YSKD(-BS)												
				L											
			Page 93-Page 97	XL											
			WY-Series	s					8		10	12			
Water		Heat		L									14	16	
cooled	Y	Pump		s										8	
			Page 102-Page 100	L											

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

18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100	P1150	P1200	P1250	P1300	P1350	P1400	P1450	P1500
		10	10	10	10	12						12	(12)								
		12				12						12									
18			14	16	18	18	16	16	18	18		18	14	14	16	16	16	18	18	18	
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8	10			12		8	8	10	10	12	12										
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10	10	12	12		(14)	(14)	(16)	(16)	(18)												
					14	16	16	18	18												

S-series

PUMY

The line-up of side-flow type outdoor units includes models from 4 HP to 12 HP, which offers flexibility in installations in tight spaces. This type is suitable for small-scale offices and residences. 1-phase type (VKM) and 3-phase type (YKM/YBM) are available.



Heat pump

• PUMY-SP VKM2 • PUMY-SP YKM2 • PUMY-P YKM3 • PUMY-P YBM2

Cooling only

• PUMY-CP VKM2 • PUMY-CP YKM2 • PUMY-CP YBM2



Wide selection from 4 HP up to 12 HP

Model	100	125	140	175	200	225	250	300		10 12 HP (P250 P200)
Heat pump	SP10	SP100-140V(Y)KM2			P175-225YKM3			DOYBM2	\leq	is available!
Cooling only	CP10	00-140V(Y)KM2	CP'	175-225Yk	KM2	CP250-3	300YBM2		lo avaliable.

Heat pump





P250-300

Cooling only



CP100-140





SP100-140

P175-225

CP175-225

CP250-300

Features

① Operation guaranteed at an outside air temperature of up to 52°C [125°F].

• New inverter technology has made it possible for units to operate at an outdoor air temperature as high as 52°C [125°F].

2 Quiet mode

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

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

* PAC-SC36NA-E is required to activ
 * Available during cooling only.



[CP100-140Y/VKM2] [SP100-140Y/VKM2]

Outdoor unit Top-bottom differential 50 m [164 ft] Hotoor unit I 5 m [49 ft]

Refrigerant Piping Lengths Maximum meters [feet]
Total length 120 [393] Maximum allowable length 70 (90 equivalent)[229 (295)] Farthest indoor from first branch 50 [164]*1
Vertical differentials between units Maximum meters [feet]

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

[CP175-225YKM2] [P175-225YKM3]



Maximum meters [feet]						
Total length 150 [492] Maximum allowable length						
Vertical differentials between units						

Defining would Diming Low

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

Operation at high temperatures (52°C/125°F)

Operating range (cooling operation)





[CP250-300YBM2]

[P250-300YBM2]



top-bottom differentia 15 m [49 ft]								
rigerant Pining Lengths								

Refrigerant Piping Lengths Maximum meters [feet]
Total length 310 [1,017]
Farthest indoor from first branch 30 [98]

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

Features of the Branch Box

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



System example

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



Specifications

Model				PAC-MK54BC	PAC-MK34BC				
Connectable Num	ber of Indoor Units			Max. 5	Max. 3				
Power Supply	Source			Outdoor power supply, Branch Bo	x / Outdoor separate power supply				
	Outdoor (V/Phase/	Ήz)		1-phase, 220/230/240V, 50F	łz, 1-phase, 220/230V, 60Hz				
Total Input			kW	0.0	003				
Operating Current	t		A	0.	05				
Dimensions H x V	V x D		mm	170 × 450 × 280					
Weight			kg	7.4	6.7				
Piping	Branch	Liquid	mm	6.35 × 5	6.35 × 3				
(diameter)	(Indoor Side)	Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3				
	Main	Liquid	mm	9.	52				
	(Outdoor Side)	Gas	mm	15	.88				
	Connection Metho	d		Flared					
Wiring	to Indoor Unit			3-wire + Earth wire					
	to Outdoor Unit			3-wire + Earth wire					

Installation image



S-series PUMY

Precautions for unit construction

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

Comparison of Piping Lengths for PUMY-Series Models

				Maximu	im meter	
			Only City Multi *1	Only Branch Box	Mixed S (City Multi *1 Indoor	System Unit + Branch Box)
			mador onic	Connection	City Multi *1 Indoor Unit	Via Branch Box
P250/300	Refrigerant Piping Length	Total Length	310	240	31	0
CP250/300		Maximum Allowable Length	150 (175 equivalent) *2	80	85 (95 equivalent) *2	80
		Farthest Indoor	20	20 *2	20	20 *2
		From First Branch	30	30 3	30	30 3
	Vertical Differentials	Indoor/Outdoor(Outdoor higher)	50	50	5	0
	Between Units	Indoor/Outdoor(Outdoor Lower)	40	40	4	0
		Indoor/Indoor	15	12	15	*4
	Refrigerant Piping Length	Total branch pipe length	_	145	—	145
		Farthest branch pipe length	—	25	—	25
		Total main pipe length	_	95	_	95
		Farthest main pipe length	_	—	—	-
	Vertical Differentials	Branch box/Indoor	_	15	_	15
	Between Units	Branch box/Branch box	_	15	_	15
P175/200/225	Refrigerant Piping Length	Total Length	150	150	15	50
CP175/200/225		Maximum Allowable Length	80 (90 equivalent) *5	80 *5	80 (90 equivalent) *5	80 *5
		Farthest Indoor	20	20.*2	20	20.*2
		From First Branch	30	30 3	30	30 3
	Vertical Differentials	Indoor/Outdoor(Outdoor higher)	50	50	5	0
	Between Units	Indoor/Outdoor(Outdoor Lower)	40	40	4	0
		Indoor/Indoor	15	15 *4	15	*4
	Refrigerant Piping Length	Total branch pipe length	—	95	_	95
		Farthest branch pipe length	—	25	_	25
		Total main pipe length	-	55	—	55
		Farthest main pipe length	—	55 *5	_	55 *5
	Vertical Differentials	Branch box/Indoor	-	15	_	15
	Between Units	Branch box/Branch box	-	15	—	15
SP 100/125/140	Refrigerant Piping Length	Total Length	120	120	12	20
CP100/125/140		Maximum Allowable Length	70 (90 equivalent)	80	70 (90 equivalent)	80
		Farthest Indoor	E0 *6	E0 *2	E0 *6	E0 *2 *6
		From First Branch	50 0	50 5	50 0	50 5 0
	Vertical Differentials	Indoor/Outdoor(Outdoor higher)	50	50	5	0
	Between Units	Indoor/Outdoor(Outdoor Lower)	30	30	3	0
		Indoor/Indoor	15	15 *4	15	*4
	Refrigerant Piping Length	Total branch pipe length	—	95	_	95
		Farthest branch pipe length	—	25	—	25
		Total main pipe length		55	_	55
		Farthest main pipe length	—	55	-	55
	Vertical Differentials	Branch box/Indoor	_	15	_	15
	Between Units	Branch box/Branch box	_	15	_	15

*1 Include system with connection kit *2 Liquid pipe diameter: 12.7 mm, in case of further piping length is longer than 90 m, or connect with PEFY-P200/250.

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

Optional Parts for Branch Boxes

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

S-series PUMY-CP VKM2 (-BS)



Specifications

Model			PUMY-CP100VKM2 (-BS)	PUMY-CP125VKM2 (-BS)	PUMY-CP140VKM2 (-BS)		
Power source			1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz				
Cooling capacity	*1	kW	11.2	14.0	15.5		
(Nominal)	*1	BTU/h	38,200	47,800	52,900		
	Power input	kW	2.80	3.84	4.70		
	Current input	A	12.99-12.42-11.90, 12.99	17.81-17.04-16.33, 17.81	21.80-20.85-19.98, 21.80		
	EER	kW/kW	4.00	3.65	3.30		
Temp. range of	Indoor temp.	W.B.		15 to 24°C (59 to 75°F)			
cooling	Outdoor temp.	D.B.		10 to 52°C (50 to 126°F)			
Indoor unit	Total capacity			50 to 150% of outdoor unit capacity *2			
connectable	Model/ CITY Quantity	/ MULTI	15–125/7	15–140/10	15–140/12		
Sound pressure le (measured in anec	vel *3 choic room)	dB <a>	52/-	53/-	54/-		
Refrigerant piping	Liquid pipe	mm (in.)	9.52 (3/8) Flared				
diameter	Gas pipe	mm (in.)	15.88 (5/8) Flared				
Fan	Type x Quantity		Propeller Fan × 1				
	Air flow rate	m³/min	78.8				
		L/s	1,313				
		cfm	2,782				
*4	Motor output	kW	0.20 x 1				
Compressor	Type x Quantity		Twin rotary hermetic compressor × 1				
	Starting method	1		Inverter			
	Motor output	kVV	2.8	3.4	3.6		
External finish		_	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1				
External dimension	n H x W x D	mm ·		981 × 1050 × 330 (+25)			
Desta ati an	L Park and a second second	in.	38-5/8 × 41-3/8 × 13 (+1)				
Protection	High pressure pr	otection		High pressure switch			
devices	(COMP./FAN)		Overcurrent detection, Overheat detection (Heat Sink thermistor)				
	Compressor		Compresso	r thermistor, Overcurrent detection, Compress	or protector		
	Fan motor			Overheating, Voltage protection			
Refrigerant	Type x original c	harge		R410A 2.9kg			
Net weight		kg (lbs)		86 (190) *5			
Heat exchanger				Micro Slit Fin and Copper tube			
Defrosting method				—			
Optional parts			Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E				

Notes:

*1 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.)

*2 Up to 150% can be connected. However, up to 130% for simultaneous operation.
*3 Cooling mode/Heating mode
*4 External static pressure option is available (30Pa/3.1mmH₂O).
*5 87 (192), for PUMY-CF100/125/140KM2-BS.
*Nominal conditions *1 are subject to ISO 15042.
*Due to continuing improvement, above specification may be subject to change without notice.

S-series PUMY-CP YKM2 (-BS)



Specifications

Model			PUMY-CP100YKM2 (-BS)	PUMY-CP125YKM2 (-BS)	PUMY-CP140YKM2 (-BS)	PUMY-CP175YKM2 (-BS)	PUMY-CP200YKM2 (-BS)	PUMY-CP225YKM2 (-BS)	
Power source			3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz						
Cooling capacity	*1	kW	11.2	14.0	15.5	20.0	22.4	25.0	
(Nominal)	*1	BTU/h	38,200	47,800	52,900	68,200	76,400	85,300	
	Power input	kW	2.80	3.84	4.70	5.00	5.74	6.54	
	Current input	A	4.48-4.25-4.10, 4.48	6.14-5.83-5.62, 6.14	7.52-7.14-6.88, 7.52	8.94-8.50-8.19, 8.94	10.03-9.53-9.18, 10.03	11.17-10.61-10.23, 11.17	
	EER	kW/kW	4.00	3.65	3.30	4.00	3.90	3.82	
Temp. range of	Indoor temp.	W.B.			15.0 to 24.0°	C (59 to 75°F)			
cooling	Outdoor temp.	D.B.			10 to 52.0°C	(50 to 126°F)			
Indoor unit	Total capacity				50 to 150% of outd	oor unit capacity *2		-	
connectable	Model/ CITY Quantity	MULTI	15–125/7	15–140/10	15–140/12	15–200/12	15–250/12	15–250/12	
Sound pressure le (measured in aneo	vel *3 choic room)	dB <a>	52/-	53/-	54/-	57/-	57/-	58/-	
Refrigerant piping	Liquid pipe mm (in.)		9.52 (3/8) Flared		9.52 (3/8) Flared*4				
diameter	Gas pipe	mm (in.)	15.88 (5/8) Flared		22.2 (7/8) Brazed				
Fan	Type x Quantity		Propeller Fan × 1		Propeller Fan × 2				
	Air flow rate	m³/min		78.8		134	134	143.8	
		L/s	1,313		2,233	2,233	2,397		
		cfm		2,782		4,732	4,732	5,078	
*5	Motor output	kW	0.20 x 1		0.20 + 0.20				
Compressor	Type x Quantity		Twin rotary hermetic compressor × 1 Scroll hermetic compressor × 1			r × 1			
	Starting method				Inve	erter			
	Motor output	kW	2.6	3.5	3.7	3.5	3.9	4.3	
External finish				(Salvanized Steel Sheel	t Munsell No. 3Y 7.8/1.	1	5)	
External dimension	n H x W x D			981 × 1050 × 330 (+25	()	1,338 × 1,050 × 330 (+25)			
Drotoction	Llich processes pre	In.	3	0-5/0 * 41-3/0 * 13 (+	l)	JZ-	11/10 × 41-11/32 × 13	(+1)	
Protection	High pressure pro	otection			High press	sure switch			
uevices	(COMP./FAN)			Overcurrent detection, Overheat detection (Heat Sink thermistor)					
	Compressor			Compresso	r thermistor, Overcurre	nt detection, Compress	sor protector		
	Fan motor				Overheating, Vo	oltage protection			
Refrigerant	I ype x original ch	large		R410A 2.9kg			R410A 6.3kg		
Net weight		Kg (lbs)		87 (191) *6	to de la	-	129 (285) *6	h -	
Heat exchanger			Mici	o Silt Fin and Copper	tube	Ci	oss Fin and Copper tu	De	
Detrosting method				_		Reden CMV VC4/CD C	eversed remigerant circ	ult	
Optional parts		Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E							

Notes:

*1 Nominal conditions

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 Up to 150% can be connected. However, up to 130% for simultaneous operation.
*3 Cooling mode/Heating mode
*4 Liquid pipe diameter: 12.7mm in case that the farthest piping length is longer than 60m, or piping length from outdoor unit to a branch box is longer than 20m.
*5 External static pressure option for CP100/125/140 is available (30 Pa/3.1 mmH₂O).
*6 88 (195), for PUMY-CP100/125/140YKM2-BS. 130 (287) for PUMY-CP175/200/225YKM2-BS.

*Nominal conditions *1 are subject to 1502-150 1504 and 160 1504 and 160 1502 and 160 1504 and 1604 and 1604 and 1604 and 1604 and 1604

S-series PUMY-CP YBM2 (-BS)



Specifications

Model			PUMY-CP250YBM2 (-BS)	PUMY-CP300YBM2 (-BS)		
Power source			3-phase 380-400-415 V, 50	Hz; 3-phase 380 V, 60 Hz		
Cooling capacity	*1	kW	28.0	33.5		
(Nominal)	*1	BTU/h	95,500	114,300		
	Power input	kW	7.18	8.59		
	Current input	A	11.73-11.14-10.74, 11.73	14.03-13.33-12.85, 14.03		
	EER	kW/kW	3.90	3.90		
Temp. range of	Indoor temp.	W.B.	15.0 to 24.0°C	5 (59 to 75°F)		
cooling	Outdoor temp.	D.B.	10.0 to 52.0°C	(50 to 126°F)		
Indoor unit	Total capacity		50 to 150% of outdo	oor unit capacity *2		
connectable	Model/ CITY Quantity	MULTI	15–250/24	15–250/29		
Sound pressure le (measured in aneo	vel choic room)	dB <a>	59	60		
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flared *5	12.7(1/2) Flared		
diameter	Gas pipe	mm (in.)	22.2(7/8) Brazed	25.4(1) Brazed		
Fan	Type x Quantity		Propeller	Fan × 2		
	Air flow rate	m³/min	178	178		
		L/s	2,966	2,966		
		cfm	6,285	6,285		
	Motor output	kW	0.375 + 0.375			
Compressor *3	Type x Quantity		Scroll hermetic compressor × 1			
	Starting method		Inver	rter		
	Motor output	kW	6.77	7.59		
External finish			Galvanized Steel Sheet	Munsell No. 3Y 7.8/1.1		
External dimension	n H x W x D	mm	1,662 × 1,050	× 460 (+45)		
		in.	65-7/16 × 41-11/32 × 18-7/64 (+1-49/64)			
Protection	High pressure pro	otection	High pressu	ure switch		
devices	Inverter circuit		Overcurrent detection, Overheat	detection (Heat Sink thermistor)		
	Compressor		Compressor thermistor, Overcurren	t detection, Compressor protector		
Fan motor			Overcurrent, Overheatin	ng, Voltage protection		
Refrigerant	Type x original ch	arge	R410A	8.0kg		
Net weight		kg (lbs)	185 (40	08) *4		
Heat exchanger			Micro-Slit Fin an	id Copper tube		
Defrosting method				-		
Ontional parts			Joint CMY-Y62-G-F He	ader: CMY-Y64/68-G-F		

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	External static press.
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.)	0 Pa

*2 Up to 150% can be connected. However, up to 130% for simultaneous operation.
*3 External static pressure option is available (30 Pa/3.1 mmH₂O).
*4 187 (413) for PUMY-CP250/300YBM2-BS.
*5 Liquid pipe diameter: 12.7mm, in case of farthest piping length (farthest indoor unit from outdoor unit) is longer than 90m, or connect with PEFY-P200/250.
*Nominal conditions *1 are subject to ISO 15042.

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

S-series PUMY-SP VKM2 (-BS)



Specifications

Model			PUMY-SP100VKM2 (-BS)	PUMY-SP125VKM2 (-BS)	PUMY-SP140VKM2 (-BS)			
Power source			1-ph	1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz				
Cooling capacity	*1	kW	11.2	14.0	15.5			
(Nominal)	*1	BTU/h	38,200	47,800	52,900			
	Power input	kW	2.78	3.84	4.31			
	Current input	Α	12.89-12.33-11.82, 12.89	17.81-17.04-16.33, 17.81	19.99-19.12-18.32, 19.99			
	EER	kW/kW	4.03	3.65	3.60			
Temp. range of	Indoor temp.	W.B.		15 to 24°C (59 to 75°F)				
cooling	Outdoor temp.*3*4	D.B.		-5 to 52°C (23 to 126°F)				
Heating capacity	*2	kW	12.5	16.0	16.5			
(Nominal)	*2	BTU/h	42,650	54,600	56,300			
	Power input	kW	2.58	3.90	4.02			
	Current input	Α	11.97-11.45-10.97, 11.97	18.09-17.30-16.58, 18.09	18.65-17.83-17.09, 18.65			
	COP	kW/kW	4.84	4.10	4.10			
Temp. range of	Indoor temp.	D.B.	· · · · · · · · · · · · · · · · · · ·	15 to 27°C (59 to 81°F)				
heating	Outdoor temp.	W.B.		-20 to 15°C (-4 to 59°F)				
Indoor unit	Total capacity			50 to 130% of outdoor unit capacity				
connectable	Model/ CITY Quantity	MULTI	15–125/7	15–140/10	15–140/12			
Sound pressure level (measured in anec	(Cooling/Heating) *5 hoic room)	dB <a>	51/54	53/56	54/56			
Refrigerant piping	Liquid pipe	mm (in.)		9.52 (3/8) Flared				
diameter	Gas pipe	mm (in.)		15.88 (5/8) Flared				
Fan	Type x Quantity		Propeller Fan × 1					
	Air flow rate	m³/min	75	3				
				1,283	1,3	33		
		cfm	2,791	2,9	31			
*6	Motor output	kW		0.20 x 1				
Compressor	Type x Quantity			Twin rotary hermetic compressor × 1				
	Starting method			Inverter				
	Motor output	kW	2.8	3.4	3.6			
External finish			G	alvanized Steel Sheet Munsell No. 3Y 7.8/1.1				
External dimension	n H x W x D	mm	981 × 1050 × 330 (+25)					
		in.		38-5/8 × 41-3/8 × 13 (+1)				
Protection	High pressure pro	otection	High pressure switch					
devices	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heat Sink thermistor)					
	Compressor		Compressor	thermistor, Overcurrent detection, Compress	or protector			
	Fan motor			Overheating, Voltage protection				
Refrigerant	Type x original ch	arge		R410A 3.5kg				
Net weight		kg (lbs)		93 (205) *7				
Heat exchanger				Cross Fin and Copper tube				
Defrosting method				Reversed refrigerant circuit				
Optional parts			Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E, Air protect guide: PAC-SH95AG-E					

*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 52°C D.B. [50 to 126°F D.B.], when connecting following models: PKFY-P15/20/25/32VLM, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLRM(M), PFFY-P20/25/32VCM, PFFY-P20/25/32VKM, PEFY-P-VMA4 and M-Series, S-Series, and P-Series type indoor unit with branch box, M-Series type indoor unit with connection kit.
*4 -15 to 52°C D.B. [5 to 126°F D.B.], when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in*3.

*4 -15 to 52°C D.B. [5 to 12°F D.B.], when using an optional air protect guide [FRC-onsolver_].
*5 Cooling mode/Heating mode
*6 External static pressure option is available (30 Pa/3.1 mmH₂O).
*7 94 (207), for PUMY-SP100/125/140VKM2-BS. 95 (209), for PUMY-SP100/125/140VKM2-BS.
*Nominal conditions *1,*2 are subject to ISO 15042.
*Due to continuing improvement, above specification may be subject to change without notice.

S-series PUMY-SP YKM2 (-BS)



Specifications

Model			PUMY-SP100YKM2 (-BS)	PUMY-SP125YKM2 (-BS)	PUMY-SP140YKM2 (-BS)		
Power source			3-ph	ase 380-400-415 V, 50 Hz; 3-phase 380 V, 60) Hz		
Cooling capacity	*1	kW	11.2	14.0	15.5		
(Nominal)	*1	BTU/h	38,200	47,800	52,900		
	Power input	kW	2.78	3.84	4.31		
	Current input	Α	4.45-4.22-4.07, 4.45	6.14-5.83-5.62, 6.14	6.89-6.55-6.31, 6.89		
	EER	kW/kW	4.03	3.65	3.60		
Temp. range of	Indoor temp.	W.B.		15 to 24°C (59 to 75°F)			
cooling	Outdoor temp.*3*4	D.B.		-5 to 52°C (23 to 126°F)			
Heating capacity	*2	kW	12.5	16.0	16.5		
(Nominal)	*2	BTU/h	42,650	54,600	56,300		
	Power input	kW	2.58	3.90	4.02		
	Current input	А	4.13-3.92-3.78, 4.13	6.24-5.93-5.71, 6.24	6.43-6.11-5.89, 6.43		
	COP	kW/kW	4.84	4.10	4.10		
Temp. range of	Indoor temp.	D.B.		15 to 27°C (59 to 81°F)			
heating	Outdoor temp.	W.B.		-20 to 15°C (-4 to 59°F)			
Indoor unit	Total capacity			50 to 130% of outdoor unit capacity			
connectable	Model/ CITY Quantity	MULTI	15–125/7	15–140/10	15–140/12		
Sound pressure level (measured in anec	(Cooling/Heating) *5 choic room)	dB <a>	51/54	53/56	54/56		
Refrigerant piping	Liquid pipe	mm (in.)	9.52 (3/8) Flared				
diameter	Gas pipe	mm (in.)		15.88 (5/8) Flared			
Fan	Type x Quantity		Propeller Fan × 1				
	Air flow rate	m³/min	75	75 83			
		L/s	1,283	1,3	83		
		cfm	2,791	2,9	31		
*6	Motor output	kW		0.20 x 1			
Compressor	Type x Quantity			Twin rotary hermetic compressor × 1			
	Starting method			Inverter			
	Motor output	kW	2.6	3.5	3.7		
External finish				Salvanized Steel Sheet Munsell No. 3Y 7.8/1.1			
External dimension	n H x W x D	mm	981 × 1050 × 330 (+25)				
		in.		38-5/8 × 41-3/8 × 13 (+1)			
Protection	High pressure pro	otection		High pressure switch			
devices	Inverter circuit (COMP./FAN)		Overcurre	Overcurrent detection, Overheat detection (Heat Sink thermistor)			
Compressor		Compressor	thermistor, Overcurrent detection, Compress	or protector			
	Fan motor			Overheating, Voltage protection			
Refrigerant	Type x original ch	arge		R410A 3.5kg			
Net weight		kg (lbs)		94 (207) *7			
Heat exchanger				Cross Fin and Copper tube			
Defrosting method				Reversed refrigerant circuit			
Optional parts			Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E, Air protect guide:PAC-SH95AG-E				

Notes:

*1, *2 Nominal conditions

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

10 to 52°C D.B. (50 to 126°F D.B.), when connecting following models: PKFY-P15/20/25/32VLM, PFFY-P20/25/32VLMM, P

S-series PUMY-P YKM3 (-BS)



Specifications

Model		PUMY-P175YKM3 (-BS)	PUMY-P200YKM3 (-BS)	PUMY-P225YKM3 (-BS)			
Power source			3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz				
Cooling capacity	*1	kW	20.0	22.4	25.0		
(Nominal)	*1	BTU/h	68,200	76,400	85,300		
	Power input	kW	5.00	5.74	6.54		
	Current input	Α	8.94-8.50-8.19, 8.94	10.03-9.53-9.18, 10.03	11.17-10.61-10.23, 11.17		
	EER	kW/kW	4.00	3.90	3.82		
Temp. range of	Indoor temp.	W.B.	15.0 to 24.0°C (59 to 75°F)				
cooling	Outdoor temp. *3*4	D.B.	-5.0 to 52.0°C (23 to 126°F)				
Heating capacity	*2	kW	22.4 25.0 27.3				
(Nominal)	*2	BTU/h	76,400	85,300	93,200		
	Power input	kW	5.14	5.99	6.80		
	Current input	A	9.19-8.73-8.42, 9.19	10.47-9.94-9.58, 10.47	11.61-11.03-10.63, 11.61		
	COP	kW/kW	4.35	4.17	4.01		
Temp. range of	Indoor temp.	D.B.	15.0 to 27.0°C (59 to 81°F)				
heating *4	Outdoor temp.	W.B.	-20.0 to 15.0°C (-4 to 59°F)				
Indoor unit	Total capacity		50 to 130% of outdoor unit capacity				
connectable	Model/ CITY MULTI Quantity		15–200/12	15–250/12	15–250/12		
Sound pressure level *5 dB <a>		57/61	57/61	58/63			
Refrigerant piping	Liquid pipe	mm (in.)	9.52 (3/8) Flared *6				
diameter	Gas pipe	mm (in.)	22.2 (7/8) Brazed				
Fan	Type x Quantity		Propeller Fan × 2				
	Air flow rate	m³/min	134	134	143.8		
		L/s	2,233	2,233	2,397		
		cfm	4,732	4,732	5,078		
	Motor output	kW		0.20 + 0.20			
Compressor	Type x Quantity		Scroll hermetic compressor × 1				
	Starting method			Inverter			
	Motor output	kW	4.3	5.2	5.4		
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1				
External dimension	ו H x W x D	mm	1,338 × 1,050 × 330 (+25)				
		in.	52-11/16 × 41-11/32 × 13 (+1)				
Protection High pressure protection		otection	High pressure switch				
devices	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heat Sink thermistor)				
	Compressor		Compressor thermistor, Overcurrent detection, Compressor protector				
	Fan motor		Overheating, Voltage protection				
Refrigerant Type x original charge		R410A 7.3kg					
Net weight kg (lbs)		138 (305) *7					
Heat exchanger			Cross Fin and Copper tube				
Defrosting method			Reversed refrigerant circuit				
Optional parts			Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E				

*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 52°C D.B.: When connecting PKFY-P5/20/25/32VLM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, N, PFFY-P20/25/32VLEM, PFFY-P20/25/32V

S-series PUMY-P YBM2 (-BS)



Specifications

Model			PUMY-P250YBM2 (-BS)	PUMY-P300YBM2 (-BS)		
Power source			3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz			
Cooling capacity	*1 kW		28.0	33.5		
(Nominal)	*1	BTU/h	95,500	114,300		
	Power input	kW	6.83	8.17		
	Current input	A	11.16-10.60-10.22, 11.16	13.35-12.68-12.22, 13.35		
	EER	kW/kW	4.10	4.10		
Temp. range of	Indoor temp.	W.B.	15.0 to 24.0°C (59 to 75°F)			
cooling	Outdoor temp.*3*4 D.B.		-5.0~52.0°C (23 to 126°F)			
Heating capacity	*2	kW	31.5	37.5		
(Nominal)	*2	BTU/h	107,400	127,900		
	Power input	kW	6.06	7.36		
	Current input	A	9.90-9.41-9.07, 9.90	12.02-11.42-11.01, 12.02		
	COP	kW/kW	5.20	5.10		
Temp. range of	Indoor temp.	D.B.	15.0 to 27.0°C	(59 to 81°F)		
heating *4	Outdoor temp. W.B.		-20.0 to 15.0°C (-4 to 59°F)			
Indoor unit connectable	Total capacity		50 to 130% of outdoor unit capacity			
	Model/ CITY Quantity	MULTI	15–250/21	15–250/25		
Sound pressure le (measured in anec	vel *5 hoic room)	dB <a>	59/60	60/62		
Refrigerant piping	Liquid pipe	mm (in.)	9.52(3/8) Flared *8	12.7(1/2) Flared		
diameter	Gas pipe	mm (in.)	22.2(7/8) Brazed	25.4(1) Brazed		
Fan	Type x Quantity		Propeller Fan × 2			
	Air flow rate	m³/min	187/183	187/197		
		L/s	3116/3050	3116/3283		
		cfm	6603/6462	6603/6956		
*5	Motor output kW		0.375 + 0.375			
Compressor	Type x Quantity		Scroll hermetic compressor × 1			
	Starting method		Inver	ter		
*6	Motor output	kW	6.65	7.35		
External finish			Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1			
External dimension H x W x D m		mm	1,662 × 1,050 × 460 (+45)			
	in.		65-7/16 × 41-11/32 × 18-7/64 (+1-49/64)			
Protection High pressure protect		otection	High pressure switch			
devices	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heat Sink thermistor)			
	Compressor		Compressor thermistor, Overcurrent detection, Compressor protector			
	Fan motor		Overcurrent, Overheating, Voltage protection			
Refrigerant Type x original charge		arge	R410A 9.3kg			
Net weight kg (lbs)		kg (lbs)	192 (424) *7			
Heat exchanger			Ring Fin and Copper tube			
Defrosting method			Reversed refrigerant circuit			
Optional parts			Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E			

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	External static press.
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.)	0 Pa
Heating	20°C DB	7°C DB/6°C WB (45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)	0 Pa

3 10 to 52°C D.B. : When connecting PKFY-P15/20/25/32VLM, PFFY-P20/25/32VLM, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLRM(M), PFFY-P20/25/32VLM, PFFY-P20/25/32VLM, M, S and P series indoor unit.
 * 4 -15 to 52°C D.B. [5 to 126°F D.B.], when using an optional air protect guide [PAC-SH21AG-E]. However, this condition does not apply to the indoor unit listed in*3.
 * 5 Cooling mode/Heating mode
 * 6 External static pressure option is available (30 Pa/3.1 mmH₂O).
 * 7 194 (428) for PUMY-P250/300YBM2-BS.
 * 8 Liquid pipe diameter: 12.7mm, in case of farthest piping length (farthest indoor unit from outdoor unit) is longer than 90m, or connect with PEFY-P200/250.
 * Nominal conditions *1, 2 are subject to ISO 15042.
 * Due to continuing improvement, above specification may be subject to change without notice.

Optional Parts for Outdoor Units

For PUMY-Series

Description	Model	Remarks	
		For PUMY-SP VKM2/YKM2, PUMY-CP VKM2/YKM2, PUMY-P YKM3*	
Air protect guide	PAC-SH9SAG-E	*Two are needed for PUMY-CP175/200/225YKM2, PUMY-P175/200/225YKM3	
	PAC-SK21AG-E	Two are needed for PUMY-(C)P250/300YBM2	
		For PUMY-SP VKM2/YKM2, PUMY-CP VKM2/YKM2, PUMY-P YKM3*	
Air outlet guide	PAC-SH965G-E	*Two are needed for PUMY-CP175/200/225YKM2,PUMY-P175/200/225YKM3	
	PAC-SK22SG-E	Two are needed for PUMY-(C)P250/300YBM2	
	PAC-SG61DS-E	For PUMY-SP VKM2/YKM2, PUMY-CP VKM2/YKM2, PUMY-P YKM3	
Drain socket	PAC-SK27DS-E	For PUMY-(C)P250/300YBM2	
Controlized drain pop	PAC-SH97DP-E	For PUMY-SP VKM2/YKM2, PUMY-CP VKM2/YKM2, PUMY-P YKM3	
Centralized drain part	PAC-SJ83DP-E	For PUMY-(C)P250/300YBM2	
Connection kit	PAC-LV11M-J		
Branch pipe	CMY-Y62-G-E	For 2 branches	
Hoador	CMY-Y64-G-E	For 4 branches	
TIEauei	CMY-Y68-G-E	For 8 branches	



PUCY/PUHY

These models are provided with high-performance inverter compressors to achieve high energy-saving performance. A wide lineup of models with up to 60 HP can be applied to various usage.





The CITY MULTI Y-Series (for large applications) makes use of a two-pipe refrigerant system, and realizes enhanced cooling capacity at high outside air temperatures. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively. 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 engineering design options. This feature allows easy air conditioning in each area with convenient individual controllers.
System structure example



System Pipe Lengths

Various lineups

CITY MULTI includes various types of outdoor units, indoor units and controllers. The customers can easily select the models according to their situation. The units can be individually controlled, and it is possible to start or stop the air conditioner and set the conditions, such as temperature, in each room.

controllers is possible



AE-200E

PAR-41MAAM

Key Technologies

All major parts of YKE and YKD series products reflect technological excellence of Mitsubishi Electric. This results in high energy efficiency, enhanced cooling capacity at high outside air temperatures, and further improved reliability.



Inverter technology

As a manufacturer of general electric equipment, our inverter-related components are developed and manufactured using Mitsubishi Electric technology.

All compressors are inverter-driven type and developed and manufactured by Mitsubishi Electric (P) (P) (P) (P)

The compressor varies its speed to match the indoor cooling or heating demand, thus it only consumes the energy amount of energy 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%, although full load condition is not prevailed all time. Therefore, fixed speed systems cannot match the annual efficiency of inverter driven systems. Developed by Mitsubishi Electric



FP

* Values vary depending on actual conditions, such as ambient temperature.

Intelligent Power Module (IPM) manufactured by Mitsubishi Electric

Power modules manufactured by Mitsubishi Electric* are installed in the inverter circuit boads that drive compressors and fans. Furthermore, a specialized drive circuit that ensures excellent performance make a high-quality, high-performance inverter possible.

IPM technology ensures effective operation even at lower partial load and realizes automatic control to operate the air conditioners appropriately according to the situation, resulting in energy savings.

*Except models using PUHY-P200/250YKD module.





PWM control is used to control the number of motor revolutions according to operational load. It varies the inverter pulse width (electric signal wave occurring over a short period) to control the output.

Optimal control of electrical current is required according to operation.

• For low loads Does not require a high target output current.



Control HIC* "Hybrid Integrated Circuit

To achieve the target output current, the intervals at which the "pulse" signal is turned on are controlled to adjust the output current.

At low load time, the pulse-on width is minimized to save energy.



The increased pulse-on width increases both the duration that the voltage is applied and the amount of electrical current compared to the low load time, and accelerates the rotation speed of the compressor from 60 rps to 120 rps.*

 $\ensuremath{^{\star}\text{The}}\xspace$ number of compressor rotations differs depending on the usage condition.

The ability to adjust the pulse range and output current to suit a given load increases the operating range of the unit.

Compressor

Multi-port mechanism (P) (P) (P) (P)

In addition to the conventional discharge port, the multi port design model features two sub-ports, which performes according to the air conditioning load. This prevents excessive compression and improves operation efficiency.

Conventional structure

			Оре	ration pattern
			Partial load	Rating, high pressure difference
Mai	in port	Valve 1	Open	Open

Structure with multi-port design

Structure with multi-port design

* Depend on model.

	Operation pattern					
		Partial load	Rating, high pressure difference			
Main port	Valve 1	Open	Open			
Sub-port	Valve 2/3	Open Closed				
		The sub-port is ope	ned during partial load rge the over-compressed gas.			

In case of partial load operation Conventional structure











Conventional model

Because there is only one discharge port, compression capacity is first raised regardless of load, and then lowered to the target discharge pressure. This results in operation loss due to over-compression.



Multi-port

When the target discharge pressure is reached, the multi-ports are opened to release refrigerant gas. This reduces operation loss due to over-compression.

Compressor



Mitsubishi Electric has incorporated a new and original production process that wraps a conductor directly around the split core to create a compact and highly efficient motor.



Whereas the motor core of the conventional model had dead space between the insulator and insulation film, the YKE and YKD model has a smaller insulator with film on the inside. Consequently, the area for copper wire winding has increased by 9%. The wire diameter also was increased by two sizes, resulting in lower resistance and reduced insulation distance. This boosts motor efficiency, thus also improving compressor efficiency.



IH (induction heating) warmer

In order to prevent refrigerant and oil from mixing while the air conditioner is stopped, it is necessary to always warm the compressor. Mitsubishi Electric provides the required heating by energizing the windings of the compressor (using a voltage that does not drive the compressor motor) instead of a belt type heater that applies heat from the outside, resulting in reduced loss and lower power consumption. In addition, remains on for 30 minutes after operation is stopped, and subsequently is switched on and off every 30 minutes. Standby power consumption therefore is lower than with a belt heater that is constantly powered.

* Normally, the compressor is heated while the outdoor unit is stopped to prevent liquid refrigerant from remaining in the compressor and to evaporate the liquid refrigerant in the compressor.



Standby power consumption can be reduced when the air conditioner is stopped overnight in offices or other locations.





Internal heating reduces power consumption during standby. This provides an advantage over designs that are constantly powered.

Fan and Fan motor



Advantages of CITY MULTI

Outdoor/Heat source unit

Indoor unit

Remote Controller

Heat Inter-Changer (HIC) circuit

The HIC circuit increases cooling efficiency. This technology raises the degree of supercooling, increasing both cooling capacity and cooling efficiency.

The HIC circuit is installed before the point at which the high pressure liquid refrigerant, which passes through the heat exchanger of the outdoor unit, flows into the indoor unit. The temperature of the liquid refrigerant, to which heat is discharged from the outdoor unit heat exchanger, is further lowered before the refrigerant enters the expansion valve, to allow the evaporator to absorb a large amount of heat and increase cooling efficiency.

HIC mechanism

Some of the high pressure liquid refrigerant that passes through the outdoor unit heat exchanger flows directly into the indoor unit, and the rest passes through linear expansion valve (LEV) "C" to lower both the temperature and pressure. The heat is exchanged between the low temperature, low pressure liquid refrigerant that passes through LEV "C" and the moderate temperature liquid refrigerant from the outdoor unit heat exchanger. This further lowers the temperature of the liquid refrigerant before it enters LEV "B." This heat exchange system uses a "double-pipe" heat exchanger.

HIC circuit diagram



Double-pipe heat exchanger The double-pipe heat exchanger exchanges the heat between the low temperature, low pressure liquid refrigerant that passes through LEV "C" and the moderate temperature liquid refrigerant from the outdoor unit heat exchanger. This allows the refrigerant to cool down to a lower temperature when flowing through the indoor unit.

HIC circuit effect (Image using a Mollier diagram)



HIC circuit (Double-pipe heat exchanger)



Double-pipe heat exchanger cross section (High-performance grooved pipe)



YKE-series

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



S module



L module

XL module * Product images are PUCY models

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

Standard (PUCY-P)

Compact designed with standard efficiency. Provides installation flexibility and high energy efficiency at same time.

Hight standard (PUCY-GP)

Combining the standard line, achieves even better efficiency.

High efficiency (PUCY-EP)

Achieves highest energy efficiency and partial load among the YKE lineup.

Further enhanced energy savings

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

Cooling capacity at high outdoor air temperatures

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

High reliability

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

High installation flexibility

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

_ossnay

Installation information

Higher EER ratings Improved ratings for all models

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





High partial-load performance

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





Further enhanced energy savings

Energy saving assist function

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

Evaporating temperature control (P) (EP) (P) (EP)

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

Normal mode

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



Smart evaporation temperature control mode

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

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

1. Fixed control

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

· Concept of evaporating temperature control (fixed control)



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

2. Automatic shift control

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

Concept of evaporating temperature control (automatic shift control)

4 patterns for setting target evaporating temperature



*2 To change the evaporating temperature setting, it is necessary to change the setting of the DIP switch on the outdoor unit.



Suitable situations

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

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



Cooling capacity at high outdoor air temperatures

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

PUCY CPUCY PUCY PUCY PUCY PUCY

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



Suitable situations

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





2. Cooling operation assist function



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

* Requires a DIP switch setting

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

Cooling capacity, with indoor units running at 100%



Capacity assist mode Standard mode Indoor condition (27°CDB/19°CWB)

Comfort is maintained at high outside temperatures

Fan speed is increased to secure performance

Rapid mode during startup (Quick-start up) 🍘 😨 🕐 🦉

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

* Requires a DIP switch setting

* Selecting this mode may increase operation noise. Choose the mode according to installation requirements.



GP

EP

before the room becomes comfortable.

Priority Cooling Function NEW ("

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

* Up to 3 indoor units can be priorizied

* Maximum 20% capacity of thermo-ON indoor units



Priority Cooling Temperature transition image

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

High reliability

1. Compressor

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



Liquid refrigerant goes to bottom part firstly

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

Accumulator for preventing liquid backflow

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

* Adding too much refrigerant will cause excess refrigerant to accumulate in the accumulator, resulting in liquid back flow.

Most of the area in the compressor is taken up by the low-pressure gas. This prevents the motor and bearings

from being heated up by the compressed high-pressure

gas. The refrigerant is collected at the bottom of the

shell to reduce the rate of compressor damage caused

by liquid refrigerant compression.



Operation with one compressor up to 20HP. (P) (P) (P)

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

1 compressor model





Rotation control (P) (P) (P) (P)

With the combination model, the outdoor units operate alternately. This reduces the operating load and leads to a longer service life.

After operation for 2 hours or more, the next operation will be started from the outdoor unit "2." The unit to be started first is changed to equalize the operating time of the units.



Emergency operation mode (P) (P) (P) (P)

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



High reliability

2. Electric parts

Gecko Guard (P) (G) (P)

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



Slit prevents geckos to enter from the side.





Allowable operating up to ±10% voltage range (P) (P) (P) (P)

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



3. Corrosion resistance

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

* Effectiveness varies depending on the installation location.

Film coating on PCB (Print circuit board) 🍘 😨 😰 🗊

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



Polyester coated sheet (P) (P) (P) (P)

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



New heat exchanger design (P) (P)



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



High reliability

4. Operation support function

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

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

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



For hotel application

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



High installation flexibility

1. Flexible wiring design



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



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

2. Flexible external static pressure setting

Selectable external static pressure of the outdoor unit (P) (P) (P) (P)

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



High installation flexibility

3. Long piping length

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



Refrigerant Piping Lengths	Maximum meters [feet]
Total length	1,000 [3,280]*1
Maximum allowable length	165 (190 equivalent)
	[541 (623)]
Farthest indoor from first branch	40 [131]*2
Farthest length between	
2nd twinning kit and first joint	*3
Vertical differentials between units	Maximum meters [feet]
Indoor/outdoor (outdoor higher)	50 [164]*4

Indoor/outdoor (outdoor lower) 40 [131]*5

Indoor/indoor 15 [49]*6

*1 The maximum total piping length in systems with model units P1400 through P1500 800 m [2625 ft.].
*2 90m is available. When the piping length exceeds 40m, use one size larger liquid pipe starting with the section of piping where 40m is exceeded and all piping after that point.
[for PUCY-P-YKE(-BS) / PUCY-GP-YKE(-BS) / PUCY-EP-YKE(-BS) / PUHY-(E)P-YKD(-BS)]

[00 POCT-PTRE(PS)/ POCT-BETRE(PS)/ POCT-BET

*1 Depending on the model and installation conditions, top-bottom differential 90m [295ft]. For more detailed information, please contact your nearest sales office or distributor.
*5 4 m [13 ft.] or less in cooling at outdoor temperature 10°C [50°F] or lower for heat

but it for it or how in county in the pump series.
6 30m is available. If the height difference between indoor units exceeds 15 m [49 ft.] (but does not exceed 30 m [98 ft.]), use pipes that are one size larger for indoor unit liquid pipes. [for PUCY-P-YKE(-BS) / PUCY-GP-YKE(-BS) / PUCY-EP-YKE(-BS) / PUHY-(E)P-YKD(-BS)]

Other useful Function

Flexible Noise Setting (P) (P) (P) (P)

The low-noise mode has four patterns 85%, 70%, 60% and 50% in respect to the fan speed. This can be set with the outdoor unit's dip switch. The pattern can be selected according to the customer's requests when low-noise operation is required. *1 PUCY-P/GP/EP Low noise mode of 4 patterns 85%, 70%, 60%, 50% is available.

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



PUCY-P200YKE

Standard 57dB



* Operation noise may increase due to the installation environment or the operation status

Increased adaptability and model selection range for buildings where low noise is essential



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



Normal switching between cooling and heating

With CITY MULTI's switchable cooling/heating models, in order to switch from cooling to heating, the operation mode of all indoor units performing cooling operation needs to be manually switched.

Using system-changeover to switch between cooling and heating

Depending on the dip switch settings, all indoor units can automatically switch their operation mode according to the operation mode of a specific indoor unit (the unit with the smallest M-NET address). Operation can be automatically switched between cooling and heating according to the temperature difference between the preset temperature on a specific indoor unit and the room temperature.

* Please avoid the indoor unit with the smallest number address to group with other indoor units.

Suitable situations

When both cooling and heating operations are required in a single day due to an extreme differences between the hottest and coldest parts of the day.



When the temperature sensor detects a certain amount of differential between the room temperature and the set temperature, the operation of all indoor units in the system is switched from heating to cooling.



ndoor unit

Remote Controller

Outdoor unit installed on roof operates in standard mode



Outdoor unit installed on balconies operate in low noise mode

Cooling Cooling Cooling The sm llest Heating Heating Heating

_ossnay

YKE-series - Cooling-only Standard type PUCY-P YKE (-BS)



Specifications

Model			PUCY-P200YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P350YKE (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity	*1	kW	22.4	28.5	33.5	40.0
(Nominal)		BTU/h	76,400	97,200	114,300	136,500
	Power input	kW	4.48	6.04	7.78	9.45
	Current input	Α	7.5-7.1-6.9	10.1-9.6-9.3	13.1-12.4-12.0	15.9-15.1-14.6
	EER	kW/kW	5.00	4.71	4.30	4.23
Temp, range of	Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	5.0~24.0 °C (59~75 °F) 15.0~24.0 °C (59~75 °F)	
cooling	Outdoor	D.B.	10.0~52.0 °C (50~126 °F)			
Indoor unit	Total capacity	0.0.	50~130% of outdoor unit			
connectable	l'otal oupdoity		capacity	capacity	capacity	capacity
	Quantity		1~17	1~21	1~26	1~30
Sound power leve (measured in ane	l choic room)	dB <a>	77.5	78.5	78.5	81.5
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Fan	Type x Quantity		Propeller fan x 1			
	Air flow rate	m ³ /min	150	150	150	210
		L/s	2,500	2,500	2,500	3,500
		cfm	5,296	5,296	5,296	7,415
	Control, Driving		Inverter-control,	Inverter-control,	Inverter-control,	Inverter-control,
	mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Motor output kW		0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*2	External static pi	ress.	0 Pa (0 mmH ₂ O)			
Compressor	Туре		Inverter scroll hermetic	Inverter scroll hermetic	Inverter scroll hermetic	Inverter scroll hermetic
			compressor	compressor	compressor	compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.0	4.3	5.8	7.3
	Case heater	kW	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>
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 1,220 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure 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)	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		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 c	harge	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	170 (375)	207 (457)
Heat exchanger			Salt-resistant corrugated fin	Salt-resistant corrugated fin	Salt-resistant corrugated fin	Salt-resistant corrugated fin
			& aluminium alloy tube			
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G

Notes:

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

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

YKE-series - Cooling-only Standard type PUCY-P YKE (-BS)



Specifications

Model			PUCY-P400YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P500YKE (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	44.0	48.0	56.0
(Nominal)		BTU/h	150,100	163,800	191,100
	Power input	kW	11.12	12.67	14.73
	Current input	A	18.7-17.8-17.1	21.3-20.3-19.5	24.8-23.6-22.7
	EER	kW/kW	3.95	3.78	3.80
Temp. range of	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	Quantity		1~34	1~39	1~43
Sound power level (measured in anec	hoic room)	dB <a>	83.5	83.5	82.5
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	250	250	320
		L/s	4,167	4,167	5,333
		cfm	8,828	8,828	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	8.7	10.0	10.9
	Case heater	kW	-	* 1.53 i 83.5 Brazed 15.88 (5/8) Brazed Brazed 28.58 (1-1/8) Brazed fan x 1 Propeller fan x 1 250 7 4,167 8 8 8,828 2t-driven by motor Inverter-control, Direct-driven by motor 1 0.92 x 1 mH ₂ O) 0 Pa (0 mmH ₂ O) etic compressor Inverter scroll hermetic compressor ier 10.0 — - zed steel sheets Pre-coated galvanized steel sheets if or -BS type) (+powder coating for -BS type) y/1.1 or similar> <munsell 1.1="" 3y="" 7.8="" or="" similar=""> 20 x 740 1,650 x 1,220 x 740 x 29-3/16 65 x 48-1/16 x 29-3/16 re sensor, High pressure sensor, High pressure sensor, High pressure sensor, 4.15 MPa (601 psi) High pressure for (42 br)</munsell>	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>
External dimension	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure 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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
Refrigerant	Type x original cl	narge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	207 (457)	207 (457)	260 (574)
Heat exchanger			Salt-resistant corrugated fin & aluminium alloy tube	Salt-resistant corrugated fin & aluminium alloy tube	Salt-resistant corrugated fin & aluminium alloy tube
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G

Notes:

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

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

OUTDOOR UNIT YKE-series

- Cooling-only Standard type

PUCY-P YSKE (-BS)



Specifications

Model		PUCY-P550YSKE (-BS)		PUCY-P600YSKE (-BS)		PUCY-P650YSKE (-BS)		
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 H	
Cooling capacity *1 kW		kW	62	2.0	68	3.5	72	2.5
(Nominal)		BTU/h	211	500	233	,700	247	,400
	Power input	kW	14	.09	15	.39	17	.63
	Current input	A	23.7-22	.5-21.7	25.9-24	.6-23.7	29.7-28	3.2-27.2
	EER	kW/kW	4.	40	4.	45	4.	11
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.	10.0~52.0 °C	(50~126 °F)	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 outdoor unit capacity		50~130% of out	door unit capacity
connectable	Quantity		1~	47	1~	·50	1~	-50
Sound power level (measured in anec	hoic room)	dB <a>	81	.5	83	3.5	8	35
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/	3) 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
Set Model								
Model			PUCY-P250YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P400YKE (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	150	150	150	210	150	250
		L/s	2,500	2,500	2,500	3,500	2,500	4,167
		cfm	5,296	5,296	5,296	7,415	5,296	8,828
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Dir	ect-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 ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	5.8	4.3	7.3	4.3	8.7
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type)		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type)	
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	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure pro	otection	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)
	Inverter circuit		Over-heat	protection,	Over-heat	protection,	Over-heat	protection,
	(COMP./FAN)		Over-currer	t protection	Over-currer	nt protection	Over-currer	nt protection
Refrigerant	Type x original cl	narge	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	170 (375)	207 (457)	170 (375)	207 (457)
Heat exchanger			Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	Salt-resistant	corrugated fin
		a :	& aluminiur	n alloy tube	& aluminiur	n alloy tube	& aluminiu	n alloy 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
	Gas pipe	mm (ın.)	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
Uptional parts			Joint: CMY-Y Header: CMY-Y	III: CMY-Y100VBK3 102SS/LS-G2, 202S/302S-G2 104/108/1010-G	Joint: CMY-Y Header: CMY-Y	at: CMY-Y100VBK3 102SS/LS-G2, 202S/302S-G2 104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2	

Notes:

*1	Nominal	cooling	conditions	(subject	to JIS	B8615-2)
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	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.)	35 °C D.B. (95 °F D.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

Indoor unit

Remote Controller

Lossnay

Other Commercial Proposal

Installation information

Ares

Ane

OUTDOOR UNIT

YKE-series

- Cooling-only Standard type

PUCY-P YSKE (-BS)

Specifications

			FUCT-F/00	TORE (-03)	FUCT-F750TSKE (-BS)		FUCT-F00013RE (-B3)	
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	6.5	81	.5	88	3.0
(Nominal)		BTU/h	261	,000	278	,100	300.	,300
	Power input	kW	18	.98	21	.27	23.	.46
	Current input	A	32.0-30).4-29.3	35.9-34	1.1-32.8	39.6-37	7.6-36.2
	EER	kW/kW	4.	03	3.	83	3.1	75
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	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)	10.0~52.0 °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	Quantity		1~	50	1~	50	1~	50
Sound power level (measured in anec	hoic room)	dB <a>	8	5	8	5	86	5.5
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/-	4) Brazed	19.05 (3/-	4) Brazed	19.05 (3/4	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-P250YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P400YKE (-BS)	PUCY-P400YKE (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	150	250	150	250	250	250
		L/s	2,500	4,167	2,500	4,167	4,167	4,167
		cfm	5,296	8,828	5,296	8,828	8,828	8,828
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, 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 ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	10.0	5.8	10.0	8.7	8.7
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galva	nized steel sheets	Pre-coated galvanized steel sheets		Pre-coated galvar	nized steel sheets
			(+powder coatil	ng for -BS type)	(+powder coating for -BS type)		(+powder coating for -BS type)	
External dimension		mm	1 650 x 020 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
External uniterision		in	65 x 36-1/4 x 20-3/16	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	65 x 48-1/16 x 20-3/16	65 x 48-1/16 x 20-3/16
Protection	High pressure pr	ntection	High press	ure sensor	High press	ure sensor	High press	
devices	lingii piessuie pi	JICCIION	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)
4011000	Inverter circuit		Over-heat	protection.	Over-heat	protection.	Over-heat	protection.
	(COMP./FAN)		Over-currer	nt protection	Over-currer	nt protection	Over-currer	nt protection
Refrigerant	Type x original ch	narge	R410A x 3.0 kg (7 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	170 (375)	207 (457)	170 (375)	207 (457)	207 (457)	207 (457)
Heat exchanger			Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	Salt-resistant	corrugated fin
			& aluminiur	n alloy tube	& aluminiur	n alloy tube	& aluminiur	n alloy 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 Joint: CMY-Y CMY-Y Header: CMY-Y	it: CMY-Y200VBK2 102SS/LS-G2, 202S/302S-G2 104/108/1010-G	Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	

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Notes:

'1	Nominal	cooling	conditions	(subject	to JIS	B8615-2)
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	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.)	35 °C D.B. (95 °F D.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKE-series - Cooling-only Standard type PUCY-P YSKE (-BS)



Specifications

Model			PUCY-P850YSKE (-BS)		PUCY-P900YSKE (-BS)		PUCY-P950YSKE (-BS)	
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	-400-415 V 50/60 Hz
Cooling capacity	*1	kW	92	2.0	96	6.0	10	4.0
(Nominal)		BTU/h	313	,900	327	,600	354	,800
	Power input	kW	25	.06	26.74		28.88	
	Current input	A	42.3-40).1-38.7	45.1-42	45.1-42.8-41.3		6.3-44.6
EER kW/kW		kW/kW	3.	67	3.	59	3.	60
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.	10.0~52.0 °C	; (50~126 °F)	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	loor unit capacity	50~130% of out	door unit capacity	
connectable	Quantity		1~	50	1~	50	1~	-50
Sound power level (measured in anec	hoic room)	dB <a>	86	0.5	86	ð.5	8	36
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.)	41.28 (1-5	/8) Brazed	41.28 (1-5	/8) Brazed	41.28 (1-5	i/8) Brazed
Set Model								
Model			PUCY-P400YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P500YKE (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m ³ /min	250	250	250	250	250	320
		L/s	4,167	4,167	4,167	4,167	4,167	5,333
		cfm	8,828	8,828	8,828	8,828	8,828	11,299
	Control, Driving mechanism		Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	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 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll her	metic compressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.7	10.0	10.0	10.0	10.0	10.9
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar (+powder coatin <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) '.8/1.1 or similar></td><td colspan="2">Pre-coated galvanized steel sheets (+powder coating for -BS type)</td><td colspan="2">Pre-coated galvanized steel sheets (+powder coating for -BS type)</td></munsell>	nized steel sheets ng for -BS type) '.8/1.1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type)		Pre-coated galvanized steel sheets (+powder coating for -BS type)	
External dimension	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure pro	otection	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, 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-currer	nt protection
Refrigerant	Type x original cl	narge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)	260 (574)
Heat exchanger			Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	Salt-resistant	corrugated fin
-		& aluminiur	n alloy tube	& aluminiur	n alloy tube	& aluminiur	m alloy 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			Joint: CMY-Y CMY-Y	at: CMY-Y200VBK2 102SS/LS-G2, 202S/302S-G2	Joint: CMY-Y CMY-Y	at: CMY-Y200VBK2 102SS/LS-G2, 202S/302S-G2	Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/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)

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

YKE-series

- Cooling-only Standard type

PUCY-P YSKE (-BS)





Specifications

Model			PUCY-P1000YSKE (-BS)		PUCY-P1050YSKE (-BS)		PUCY-P1100YSKE (-BS)			
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz
Cooling capacity	*1	kW	11:	2.0	· ·	115.0		·	121.5	
(Nominal)		BTU/h	382	100		392,400		414,600		
	Power input	kW	31.	02		29.33			30.91	
	Current input	A	52.3-49	.7-47.9		49.5-47.0-45.3			52.1-49.5-47.7	
	EER	kW/kW	3.0	61		3.92			3.93	
Temp. range of	Indoor	W.B.	15.0~24.0 °C	C (59~75 °F)	15.0	~24.0 °C (59~7	5 °F)	15.0	~24.0 °C (59~7	5 °F)
cooling	Outdoor	D.B.	10.0~52.0 °C	(50~126 °F)	10.0~	-52.0 °C (50~12	26 °F)	10.0~	~52.0 °C (50~12	26 °F)
Indoor unit Total capacity		50~130% of outo	oor unit capacity	50~130%	of outdoor uni	t capacity	50~130%	of outdoor uni	t capacity	
connectable	Quantity		1~	50		1~50			1~50	
Sound power leve (measured in ane	hoic room)	dB <a>	85	.5		86			86.5	
Refrigerant piping	Liquid pipe	mm (in.)	19.05 (3/4	1) Brazed	19	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braze	ed
diameter	Gas pipe	mm (in.)	41.28 (1-5	(8) Brazed	41	.28 (1-5/8) Braz	zed	41	.28 (1-5/8) Braz	zed
Set Model										
Model			PUCY-P500YKE (-BS)	PUCY-P500YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P450YKE (-BS)
Fan	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	320	320	150	150	250	150	210	250
		L/s	5,333	5,333	2,500	2,500	4,167	2,500	3,500	4,167
		cfm	11,299	11,299	5,296	5,296	8,828	5,296	7,415	8,828
	Control, Driving mechanism		Inverter-control, Dir	ect-driven by motor	Inverter-cor	ntrol, Direct-driv	en by motor	Inverter-cor	ntrol, Direct-driv	en by motor
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll her	metic compressor	Inverter so	croll hermetic co	ompressor	Inverter se	croll hermetic co	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	10.9	5.8	5.8	10.0	5.8	7.3	10.0
	Case heater	kW	-	-	-			-		
External finish			Pre-coated galvar (+powder coatin <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) .8/1.1 or similar></td><td colspan="2">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td><td>eel sheets 3S type) or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></munsell>	nized steel sheets ng for -BS type) .8/1.1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		eel sheets 3S type) or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		
External dimension	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure pro	otection	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)
	Inverter circuit		Over-heat	protection,	Ov	er-heat protecti	on,	Ov	er-heat protecti	on,
D (:	(COMP./FAN)		Over-currer	t protection	Ove	er-current protect	Ction	Ove	er-current protec	Ction
Refrigerant	l ype x original cr	harge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	(7 lbs)	(7 lbs)	(12 lbs)	(7 lbs)	(12 lbs)	(12 lbs)
Net weight		kg (lbs)	260 (574)	260 (574)	170 (375)	170 (375)	207 (457)	170 (375)	207 (457)	207 (457)
Heat exchanger		Salt-resistant	corrugated fin	Salt-re	esistant corruga	ited fin	Salt-re	esistant corruga	ited fin	
Pipe between unit Liquid pipe			& aluminiur	n alloy tube	& a	iuminium alloy t		& a	uminium alloy 1	UDe
and distributor	Liquia pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning k	it: CMY-Y200VBK2	Outdoor Tw	inning kit: CMY	-Y300VBK3	Outdoor Tw	inning kit: CMY	-Y300VBK3
			Joint: CMY-Y	02SS/LS-G2,	Joint:	CMY-Y102SS/L	_S-G2,	Joint: CMY-Y102SS/LS-G2,		
			Header: CMY-Y2	104/108/1010-G	Header:	CMY-Y202S/30 CMY-Y104/108	3/1010-G	CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

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

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YKE-series - Cooling-only Standard type PUCY-P YSKE (-BS)



Specifications

Model	Model		PUCY-P1150YSKE (-BS)			PUCY-P1200YSKE (-BS)				
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz	3-phase	4-wire 380-400-415 V	50/60 Hz		
Cooling capacity	*1	kW		128.0			132.0			
(Nominal)		BTU/h		436,700		450,400				
	Power input	kW		33.33			35.20			
	Current input	A		56.2-53.4-51.5		59.4-56.4-54.4				
	EER	kW/kW		3.84		3.75				
Temp. range of	Indoor	W.B.	1	5.0~24.0 °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)				
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity		
connectable	Quantity			1~50			1~50			
Sound power leve (measured in anec	hoic room)	dB <a>		88			88.5			
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					PLICY-PANNYKE (-BS)					
Model			F001-F330TRE (-83)	F0CT-F400TRE (-B3)	F0C1-F400TRE (-B3)	-0014001RE (-B3)	F001-F400TRE (-B3)	F0CT-F400TRE (-B3)		
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	250	250	250	250	250		
		L/s	3,500	4,167	4,167	4,167	4,167	4,167		
		cfm	7,415	8,828	8,828	8,828	8,828	8,828		
	mechanism		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 press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)		
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor					
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter		
	Motor output	kW	7.3	8.7	8.7	8.7	8.7	8.7		
	Case heater	KW	-	-	-	-	-	-		
External finish			Pre-co (+po <mun< td=""><td>oated galvanized steels owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sneets ype) milar></td><td>Pre-co (+pr <mui< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sneets ype) milar></td></mui<></td></mun<>	oated galvanized steels owder coating for -BS t NSELL 3Y 7.8/1.1 or si	sneets ype) milar>	Pre-co (+pr <mui< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sneets ype) milar></td></mui<>	bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si	sneets ype) milar>		
External dimension	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740		
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16		
Protection	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 (COMP./FAN)		Over-heat	protection, Over-curren	t protection	Over-heat	protection, Over-currer	t protection			
Refrigerant Type x original charge		narge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)		
Net weight kg (lbs)		kg (lbs)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)		
Heat exchanger			Salt-resistant	corrugated fin & alumin	ium alloy tube	Salt-resistant	corrugated fin & alumir	nium alloy 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-Y1 Head	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y2 der: CMY-Y104/108/10	00VBK3 202S/302S-G2 10-G	Outdoor Joint: CMY-Y Hear	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

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

YKE-series - Cooling-only Standard type PUCY-P YSKE (-BS)



Specifications

Model	Model		PUCY-P1250YSKE (-BS)			PUCY-P1300YSKE (-BS)			
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz	3-phase	4-wire 380-400-415 V	50/60 Hz	
Cooling capacity	*1	kW		136.0		140.0			
(Nominal)		BTU/h		464,000		477,700			
	Power input	kW	36.85				38.46		
	Current input	A		62.2-59.0-56.9			64.9-61.6-59.4		
	EER	kW/kW		3.69		3.64			
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	-	15.0~24.0 °C (59~75 °F)			
cooling	Outdoor	D.B.	10	0.0~52.0 °C (50~126 °l	F)	10.0~52.0 °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	Quantity			2~50			2~50		
Sound power leve (measured in ane	l choic room)	dB <a>		88.5			88.5		
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			FUCT-F400TRE (-B3)	FUC 1-F4001RE (-BS)	FUCT-F450TRE (-B3)	FUCT-F400TRE (-B3)	FUCT-F450TRE (-B3)	FUCT-F450TKE (-B3)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m ³ /min	250	250	250	250	250	250	
		L/s	4,167	4,167	4,167	4,167	4,167	4,167	
	0.1.1.0.1.1	cfm	8,828	8,828	8,828	8,828	8,828	8,828	
	mechanism		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 press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverte	er scroll hermetic comp	ressor	Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	8.7	8.7	10.0	8.7	10.0	10.0	
	Case heater	KW	-	-	-	-	-	-	
External finish			Pre-co (+po <mun< td=""><td>wder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sneets ype) milar></td><td>Pre-co (+po <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sneets ype) milar></td></mun<></td></mun<>	wder coating for -BS t NSELL 3Y 7.8/1.1 or si	sneets ype) milar>	Pre-co (+po <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sneets ype) milar></td></mun<>	bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si	sneets ype) milar>	
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	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 (COMP./FAN)		Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-currer	nt protection		
Refrigerant Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)		
Net weight		kg (lbs)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)	
Heat exchanger			Salt-resistant of	corrugated fin & alumin	ium alloy tube	Salt-resistant	corrugated fin & alumir	nium alloy 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 Joint: CMY-Y1 Head	Twinning kit: CMY-Y3 02SS/LS-G2, CMY-Y2 ler: CMY-Y104/108/10	00VBK3 202S/302S-G2 10-G	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2			

Notes:

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

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

YKE-series



Specifications

Model	Model		PUCY-P1350YSKE (-BS)			PUCY-P1400YSKE (-BS)			
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz	3-phase	4-wire 380-400-415 V	50/60 Hz	
Cooling capacity	*1	kW		144.0		152.0			
(Nominal)		BTU/h	491,300				518,600		
	Power input	kW		40.11		42.33			
	Current input	A		67.7-64.3-62.0			71.4-67.8-65.4		
	EER	kW/kW		3.59		3.59			
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	·)	15.0~24.0 °C (59~75 °F)			
cooling Outdoor D.B.		D.B.	1	0.0~52.0 °C (50~126 °l	F)	1	0.0~52.0 °C (50~126 °l	-)	
Indoor unit	Total capacity		50~1	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Quantity			2~50			2~50		
Sound power leve (measured in ane	l choic room)	dB <a>		88.5			88		
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-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P450YKE (-BS)	PUCY-P500YKE (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	250	250	250	250	250	320	
		L/s	4,167	4,167	4,167	4,167	4,167	5,333	
		cfm	8,828	8,828	8,828	8,828	8,828	11,299	
	Control, Driving mechanism		Inverter	-control, Direct-driven b	by 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 2	
*2	External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor				
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.0	10.0	10.0	10.0	10.0	10.9	
	Case heater	kW	-			-	-	-	
External finish			Pre-co (+po <mun< td=""><td>oated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td><td>Pre-co (+po <mui< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) nilar></td></mui<></td></mun<>	oated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	Pre-co (+po <mui< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) nilar></td></mui<>	bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) nilar>	
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection	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 (COMP./FAN)		Over-heat	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection		
Refrigerant Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 6.0 kg (14 lbs)		
Net weight kg (lbs)		207 (457)	207 (457)	207 (457)	207 (457)	207 (457)	260 (574)		
Heat exchanger		Salt-resistant	corrugated fin & alumin	ium alloy tube	Salt-resistant	corrugated fin & alumir	ium alloy 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 Joint: CMY-Y1 Head	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y2 der: CMY-Y104/108/10	00VBK3 202S/302S-G2 10-G	Outdoor Joint: CMY-Y Head	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

YKE-series

- Cooling-only Standard type

PUCY-P YSKE (-BS)

Specifications

Model			Р	UCY-P1450YSKE (-BS	S)	PUCY-P1500YSKE (-BS)			
Power source			3-phase	4-wire 380-400-415 V	50/60 Hz	3-phase	4-wire 380-400-415 V	50/60 Hz	
Cooling capacity	*1	kW		160.0			168.0		
(Nominal)		BTU/h		545,900			573,200		
	Power input	kW		44.44		46.53			
	Current input	A		75.0-71.2-68.6			78.5-74.6-71.9		
	EER	kW/kW		3.60			3.61		
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	-)	1	5.0~24.0 °C (59~75 °F	-)	
cooling	Outdoor	D.B.	10	0.0~52.0 °C (50~126 °l	F)	1	0.0~52.0 °C (50~126 °l	F)	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity	
connectable	Quantity			2~50			2~50		
Sound power leve (measured in anec	l choic room)	dB <a>		88			87.5		
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-P450YKE (-BS)	PUCY-P500YKE (-BS)	PUCY-P500YKE (-BS)	PUCY-P500YKE (-BS)	PUCY-P500YKE (-BS)	PUCY-P500YKE (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	250	320	320	320	320	320	
		L/s	4,167	5,333	5,333	5,333	5,333	5,333	
Ļ		cfm	8,828	11,299	11,299	11,299	11,299	11,299	
	Control, Driving mechanism		Inverter-	control, Direct-driven t	by motor	Inverter	control, Direct-driven t	by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverte	er scroll hermetic comp	ressor	Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.0	10.9	10.9	10.9	10.9	10.9	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-cc (+pc <mun< td=""><td>bated galvanized steel wder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td><td>Pre-cc (+pc <mun< td=""><td>bated galvanized steel wder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mun<></td></mun<>	bated galvanized steel wder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	Pre-cc (+pc <mun< td=""><td>bated galvanized steel wder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mun<>	bated galvanized steel wder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection	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 (COMP./FAN)		Over-heat p	protection, Over-curren	t protection	Over-heat	protection, Over-curren	t protection	
Refrigerant	Type x original cl	narge	R410A x 5.0 kg (12 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	207 (457)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	
Heat exchanger			Salt-resistant	corrugated fin & alumin	ium alloy tube	Salt-resistant	corrugated fin & alumir	ium alloy 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 Joint: CMY-Y1 Head	Twinning kit: CMY-Y3 02SS/LS-G2, CMY-Y2 ler: CMY-Y104/108/10	00VBK3 202S/302S-G2 10-G	Outdoor Joint: CMY-Y1 Head	Twinning kit: CMY-Y3 02SS/LS-G2, CMY-Y2 ler: CMY-Y104/108/10	00VBK3 202S/302S-G2 10-G	

Notes:

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

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

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

Lossnay

YKE-series - Cooling-only High Standard type PUCY-GP YSKE (-BS)



Specifications

Model			PUCY-GP40	0YSKE (-BS)	PUCY-GP45	OYSKE (-BS)	PUCY-GP500YSKE (-BS)	
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	-400-415 V 50/60 Hz
Cooling capacity	*1	kW	44	.8	50	.9	57	7.0
(Nominal)		BTU/h	152	,900	173	,700	194,500	
	Power input	kW	9.	43	11.	.04	12.75	
	Current input	A	15.9-15	5.1-14.5	18.6-17	7.7-17.0	21.5-20).4-19.7
	EER	kW/kW	4.	75	4.	61	4.	47
Temp. range of	Indoor	W.B.	15.0~24.0 °	C (59~75 °F)	15.0~24.0 °C	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	C (50~126 °F)
Indoor unit	Total capacity		50~130% of out	loor unit capacity	50~130% of outo	loor unit capacity	50~130% of out	door unit capacity
connectable	Quantity		1~	34	1~	39	1~	-43
Sound power level dB <a:< td=""><td>dB <a></td><td>80</td><td>0.5</td><td>8</td><td>1</td><td>81</td><td>1.5</td></a:<>		dB <a>	80	0.5	8	1	81	1.5
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8	3) 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
Set Model								
Model			PUCY-P200YKE (-BS)	PUCY-P200YKE (-BS)	PUCY-P200YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P250YKE (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	150	150	150	150	150	150
		L/s	2,500	2,500	2,500	2,500	2,500	2,500
		cfm	5,296	5,296	5,296	5,296	5,296	5,296
	Control, Driving mechanism		Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	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 press.		0 Pa (0 mmH ₂ O) 0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.0	3.0	3.0	4.3	4.3	4.3
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galva (+powder coati <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) '.8/1.1 or similar></td><td colspan="2">Pre-coated galvanized steel sheets (+powder coating for -BS type)</td><td>Pre-coated galva (+powder coati <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) 7.8/1.1 or similar></td></munsell></td></munsell>	nized steel sheets ng for -BS type) '.8/1.1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type)		Pre-coated galva (+powder coati <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) 7.8/1.1 or similar></td></munsell>	nized steel sheets ng for -BS type) 7.8/1.1 or similar>
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	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16
Protection devices	High pressure pro	otection	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, 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	t protection	Over-currer	nt protection
Refrigerant	Type x original cl	narge	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	170 (375)	170 (375)	170 (375)	170 (375)
Heat exchanger			Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	Salt-resistant	corrugated fin
			& aluminiur	n alloy tube	& aluminiur	n alloy tube	& aluminiu	n alloy 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
Ontional parts	Gas pipe	jmm (iñ.)	22.2 (7/8) Brazed	22.2 (1/8) Brazed	22.2 (7/8) Brazed	22.2 (1/8) Brazed	22.2 (7/8) Brazed	22.2 (1/8) Brazed
Optional parts			Joint: CMY-Y CMY-Y	102SS/LS-G2, 202S-G2 104/108/1010-G	Joint: CMY-Y CMY-Y2 Header: CMY-Y2	102SS/LS-G2, 202S-G2 104/108/1010-G	Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2	

Notes:

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

YKE-series - Cooling-only High Standard type PUCY-GP YSKE (-BS)



Specifications

Model			PUCY-GP65	0YSKE (-BS)	PUCY-GP700YSKE (-BS)		
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	
Cooling capacity	*1	kW	73	3.5	80	0.0	
(Nominal)		BTU/h	250	,800	273	,000,	
	Power input	kW	18	.14	19.51		
	Current input	A	30.6-29	0.0-28.0	32.9-31.2-30.1		
	EER	kW/kW	4.	05	4.	10	
Temp. range of	Indoor	W.B.	15.0~24.0 °C	C (59~75 °F)	15.0~24.0 °C	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	loor unit capacity	
connectable	Quantity		1~	50	1~	·50	
Sound power level (measured in anechoic room) dB <		dB <a>	83	3.5	84	1.5	
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/	8) Brazed	19.05 (3/-	4) Brazed	
diameter Gas pipe mm (in		mm (in.)	28.58 (1-1	/8) Brazed	34.93 (1-3	/8) Brazed	
Set Model							
Model			PUCY-P300YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
Ā	Air flow rate	m ³ /min	150	210	210	210	
		L/s	2,500	3,500	3,500	3,500	
		cfm	5,296	7,415	7,415	7,415	
	Control, Driving mechanism		Inverter-control, 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	
*2	External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.8	7.3	7.3	7.3	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvan (+powder coatin <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) /.8/1.1 or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <muinsell 1="" 37="" 7="" 8="" or="" similar=""></muinsell></td></munsell>	nized steel sheets ng for -BS type) /.8/1.1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <muinsell 1="" 37="" 7="" 8="" or="" similar=""></muinsell>		
External dimension	n H x W x D	mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	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 (COMP./FAN)		Over-heat protection, 0	Over-current protection	Over-heat protection, (Over-current protection	
Refrigerant	Type x original c	harge	R410A x 3.0 kg (7 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	
Net weight		kg (lbs)	170 (375)	207 (457)	207 (457)	207 (457)	
Heat exchanger			Salt-resistant corrugated	fin & aluminium alloy tube	Salt-resistant corrugated	fin & aluminium alloy tube	
Pipe between unit	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-O Header: CMY-Y	it: CMY-Y100VBK3 52, CMY-Y202S/302S-G2 104/108/1010-G	Outdoor Twinning k Joint: CMY-Y102SS/LS-O Header: CMY-Y	kit: CMY-Y200VBK2 52, CMY-Y202S/302S-G2 104/108/1010-G	

Notes:

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

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

YKE-series - Cooling-only High Standard type PUCY-GP YSKE (-BS)



Specifications

Model			PUCY-GP750YSKE (-BS)			PUCY-GP800YSKE (-BS)			PUCY-GP850YSKE (-BS)		
Power source			3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz
Cooling capacity	*1	kW		84.8			90.9			97.0	
(Nominal)		BTU/h		289.300			310,200			331.000	
. ,	Power input	kW		18.84			20.61			22.45	
	Current input	A		31.8-30.2-29.1			34.7-33.0-31.8		37.8-36.0-34.7		
	FFR	kW/kW		4 50		4.41			4 32		
Temp, range of	Indoor	W.B.	15.0	~24.0 °C (59~7	5 °F)	15.0~24.0 °C (59~75 °F)			15.0	~24.0 °C (59~7	5 °F)
cooling	Outdoor	D B	10.0~52.0 °C (50~126 °E)			10.0~	52 0 °C (50~12	26 °F)	10.0-	-52 0 °C (50~12	26 °F)
Indoor unit	Total capacity	0.0.	50~130%	of outdoor unit	t capacity	50~130%	of outdoor uni	t capacity	50~130%	of outdoor unit	t capacity
connectable	Quantity		00 100 /	1~50	coupainty	00 100 /	1~50	coupaony	00 100 //	1~50	(oupdoily
Sound power level	quantity										
(measured in anec	hoic room)	dB <a>		84			84.5			84.5	
Refrigerant piping	Liquid pipe	mm (in.)	19	9.05 (3/4) Braze	ed	19	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braze	ed
diameter	Gas pipe	mm (in.)	34	.93 (1-3/8) Braz	zed	34	.93 (1-3/8) Braz	red	41	.28 (1-5/8) Braz	zed
Set Model			1	. ,		1					
Model			PUCY-P200YKE (-BS)	PUCY-P200YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P200YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P250YKE (-BS)	PUCY-P350YKE (-BS)
Fan	Type x Quantity		Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
			x 1	x 1	x 1	x 1	x 1	x 1	x 1	x 1	x 1
	Air flow rate	m³/min	150	150	210	150	150	210	150	150	210
		L/s	2,500	2,500	3,500	2,500	2,500	3,500	2,500	2,500	3,500
		cfm	5,296	5,296	7,415	5,296	5,296	7,415	5,296	5,296	7,415
	Control, Driving mechanism		Inverter-con	trol, Direct-driv	en by motor	Inverter-con	trol, Direct-driv	en by motor	Inverter-cor	ntrol, Direct-driv	en by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*2	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor		Inverter so	croll hermetic co	ompressor	Inverter se	croll hermetic co	ompressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.0	3.0	7.3	3.0	4.3	7.3	4.3	4.3	7.3
	Case heater	kW	-	-	-	-	-	-	-	-	-
External finish			Pre-coate (+powd <munse< th=""><th>d galvanized st er coating for -E LL 3Y 7.8/1.1 c</th><th>eel sheets 3S type) or similar></th><th colspan="2">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></th><th colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type)</th></munse<>	d galvanized st er coating for -E LL 3Y 7.8/1.1 c	eel sheets 3S type) or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type)			
External dimension	n H x W x D	mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740
		in	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x
	-	in.	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16
Protection	High pressure pro	otection	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)
	Inverter circuit		Ov	er-heat protecti	on,	Ov	er-heat protecti	on,	Ov	er-heat protecti	on,
	(COMP./FAN)		Ove	r-current protect	ction	Ove	r-current protect	ction	Ove	r-current protec	ction
Refrigerant	Type x original ch	narge	R410A x 3.0 kg	R410A x 3.0 kg	R410A x 5.0 kg	R410A x 3.0 kg	R410A x 3.0 kg	R410A x 5.0 kg	R410A x 3.0 kg	R410A x 3.0 kg	R410A x 5.0 kg
			(7 lbs)	(7 lbs)	(12 lbs)	(7 lbs)	(7 lbs)	(12 lbs)	(7 lbs)	(7 lbs)	(12 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	207 (457)	170 (375)	170 (375)	207 (457)	170 (375)	170 (375)	207 (457)
Heat exchanger			Salt-re	sistant corruga	ited fin	Salt-re	esistant corruga	ted fin	Salt-re	esistant corruga	ited fin
			& al	uminium alloy t	ube	& al	uminium alloy t	ube	& a	uminium alloy t	ube
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
and distributor		()	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mm (in.)	22.2 (7/8)	22.2 (7/8)	∠8.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	∠ö.58 (1-1/8)
Ontional parts		. ,	Outdoor Two	Brazeo	Blazed	Brazed	Brazeo	Brazed	Outdoor Tr	Brazed	Brazed
Optional parts			Joint	CMY-Y102SS/I	S-G2	Joint	CMY-Y102SS/	S-G2	Joint	CMY-Y102SS/I	S-G2
			oomt.	CMY-Y202S/30	2S-G2	Joint.	CMY-Y202S/30	2S-G2	John Colline	CMY-Y202S/30	2S-G2
			Header:	CMY-Y104/108	3/1010-G	Header:	CMY-Y104/108	3/1010-G	Header:	CMY-Y104/108	3/1010-G

Notes:

*1	Nominal cooling	conditions	(subject	to JIS	B8615-2)
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	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.)	35 °C D.B. (95 °F D.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

YKE-series

- Cooling-only High Standard type

PUCY-GP YSKE (-BS)

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Specifications

Model			PUCY-GP900YSKE (-BS)			PUCY-GP950YSKE (-BS)			PUCY-GP1000YSKE (-BS)		
Power source			3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz
Cooling capacity	*1	kW		102.0			107.0			113.5	
(Nominal)		BTU/h		348.000			365,100			387.300	
. ,	Power input	kW		24.34			26.35			28.09	
	Current input	A		41.0-39.0-37.6			44.4-42.2-40.7		47.4-45.0-43.4		
	FFR	kW/kW		4 19			4.06			4 04	
Temp, range of	Indoor	W.B.	15.0	~24.0 °C (59~7	5 °F)	15.0~24.0 °C (59~75 °F)			15.0	~24.0 °C (59~7	5 °F)
cooling	Outdoor	DB	10.0~52.0 °C (50~126 °F)			10.0~	52 0 °C (50~12	26 °F)	10.0~	52 0 °C (50~12	26 °F)
Indoor unit	Total capacity		50~130%	of outdoor uni	t capacity	50~130%	of outdoor unit	t capacity	50~130%	of outdoor unit	t capacity
connectable	Quantity		00 100 //	1~50	coupaony	00 100 /	1~50	coupaony	00 100 /	1~50	coupacity
Sound power level	Quantity			1 00			1 00			1 00	
(measured in anec	hoic room)	dB <a>		84.5			84.5			85.5	
Refrigerant piping	Liquid pipe	mm (in.)	19	9.05 (3/4) Braze	ed	19	9.05 (3/4) Braze	bd	19	9.05 (3/4) Braze	ed .
diameter	Gas pipe	mm (in.)	41	.28 (1-5/8) Braz	zed	41	.28 (1-5/8) Braz	ed	41	28 (1-5/8) Braz	zed
Set Model		1		- (/ -							
Model			PUCY-P250YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P300YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	150	150	210	150	150	210	150	210	210
		L/s	2.500	2.500	3.500	2.500	2.500	3.500	2.500	3.500	3.500
		cfm	5.296	5,296	7.415	5,296	5,296	7,415	5,296	7,415	7,415
	Control, Driving	-	Inverter-con	trol, Direct-driv	en by motor	Inverter-con	trol, Direct-driv	en by motor	Inverter-con	trol, Direct-driv	en by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*2	External static pr	PSS	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor			Inverter so	croll hermetic c	ompressor	Inverter so	croll hermetic co	mpressor	Inverter so	croll hermetic co	ompressor
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output kW		4.3	5.8	7.3	5.8	5.8	7.3	5.8	7.3	7.3
	Case heater	kW	-	-	-	-	-	-	-	-	_
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type)		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 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 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 48-1/16 x
			29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16
Protection devices	High pressure pro	otection	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)
	Inverter circuit (COMP./FAN)		Ov Ove	er-heat protecti r-current protect	on, ction	Ov Ove	er-heat protecti r-current protect	on, tion	Ov Ove	er-heat protecti r-current protect	on, ction
Refrigerant	Type x original ch	narge	R410A x 3.0 kg	R410A x 3.0 kg	R410A x 5.0 kg	R410A x 3.0 kg	R410A x 3.0 kg	R410A x 5.0 kg	R410A x 3.0 kg	R410A x 5.0 kg	R410A x 5.0 kg
			(7 lbs)	(7 lbs)	(12 lbs)	(7 lbs)	(7 lbs)	(12 lbs)	(7 lbs)	(12 lbs)	(12 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	207 (457)	170 (375)	170 (375)	207 (457)	170 (375)	207 (457)	207 (457)
Heat exchanger			Salt-re & al	esistant corruga uminium alloy f	ted fin ube	Salt-re & al	esistant corruga uminium alloy t	ted fin ube	Salt-re & al	sistant corruga uminium alloy t	ted fin ube
Pipe between unit	Liquid pipe	mm (in)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
and distributor	L	()	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mm (in)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
			Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
Optional parts			Joint: Header:	CMY-Y102SS/L CMY-Y102SS/L CMY-Y202S/30 CMY-Y104/108	-+300VBK3 _S-G2, 02S-G2 8/1010-G	Joint: 0 Header:	CMY-Y102SS/L CMY-Y102SS/L CMY-Y202S/30 CMY-Y104/108	- 1300VBK3 .S-G2, 12S-G2 8/1010-G	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

YKE-series - Cooling-only High Standard type PUCY-GP YSKE (-BS)



Specifications

Model		PUCY-GP1050YSKE (-BS)		PUCY-GP1100YSKE (-BS)				
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling capacity	*1 kW BTU/h		120.0		124.0			
(Nominal)				409,400		423,100		
	Power input	kW		28.91			31.63	
	Current input	A		48.8-46.3-44.6			53.3-50.7-48.8	
	EER	kW/kW	4.15		3.92			
Temp. range of	Indoor	W.B.	1	5.0~24.0 °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)			
Indoor unit	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity			
connectable	Quantity		1~50		1~50			
Sound power level (measured in anechoic room) dB <a>		86.5		87				
Refrigerant piping	Refrigerant nining Liquid nine 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 1 1 -							
Model			PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P350YKE (-BS)	PUCY-P400YKE (-BS)
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	210	210	210	210	210	250
		L/s	3,500	3,500	3,500	3,500	3,500	4,167
		cfm	7,415	7,415	7,415	7,415	7,415	8,828
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.3	7.3	7.3	7.3	7.3	8.7
	Case heater	kW	-	-	-	-	-	-
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>				
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
Refrigerant	Type x original cl	narge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)	207 (457)
Heat exchanger			Salt-resistant	corrugated fin & alumin	ium alloy tube	Salt-resistant	corrugated fin & alumir	nium alloy tube
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				

Notes:

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

•		,			
	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.)	35 °C D.B. (95 °F D.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
OUTDOOR UNIT YKE-series - Cooling-only High Efficiency type PUCY-EP YKE (-BS)

kW

BTU/h

kW

A

kW/kW

W.B.

D.B.

dB <A>

mm (in.)

mm (in.)

m³/min

L/s

cfm

kW

kW

mm

in.

kg (lbs)

kW

PUCY-EP200YKE (-BS)

3-phase 4-wire 380-400-415 V 50/60 Hz

22.4

76.400

4.43

7.4-7.1-6.8

5.05

15.0~24.0 °C (59~75 °F)

10.0~52.0 °C (50~126 °F)

50~130% of outdoor unit

capacity

1~17

77.5

9.52 (3/8) Brazed

22.2 (7/8) Brazed

Propeller fan x 1

150

2,500

5,296

Inverter-control

Direct-driven by motor

0.92 x 1

0 Pa (0 mmH₂O)

Inverter scroll hermetic

compressor

Inverter

2.9

1,650 x 920 x 740

65 x 36-1/4 x 29-3/16

High pressure sensor

High pressure switch at

4.15 MPa (601 psi)

Over-heat protection.

Over-current protection

R410A x 3.0 kg (7 lbs)

170 (375)

Salt-resistant corrugated fin

& aluminium alloy tube

Joint: CMY-Y102SS/LS-G2

PUCY-EP250YKE (-BS)

3-phase 4-wire 380-400-415 V 50/60 Hz

28.5

97.200

6.00

10.1-9.6-9.2

4.75

15.0~24.0 °C (59~75 °F)

10.0~52.0 °C (50~126 °F)

capacity

1~21

78.5

9.52 (3/8) Brazed (12.7 (1/2)

Propeller fan x 1

150

2,500

5,296

Inverter-control.

Direct-driven by motor

0.92 x 1

0 Pa (0 mmH₂O)

Inverter scroll hermetic

compressor

Inverter

4.3

1,650 x 920 x 740

65 x 36-1/4 x 29-3/16

High pressure sensor

High pressure switch at

4.15 MPa (601 psi)

Over-heat protection.

Over-current protection

R410A x 3.0 kg (7 lbs)

170 (375)

Salt-resistant corrugated fin

& aluminium alloy tube

Joint: CMY-Y102SS/LS-G2

Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>

Header: CMY-Y104/108/1010-G Header: CMY-Y104/108/1010-G

 Brazed, farthest length >= 90 m)
 Brazed, farthest length >= 40 m)

 22.2 (7/8) Brazed
 22.2 (7/8) Brazed

130% of outdoor unit

Specifications

Power input

EER

Indoor

Outdoor

Quantity

Gas pipe

Air flow rate

mechanism

Туре

Motor output

*2 External static press

Starting method

High pressure protection

Type x original charge

Motor output

Case heater

Inverter circuit

(COMP./FAN)

Type x Quantity

Control, Driving

Current input

Total capacity

Model

Power source Cooling capacity (Nominal)

Temp. range of

cooling

Indoor uni

diameter

Compressor

External finish

Protection

Refrigerant

Net weight

Heat exchange

Optional parts

devices

External dimension H x W x D

FAN

connectable

Sound power level

(measured in anechoic room) Refrigerant piping Liquid pipe



PUCY-EP300YKE (-BS)

3-phase 4-wire 380-400-415 V 50/60 Hz

33.5

114.300

7.08 11.9-11.3-10.9

4.73 15.0~24.0 °C (59~75 °F)

10.0~52.0 °C (50~126 °F)

50~130% of outdoor unit

capacity

1~26

80.5

9.52 (3/8) Brazed (12.7 (1/2)

Propeller fan x 2

320

5,333

11,299

Inverter-control,

Direct-driven by motor

0.92 x 2

0 Pa (0 mmH₂O)

Inverter scroll hermetic

compressor

Inverter

4.3

Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>

1,650 x 1,750 x 740

65 x 68-15/16 x 29-3/16

High pressure sensor

High pressure switch at

4.15 MPa (601 psi)

Over-heat protection.

Over-current protection

R410A x 6.0 kg (14 lbs)

247 (545)

Salt-resistant corrugated fin

& aluminium alloy tube

Joint: CMY-Y102SS/LS-G2

Header: CMY-Y104/108/1010-G



PUCY-EP350YKE (-BS)

3-phase 4-wire 380-400-415 V 50/60 Hz

40.0

136.500

8.60 14.5-13.7-13.2

4.65

15.0~24.0 °C (59~75 °F)

10.0~52.0 °C (50~126 °F)

50~130% of outdoor unit

capacity

1~30

80

12.7 (1/2) Brazed

28.58 (1-1/8) Brazed

Propeller fan x 2

320

5,333

11,299

Inverter-control,

Direct-driven by motor

0.92 x 2 0 Pa (0 mmH₂O)

Inverter scroll hermetic

compressor

Inverter

5.6

Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>

1,650 x 1,750 x 740

65 x 68-15/16 x 29-3/16

High pressure sensor

High pressure switch at

4.15 MPa (601 psi)

Over-heat protection.

Over-current protection

R410A x 6.0 kg (14 lbs)

262 (578)

Salt-resistant corrugated fin & aluminium alloy tube Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2

ader: CMY-Y104/108/1010-G

Advantages of CITY MULTI Outdoor/Heat source unit

Notes:

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

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

*2 External static pressure option is available (30 Pa, 60 Pa/3.1 mmHzO, 6.1 mmHzO). Consult your dealer about the specification when setting External static pressure option *3 The sound level may increase at high outside air temperature

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

OUTDOOR UNIT YKE-series - Cooling-only High Efficiency type PUCY-EP YKE (-BS)



Specifications

Model		PUCY-EP400YKE (-BS) PUCY-EP450YKE (-BS)		PUCY-EP500YKE (-BS)	
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity *1 kW		44.0	48.0	56.0	
(Nominal)		BTU/h	150,100	163,800	191,100
Power input		kW	10.13	11.42	14.33
	Current input	A	17.1-16.2-15.6	19.2-18.3-17.6	24.1-22.9-22.1
	EER	kW/kW	4.34	4.20	3.90
Temp. range of Indoor W.B.		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	Quantity		1~34	1~39	1~43
Sound power leve (measured in ane	l choic room)	dB <a>	80	80.5	82.5
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 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	320	320	320
		L/s	5,333	5,333	5,333
		cfm	11,299	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output kW		0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter Inverter		Inverter
	Motor output	kW	6.9	8.0	10.6
	Case heater	kW	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>
External dimensio	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	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 cl	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)
Heat exchanger			Salt-resistant corrugated fin	Salt-resistant corrugated fin	Salt-resistant corrugated fin
			& aluminium alloy tube	& aluminium alloy tube	& aluminium alloy 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 D.B./19 °C W.B. (81 °F D.B./66 °F W.B.)	35 °C D.B. (95 °F D.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

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

OUTDOOR UNIT YKE-series - Cooling-only High Efficiency type

PUCY-EP YSKE (-BS)



Specifications

Model			PUCY-EP400YSKE (-BS)		PUCY-EP45	PUCY-EP450YSKE (-BS)		PUCY-EP500YSKE (-BS)	
Power source			3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	3-phase 4-wire 380-	400-415 V 50/60 Hz	
Cooling capacity	*1	kW	44	.8	50).9	57	7.0	
(Nominal)		BTU/h	152	,900	173	,700	194.	,500	
	Power input	kW	9.3	35	10	.94	12.	.63	
	Current input	A	15.7-14	.9-14.4	18.4-17	7.5-16.9	21.3-20).2-19.5	
	EER	kW/kW	4.	79	4.	65	4.	51	
Temp. range of	Indoor	W.B.	15.0~24.0 °C	C (59~75 °F)	15.0~24.0 °C	C (59~75 °F)	15.0~24.0 °C	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)	10.0~52.0 °C	; (50~126 °F)	
Indoor unit	Total capacity		50~130% of outo	loor unit capacity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
connectable	Quantity		1~	34	1~39		1~43		
Sound power leve (measured in aneo	l choic room)	dB <a>	80.5		81		81.5		
Refrigerant piping	Liquid pipe	mm (in.)	12.7 (1/2	?) Brazed	15.88 (5/	8) Brazed	15.88 (5/8	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	
Set Model									
Model			PUCY-EP200YKE (-BS)	PUCY-EP200YKE (-BS)	PUCY-EP200YKE (-BS)	PUCY-EP250YKE (-BS)	PUCY-EP250YKE (-BS)	PUCY-EP250YKE (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m ³ /min	150	150	150	150	150	150	
		L/s	2,500	2,500	2,500	2,500	2,500	2,500	

	Air flow rate	m³/min	150	150	150	150	150	150
		L/s	2,500	2,500	2,500	2,500	2,500	2,500
		cfm	5,296	5,296	5,296	5,296	5,296	5,296
	Control, Driving mechanism		Inverter-control, 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 ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ 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	2.9	2.9	2.9	4.3	4.3	4.3
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating for -BS type)		(+powder coati	ng for -BS type)	(+powder coating for -BS type)	
			<munsell 3y="" 7<="" td=""><td>.8/1.1 or similar></td><td><munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td><td><munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td></munsell></td></munsell></td></munsell>	.8/1.1 or similar>	<munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td><td><munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td></munsell></td></munsell>	7.8/1.1 or similar>	<munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td></munsell>	7.8/1.1 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 press	ure sensor,	High press	ure sensor,	High press	ure 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	t protection	Over-current protection		Over-current protection	
Refrigerant	Type x original ch	narge	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	170 (375)	170 (375)	170 (375)	170 (375)
Heat exchanger			Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	Salt-resistant	corrugated fin
			& aluminiur	n alloy tube	& aluminiur	n alloy tube	& aluminiur	n alloy 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	kit: CMY-Y100VBK3
			Joint: CMY-Y1	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,
			CMY-Y2	202S-G2	CMY-Y	202S-G2	CMY-Y	202S-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 a oling conditions (subject to JIS B8615-2)

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

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

Lossnay

YKE-series - Cooling-only High Efficiency type PUCY-EP YSKE (-BS)



Specifications

Model			PUCY-EP550YSKE (-BS)	PUCY-EP600YSKE (-BS)	PUCY-EP650YSKE (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	62.4	68.5	73.5
(Nominal)		BTU/h	212,900	233,700	250,800
	Power input	kW	13.56	15.25	16.51
	Current input	A	22.8-21.7-20.9	25.7-24.4-23.5	27.8-26.4-25.5
	EER	kW/kW	4.60	4.49	4.45
Temp. range of	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	Quantity		1~47	1~50	1~50
Sound power level (measured in anechoic room) dB <a>		dB <a>	82	83.5	83.5
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 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Set Model					

Model		PUCY-EP200YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP300YKE (-BS)	PUCY-EP300YKE (-BS)	PUCY-EP300YKE (-BS)	PUCY-EP350YKE (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m ³ /min	150	320	320	320	320	320
		L/s	2,500	5,333	5,333	5,333	5,333	5,333
		cfm	5,296	11,299	11,299	11,299	11,299	11,299
	Control, Driving mechanism		Inverter-control, Dir	rect-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 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	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	2.9	5.6	4.3	4.3	4.3	5.6
	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 3y="" 7<="" td=""><td>7.8/1.1 or similar></td><td colspan="2"><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td><td><munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td></munsell></td></munsell>	7.8/1.1 or similar>	<munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		<munsell 3y="" 7<="" td=""><td>7.8/1.1 or similar></td></munsell>	7.8/1.1 or similar>
External dimensio	n H x W x D	mm	1,650 x 920 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	High pressure pr	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-currer	nt protection	Over-currer	nt protection	Over-currer	nt protection
Refrigerant	I ype x original cl	harge	R410A x 3.0 kg (7 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	170 (375)	262 (578)	247 (545)	247 (545)	247 (545)	262 (578)
Heat exchanger		Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	Salt-resistant	corrugated fin	
		& aluminiur	m alloy tube	& aluminiur	n alloy tube	& aluminiur	n alloy tube	
Pipe between unit	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed
and distributor	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning K Joint: CMY-Y	kit: CMY-Y100VBK3 102SS/LS-G2,	Joint: CMY-Y	kit: CMY-Y100VBK3 102SS/LS-G2,	Outdoor Twinning kit: CMY-Y100VBK3	
			CMY-Y	202/302S-G2	CMY-Y	202/302S-G2	CMY-Y	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)

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

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

YKE-series

- Cooling-only High Efficiency type PUCY-EP YSKE (-BS)

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Specifications

Model			PUCY-EP700YSKE (-BS)	PUCY-EP750YSKE (-BS)	PUCY-EP800YSKE (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	80.0	84.8	90.9
(Nominal)		BTU/h	273,000	289,300	310,200
	Power input	kW	18.14	18.15	19.89
	Current input	Α	30.6-29.0-28.0	30.6-29.1-28.0	33.5-31.8-30.7
	EER	kW/kW	4.41	4.67	4.57
Temp. range of	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	Quantity		1~50	1~50	1~50
Sound power level (measured in anechoic room)		dB <a>	83	83.5	84
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	Mode

Sectioner										
Model			PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP200YKE (-BS)	PUCY-EP200YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP200YKE (-BS)	PUCY-EP250YKE (-BS)	PUCY-EP350YKE (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m ³ /min	320	320	150	150	320	150	150	320
		L/s	5,333	5,333	2,500	2,500	5,333	2,500	2,500	5,333
		cfm	11,299	11,299	5,296	5,296	11,299	5,296	5,296	11,299
Control, Driving mechanism			Inverter-control, Dir	ect-driven by motor	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		en by motor	
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 2
*2	*2 External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	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		Inverter scroll her	metic compressor	Inverter se	croll hermetic c	ompressor	Inverter so	croll hermetic co	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	2.9	2.9	5.6	2.9	4.3	5.6
	Case heater	kW	-	-	-	-	-	-	-	-
External finish		Pre-coated galva (+powder coati <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) 7.8/1.1 or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""> Pre-coated galvanized (+powder coating for <munsell 1.1<="" 3y="" 7.8="" td=""><td>d galvanized st er coating for -E ELL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td></munsell></munsell></td></munsell>	nized steel sheets ng for -BS type) 7.8/1.1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""> Pre-coated galvanized (+powder coating for <munsell 1.1<="" 3y="" 7.8="" td=""><td>d galvanized st er coating for -E ELL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td></munsell></munsell>			d galvanized st er coating for -E ELL 3Y 7.8/1.1 c	eel sheets 3S type) or similar>		
External dimensio	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,750 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,750 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat Over-currer	protection, nt protection	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
Refrigerant	Type x original cl	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	262 (578)	262 (578)	170 (375)	170 (375)	262 (578)	170 (375)	170 (375)	262 (578)
Heat exchanger			Salt-resistant & aluminiur	corrugated fin n alloy tube	Salt-re & a	esistant corruga	ated fin tube	Salt-re & a	sistant corruga	ated fin tube
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Optional parts		Outdoor Twinning k Joint: CMY-Y CMY-Y Header: CMY-Y	it: CMY-Y200VBK2 102SS/LS-G2, 202/302S-G2 104/108/1010-G	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G				

Notes:

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

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

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

Lossnay

YKE-series

- Cooling-only High Efficiency type PUCY-EP YSKE (-BS)

Specifications

Model			PUCY-EP850YSKE (-BS)			PUCY-EP900YSKE (-BS)			PUCY-EP950YSKE (-BS)		
Power source			3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	rire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz
Cooling capacity	*1	kW		97.0			102.4			107.0	
(Nominal)		BTU/h		331.000			349,400			365,100	
	Power input	kW		21.65			22.55			23.99	
	Current input	Δ		36 5-34 7-33 4			38 0-36 1-34 8			40 4-38 4-37 0)
	FFR	k\W/k\W		4 48		4.54			4 46		
Temp range of Indoor W/B		WB	15.0	~24 0 °C (59~7	5 °F)	15.0	~24.0 °C (59~7	5 °F)	15 0~24 0 °C (59~75 °E)		
cooling	Outdoor	D B	10.0	52 0 °C (50~1	26 °F)	10.0~52.0 °C (50~126 °F)		10.0~	-52 0 °C (50~1)	26 °F)	
Indoor unit	Total capacity	D.D.	50~130%	of outdoor uni	t canacity	50~130%	of outdoor unit	t canacity	50~130%	of outdoor uni	t canacity
connectable			30 130 /	1~50	t capacity	1~50		30 13070	1~50	t capacity	
Sound nower leve				1-50			1-50			1-50	
(measured in aneo	hoic room)	dB <a>		84			84.5			85.5	
Refrigerant piping	Liquid pipe	mm (in.)	1	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braze	ed	19	9.05 (3/4) Braze	ed
diameter	Gas pipe	mm (in.)	41	.28 (1-5/8) Braz	zed	41	.28 (1-5/8) Braz	zed	41	.28 (1-5/8) Braz	zed
Set Model											
Model			PUCY-EP250YKE (-BS)	PUCY-EP250YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP200YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP300YKE (-BS)	PUCY-EP300YKE (-BS)	PUCY-EP350YKE (-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m ³ /min	150	150	320	150	320	320	320	320	320
		L/s	2,500	2,500	5,333	2,500	5,333	5,333	5,333	5,333	5,333
		cfm	5,296	5,296	11,299	5,296	11,299	11,299	11,299	11,299	11,299
	Control, Driving mechanism		Inverter-cor	trol, Direct-driv	en by motor	Inverter-cor	ntrol, Direct-driv	en by motor	Inverter-con	trol, Direct-driv	en by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pro	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)	0 Pa (0 mmH2O)	0 Pa (0 mmH2O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter so	croll hermetic c	ompressor	Inverter se	croll hermetic co	ompressor	Inverter so	croll hermetic c	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	5.6	2.9	5.6	5.6	4.3	4.3	5.6
	Case heater	kW	-	-	-	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsel 1="" 3y="" 7="" 8="" or="" similar=""></munsel>		eel sheets 3S type) or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 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 1,750 x 740	1,650 x 920 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure pro	otection	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	High pressure sensor, High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Ov Ove	er-heat protect	ion, ction	Ov Ove	er-heat protecti er-current protect	on, ction	Ov Ove	er-heat protect	ion, ction
Refrigerant	Type x original ch	narge	R410A x 3.0 kg (7 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 3.0 kg (7 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight	1	ka (lbs)	170 (375)	170 (375)	262 (578)	170 (375)	262 (578)	262 (578)	247 (545)	247 (545)	262 (578)
Heat exchanger			Salt-re	sistant corruga	ted fin	Salt-re	esistant corruga	ited fin	Salt-re	sistant corruga	ated fin
0-		& a	uminium alloy	tube	& a	luminium alloy t	tube	& al	luminium alloy	tube	
Pipe between unit	Liquid pipe	mana (irr.)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
and distributor		nim (in.)	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mm (in)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)
		[mm (m.)	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
Optional parts		Outdoor Tw Joint:	inning kit: CMY CMY-Y102SS/I CMY-Y202/302	7-Y300VBK3 _S-G2, 2S-G2	Outdoor Tw Joint:	CMY-Y102SS/L CMY-Y102SS/L CMY-Y202/302	-Y300VBK3 _S-G2, 2S-G2	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2			
			neader:	GIVIT-T104/108	5/1010-G	neader:	GIVIT-T 104/108	0/10/0-G	neader:	GIVIT-T 104/108	5/1010-G

Notes:

*1	Nominal cooling conditions (subject to JIS B8615-2)
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	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °C D.B./19 °C W.B. (81 °F D.B./66 °F W.B.)	35 °C D.B. (95 °F D.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

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

YKE-series

- Cooling-only High Efficiency type PUCY-EP YSKE (-BS)

Specifications

Model			PUCY-EP1000YSKE (-BS)		PUCY-EP1050YSKE (-BS)		PUCY-EP1100YSKE (-BS)				
Power source			3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	rire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz
Cooling capacity	*1	kW		113.5			120.0			124.0	
(Nominal)		BTU/h		387,300			409,400			423,100	
	Power input	kW		25.56			27.21			28.77	
	Current input	A		43.1-40.9-39.5			45.9-43.6-42.0		48.5-46.1-44.4		
	EER	kW/kW		4.44		4.41			4.31		
Temp. range of	Indoor	W.B.	15.0	~24.0 °C (59~7	5 °F)	15.0	~24.0 °C (59~7	5 °F)	15.0	~24.0 °C (59~7	5 °F)
cooling	Outdoor	D.B.	10.0~	-52.0 °C (50~12	26 °F)	10.0~52.0 °C (50~126 °F)		10.0~	-52.0 °C (50~12	26 °F)	
Indoor unit	Total capacity		50~130%	of outdoor uni	t capacity	50~130%	6 of outdoor uni	t capacity	50~130%	of outdoor uni	t capacity
connectable	Quantity			1~50			1~50			1~50	
Sound power leve (measured in anec	l choic room)	dB <a>		85			85			85	
Refrigerant piping	Liquid pipe	mm (in.)	1	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braze	ed
diameter	Gas pipe	mm (in.)	41	.28 (1-5/8) Braz	zed	41	.28 (1-5/8) Braz	zed	41	.28 (1-5/8) Braz	zed
Set Model											
Model			PUCY-EP300YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP350YKE (-BS)	PUCY-EP400YKE (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	320	320	320	320	320	320	320	320	320
		L/s	5,333	5,333	5,333	5,333	5,333	5,333	5,333	5,333	5,333
	Control, Driving	cfm	Inverter-control, Direct-driven by motor		11,299 Inverter-cor	11,299 htrol, Direct-driv	11,299 en by motor	11,299 Inverter-cor	11,299 htrol, Direct-driv	en by motor	
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter so	croll hermetic c	ompressor	Inverter se	croll hermetic c	ompressor	Inverter so	croll hermetic c	ompressor
·	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.9
	Case heater	kW	-	-	-	-	-	-	-	-	-
External finish			Pre-coate (+powd <munse< td=""><td>d galvanized st er coating for - LL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td><td>Pre-coate (+powd <munse< td=""><td>d galvanized st er coating for -E ELL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type)</td></munse<></td></munse<>	d galvanized st er coating for - LL 3Y 7.8/1.1 c	eel sheets 3S type) or similar>	Pre-coate (+powd <munse< td=""><td>d galvanized st er coating for -E ELL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type)</td></munse<>	d galvanized st er coating for -E ELL 3Y 7.8/1.1 c	eel sheets 3S type) or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type)		
External dimension	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection devices	High pressure pro	otection	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)	Hig High pressure	h pressure sen switch at 4.15	sor, MPa (601 psi)
	Inverter circuit (COMP./FAN)		Ov Ove	er-heat protect	ion, ction	Ov Ove	er-heat protecti er-current protection	on, ction	Ov Ove	er-heat protect	ion, ction
Refrigerant	Type x original ch	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	247 (545)	262 (578)	262 (578)	262 (578)	262 (578)	262 (578)	262 (578)	262 (578)	260 (574)
Heat exchanger		Salt-re & a	esistant corruga	ted fin tube	Salt-re & a	esistant corruga luminium alloy f	ited fin tube	Salt-re & a	esistant corruga	ted fin tube	
Pipe between unit	Liquid pipe	mm (in)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
and distributor			Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts		Outdoor Tw Joint: Header:	inning kit: CMY CMY-Y102SS/I CMY-Y202/302 CMY-Y104/108	′-Y300VBK3 _S-G2, 2S-G2 3/1010-G	Outdoor Tw Joint: Header:	rinning kit: CMY CMY-Y102SS/I CMY-Y202/302 CMY-Y104/108	-Y300VBK3 _S-G2, !S-G2 3/1010-G	Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102S5/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

1	Nominal	cooling	conditions	(subject	to	JIS	B861	5-2)

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

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

Lossnay

YKE-series - Cooling-only High Efficiency type PUCY-EP YSKE (-BS)



Specifications

Model			Pl	JCY-EP1150YSKE (-B	S)	P	UCY-EP1200YSKE (-E	S)	
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		128.0			132.0		
(Nominal)		BTU/h		436,700			450,400		
	Power input	kW		30.33			31.96		
	Current input	A		51.2-48.6-46.8			53.9-51.2-49.4		
	EER	kW/kW		4.22			4.13		
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	F)		15.0~24.0 °C (59~75 °F	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	50~130% of outdoor unit capacity			
connectable	Quantity			1~50		1~50			
Sound power level dB <a< td=""><td>dB <a></td><td></td><td>85</td><td></td><td></td><td>85</td><td></td></a<>		dB <a>		85			85		
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		
	ouo pipe	[41.20 (1 0/0) Did200			41.20 (1 0/0) Blu200		
Set Model									
Model			PUCY-EP350YKE (-BS)	PUCY-EP400YKE (-BS)	PUCY-EP400YKE (-BS)	PUCY-EP400YKE (-BS)	PUCY-EP400YKE (-BS)	PUCY-EP400YKE (-BS)	
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	320	320	320	320	320	320	
		L/s	5,333	5,333	5,333	5,333	5,333	5,333	
		cfm	11,299	11,299	11,299	11,299	11,299	11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter	-control, Direct-driven I	by motor	
	Motor output kW		0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	
*2	External static press		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor				
·	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.6	6.9	6.9	6.9	6.9	6.9	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-cc (+pc <mun< td=""><td>bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td><td colspan="4">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></mun<>	bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>			
External dimension	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection	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 (COMP./FAN)		Over-heat	protection, Over-curren	nt protection	Over-heat	protection, Over-currer	t protection	
Refrigerant	Type x original cl	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	262 (578)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	
Heat exchanger			Salt-resistant	corrugated fin & alumir	nium alloy tube	Salt-resistant	corrugated fin & alumir	nium alloy 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	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	Outdoor Twinning kit: CMY-Y300/BK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

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

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

YKE-series - Cooling-only High Efficiency type PUCY-EP YSKE (-BS)

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Specifications

Model			PL	JCY-EP1250YSKE (-B	S)	Pl	JCY-EP1300YSKE (-B	S)
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		136.0		140.0		
(Nominal)		BTU/h		464,000		477,700		
	Power input	kW	32.92		34.73			
	Current input	A		55.5-52.7-50.8			58.6-55.6-53.6	
	EER	kW/kW	4.13				4.03	
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	F)	1	5.0~24.0 °C (59~75 °F	F)
cooling	Outdoor	D.B.	1(0.0~52.0 °C (50~126 °l	F)	1	0.0~52.0 °C (50~126 °l	F)
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Quantity			2~50			2~50	
Sound power leve (measured in ane	l choic room)	dB <a>		85			85.5	
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-EP400YKE (-BS)	PUCY-EP400YKE (-BS)	PUCY-EP450YKE (-BS)	PUCY-EP400YKE (-BS)	PUCY-EP450YKE (-BS)	PUCY-EP450YKE (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m ³ /min	320	320	320	320	320	320
		L/s	5,333	5,333	5,333	5,333	5,333	5,333
		cfm	11,299	11,299	11,299	11,299	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter	-control, Direct-driven b	by motor
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	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	8.0	6.9	8.0	8.0
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-co (+po <mun< td=""><td>bated galvanized steel bowder coating for -BS to NSELL 3Y 7.8/1.1 or sin</td><td>sheets ype) milar></td><td>Pre-cc (+pc <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or sin</td><td>sheets ype) milar></td></mun<></td></mun<>	bated galvanized steel bowder coating for -BS to NSELL 3Y 7.8/1.1 or sin	sheets ype) milar>	Pre-cc (+pc <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or sin</td><td>sheets ype) milar></td></mun<>	bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or sin	sheets ype) milar>
External dimensio	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	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 (COMP./FAN)		Over-heat p	protection, Over-curren	nt protection	Over-heat protection, Over-current prote		t protection
Refrigerant	Type x original cl	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)
Heat exchanger			Salt-resistant	corrugated fin & alumin	nium alloy tube	Salt-resistant	corrugated fin & alumir	ium alloy 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 Joint: CMY-Y Head	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 110-G	Outdoor Joint: CMY-Y Head	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G

Notes:

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

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

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

Lossnay

YKE-series - Cooling-only High Efficiency type PUCY-EP YSKE (-BS)



Specifications

Model	odel		PUCY-EP1350YSKE (-BS)			P	UCY-EP1400YSKE (-E	S)
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)		BTU/h		491,300		518,600		
	Power input	kW		36.09			39.07	
	Current input	A		60.9-57.8-55.7			65.9-62.6-60.3	
	EER	kW/kW		3.99		3.89		
Temp, range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	F)		15.0~24.0 °C (59~75 °F	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	Quantity			2~50			2~50	
Sound power level	hoic room)	dB <a>		85.5			86	
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	
Sot Model	1	1	I			l		
Model			PUCY-EP450YKE (-BS)	PUCY-EP450YKE (-BS)	PUCY-EP450YKE (-BS)	PUCY-EP450YKE (-BS)	PUCY-EP450YKE (-BS)	PUCY-EP500YKE (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m ³ /min	320	320	320	320	320	320
		L/s	5.333	5.333	5.333	5.333	5.333	5.333
		cfm	11,299	11,299	11,299	11,299	11,299	11,299
	Control, Driving		Inverter-control, Direct-driven by motor		Inverter	control, Direct-driven by motor 0.92 x 2 0.92 x 2		
	Motor output kW		0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic com	ressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.0	8.0	8.0	8.0	8.0	10.6
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-cc (+pc <mun< td=""><td>bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td><td>Pre-co (+pi <mui< td=""><td>bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mui<></td></mun<>	bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	Pre-co (+pi <mui< td=""><td>bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mui<>	bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>
External dimension	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
	-	in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	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 (COMP./FAN)		Over-heat	protection, Over-curren	t protection	Over-heat	protection, Over-currer	t protection
Refrigerant	Type x original cl	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)
Heat exchanger			Salt-resistant	corrugated fin & alumir	nium alloy tube	Salt-resistant	corrugated fin & alumir	nium alloy 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 Joint: CMY-Y Head	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G	Outdoor Joint: CMY-Y Hear	r Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G

Notes:

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

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

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

YKE-series - Cooling-only High Efficiency type PUCY-EP YSKE (-BS)

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Specifications

Model			PUCY-EP1450YSKE (-BS)			PI	JCY-EP1500YSKE (-B	S)
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)		BTU/h		545,900		573,200		
	Power input	kW		42.10		45.40		
	Current input	A		71.0-67.5-65.0			76.6-72.8-70.1	
	EER	kW/kW		3.80			3.70	
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	F)	1	5.0~24.0 °C (59~75 °F	F)
cooling	Outdoor	D.B.	1(0.0~52.0 °C (50~126 °l	F)	1	0.0~52.0 °C (50~126 °l	F)
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~1	30% of outdoor unit ca	pacity
connectable	Quantity			2~50			2~50	
Sound power leve		dB <a>		87			87.5	
Defrigerant 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	
diameter	Gas pipe	[11111 (111.)		41.20 (1-5/6) blazed			41.20 (1-5/6) biazeu	
Set Model								
Model			PUCY-EP450YKE (-BS)	PUCY-EP500YKE (-BS)	PUCY-EP500YKE (-BS)	PUCY-EP500YKE (-BS)	PUCY-EP500YKE (-BS)	PUCY-EP500YKE (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	320	320	320	320	320	320
		L/s	5,333	5,333	5,333	5,333	5,333	5,333
		cfm	11,299	11,299	11,299	11,299	11,299	11,299
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter	-control, Direct-driven b	by motor	
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2
*2	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	ressor
·	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.0	10.6	10.6	10.6	10.6	10.6
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-cc (+pc <mun< td=""><td>bated galvanized steel owder coating for -BS to NSELL 3Y 7.8/1.1 or sin</td><td>sheets ype) milar></td><td>Pre-cc (+pc <mui< td=""><td>bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or sin</td><td>sheets ype) milar></td></mui<></td></mun<>	bated galvanized steel owder coating for -BS to NSELL 3Y 7.8/1.1 or sin	sheets ype) milar>	Pre-cc (+pc <mui< td=""><td>bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or sin</td><td>sheets ype) milar></td></mui<>	bated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or sin	sheets ype) milar>
External dimensio	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	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 (COMP./FAN)		Over-heat p	protection, Over-curren	t protection	n Over-heat protection, Over-curre		t protection
Refrigerant	Type x original cl	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)	260 (574)
Heat exchanger			Salt-resistant of	corrugated fin & alumin	nium alloy tube	Salt-resistant	corrugated fin & alumir	ium alloy 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 Joint: CMY-Y Head	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	Twinning kit: CMY-Y3 102SS/LS-G2, CMY-Y der: CMY-Y104/108/10	00VBK3 202/302S-G2 10-G

Notes:

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

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

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

Lossnay

YKD-series PUHY-P YKD (-BS)



Specifications

Model		PUHY-P200YKD (-BS)	PUHY-P250YKD (-BS)	PUHY-P300YKD (-BS)	PUHY-P350YKD (-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)		BTU/h	76,400	95,500	114,300	136,500
	Power input	kW	4.48	5.88	7.59	9.66
	Current input	A	7.5-7.1-6.9	9.9-9.4-9.0	12.8-12.1-11.7	16.3-15.4-14.9
	EER	kW/kW	5.00	4.76	4.41	4.14
Temp. range of	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			
cooling Outdoor D.B		D.B.	-5.0~52.0 °C (23~126 °F)			
Heating capacity	*2	kW	22.4	28.0	33.5	40.0
(Nominal)		BTU/h	76.400	95.500	114.300	136.500
· · · ·	Power input	kW	5.05	6.33	8.11	9.61
	Current input	A	8.5-8.0-7.8	10 6-10 1-9 7	13 6-13 0-12 5	16 2-15 4-14 8
	COP	kW/kW	4 43	4 42	4 13	4 16
Temp_range_of	Indoor	DB	15.0~27.0 °C (59~81 °E)	15.0~27.0 °C (59~81 °E)	15.0~27.0 °C (59~81 °E)	15.0~27.0 °C (59~81 °F)
heating	Outdoor	W B	-20.0~15.5 °C (-4~60 °E)			
Indoor unit	Total canacity	W.D.	50~130% of outdoor unit			
connectable	rotal capacity		capacity	capacity	capacity	capacity
conneotable	Model/Quantity		P15~P250/1~17	P15~P250/1~21	P15~P300/1~26	P15~P300/1~30
Sound pressure le (measured in ane	vel choic room)	dB <a>	57	58	61	61
Refrigerant piping Liquid pipe mm		mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
Fan	Type x Quantity		Propeller fan x 1			
	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		Inverter-control.	Inverter-control.	Inverter-control.	Inverter-control.
	mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	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 pro	ess.	0 Pa (0 mmH ₂ O)			
Compressor	Туре		Inverter scroll hermetic	Inverter scroll hermetic	Inverter scroll hermetic	Inverter scroll hermetic
·			compressor	compressor	compressor	compressor
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	6.9	8.1	10.4
	Case heater	kW	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>
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 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 pro	otection	High pressure sensor,	High pressure sensor,	High pressure sensor,	High pressure sensor,
devices			High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
Refrigerant	Type x original 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)	191 (422)	191 (422)	204 (450)	243 (536)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

Y-series PUCY/PUHY

OUTDOOR UNIT

YKD-series PUHY-P YKD (-BS)





Specifications

Model			PUHY-P400YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P500YKD (-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)		BTU/h	153,500	163,800	187,700	
	Power input	kW	12.71	14.32	16.22	
	Current input	A	21.4-20.3-19.6	24.1-22.9-22.1	27.3-26.0-25.0	
EER kW/kV		kW/kW	3.54	3.35	3.39	
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.	-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 kl		kW	45.0	48.0	55.0	
(Nominal)		BTU/h	153,500	163,800	187,700	
	Power input	kW	10.92	13.33	15.71	
	Current input	A	18.4-17.5-16.8	22.5-21.3-20.6	26.5-25.1-24.2	
	COP	kW/kW	4.12	3.60	3.50	
Temp. range of	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)	
heating Outdoor W.B.		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~P400/1~34	P15~P400/1~39	P15~P500/1~43	
Sound pressure level (measured in anechoic room) dB <a>		dB <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	210	210	360	
		L/s	3,500	3,500	6,000	
		cfm	7,415	7,415	12,712	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 2	
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ 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	13.3	
	Case heater	kW	_	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	
External dimension	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection devices	High pressure 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)	
	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)	241 (532)	241 (532)	285 (629)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

YKD-series PUHY-P YSKD (-BS)



Specifications

Model Power source			PUHY-P550YSKD (-BS)	PUHY-P550YSKD (-BS) PUHY-P600YSKD (-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 kV		kW	63.0	68.0	73.0
(Nominal)		BTU/h	215,000	232,000	249,100
	Power input	kW	14.25	15.34	17.80
	Current input	A	24.0-22.8-22.0	25.8-24.6-23.7	30.0-28.5-27.5
	EER	kW/kW	4.42	4.43	4.10
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.	-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	63.0	68.0	73.0
(Nominal)	BTU/h		215,000	232,000	249,100
	Power input	kW	15.51	16.70	18.02
	Current input	A	26.1-24.8-23.9	28.1-26.7-25.8	30.4-28.8-27.8
	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 °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 outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/Quantity		P15~P500/1~47	P15~P600/1~50	P15~P600/1~50
Sound pressure le (measured in ane	evel choic room)	dB <a>	63	63	64.5
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 (1-1/8) Brazed	28.58 (1-1/8) Brazed

Set Model

Model		PUHY-P250YKD (-BS)	PUHY-P300YKD (-BS)	PUHY-P250YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P250YKD (-BS)	PUHY-P400YKD (-BS)		
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m ³ /min	175	185	175	210	175	210	
		L/s	2,917	3,083	2,917	3,500	2,917	3,500	
		cfm	6,179	6,532	6,179	7,415	6,179	7,415	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Dir	ect-driven by motor	Inverter-control, Dir	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ 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	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 coatin <munsell 3y="" 7<="" td=""><td colspan="2">(+powder coating for -BS type) (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""> <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></munsell></td><td>(+powder coati <munsell 3y="" 7<="" td=""><td>ng for -BS type) '.8/1.1 or similar></td></munsell></td></munsell>	(+powder coating for -BS type) (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""> <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></munsell>		(+powder coati <munsell 3y="" 7<="" td=""><td>ng for -BS type) '.8/1.1 or similar></td></munsell>	ng for -BS type) '.8/1.1 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 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	High pressure pre	otection	High press	ure sensor,	High press	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-currer	nt protection	Over-currer	nt protection	Over-currer	nt protection	
Refrigerant	Type x original cl	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)	R410A x 8.0 kg (18 lbs)	R410A x 11.5 kg (26 lbs)	
Net weight		kg (lbs)	191 (422)	204 (450)	191 (422)	243 (536)	191 (422)	241 (532)	
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	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	it: CMY-Y100VBK3	Outdoor Twinning R	Outdoor Twinning kit: CMY-Y100VBK3		Outdoor Twinning kit: CMY-Y100VBK3	
			Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y102SS/LS-G2,		
			CMY-Y2	202S/302S-G2	CMY-Y	202S/302S-G2	CMY-Y202S/302S-G2		
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series PUHY-P YSKD (-BS)



Specifications

Model			PUHY-P700YSKD (-BS) PUHY-P750YSKD (-BS)		PUHY-P800YSKD (-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	76.0	81.5	90.0	
(Nominal)		BTU/h	259,300	278,100	307,100	
	Power input	kW	19.24	21.39	25.56	
	Current input	A	32.4-30.8-29.7	36.1-34.3-33.0	43.1-40.9-39.5	
	EER	kW/kW	3.95	3.81	3.52	
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.	-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		76.0	81.5	90.0	
(Nominal)		BTU/h	259,300	278,100	307,100	
	Power input	kW	20.00	22.20	23.01	
	Current input	A	33.7-32.0-30.9	37.4-35.6-34.3	38.8-36.9-35.5	
	COP	kW/kW	3.80	3.67	3.91	
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)	
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 outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
connectable	Model/Quantity		P15~P600/1~50	P15~P600/1~50	P15~P600/1~50	
Sound pressure le (measured in anec	vel choic room)	dB <a>	64.5	65.5	66	
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		PUHY-P250YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P300YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P400YKD (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	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 mechanism		Inverter-control, Direct-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
*3	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)
Compressor Type			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 galva	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		(+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		(+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>	
External dimension	n H x W x D	mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection	High pressure pre	otection	High press	ure sensor,	High pressure sensor.		High pressure sensor.	
devices	J		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-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)	191 (422)	241 (532)	204 (450)	241 (532)	241 (532)	241 (532)
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	it: CMY-Y200VBK2	Outdoor Twinning k	kit: CMY-Y200VBK2
			Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,
			CMY-Y2	202S/302S-G2	CMY-Y2	202S/302S-G2	CMY-Y202S/302S-G2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	Header: CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series PUHY-P YSKD (-BS)



Specifications

Model			PUHY-P850YSKD (-BS)	PUHY-P900YSKD (-BS)	PUHY-P950YSKD (-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	93.0	96.0	103.0
(Nominal)		BTU/h	317,300	327,600	351,400
	Power input	kW	27.27	29.00	31.30
	Current input	A	46.0-43.7-42.1	48.9-46.5-44.8	52.8-50.1-48.3
	EER	kW/kW	3.41	3.31	3.29
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.	-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	93.0	96.0	103.0
(Nominal)	BTU/h		317,300	327,600	351,400
	Power input	kW	25.40	28.07	30.56
	Current input	A	42.8-40.7-39.2	47.3-45.0-43.3	51.5-49.0-47.2
	COP	kW/kW	3.66	3.42	3.37
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)
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 outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/Quantity		P15~P600/1~50	P15~P600/1~50	P15~P600/1~50
Sound pressure le (measured in ane	evel choic room)	dB <a>	66	66	67.5
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.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed

Set Model

Model		PUHY-P400YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P500YKD (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1 Propeller fan x 1 Propeller fan x 1 Propeller fan x 1		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Air flow rate	m³/min	210	210	210	210	210	360
		L/s	3,500	3,500	3,500	3,500	3,500	6,000
		cfm	7,415	7,415	7,415	7,415	7,415	12,712
	Control, Driving mechanism		Inverter-control, 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 2
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	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	10.8	12.4	12.4	12.4	12.4	13.3
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvar	nized steel sheets	Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets
			(+powder coatin <munsell 3y="" 7<="" td=""><td colspan="2">+powder coating for -BS type) (+powder coatin /UNSELL 3Y 7.8/1.1 or similar> MUNSELL 3Y 7.8/1.1</td><td>ng for -BS type) 7.8/1.1 or similar></td><td>(+powder coati <munsell 3y="" 7<="" td=""><td>ng for -BS type) '.8/1.1 or similar></td></munsell></td></munsell>	+powder coating for -BS type) (+powder coatin /UNSELL 3Y 7.8/1.1 or similar> MUNSELL 3Y 7.8/1.1		ng for -BS type) 7.8/1.1 or similar>	(+powder coati <munsell 3y="" 7<="" td=""><td>ng for -BS type) '.8/1.1 or similar></td></munsell>	ng for -BS type) '.8/1.1 or similar>
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	High pressure pre	otection	High press	ure 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-currer	t protection	Over-currer	nt protection	Over-currer	nt 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)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	241 (532)	241 (532)	241 (532)	241 (532)	241 (532)	285 (629)
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.)	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 k	it: CMY-Y200VBK2	Outdoor Twinning k	tit: CMY-Y200VBK2	Outdoor Twinning kit: CMY-Y200VBK2	
			Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,
			CMY-Y2	202S/302S-G2	CMY-Y2	202S/302S-G2	CMY-Y202S/302S-G2	
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y104/108/1010-G		Header: CMY-Y104/108/1010-G	

Notes:

*1,*2 Nominal conditions

1		Indoor	Outdoor	Pipe length	Level difference	
	Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
	Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series Arm PUHY-P YSKD (-BS)

Specifications

Model Power source			PUHY-P1000YSKD (-BS)	PUHY-P1050YSKD (-BS)	PUHY-P1100YSKD (-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	kW 110.0 115.0		121.5	
(Nominal)		BTU/h	375,300	392,400	414,600	
	Power input	kW	33.63	29.26	30.83	
	Current input	A	56.7-53.9-51.9	49.3-46.9-45.2	52.0-49.4-47.6	
	EER	kW/kW	3.27	3.93	3.94	
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.	-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	110.0	115.0	121.5	
(Nominal)	BTU/r		375,300	392,400	414,600	
	Power input	kW	33.13	31.50	33.80	
	Current input	A	55.9-53.1-51.2	53.1-50.5-48.6	57.0-54.2-52.2	
	COP	kW/kW	3.32	3.65	3.59	
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)	
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 outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
connectable	Model/Quantity		P15~P600/1~50	P15~P600/1~50	P15~P600/1~50	
Sound pressure le (measured in ane	evel choic room)	dB <a>	68	66.5	66.5	
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.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	

Set Model

Model			PUHY-P500YKD (-BS)	PUHY-P500YKD (-BS)	PUHY-P300YKD (-BS)	PUHY-P300YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P300YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P450YKD (-BS)
Fan	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m³/min	360	360	185	185	210	185	210	210
		L/s	6,000	6,000	3,083	3,083	3,500	3,083	3,500	3,500
		cfm	12,712	12,712	6,532	6,532	7,415	6,532	7,415	7,415
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-cor	Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 2	0.92 x 2	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Туре		Inverter scroll her	metic compressor	Inverter s	croll hermetic co	ompressor	Inverter so	croll hermetic c	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	13.3	13.3	8.1	8.1	12.4	8.1	10.4	12.4
	Case heater	kW	-	-	-	-	-	-	-	-
External finish			Pre-coated galvar (+powder coatin <munsell 3y="" 7<="" td=""><td colspan="2">re-coated galvanized steel sheets (+powder coating for -BS type) MUNSELL 3Y 7.8/1.1 or similar> Pre-coated galvanized steel sheets (+powder coating for -BS type) (MUNSELL 3Y 7.8/1.1 or similar></td><td>Pre-coate (+powd <munse< td=""><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></munse<></td></munsell>	re-coated galvanized steel sheets (+powder coating for -BS type) MUNSELL 3Y 7.8/1.1 or similar> Pre-coated galvanized steel sheets (+powder coating for -BS type) (MUNSELL 3Y 7.8/1.1 or similar>		Pre-coate (+powd <munse< td=""><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></munse<>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>			
External dimension	n H x W x D	mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740
		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16
Protection devices	High pressure 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)			
	Inverter circuit (COMP./FAN)		Over-heat Over-currer	protection, nt protection	Ov Ove	er-heat protecti er-current protection	ion, ction	Ov Ove	er-heat protect	ion, ction
Refrigerant	Type x original ch	narge	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 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)	R410A x 11.5 kg (26 lbs)
Net weight		kg (lbs)	285 (629)	285 (629)	204 (450)	204 (450)	241 (532)	204 (450)	243 (536)	241 (532)
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resista	ant cross fin & c	copper tube	Salt-resista	ant cross fin & c	opper tube
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts		Outdoor Twinning k Joint: CMY-Y CMY-Y2 Header: CMY-Y	it: CMY-Y200VBK2 102SS/LS-G2, 202S/302S-G2 104/108/1010-G	Outdoor Tw Joint: Header:	inning kit: CMY CMY-Y102SS/L CMY-Y202S/30 CMY-Y104/108	-Y300VBK3 LS-G2, 02S-G2 8/1010-G	Outdoor Tw Joint: Header:	inning kit: CMY CMY-Y102SS/I CMY-Y202S/30 CMY-Y104/108	-Y300VBK3 _S-G2, 02S-G2 8/1010-G	

Notes:

*1,*2 Nominal conditions

1		Indoor	Outdoor	Pipe length	Level difference	
	Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
	Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series PUHY-P YSKD (-BS)



Specifications

Model			PUHY-P1150YSKD (-BS)			PUHY-P1200YSKD (-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)		BTU/h	^{/h} 443 600			460.600			
	Power input	kW	34.12				38.35		
	Current input	A		57 5-54 7-52 7			64 7-61 5-59 2		
	FER	k\\//k\\/		3.81			2.52		
Temp_range_of	Indoor	WB	1	5 0~24 0 °C (59~75 °E	-)	1	5 0~24 0 °C (59~75 °F	:)	
cooling	Outdoor	DB	F	5.0~52 0 °C (23~126 °E) E)	-5.0~52.0 °C (23~126 °E)			
Heating canacity	*2	kW	~	130.0		135.0			
(Nominal)	2	BTII/b		443 600		460.600			
(Normal)	Dowor input			35 51			37 70		
	Current input	Λ		50.0.56.0.54.8			63 6 60 4 58 2		
				3.66			3.59		
Tamp range of	Lodeer		4	3.00 5.0. 07.0.°C (50. 04.°F	-\	4	J.JO	-1	
heating	Outrian	D.B.		5.0~27.0 C (59~61 F	-)		$5.0 \sim 27.0$ C (59 ~ 61 F	-)	
Inedurity	Outdoor Tatal same site	W.B.		20.0~15.5 C (-4~60 F	-) 		20.0~15.5 C (-4~60 r	·)	
	Total capacity		50~1.		pacity	50~1.		pacity	
	INIODEI/Quantity			P15~P000/1~50			P15~P600/1~50		
Sound pressure le	vel	dB <a>		67.5			68		
Defrigerant 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		
	Gas pipe	[111111 (III.)		41.20 (1=5/0) Diazeu		41.26 (1-5/6) Blazed			
Set Model									
Model			PUHY-P350YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P400YKD (-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		Inverter-control, Direct-driven by motor		Inverter	control, Direct-driven I	ov motor		
	mechanism				0.00 1		, 0.00 (
*0	Motor output	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	
^3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverte	er scroll hermetic comp	pressor	Inverte	r 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	KVV	-	-	-	-	-	-	
External finish			Pre-co	ated galvanized steel	sneets	Pre-co	ated galvanized steel	sneets	
			(+pc	Weer coating for -BS t	ype) milor>	(+pc	Weer coating for -BS t	ype)	
External dimension		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 20 3/16	65 x 48 1/16 x 20 3/16	65 x 48 1/16 x 20 3/16	65 x 48 1/16 x 20 3/16	65 x /8 1/16 x 20 3/16	65 x 48 1/16 x 20 3/16	
Drotoction	High procesure pr	tootion	03 X 40-1/10 X 23-3/10	High prossure consor	03 x 40-1/10 x 23-3/10	03 x 40-1/10 x 23-3/10	High pressure consor	03 X 40-1/10 X 29-3/10	
devices	i ligit pressure pr	JIECIION	High press	sure switch at 4 15 MP	a (601 psi)	High press	ure switch at 4 15 MP	a (601 psi)	
001000	Inverter circuit		r iigii piooo	Over-heat protection.	u (001 p0.)	riigii piece	Over-heat protection.		
	(COMP./FAN)			Over-current protection	ı		Over-current protection	1	
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)		243 (536)	241 (532)	241 (532)	241 (532)	241 (532)	241 (532)		
Heat exchanger		Salt-res	sistant cross fin & copp	ber tube	Salt-res	istant 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	1.1.1.1.1.1.1.1.1	()	Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoor	Twinning kit: CMY-Y3	00VBK3	
· · · · · · · · · · · · · · · · · · ·			Joi	int: CMY-Y102SS/LS-C	G2,	Joi	nt: CMY-Y102SS/LS-0	G2,	
				CMY-Y202S/302S-	-G2		CMY-Y202S/302S-	G2	
			Head	ler: CMY-Y104/108/10	10-G	Head	ler: CMY-Y104/108/10	10-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series PUHY-P YSKD (-BS)



Specifications

Model			PUHY-P1250YSKD (-BS)			PUHY-P1300YSKD (-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)		BTU/h		470,900		481,100			
	Power input	kW	40.00			41.83			
	Current input	A	67.5-64.1-61.8				70.6-67.0-64.6		
	EER	kW/kW		3.45			3.37		
Temp. range of	of Indoor W.B.		1	5.0~24.0 °C (59~75 °F	-)	1	5.0~24.0 °C (59~75 °F	·)	
cooling	Outdoor	D.B.	-{	5.0~52.0 °C (23~126 °I	=)	-{	5.0~52.0 °C (23~126 °I	F)	
Heating capacity	*2	kW		138.0			141.0		
(Nominal)	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.	1	5.0~27.0 °C (59~81 °F	-)	1	5.0~27.0 °C (59~81 °F	5)	
heating	Outdoor	W.B.	-1	20.0~15.5 °C (-4~60 °F	F)	-1	20.0~15.5 °C (-4~60 °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~P600/2~50				P15~P600/2~50		
(measured in anechoic room) dB <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			PUHY-P400YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P400YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m ³ /min	210	210	210	210	210	210	
		L/s	3,500	3,500	3,500	3,500	3,500	3,500	
		cfm	7,415	7,415	7,415	7,415	7,415	7,415	
	Control, Driving mechanism		Inverter	-control, Direct-driven	by motor	Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
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	10.8	10.8	12.4	10.8	12.4	12.4	
	Case heater	kW	-	-	-	-	-	-	
External finish		Pre-cc (+pc <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td><td>Pre-cc (+pc <mun< td=""><td>oated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) nilar></td></mun<></td></mun<>	bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	Pre-cc (+pc <mun< td=""><td>oated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) nilar></td></mun<>	oated galvanized steel owder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) nilar>		
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection devices	High pressure pro	otection	High press	High pressure sensor, sure switch at 4.15 MP	a (601 psi)	High press	High pressure sensor, sure switch at 4.15 MP	a (601 psi)	
	Inverter circuit			Over-heat protection,			Over-heat protection,		

inventor circuit		over near protection,			over neur proteotion,			
(COMP./FAN)		(Over-current protection			Over-current protection		
Type x original charge		R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	R410A x 11.5 kg (26 lbs)	
	kg (lbs)	241 (532)	241 (532)	241 (532)	241 (532)	241 (532)	241 (532)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
		Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoor Twinning kit: CMY-Y300VBK3			
		Joint: CMY-Y102SS/LS-G2,			Joi	nt: CMY-Y102SS/LS-C	<u>32,</u>	
		CMY-Y202S/302S-G2			CMY-Y202S/302S-G2			
		Head	ler: CMY-Y104/108/10	10-G	Header: CMY-Y104/108/1010-G			
	COMP./FAN) Type x original ch Liquid pipe Gas pipe	COMP./FAN) Type x original charge kg (lbs) Liquid pipe mm (in.) Gas pipe mm (in.)	Inverse ordination COMP./FAN) Type x original charge R410A x 11.5 kg (26 lbs) kg (lbs) 241 (532) Salt-rest Liquid pipe mm (in.) 15.88 (5/8) Brazed Gas pipe mm (in.) 26.58 (1-1/8) Brazed Outdoor Joint Head	Liquid pipe mm (in.) 15.88 (5/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed Liquid pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 15.88 (5/8) Brazed 15.88 (5/8) Brazed <td< td=""><td>Involution Control for four protection Type x original charge R410A x 11.5 kg (26 lbs) R410A x 11.5 kg (26 lbs) R410A x 11.5 kg (26 lbs) kg (lbs) 241 (532) 241 (532) 241 (532) Liquid pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 CMY-Y104/108/1010-G</td><td>Interference Ref 100 km procession Ref 100 km procesion Ref 100 km procesion Ref 10</td><td>Interference Content neurophysical structure Over-current protection Over-current protection Type x original charge R410A x 11.5 kg (26 lbs) <</td></td<>	Involution Control for four protection Type x original charge R410A x 11.5 kg (26 lbs) R410A x 11.5 kg (26 lbs) R410A x 11.5 kg (26 lbs) kg (lbs) 241 (532) 241 (532) 241 (532) Liquid pipe mm (in.) 15.88 (5/8) Brazed 15.88 (5/8) Brazed Liquid pipe mm (in.) 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 CMY-Y104/108/1010-G	Interference Ref 100 km procession Ref 100 km procesion Ref 100 km procesion Ref 10	Interference Content neurophysical structure Over-current protection Over-current protection Type x original charge R410A x 11.5 kg (26 lbs) <	

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

YKD-series PUHY-P YSKD (-BS)

Ater -Anw Am Ares

Specifications

Model			PUHY-P1350YSKD (-BS)	PUHY-P1400YSKD (-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	151.0
(Nominal)		BTU/h	491,300	515,200
	Power input	kW	43.63	45.89
	Current input	A	73.6-69.9-67.4	77.4-73.5-70.9
	EER	kW/kW	3.30	3.29
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)		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		50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/Quantity		P15~P600/2~50	P15~P600/2~50
Sound pressure le (measured in ane	vel choic room)	dB <a>	68	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-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P450YKD (-BS)	PUHY-P500YKD (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	210	210	210	210	210	360	
		L/s	3,500	3,500	3,500	3,500	3,500	6,000	
		cfm	7,415	7,415	7,415	7,415	7,415	12,712	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter	Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH ₂ 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	12.4	12.4	12.4	12.4	12.4	13.3	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>			Pre-co (+po <mun< td=""><td colspan="3">Pre-coated gaivanized steel sneets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></mun<>	Pre-coated gaivanized steel sneets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		
External dimension	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	
Protection devices	High pressure pro	otection	High press	High pressure sensor, sure switch at 4.15 MP	a (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Refrigerant	Type x original 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)	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	
Net weight		kg (lbs)	241 (532)	241 (532)	241 (532)	241 (532)	241 (532)	285 (629)	
Heat exchanger	-		Salt-res	sistant cross fin & copp	er tube	Salt-res	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-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010.G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102S5/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series Arre PUHY-P YSKD (-BS)

Specifications

Model			Р	UHY-P1450YSKD (-B	S)	PUHY-P1500YSKD (-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)		BTU/h		539,100		563,000			
	Power input	kW		48.17		50.45			
	Current input	A		81.3-77.2-74.4		85.1-80.9-77.9			
	EER	kW/kW		3.28		3.27			
Temp. range of	Indoor	W.B.	1	5.0~24.0 °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)		BTU/h		539,100			563,000		
	Power input	kW		52.49			56.12		
	Current input	A		88.6-84.1-81.1			94.7-90.0-86.7		
	COP	kW/kW		3.01			2.94		
Temp. range of	Indoor	D.B.	1	15.0~27.0 °C (59~81 °F)			5.0~27.0 °C (59~81 °F	F)	
heating	Outdoor	W.B.	-1	-20.0~15.5 °C (-4~60 °F)			20.0~15.5 °C (-4~60 °I	=)	
Indoor unit	Total capacity		50~1	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
connectable	Model/Quantity			P15~P600/2~50			P15~P600/2~50		
Sound pressure level (measured in anechoic room) dB <a>			69.5		70				
Refrigerant piping	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-P450YKD (-BS)	PUHY-P500YKD (-BS)	PUHY-P500YKD (-BS)	PUHY-P500YKD (-BS)	PUHY-P500YKD (-BS)	PUHY-P500YKD (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	210	360	360	360	360	360	
		L/s	3,500	6,000	6,000	6,000	6,000	6,000	
		cfm	7,415	12,712	12,712	12,712	12,712	12,712	
	Control, Driving mechanism		Inverter	-control, Direct-driven b	by motor	Inverter	-control, Direct-driven	by motor	
	Motor output	kW	0.92 x 1	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	0.92 x 2	
*3	External static pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Туре		Inverte	er scroll hermetic comp	ressor	Inverte	er scroll hermetic comp	pressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	12.4	13.3	13.3	13.3	13.3	13.3	
	Case heater	kW	-	-	-	-	-	-	
External finish		Pre-co (+po <mun< td=""><td>bated galvanized steel bowder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td><td>Pre-co (+po <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mun<></td></mun<>	bated galvanized steel bowder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>	Pre-co (+po <mun< td=""><td>bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mun<>	bated galvanized steel bwder coating for -BS t NSELL 3Y 7.8/1.1 or si	sheets ype) milar>		
External dimensio	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	

External dimension H x W x D mm		1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
Protection	High pressure pr	otection	High pressure sensor,			High pressure sensor,		
devices			High press	sure switch at 4.15 MP	a (601 psi)	High press	sure switch at 4.15 MP	a (601 psi)
	Inverter circuit		Over-heat protection,				Over-heat protection,	
(COMP./FAN)				Over-current protectior	ו	Over-current protection		
Refrigerant	Type x original c	harge	R410A x 11.5 kg (26 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)	R410A x 11.8 kg (27 lbs)
Net weight		kg (lbs)	241 (532)	285 (629)	285 (629)	285 (629)	285 (629)	285 (629)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor	Twinning kit: CMY-Y3	00VBK3	Outdoor Twinning kit: CMY-Y300VBK3		
			Joint: CMY-Y102SS/LS-G2,			Joint: CMY-Y102SS/LS-G2,		
			CMY-Y202S/302S-G2			CMY-Y202S/302S-G2		
			Head	der: CMY-Y104/108/10	10-G	Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

YKD-series - High Efficiency PUHY-EP YSKD (-BS)



Specifications

Model			PUHY-EP400YSKD (-BS)	PUHY-EP450YSKD (-BS)	PUHY-EP500YSKD (-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	56.0
(Nominal)		BTU/h	152,900	172,000	191,100
	Power input	kW	9.21	10.54	11.91
	Current input	A	15.5-14.7-14.2	17.7-16.9-16.2	20.1-19.1-18.4
	EER	kW/kW	4.86	4.78	4.70
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.	-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	44.8	50.4	56.0
(Nominal)	BTU/h		152,900	172,000	191,100
	Power input	kW	10.66	12.00	13.36
	Current input	A	17.9-17.0-16.4	20.2-19.2-18.5	22.5-21.4-20.6
	COP	kW/kW	4.20	4.20	4.19
Temp. range of	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)
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 outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
connectable	Model/Quantity		P15~P400/1~34	P15~P400/1~39	P15~P500/1~43
Sound pressure le (measured in ane	evel choic room)	dB <a>	60 60.5		61
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

Set Model

Model			PUHY-P200YKD (-BS)	PUHY-P200YKD (-BS)	PUHY-P200YKD (-BS)	PUHY-P250YKD (-BS)	PUHY-P250YKD (-BS)	PUHY-P250YKD (-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1 Propeller fan x 1		Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	175	175	175	175	
		L/s	2,917	2,917	2,917	2,917	2,917	2,917	
		cfm	6,179	6,179	6,179	6,179	6,179	6,179	
	Control, Driving mechanism	-	Inverter-control, Direct-driven by motor		Inverter-control, Dir	ect-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 pro	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	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	5.5	5.5	5.5	6.9	6.9	6.9	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>		Pre-coated galvar (+powder coatin <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) '.8/1.1 or similar></td><td>Pre-coated galva (+powder coati <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) '.8/1.1 or similar></td></munsell></td></munsell>	nized steel sheets ng for -BS type) '.8/1.1 or similar>	Pre-coated galva (+powder coati <munsell 3y="" 7<="" td=""><td>nized steel sheets ng for -BS type) '.8/1.1 or similar></td></munsell>	nized steel sheets ng for -BS type) '.8/1.1 or similar>	
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	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 920 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	
Protection devices	High pressure pro	otection	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat Over-currer	protection, ht protection	Over-heat Over-currer	protection, nt protection	Over-heat Over-currer	protection, ht 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 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	R410A x 8.0 kg (18 lbs)	
Net weight		kg (lbs)	191 (422)	191 (422)	191 (422)	191 (422)	191 (422)	191 (422)	
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	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	tit: CMY-Y100VBK3	Outdoor Twinning k	it: CMY-Y100VBK3	
			Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y	102SS/LS-G2,	Joint: CMY-Y102SS/LS-G2,		
			Header: CMY-Y	104/108/1010-G	Header: CMY-Y	104/108/1010-G	CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

YKD-series - High Efficiency PUHY-EP YSKD (-BS)



Specifications

Power source 3-phase 4-wire 380-400-415 V 50/60 Hz 3-phase 4-wire 380-400 Cooling capacity *1 kW 73.5 80.0	0-415 V 50/60 Hz		
Cooling capacity *1 kW 73.5 80.0	0		
	n		
(Nominal) BTU/h 250,800 273,000	273,000		
Power input kW 17.83 19.75			
Current input A 30.0-28.5-27.5 33.3-31.6-	30.5		
EER kW/kW 4.12 4.05			
Temp. range of Indoor W.B. 15.0~24.0 °C (59~75 °F) 15.0~24.0 °C (59~75 °F)	59~75 °F)		
cooling Outdoor D.B5.0~52.0 °C (23~126 °F) -5.0~52.0 °C (23	3~126 °F)		
Heating capacity *2 kW 73.5 80.0			
(Nominal) BTU/h 250,800 273,000	0		
Power input kW 18.70 20.25			
Current input A 31.5-29.9-28.9 34.1-32.4-	31.3		
COP kW/kW 3.93 3.95			
Temp. range of Indoor D.B. 15.0~27.0 °C (59~81 °F) 15.0~27.0 °C (5	59~81 °F)		
heating Outdoor W.B20.0~15.5 °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	r unit capacity		
connectable Model/Quantity P15~P600/1~50 P15~P600/	1~50		
Sound pressure level (measured in anechoic room) dB <a> 64 64			
Refrigerant piping Liquid pipe mm (in.) 15.88 (5/8) Brazed 19.05 (3/4) E	19.05 (3/4) Brazed		
diameter Gas pipe mm (in.) 28.58 (1-1/8) Brazed 34.93 (1-3/8)	34.93 (1-3/8) Brazed		

Set Model

Model			PUHY-P300YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P350YKD (-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 mechanism		Inverter-control, Dir	rect-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		
*	B External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ 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	8.1	10.4	10.4	10.4		
	Case heater	kW	-	-	-	-		
External finish			Pre-coated galva	nized steel sheets	Pre-coated galva	nized steel sheets		
			(+powder coati <munsell 3y="" 7<="" td=""><td>ng for -BS type) 7.8/1.1 or similar></td><td>(+powder coati <munsell 3y<="" td=""><td>ng for -BS type) 7.8/1.1 or similar></td></munsell></td></munsell>	ng for -BS type) 7.8/1.1 or similar>	(+powder coati <munsell 3y<="" td=""><td>ng for -BS type) 7.8/1.1 or similar></td></munsell>	ng for -BS type) 7.8/1.1 or similar>		
External dimension	on H x W x D	mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740		
		in.	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16		
Protection devices	High pressure pr	otection	High press High pressure switch	ure sensor, at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat Over-currer	protection, nt protection	Over-heat Over-curre	protection, nt protection		
Refrigerant	Type x original c	harge	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)	204 (450)	243 (536)	243 (536)	243 (536)		
Heat exchanger			Salt-resistant cros	s fin & copper tube	Salt-resistant cros	s fin & copper tube		
Pipe between uni	t 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 Joint: CMY-Y CMY-Y Header: CMY-Y	kit: CMY-Y100VBK3 102SS/LS-G2, 202S/302S-G2 104/108/1010-G	Outdoor Twinning I Joint: CMY-Y CMY-Y Header: CMY-Y	kit: CMY-Y200VBK2 102SS/LS-G2, 202S/302S-G2 (104/108/1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series - High Efficiency PUHY-EP YSKD (-BS)



Specifications

Model		PUHY-EP750YSKD (-BS)			PUHY-EP800YSKD (-BS)			PUHY-EP850YSKD (-BS)				
Power source			3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	3-phase 4-w	rire 380-400-41	5 V 50/60 Hz	3-phase 4-w	ire 380-400-41	5 V 50/60 Hz	
Cooling capacity	*1	kW		84.8			90.4			96.0		
(Nominal)		BTU/h		289,300			308,400		327,600			
	Power input	kW		19.18			20.82		22.53			
	Current input	A		32.3-30.7-29.6		35.1-33.3-32.1			38.0-36.1-34.8			
	EER	kW/kW		4.42			4.34			4.26		
Temp. range of	Indoor	W.B.	15.0	~24.0 °C (59~7	5 °F)	15.0	~24.0 °C (59~7	5 °F)	15.0	15.0~24.0 °C (59~75 °F)		
cooling	Outdoor	D.B.	-5.0~	-52.0 °C (23~12	26 °F)	-5.0~	-52.0 °C (23~12	26 °F)	-5.0~	52.0 °C (23~12	26 °F)	
Heating capacity	*2	kW		84.8	,		90.4	,		96.0	,	
(Nominal)		BTU/h		289,300			308,400			327,600		
	Power input	kW		20.58			21.99			23.35		
	Current input	A		34.7-33.0-31.8			37.1-35.2-33.9			39.4-37.4-36.0	1	
	COP	kW/kW	4.12				4.11			4.11		
Temp. range of	Indoor	D.B.	15.0	~27.0 °C (59~8	1 °F)	15.0	~27.0 °C (59~8	1 °F)	15.0	~27.0 °C (59~8	31 °F)	
heating	Outdoor	W.B.	-20.0)~15.5 °C (-4~6	60 °F)	-20.0	0~15.5 °C (-4~6	0 °F)	-20.0	~15.5 °C (-4~€	60 °F)	
Indoor unit	Total capacity		50~130%	of outdoor uni	t capacity	50~130%	6 of outdoor uni	t capacity	50~130%	of outdoor uni	t capacity	
connectable	Model/Quantity			P15~P600/1~50	0		P15~P600/1~5	0		P15~P600/1~5	0	
Sound pressure le (measured in ane	vel choic room)	dB <a>		64	64 64		64					
Refrigerant piping	Liquid pipe	mm (in.)	19	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braze	ed	1	9.05 (3/4) Braz	ed	
diameter	Gas pipe	mm (in.)	34	.93 (1-3/8) Braz	zed	34	.93 (1-3/8) Braz	zed	41	.28 (1-5/8) Braz	zed	
Set Model			PUHY- P200YKD	PUHY-	PUHY- P350YKD	PUHY- P200YKD	PUHY- P250YKD	PUHY- P350YKD	PUHY- P250YKD	PUHY- P250YKD	PUHY- P350YKD	
model			(-BS)	(-BS)	(-BS)	(-BS)	(-BS)	(-BS)	(-BS)	(-BS)	(-BS)	
Fan	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
	Air flow rate	m³/min	175	175	210	175	175	210	175	175	210	
		L/s	2,917	2,917	3,500	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	6,179	6,179	7,415	
	Control, Driving mechanism		Inverter-cor	ntrol, Direct-driv	en by motor	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
*3	External static pre	ess.	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	
			(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	
Compressor	Туре		Inverter so	croll hermetic co	ompressor	Inverter se	croll hermetic c	ompressor	Inverter se	croll hermetic c	ompressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.5	5.5	10.4	5.5	6.9	10.4	6.9	6.9	10.4	
	Case heater	kW	-		-	-	<u> </u>	-	-		-	
External finish			Pre-coate (+powd <munse< td=""><td>d galvanized st er coating for -E LL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td><td>Pre-coate (+powd <munse< td=""><td>d galvanized st er coating for -E LL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></munse<></td></munse<>	d galvanized st er coating for -E LL 3Y 7.8/1.1 c	eel sheets 3S type) or similar>	Pre-coate (+powd <munse< td=""><td>d galvanized st er coating for -E LL 3Y 7.8/1.1 c</td><td>eel sheets 3S type) or similar></td><td colspan="3">Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell></td></munse<>	d galvanized st er coating for -E LL 3Y 7.8/1.1 c	eel sheets 3S type) or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>			
External dimensio	n H x W x D	mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	
		in.	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	High pressure pro	otection	Hig	h pressure sen	sor,	Hig	h pressure sen	sor,	Hig	h pressure sen	sor,	
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)	

Protection	High pressure pr	otection	Hig	n pressure sen	isor,	Hig	n pressure sen	sor,	Hign 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	Inverter circuit		Over-heat protection,			er-heat protect	ion,	Over-heat protection,		
	(COMP./FAN)		Ove	r-current prote	ction	Over-current protection			Over-current protection		
Refrigerant	Type x original c	harge	R410A x 8.0 kg	R410A x 8.0 kg	R410A x 11.5 kg	R410A x 8.0 kg	R410A x 8.0 kg	R410A x 11.5 kg	R410A x 8.0 kg	R410A x 8.0 kg	R410A x 11.5 kg
		-	(18 lbs)	(18 lbs)	(26 lbs)	(18 lbs)	(18 lbs)	(26 lbs)	(18 lbs)	(18 lbs)	(26 lbs)
Net weight		kg (lbs)	191 (422)	191 (422)	243 (536)	191 (422)	191 (422)	243 (536)	191 (422)	191 (422)	243 (536)
Heat exchanger			Salt-resista	ant cross fin & c	copper tube	Salt-resista	ant cross fin & d	opper tube	Salt-resista	ant cross fin & d	copper tube
Pipe between unit	Liquid pipe	mana (in)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
and distributor		[mm (m.)	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mana (in)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)
		[mm (m.)	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
Optional parts			Outdoor Tw	inning kit: CMY	-Y300VBK3	Outdoor Tw	inning kit: CMY	-Y300VBK3	Outdoor Tw	inning kit: CMY	-Y300VBK3
			Joint:	CMY-Y102SS/I	LS-G2,	Joint:	Joint: CMY-Y102SS/LS-G2,		Joint: CMY-Y102SS/LS-G2,		
	CMY-Y202S/302S-G2)2S-G2		CMY-Y202S/30)2S-G2	CMY-Y202S/302S-G2			
Header: CMX-V104/108/1010-G			Header	CMY-V104/108	3/1010-G	Header: CMV_V104/108/1010_G					

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series - High Efficiency PUHY-EP YSKD (-BS)



Specifications

Model			PUHY-EP900YSKD (-BS)	PUHY-EP950YSKD (-BS)	PUHY-EP1000YSKD (-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	101.5	107.0	113.5	
(Nominal)		BTU/h	346,300	365,100	387,300	
	Power input	kW	24.16	26.75	28.80	
	Current input	A	40.7-38.7-37.3	45.1-42.9-41.3	48.6-46.1-44.5	
	EER	kW/kW	4.20	4.00	3.94	
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.	-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	101.5	107.0	113.5	
(Nominal)	BTU/ł		346,300	365,100	387,300	
	Power input	kW	25.24	27.22	28.80	
	Current input	A	42.6-40.4-39.0	45.9-43.6-42.0	48.6-46.1-44.5	
	COP	kW/kW	4.02	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)	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 outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity	
connectable	Model/Quantity		P15~P600/1~50	P15~P600/1~50	P15~P600/1~50	
Sound pressure le (measured in aneo	vel choic room)	dB <a>	65	66	66	
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.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed	

Set Model

			DUUV	DUUV	DUUV	DUUV	DUUN	DUUN	DUUN	DUUN	DUUN
Model											
wodel			P2301KD	POUTED	PODUTED		POUTED	PODIAD	POUTED		
	Turne y Quentity		(-DS) Dropollor fon	(-D3) Dropollor for	(-DS) Dropollor fon	(-DS)	(-DS) Dropollor fon	(-DG)	(-DS)	(-DS)	(-DS)
Fan	Type x Quantity										
	Air flow rote	ma3/main	175	105	210	105	105	210	105	210	210
	Air now rate	m ^e /min	1/5	601	210	100	0.000	210	0.000	210	210
		L/S	2,917	3,083	3,500	3,083	3,083	3,500	3,083	3,500	3,500
		ctm	6,179	6,532	7,415	6,532	6,532	7,415	6,532	7,415	7,415
	Control, Driving mechanism		Inverter-cor	trol, Direct-driv	en by motor	Inverter-con	trol, Direct-driv	en by motor	Inverter-cor	trol, Direct-driv	en by motor
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
*3	External static pro	ess.	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa	0 Pa
			(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)	(0 mmH ₂ O)
Compressor	Туре		Inverter so	croll hermetic co	ompressor	Inverter so	croll hermetic c	ompressor	Inverter so	croll hermetic c	ompressor
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9	8.1	10.4	8.1	8.1	10.4	8.1	10.4	10.4
	Case heater	kW	-	-	-	-	-	-	-	-	-
External finish			Pre-coate	d galvanized st	eel sheets	Pre-coate	d galvanized st	eel sheets	Pre-coate	d galvanized st	eel sheets
			(+powd	er coating for -E	BS type)	(+powd	er coating for -l	BS type)	(+powd	er coating for -E	BS type)
			<munse< td=""><td>LL 3Y 7.8/1.1 c</td><td>or similar></td><td><munse< td=""><td>LL 3Y 7.8/1.1 c</td><td>or similar></td><td><munse< td=""><td>LL 3Y 7.8/1.1 c</td><td>or similar></td></munse<></td></munse<></td></munse<>	LL 3Y 7.8/1.1 c	or similar>	<munse< td=""><td>LL 3Y 7.8/1.1 c</td><td>or similar></td><td><munse< td=""><td>LL 3Y 7.8/1.1 c</td><td>or similar></td></munse<></td></munse<>	LL 3Y 7.8/1.1 c	or similar>	<munse< td=""><td>LL 3Y 7.8/1.1 c</td><td>or similar></td></munse<>	LL 3Y 7.8/1.1 c	or similar>
External dimension	n H x W x D	mm	1,650 x 920 x	1,650 x 920 x	1,650 x 1,220	1,650 x 920 x	1,650 x 920 x	1,650 x 1,220	1,650 x 920 x	1,650 x 1,220	1,650 x 1,220
			740	740	x 740	740	740	x 740	740	x 740	x 740
		in	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 36-1/4 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 36-1/4 x	65 x 48-1/16 x	65 x 48-1/16 x
			29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16	29-3/16
Protection	High pressure pro	otection	Hig	h pressure sen	sor,	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		Ov	er-heat protecti	on,	Over-heat protection,			Ov	er-heat protect	on,
	(COMP./FAN)		Ove	r-current protect	ction	Ove	r-current prote	ction	Ove	r-current protect	ction
Refrigerant	Type x original ch	narge	R410A x 8.0 kg	R410A x 8.0 kg	R410A x 11.5 kg	R410A x 8.0 kg	R410A x 8.0 kg	R410A x 11.5 kg	R410A x 8.0 kg	R410A x 11.5 kg	R410A x 11.5 kg
			(18 lbs)	(18 lbs)	(26 lbs)	(18 lbs)	(18 lbs)	(26 lbs)	(18 lbs)	(26 lbs)	(26 lbs)
Net weight		kg (lbs)	191 (422)	204 (450)	243 (536)	204 (450)	204 (450)	243 (536)	204 (450)	243 (536)	243 (536)
Heat exchanger	,		Salt-resista	ant cross fin & c	opper tube	Salt-resista	ant cross fin & c	opper tube	Salt-resista	ant cross fin & c	opper tube
Pipe between unit	Liquid pipe	mm (in)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
and distributor		,	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
	Gas pipe	mm (in)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	22.2 (7/8)	28.58 (1-1/8)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
			Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
Optional parts			Outdoor Tw	inning kit: CMY	-Y300VBK3	Outdoor Tw	inning kit: CMY	-Y300VBK3	Outdoor Tw	inning kit: CMY	-Y300VBK3
			Joint:	CMY-Y102SS/L	_S-G2,	Joint:	CMY-Y102SS/I	_S-G2,	Joint:	CMY-Y102SS/I	_S-G2,
				CMY-Y202S/30	2S-G2		CMY-Y202S/30	2S-G2	CMY-Y202S/302S-G2		
			Header:	CMY-Y104/108	3/1010-G	Header:	CMY-Y104/108	3/1010-G	Header:	CMY-Y104/108	3/1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference	
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)	

YKD-series - High Efficiency PUHY-EP YSKD (-BS)



Specifications

Model			PL	JHY-EP1050YSKD (-B	S)	PUHY-EP1100YSKD (-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)		BTU/h		409,400			426,500		
	Power input	kW		29.62			32.55		
	Current input	A		50.0-47.5-45.7			54.9-52.2-50.3		
	EER	kW/kW		4.05			3.84		
Temp. range of	Indoor	W.B.	1	5.0~24.0 °C (59~75 °F	F)	1	5.0~24.0 °C (59~75 °F	F)	
cooling	Outdoor	D.B.	-5	5.0~52.0 °C (23~126 °F	F)	-5	5.0~52.0 °C (23~126 °I	F)	
Heating capacity	*2	kW		120.0	/		125.0	,	
(Nominal)		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.	1	5.0~27.0 °C (59~81 °F	F)	15.0~27.0 °C (59~81 °F)			
heating	Outdoor	W.B.	-2	20.0~15.5 °C (-4~60 °F	=)	-2	20.0~15.5 °C (-4~60 °F	-) -)	
Indoor unit	Total capacity		50~13	30% of outdoor unit ca	pacity	50~13	30% of outdoor unit ca	pacity	
connectable	Model/Quantity			P15~P600/1~50			P15~P600/1~50		
Sound pressure le	vel	dB <a>		66			67		
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	p.p.								
Model			PUHY-P350YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P350YKD (-BS)	PUHY-P400YKD (-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		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	
*3	External static pr	ess.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type		Inverte	er scroll hermetic comp	ressor				
Comproceed	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		1	Pre-coated galvanized steel sheets (+powder coating for -BS type)			Pre-cc (+pc <mun< td=""><td>ated galvanized steel wder coating for -BS t ISELL 3Y 7.8/1.1 or si</td><td>sheets ype) milar></td></mun<>	ated galvanized steel wder coating for -BS t ISELL 3Y 7.8/1.1 or si	sheets ype) milar>	
External dimension	n H x W x D	mm	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	
		in.	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	
Protection	High pressure pre	otection		High pressure sensor,			High pressure sensor,		
devices			High press	sure switch at 4.15 MP	a (601 psi)	High press	sure switch at 4.15 MP	a (601 psi)	
	Inverter circuit (COMP./FAN)			Over-heat protection, Over-current protection	1		Over-heat protection, Over-current protection	ı	
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)	243 (536)	243 (536)	243 (536)	243 (536)	243 (536)	241 (532)	
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.)	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 Joi	Twinning kit: CMY-Y3 int: CMY-Y102SS/LS-C CMY-Y202S/302S- ler: CMY-Y104/108/10	00VBK3 G2, -G2 10-G	20.30 (11/10) Did2ed [20.30 (11/10) Did2ed [20.30 (11/10) Did2ed Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

*1,*2 Nominal conditions

	Indoor Outdoor		Pipe length	Level difference
Cooling	27 °CD.B./19 °CW.B. (81 °FD.B./66 °FW.B.)	35 °CD.B. (95 °FD.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)
Heating	20 °CD.B. (68°FD.B.)	7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)	7.5 m (24-9/16 ft.)	0 m (0 ft.)

Optional Parts for Outdoor Units

For PUCY-Series

Description	Model	Remarks
	CMY-Y100VBK3	For PUCY-P550-P650YSKE / GP400-GP650YSKE / EP400-EP650YSKE
Twinning kit	CMY-Y200VBK2	For PUCY-P700-P1000YSKE / GP700YSKE / EP700YSKE
	CMY-Y300VBK3	For PUCY-P1050-P1500YSKE / GP750-GP1100YSKE / EP750-EP1500YSKE
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
Dranah nina (laint)		401-650 (Total capacity of indoor unit)
Branch pipe (Joint)	CM11-1202S-G2	The 1st branch of P450-P650
		651 or above (Total capacity of indoor unit)
	CMY-Y302S-G2	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 PUHY-Series

Description	Model	Remarks
	CMY-Y100VBK3	For PUHY-P550-P650YSKD / EP400-EP650YSKD
Twinning kit	CMY-Y200VBK2	For PUHY-P700-P1000YSKD / EP700YSKD
	CMY-Y300VBK3	For PUHY-P1050-P1500YSKD / EP750-EP1100YSKD
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
Drench size (leist)		401-650 (Total capacity of indoor unit)
Branch pipe (Joint)	CMY-Y202S-G2	The 1st branch of P450-P650
		651 or above (Total capacity of indoor unit)
	CMY-Y302S-G2	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.

WY-series

PQHY

An another offer using a water circuit for VRF. The water cooled systems offer greater flexibility in installation.



Low Consult



101

OTY MUL

Depending on capacity, up to 15 to 50 indoor units can be connected to a single condensing unit with individualized and/or centralized control. The two-pipe system allows all CITY MULTI solutions to switch between cooling and heating while maintaining a constant indoor temperature.

Compact outdoor units can be easily installed in the machine rooms on each floor. This helps overcome the restriction on differences in height of refrigerant piping. Individual air conditioning can be easily provided in high-rise buildings using this system.

Individual air conditioning in high-rise buildings and underground shopping districts are made possible by using water piping, which offers greater usability over longer distances.



- Water cooled systems can be used even in buildings that are taller than 50 m by running a main water pipe through each floor*.
 * Depends on filed supplied water circuit.
- Any heat source system that can supply heat source water between 10°C to 45°C can be used.





YLM-Series

Wide capacity range available, single module capable of up to P600 and combination module up to P900.



Single- or combination-module units are available to meet various installation conditions and capacity requirements.



WY-Series

		P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
PQHY-P Y(S)LM-A1	Single	S	S	S	L	L	L	L	L	L						
PQHY-P Y(S)HM-A	Single	S	S	S												
PQHY-P Y(S)LM-A1	Combination					S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L	L+L
PQHY-P Y(S)HM-A	Combination					S+S	S+S	S+S	S+S	S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S

Benefit of single module wide capacity range

Less piping work

Capable of covering up to P600 (24 HP) with a single module.



Less footprint

Less footprint by the enhancement of the lineup of single-module units.



* 0V: Close, 10V: Full

Water flow rate control

System energy consumption can be improved by changing the water flow volume during partial load and thereby reducing water pump consumption.

- Control of water flow rate
- Control output voltage (0-10V) to adjust valve opening [0V: Full open,10V: close]
- Voltage at 0 volt: Even when power is down, water will continue to circulate.
- * When using "water flow rate control", the pump needs to be controlled
- by inverter. * Pump interlock is required.



Power saving setting for the pump

On the A1 type models, the water control valve is closed during standby and Thermo-OFF to reduce the circulating water flow rate achieving the reduction in power consumption of the pump.



The valve closes and stops the water flow during standby and Thermo-OFF to reduce the energy consumption of the pump.

of piping where 40m [131ft] is exceeded and all piping after

Self-cooling device

Because the heat source unit includes a self-cooling device, there is no need to secure space for installing a separate cooling device such as a fan.



that point.

System Pipe Lengths

[P200-P900 (WY-Series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length	300-500 [984-1640]
Maximum allowable length	165 (190 equivalent)
	[541(623)]
Farthest indoor from first branch	40 [131]*2
Vertical differentials between units	Maximum meters [Feet]
Indoor/heat source (heat source higher)	50 [404]
indeennear searce (near searce night)	50 [164]
Indoor/heat source (heat source lower) ····	40 [131]

Remote Controller

Indoor unit

WY-series (Heat pump) PQHY-P YLM-A1



Specifications

Model			PQHY-P200YLM-A1	PQHY-P250YLM-A1	PQHY-P300YLM-A1
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	22.4	28.0	33.5
(Nominal)	*1	BTU / h	76,400	95,500	114,300
	Power input	kW	3.71	4.90	6.04
	Current input	A	6.2-5.9-5.7	8.2-7.8-7.5	10.1-9.6-9.3
	EER	kW / kW	6.03	5.71	5.54
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	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	25.0	31.5	37.5
(Nominal)	*2	BTU / h	85,300	107,500	128,000
. ,	Power input	kW	3.97	5.08	6.25
	Current input	Α	6.7-6.3-6.1	8.5-8.1-7.8	10.5-10.0-9.6
	COP	kW / kW	6.29	6.20	6.00
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)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P250/1~17	P15~P250/1~21	P15~P300/1~26
Sound pressure le (measured in aneo	vel choic room)	dB <a>	46	48	54
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12 7 (1/2) Brazed farthest length >= 90 m)	9.52 (3/8) Brazed (12 7 (1/2) Brazed fathest length >= 40 m)
	Gas pipe	mm (in)	19.05 (3/4) Brazed	22 2 (7/8) Brazed	22 2 (7/8) Brazed
Circulating water	Water flow rate	m ³ /h	5 76	5.76	5.76
		I /min	96	96	96
		cfm	3.4	3.4	3.4
	Pressure drop	kPa	24	24	24
	Operating volume range	m ³ /h	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2
Compressor	Туре	I	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	4.8	6.2	7.7
	Case heater	kW	-	-	-
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimensio	n HxWxD	mm	1.100 x 880 x 550	1.100 x 880 x 550	1.100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
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)
	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	narge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight		kg (lbs)	170 (375)	170 (375)	170 (375)
Heat exchanger		/	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
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

Notes:

1,*2 Nominal conditions	
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_		Indoor	Inlet water temperature	Pipe length	Level difference	
	Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
	Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
 The ambient relative humidity of the heat source unit needs to be kept below 80%.
 The heat source unit should not be installed at outdoor.
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WY-series PQHY

HEAT SOURCE UNIT

WY-series (Heat pump) PQHY-P YLM-A1



Specifications

Model			PQHY-P350YLM-A1	PQHY-P400YLM-A1	PQHY-P450YLM-A1
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	40.0	45.0	50.0
(Nominal)	*1	BTU / h	136,500	153,500	170,600
	Power input	kW	7.14	8.03	9.29
	Current input	A	12.0-11.4-11.0	13.5-12.8-12.4	15.6-14.8-14.3
	EER	kW / kW	5.60	5.60	5.38
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	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	45.0	50.0	56.0
(Nominal)	*2	BTU / h	153,500	170,600	191,100
· /	Power input	kW	7.53	8.37	9.79
	Current input	Α	12.7-12.0-11.6	14.1-13.4-12.9	16.5-15.7-15.1
	COP	kW / kW	5.97	5.97	5.72
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)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P300/1~30	P15~P400/1~34	P15~P400/1~39
Sound pressure le (measured in ane	vel choic room)	dB <a>	52 52		54
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
Circulating water	Water flow rate	m ³ /h	7.20	7.20	7.20
J		L/min	120	120	120
		cfm	4.2	4.2	4.2
	Pressure drop	kPa	44	44	44
	Operating volume range	m³ / h	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	9.5	10.7	11.6
	Case heater	kW	-	-	-
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimensio	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
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)
	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
Net weight		kg (lbs)	214 (472)	214 (472)	214 (472)
Heat exchanger			plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G

Notes:

*1,*2 Nominal conditions

	Indoor Inlet water temperature		Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
 The ambient relative humidity of the heat source unit needs to be kept below 80%.
 "The heat source unit should not be installed at outdoor.
 "The heat source unit should not be installed at outdoor.
 "The heat source unit should not be installed at outdoor.
 "The source to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
 "Be sure to provide interlocking for the unit operation and water circuit.
 "When a PFFY-P400/600YM indoor unit is used, the capacity of the indoor unit must not exceed the capacity of the heat source unit. Each indoor unit must be connected to a heat source unit.
 "Nominal condition "1, "2 are subject to JIS B8615-2.
 "Due to continuing improvement, above specification may be subject to change without notice.

WY-series (Heat pump) PQHY-P YLM-A1



Specifications

Model			PQHY-P500YLM-A1	PQHY-P550YLM-A1	PQHY-P600YLM-A1
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	56.0	63.0	69.0
(Nominal) *1 BTU / h		191,100	215,000	235,400	
	Power input	kW	11.17	12.54	14.49
	Current input	Α	18.8-17.9-17.2	21.1-20.1-19.3	24.4-23.2-22.3
	EER	kW / kW	5.01	5.02	4.76
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	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	63.0	69.0	76.5
(Nominal)	*2	BTU / h	215.000	235.400	261.000
· · · ·	Power input	kW	11.43	12.27	14.51
	Current input	Α	19.2-18.3-17.6	20.7-19.6-18.9	24.4-23.2-22.4
	COP	kW / kW	5.51	5.62	5.27
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)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P500/1~43	P15~P500/1~47	P15~P600/1~50
Sound pressure le (measured in ane	vel choic room)	dB <a>	54 56.5		56.5
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 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m ³ /h	7.20	11.52	11.52
		L/min	120	192	192
		cfm	4.2	6.8	6.8
	Pressure drop	kPa	44	45	45
	Operating volume range	m³ / h	4.5 ~ 11.6	6.0 ~ 14.4	6.0 ~ 14.4
Compressor	Туре		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	13.0	15.0	16.1
	Case heater	kW	-	0.045 (240 V)	0.045 (240 V)
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimensio	n HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
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)
	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original ch	narge	R410A x 6.0 kg (14 lbs)	R410A x 11.7 kg (26 lbs)	R410A x 11.7 kg (26 lbs)
Net weight		kg (lbs)	214 (472)	243 (536)	243 (536)
Heat exchanger			plate type	plate type	plate type
	Water volume in plate	L	5.0	10.0	10.0
	Water pressure Max.	MPa	2.0	2.0	2.0
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G

Notes:

*1,*2 Nominal conditions

	Indoor	Inlet water temperature	Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
 *The ambient relative humidity of the heat source unit needs to be kept below 80%.
 *The heat source unit should not be installed at outdoor.
 *The heat source unit should not be installed at outdoor.
 *The heat source unit should not be installed at outdoor.
 *The source to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
 *Be sure to provide interlocking for the unit operation and water circuit.
 *When a PFFY-P400/500YM indoor unit is used, the capacity of the indoor unit must not exceed the capacity of the heat source unit. Each indoor unit must be connected to a heat source unit.
 *Nominal condition '1, '2 are subject to JIS B8615-2.
 *Due to continuing improvement, above specification may be subject to change without notice.

WY-series (Heat pump) PQHY-P YSLM-A1



Specifications

Model			PQHY-P400YSLM-A1	PQHY-P450YSLM-A1	PQHY-P500YSLM-A1
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	50.0	56.0
(Nominal)	*1	BTU / h	153,500	170,600	191,100
	Power input	kW	7.70	8.78	10.12
	Current input	A	12.9-12.3-11.9	14.8-14.0-13.5	17.0-16.2-15.6
	EER	kW / kW	5.84	5.69	5.53
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	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	50.0	56.0	63.0
(Nominal)	*2	BTU / h	170,600	191,100	215,000
	Power input	kW	7.94	8.97	10.16
	Current input	A	13.4-12.7-12.2	15.1-14.3-13.8	17.1-16.2-15.7
	COP	kW / kW	6.29	6.24	6.20
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)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P400/1~34	P15~P400/1~39	P15~P500/1~43
Sound pressure le (measured in anec	vel choic room)	dB <a>	49	50	51
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 (1-1/8) Brazed	28.58 (1-1/8) Brazed

Set Model

Model		PQHY-P200YLM-A1	PQHY-P200YLM-A1	PQHY-P250YLM-A1	PQHY-P200YLM-A1	PQHY-P250YLM-A1	PQHY-P250YLM-A1		
Circulating water Water flow rate m ³ / h		5.76 + 5.76		5.76 -	+ 5.76	5.76 -	+ 5.76		
		L/min	96 + 96		96 -	+ 96	96 + 96		
		cfm	3.4 -	+ 3.4	3.4 -	+ 3.4	3.4 + 3.4		
	Pressure drop	kPa	24	24	24	24	24	24	
	Operating volume range	m³ / h	3.0 + 3.0 -	~ 7.2 + 7.2	3.0 + 3.0 -	~ 7.2 + 7.2	3.0 + 3.0 -	~ 7.2 + 7.2	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll hermetic compressor		Inverter scroll her	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	4.8	4.8	6.2	4.8	6.2	6.2	
	Case heater	kW	-	-	-	-	-	-	
External finish		Galvanized	steel sheets	Galvanized steel sheets		Galvanized steel sheets			
External dimensio	n HxWxD	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
		in	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	
			21-11/16	21-11/16	21-11/16	21-11/16	21-11/16	21-11/16	
Protection	High pressure protection		High pressure sensor, High pressure switch		High pressure sensor	, High pressure switch	High pressure sensor	High pressure sensor, High pressure switch	
devices			at 4.15 MPa (601 psi)		at 4.15 MPa (601 psi)		at 4.15 MP	a (601 psi)	
Inverter circuit (CC		OMP.)	Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection	Over-heat protection, (Over-current protection	
Compressor			Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant Type x original charge		arge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	
Net weight		kg (lbs)	170 (375)	170 (375)	170 (375)	170 (375)	170 (375)	170 (375)	
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type	
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0	
Optional parts			Heat Source Twinning Joint: CMY-Y102SS/L Header: CMY-Y1	kit: CMY-Y100VBK3 S-G2, CMY-Y202S-G2 04, 108, 1010-G	Heat Source Twinning Joint: CMY-Y102SS/L Header: CMY-Y1	g kit: CMY-Y100VBK3 S-G2, CMY-Y202S-G2 104, 108, 1010-G	Heat Source Twinning Joint: CMY-Y102SS/L Header: CMY-Y1	y kit: CMY-Y100VBK3 S-G2, CMY-Y202S-G2 04, 108, 1010-G	

Notes:

*1,*2 Nominal conditions

	Indoor	Inlet water temperature	Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

*The ambient temperature of the heat source unit needs to be kept below 40°CD.B. *The ambient relative humidity of the heat source unit needs to be kept below 80%. *The heat source unit should not be installed at outdoor.

The feat source unit should not be instance at outdool.
Be sure to provide interlocking for the unit operation and water circuit.
Be sure to provide interlocking for the unit operation and water circuit.
When a PFFY-P400/500YM indoor unit is used, the capacity of the indoor unit must not exceed the capacity of the heat source unit. Each indoor unit must be connected to a heat source unit.
Nominal condition 11, 22 are subject to JIS B8615-2.
Due to continuing improvement, above specification may be subject to change without notice.

WY-series (Heat pump) PQHY-P YSLM-A1





Specifications

Model			PQHY-P550YSLM-A1	PQHY-P600YSLM-A1	PQHY-P700YSLM-A1
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	63.0	69.0	80.0
(Nominal)	*1	BTU / h	215,000	235,400	273,000
	Power input	kW	11.55	12.84	14.73
	Current input	A	19.4-18.5-17.8	21.6-20.5-19.8	24.8-23.6-22.7
	EER	kW / kW	5.45	5.37	5.43
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	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	69.0	76.5	88.0
(Nominal)	*2	BTU / h	235,400	261,000	300,300
	Power input	kW	11.31	12.75	14.73
	Current input	A	19.0-18.1-17.4	21.5-20.4-19.7	24.8-23.6-22.7
	COP	kW / kW	6.10	6.00	5.97
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)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	ndoor unit Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P500/1~47	P15~P600/1~50	P15~P600/1~50
Sound pressure le (measured in anec	vel choic room)	dB <a>	55	57	55
Refrigerant piping	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed
diameter	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed

Set Model

Model			PQHY-P300YLM-A1	PQHY-P250YLM-A1	PQHY-P300YLM-A1	PQHY-P300YLM-A1	PQHY-P350YLM-A1	PQHY-P350YLM-A1	
Circulating water Water flow rate m ³ / h		5.76 + 5.76		5.76 -	+ 5.76	7.20	+ 7.20		
		L/min	96 + 96		96 -	96 + 96		120 + 120	
		cfm	3.4 -	+ 3.4	3.4 -	+ 3.4	4.2	+ 4.2	
	Pressure drop	kPa	24	24	24	24	44	44	
	Operating volume range	m³ / h	3.0 + 3.0 -	~ 7.2 + 7.2	3.0 + 3.0 -	~ 7.2 + 7.2	4.5 + 4.5 ~	11.6 + 11.6	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.7	6.2	7.7	7.7	9.5	9.5	
	Case heater	kW	-	-	-	-	-	-	
External finish		Galvanized	Galvanized steel sheets Galvanized steel sheets		Galvanized	steel sheets			
External dimension HxWxD mrr in.		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
		in	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	57-1/8 x 34-11/16 x	57-1/8 x 34-11/16 x	
			21-11/16	21-11/16	21-11/16	21-11/16	21-11/16	21-11/16	
Protection	High pressure protection		High pressure sensor, High pressure switch		High pressure sensor	High pressure switch	High pressure sensor	High pressure switch	
	Inverter circuit (C	OMP)	Over best protection. Over current protection		Over-best protection Over-current protection		Over-beat protection Over-current protection		
Compressor		0	Over-heat protection, C	Over-heat protection	Over-heat protection,	Over-heat protection	Over-heat protection,	Over-heat protection	
Refrigerant Type x original charge		arge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 6 0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight	<u> </u>	ka (lbs)	170 (375)	170 (375)	170 (375)	170 (375)	214 (472)	214 (472)	
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type	
Ũ	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0	
Optional parts		Heat Source Twinning Joint: CMY-Y102SS/L Header: CMY-Y1	kit: CMY-Y100VBK3 S-G2, CMY-Y202S-G2 04, 108, 1010-G	Heat Source Twinning Joint: CMY-Y102SS/L Header: CMY-Y1	g kit: CMY-Y100VBK3 S-G2, CMY-Y202S-G2 I04, 108, 1010-G	Heat Source Twinnin Joint: CMY-Y102SS/LS- Header: CMY-Y	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 I04, 108, 1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Inlet water temperature	Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)]		

*The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
*The ambient relative humidity of the heat source unit needs to be kept below 80%.
*The heat source unit should not be installed at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*When a PFFY-P400/500YM indoor unit is used, the capacity of the indoor unit must not exceed the capacity of the heat source unit. Each indoor unit must be connected to a heat source unit.
*Nominal condition *1, *2 are subject to JIS B8615-2.
*Due to continuing improvement, above specification may be subject to change without notice.
HEAT SOURCE UNIT

WY-series (Heat pump) PQHY-P YSLM-A1



Specifications

Model			PQHY-P750YSLM-A1	PQHY-P800YSLM-A1
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	85.0	90.0
(Nominal)	*1	BTU / h	290,000	307,100
	Power input	kW	15.64	16.57
	Current input	A	26.4-25.0-24.1	27.9-26.5-25.6
	EER	kW / kW	5.43	5.43
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	95.0	100.0
(Nominal)	*2	BTU / h	324,100	341,200
	Power input	kW	15.90	16.75
	Current input	A	26.8-25.4-24.5	28.2-26.8-25.8
	COP	kW / kW	5.97	5.97
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity
connectable	Model / Quantity		P15~P600/1~50	P15~P600/1~50
Sound pressure le (measured in aneo	vel choic room)	dB <a>	55	55
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			PQHY-P400YLM-A1	PQHY-P350YLM-A1	PQHY-P400YLM-A1	PQHY-P400YLM-A1	
Circulating water	Water flow rate	m ³ /h	7.20	+ 7.20	7.20 + 7.20		
		L/min	120 + 120		120 -	+ 120	
		cfm	4.2	+ 4.2	4.2	+ 4.2	
	Pressure drop	kPa	44	44	44	44	
	Operating volume range	m³ / h	4.5 + 4.5 ~	11.6 + 11.6	4.5 + 4.5 ~	11.6 + 11.6	
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	10.7	9.5	10.7	10.7	
	Case heater	kW	-	_	-	-	
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets		
External dimension HxWxD mm		1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550		
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
Protection	High pressure protection		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 (COMP.)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original ch	narge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	214 (472)	214 (472)	214 (472)	214 (472)	
Heat exchanger			plate type	plate type	plate type	plate type	
	Water volume in plate	L	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	
Optional parts		Heat Source Twinnin Joint: CMY-Y102SS/LS- Header: CMY-Y	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 104, 108, 1010-G	Heat Source Twinnin Joint: CMY-Y102SS/LS- Header: CMY-Y	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 I04, 108, 1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Inlet water temperature	Pipe length	Level difference
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)		

*The ambient temperature of the heat source unit needs to be kept below 40°CD.B. *The ambient relative humidity of the heat source unit needs to be kept below 80%. *The heat source unit should not be installed at outdoor.

The feat source unit should not be instance at outdool.
Be sure to provide interlocking for the unit operation and water circuit.
Be sure to provide interlocking for the unit operation and water circuit.
When a PFFY-P400/500YM indoor unit is used, the capacity of the indoor unit must not exceed the capacity of the heat source unit. Each indoor unit must be connected to a heat source unit.
Nominal condition 11, 22 are subject to JIS B8615-2.
Due to continuing improvement, above specification may be subject to change without notice.

HEAT SOURCE UNIT

WY-series (Heat pump) PQHY-P YSLM-A1



Specifications

Model			PQHY-P850YSLM-A1	PQHY-P900YSLM-A1	
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	96.0	101.0	
(Nominal)	*1	BTU / h	327,600	344,600	
	Power input	kW	18.03	19.38	
	Current input	A	30.4-28.9-27.8	32.7-31.0-29.9	
	EER	kW / kW	5.32	5.21	
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	
Heating capacity	*2	kW	108.0	113.0	
(Nominal)	*2	BTU / h	368,500	385,600	
	Power input	kW	18.49	19.74	
	Current input	A	31.2-29.6-28.5	33.3-31.6-30.5	
	COP	kW / kW	5.84	5.72	
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
heating	Inlet water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	
Indoor unit	Total capacity		50~130% of heat source unit capacity	50~130% of heat source unit capacity	
connectable	Model / Quantity		P15~P600/1~50	P15~P600/1~50	
Sound pressure le (measured in aneo	vel choic room)	dB <a>	56	57	
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			PQHY-P450YLM-A1	PQHY-P400YLM-A1	PQHY-P450YLM-A1	PQHY-P450YLM-A1	
Circulating water Water flow rate m ³ / h		m³/h	7.20 -	+ 7.20	7.20 + 7.20		
		L/min	120 -	+ 120	120 -	+ 120	
		cfm	4.2 -	+ 4.2	4.2	+ 4.2	
	Pressure drop	kPa	44	44	44	44	
	Operating volume range	m³ / h	4.5 + 4.5 ~	11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Туре		Inverter scroll her	metic compressor	Inverter scroll her	metic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	11.6	10.7	11.6	11.6	
	Case heater	kW	-	-	-	-	
External finish			Galvanized steel sheets	alvanized steel sheets Galvanized steel sheets Galvanized steel sheets		Galvanized steel sheets	
External dimension HxWxD mm		1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550		
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16 57-1/8 x 34-11/16 x 21-11/16 57-1/8 x 34-11/16 x 21-11/16 57		57-1/8 x 34-11/16 x 21-11/16	
Protection	High pressure pro	otection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High press	sure switch at 4.15 MPa (601 psi)	
devices	Inverter circuit (C	OMP.)	Over-heat protection, Over-current protection		Over-heat protection,	Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original ch	arge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	214 (472)	214 (472)	214 (472)	214 (472)	
Heat exchanger			plate type	plate type	plate type	plate type	
	Water volume in plate	L	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	
Optional parts		Heat Source Twinning Joint: CMY-Y102SS/LS-0 Header: CMY-Y1	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 I04, 108, 1010-G	Heat Source Twinning Joint: CMY-Y102SS/LS- Header: CMY-Y	g kit: CMY-Y200VBK2 G2, CMY-Y202, 302S-G2 I04, 108, 1010-G		

Notes:

*1,*2 Nominal conditions

	Indoor	Inlet water temperature	Pipe length	Level difference	
Cooling	27°CD.B./19°CW.B. (81°FD.B./66°FW.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)	
Heating	20°CD.B. (68°FD.B.)	20°C (68°F)			

The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
 *The ambient relative humidity of the heat source unit needs to be kept below 80%.
 *The heat source unit should not be installed at outdoor.
 *The heat source unit should not be installed at outdoor.
 *The heat source unit should not be installed at outdoor.
 *The source to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
 *Be sure to provide interlocking for the unit operation and water circuit.
 *When a PFFY-P400/500YM indoor unit is used, the capacity of the indoor unit must not exceed the capacity of the heat source unit. Each indoor unit must be connected to a heat source unit.
 *Nominal condition '1, '2 are subject to JIS B8615-2.
 *Due to continuing improvement, above specification may be subject to change without notice.

Optional Parts for Heat souce unit

Description	Model	Remarks		
	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)		
	CMY-Y102LS-G2	201~400 (Total capacity of indoor unit)		
Branch pipe (Joint)	CMX X2028 C2	401~650 (Total capacity of indoor unit)		
	GM1-12023-02	The first branch of P450-P650		
	CMY-Y302S-G2	651 or above (Total capacity of indoor unit)		
	CMY-Y104C-G	For 4 branches		
Branch pipe (Header)	CMY-Y108C-G	For 8 branches		
	CMY-Y1010C-G	For 10 branches		
Twinning kit	CMY-Y100VBK3	For PQHY-P400~P600YSLM-A1		
т мітіпіну кіс	CMY-Y200VBK2	For PQHY-P700~P900YSLM-A1		

Indoor unit

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



Various installation patterns for indoor situations

Ceiling Cassette





Ceiling Concealed





Other Types





Ceiling Cassette Type



Ceiling Concealed Type







Ceiling Cassette Type

4-way airflow ty PLFY-P VEM-F PLFY-EP VEM	PA -E • Line • The • With cont *i.e.,	 Line up expanded up to P140 The airflow pattern can be selected from 4, 3, or 2 directions With the 3D i-see Sensor, "felt temperature* control" is available, contributing to improve comfort/energy efficiency *i.e., the temperature felt by people in the room 					
	3D i Ser	-see Deco nsor Pa	oration anel	Drain Pump	Air Flow Rate 4 types	Fresh air intake usable	
4-way airflow ty PLFY-P VFM-E	e 625 by 2 • With peop com	mm [24 in.] -inch ceiling 3D i-see Se ble in the r fort/energy e	compac system ensor, sm room is fficiency	ct design. F s nart control available,	its perfectly based on the contributing	with 2-inch e number of to improve	
	3D Ser	-see Deco nsor Pa	oration anel	Drain Pump	Air Flow Rate 3 types	Fresh air intake usable	
2-way airflow ty PLFY-P VLMD	pe • Styli -E • The used	sh design w unit has a l d in a corride	vith well t height of or or nari	olended air f 290 mm [row room	inlet 11-7/16 in.]	and can be	
	Deco Pa	ration nel Drair	n Pump	Air Flow Rate 3 types	Fresh air intake usable		
1-way airflow ty PMFY-P VBM- PMFY-P VFM-I	pe • Line • The • dgu • Thin	up expande 1-way air flc es of a room design with	d up to P ow type th n a heigh	80 hat is recom It of 230 mm	nmended to in 1 [9-1/16 in.]	nstall on the	
	Deco Pa	ration nel Drair	n Pump	Air Flow Rate 4 types	Fresh air intake usable		
3D Fsee Sensor The "3D i-see Sensor" built	Highly accura motion detect A total of eight sensors rotate a full 360° in 3-n intervals. In addition to detecting body tempera our original algorithm a	ate tion ninute ature, also	Detects posi and number Detects floor temperature	ition of people	360° Detection 2.7m 7.2m		

into the optional corner panel eliminates uneven temperature distribution and reduces electricity consumption.

detects the number of occupants in the room and their positions.



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Indoor unit

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





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

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



Individual Vane Angle Settings

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



Multi-directional air-conditioning 2-, 3-, 4-way Airflow Pattern Selection Multi-direction 8 5

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

Equipped with High- and Low-ceiling Modes

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



4-way airflow with high-ceiling setting



4-way airflow with standard setting



4-way airflow with low-ceiling setting

Airflow Range

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

Automatic Air-speed Adjustment

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



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



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



3D i-see Sensor

Highly accurate people detection

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





· Detects number of people

Room occupancy energy-saving mode

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

No occupancy energy-saving mode

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

No occupancy Auto-OFF mode

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

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

· Detects people's position

Direct/Indirect settings*

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



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

Room occupancy energy saving mode





No occupancy energy saving mode

No occupancy Auto-OFF mode





*PAR-41MAAM is required for each setting.

<When heating>

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



*PAR-41MAAM is required for each setting.

Seasonal airflow*

comfortable coolness.

Saves energy while keeping a

comfortable effective temperature

by automatically switching between

ventilation and cooling. When a

pre-set temperature is reached, the

air conditioning unit switches to

swing fan operation to maintain the

effective temperature. This clever

function contributes to keeping a

<When cooling>

Floor surface

*In case of a 2.7m ceiling

Easy Installation

Temporary hanging hook

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

No need to remove screws

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

Corner panel

Control box cover





Electrical box wiring

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



Increased space for plumbing work

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



• PLFY-P VEM-PA

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Easy Cleaning

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



Connectable to Plasma Quad Connect*

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

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



Optional Parts

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

Model			PLFY-P32VEM-PA	PLFY-P40VEM-PA	PLFY-P50VEM-PA	PLFY-P63VEM-PA				
Power s	ource				1-phase 220-240V 50Hz/	1-phase 220-230V 60Hz				
Cooling capacity *1 1 *1 B		kW	3.6	4.5	5.6	7.1				
		*1	BTU/h	12,300	15,400	19,100	24,200			
		Power input	kW	0.03	0.03	0.03	0.03			
Current input A		A	0.32	0.32	0.32	0.36				
Heating	capacity	*2	kW	4.0	5.0	6.3	8.0			
-		*2	BTU/h	13,600	17,100	21,500	27,300			
		Power input	kW	0.03	0.03	0.03	0.03			
		Current input	А	0.25	0.25	0.25	0.29			
External	finish	Unit			Galvanized	steel sheet				
(Munsel	l No.)	Panel			MUNSELL (*	1.0Y 9.2/0.2)				
External	dimension	Unit	mm		258 x 840 x 840					
НхW×	D	Panel	mm	40 x 950 x 950						
Net weig	ght	Unit	kg	19 21						
		Panel	kg		5					
Heat exe	changer				Micro slit fin (Aluminu	mfin and copper tube)				
Fan	Type x Q	uantity		Turbo fan x 1						
	Airflow ra	te m³/mir		13-14-16-17	13-14-16-18	13-14-16-19	15-16-17-19			
	(Low-Mid2	-Mid1-High)	L/s	217-233-267-283	217-233-267-300	217-233-267-317	250-267-283-317			
			cfm	459-494-565-600	459-494-565-636	459-494-565-671	530-565-600-671			
	External sta	atic pressure	Pa		0)				
Motor	Туре				DC motor					
	Output		kW		0.050					
Air filter					PP hone	eycomb				
Sound p (Low-Mi	ressure leve d2-Mid1-Hig	el h)	dB (A)	26-27-29-31	26-27-29-31	26-27-29-31	28-29-30-32			
Refriger	ant control d	evice			LE	V				
Diamete	r of	Liquid	mm (in.)		ø6.35 (ø1/4) Flare		ø9.52 (ø3/8) Flare			
refrigera	nt pipe	Gas	mm (in.)		ø12.7 (ø1/2) Flare		ø15.88 (ø5/8) Flare			
Field dra	ain pipe size		mm (in.)		O.D 32	(1-1/4)	· · · ·			

Model				PLFY-P80VEM-PA	PLFY-P100VEM-PA	PLFY-P125VEM-PA	PLFY-P140VEM-PA	PLFY-EP32VEM-E	PLFY-EP50VEM-E	
Power so	ource			1.	phase 220-240V 50Hz	/1-phase 220-230V 60F	łz	1-phase 220-240V 50F	Iz, 1-phase 220V 60Hz	
Cooling capacity		*1	kW	9.0	11.2	14.0	16.0	3.6	5.6	
		*1	BTU/h	30,700	38,200	47,800	54,600	12,300	19,100	
		Power input	kW	0.05	0.07	0.11	0.11	0.11	0.11	
		Current input	A	0.50	0.67	1.06	1.06	0.98	0.98	
Heating	capacity	*2	kW	10.0	12.5	16.0	18.0	4.0	6.3	
		*2	BTU/h	34,100	42,700	54,600	61,400	13,600	21,500	
		Power input	kW	0.05	0.07	0.11	0.11	0.11	0.11	
		Current input	A	0.43	0.60	0.99	0.99	0.93	0.93	
External	finish	Unit				Galvanized	steel sheet			
(Munsell	No.)	Panel				MUNSELL (1.0Y 9.2/0.2)			
External	dimension	Unit	mm	258 x 840 x 840			298 x 840 x 840			
НхWх	D	Panel	mm		40 x 950 x 950					
Net weig	ht	Unit	kg	21	24 26			2	7	
		Panel	kg	5						
Heat exc	hanger			Micro slit fin (Aluminumfin and copper tube) Cross fin (Aluminum fin and copper tube)						
Fan	Type x Qu	uantity				Turbo	fan x 1			
	Airflow rat	e	m³/min	15-18-20-23	20-23-26-29	24-26-30-35	22-27-31-35	22-26-30-34	22-26-30-34	
	(Low-Mid2-	-Mid1-High)	L/s	250-300-333-383	333-383-433-483	400-433-500-583	367-450-517-583	367-433-500-567	367-433-500-567	
			cfm	530-636-706-812	706-812-918-1024	847-918-1060-1236	777-953-1095-1235	777-918-1059-1201	777-918-1059-1201	
	External sta	atic pressure	Pa	0						
Motor	Туре					DC r	notor			
	Output		kW	0.050			0.120			
Air filter						PP hon	eycomb			
Sound pr	ressure leve	:I	dB (A)	28-31-34-37	34-37-39-41	35-39-42-45	36-39-42-45	34-38-42-45	34-38-42-45	
(Low-Mic	2-Mid1-Hig	h)	ub (/ 1)	20010101			000001210	01001210	01.00 12 10	
Refrigera	ant control d	evice	1			LE	EV			
Diameter	of	Liquid	mm (in.)		ø9.52 (ø	3/8) Flare		ø6.35 (ø	1/4) Flare	
retrigera	nt pipe	Gas	mm (in.)		ø15.88 (ø	5/8) Flare		ø12.7 (ø	1/2) Flare	
Field dra	in pipe size		mm (in.)		O.D 32	(1-1/4)		O.D. ø32 (1-	1/4) (VP-25)	

Notes:

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.)
 Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
 PLFY-EP-VEM-E cannot be connected to PUMY.

4-way airflow type

PLFY-P VFM-E1





Beautiful square design

The straight square design matches 2 \times 2 (600 mm \times 600 mm) ceiling construction specifications.

Direct line-based square design enables designs of system ceiling to match the design of direct line type illuminations, thereby creating a beautiful space.



The height above ceiling 245 mm

The height above ceiling of 245 mm is top class in the industry^{*}, and enables fitting into narrow ceiling space.



* As of Aug 2015. Among compact 4-way cassettes for system ceiling. (An incompany investigation.)

3D i-see Sensor



• Highly accurate people detection

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



Compact & light-weight design

The panel weighs 3 kg, and the unit's body weighs 14 kg (P15, P20 and P25 models) or 15 kg (P32, P40 and P50 models). Their weight is 5 kg lighter than the PLFY-VEM-E model, allowing them to be easily suspended.



Floor surface *In case of a 2.7m ceiling

· Detects number of people

Room occupancy energy-saving mode

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

No occupancy energy-saving mode

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

No occupancy Auto-OFF mode

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

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







No occupancy energy saving mode

No occupancy Auto-OFF mode

100







*PAR-41MAAM is required for each setting.

· Detects people's position

Direct/Indirect settings*

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



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

Seasonal airflow* <When cooling>

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

<When heating>

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



*PAR-41MAAM is required for each setting.

Anti-Allergy Enzyme Filter

The optional anti-allergy enzyme filter PAC-SK46KF-E contains artificial enzymes to filter out or reduce the level of bacteria¹¹, viruses⁻², and allergens (pollen)³.

It can be easily added to units that have already been installed^{*4}.

* This is effective against bacteria that are attached to the filter surface for 18 hours and viruses that are attached to the filter surface for 24 hours. However, it does not actively remove them from the room itself.

Anti-bacterial Removes viruses Anti-allergen Removes odors



1. The filter fabric traps bacteria, viruses, and allergens.



I ne trapped allergens are broken down into non-allergen proteins. (Their protein structure is modified)

 The enzymes inside the filter break down the bacteria, viruses, and allergens to reduce their. (Image provided for illustrative purposes only.)

*1: According to tests performed by the Boken Quality Evaluation Institute. Testing procedure: JIS L 1902, Quantitative Test (bacterial solution absorption method). Test number: 006109-1, 2. Target: Two types of bacteria attached to the filter. Test result: At least a 99% reduction after 18 hours compared to untreated fabric. *2: According to tests performed by the Japan Textile Products Quality and Technology Center. Testing procedure: JIS L 1922, Determination of Antiviral Activity of Textile Products. Test number: 19KB060923-1. Target: One type of virus attached to the filter. Test result: At least a 99% reduction after 24 hours compared to untreated fabric. *3: According to tests performed by the Japan Food Research Laboratories. Testing procedure: ELISA method. Test number: No. 10014572002-01. Target: One type of pollen attached to the filter. Test result: At least a 99% reduction. *4: For a list of models that are compatible with this product, please referto the feature page of each indoor unit.

Optional Parts

Description	Model	Applicable models
i-see Sensor corner panel	PAC-SF1ME-E	P15, P20, P25, P32, P40, P50
Wireless signal receiver PAR-SF9FA-E		P15, P20, P25, P32, P40, P50
Anti-allergy enzyme filter	PAC-SK46KF-E	P15, P20, P25, P32, P40, P50

Panel & Corner panel

		With signal Receiver	With 3D i-see Sensor	With New Wireless
	SLP-2FA			
	SLP-2FAL	•		
Papal	SLP-2FAE		•	
Fallel	SLP-2FALE	•	•	
	SLP-2FALM	•		•
	SLP-2FALME	•	•	•
Corpor popol	PAR-SF9FA-E	•		
	PAC-SF1ME-E		•	

Model				PLFY-P15VFM-E1	PLFY-P20VFM-E1	PLFY-P25VFM-E1	PLFY-P32VFM-E1	PLFY-P40VFM-E1	PLFY-P50VFM-E1			
Power so	urce					1-phase 220-240\	/ 50Hz/220V 60Hz					
Cooling c	apacity	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6			
		*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100			
Heating c	apacity	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3			
		*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500			
Power		Cooling	kW	0.02	0.02	0.02	0.02	0.03	0.04			
consumption	tion	Heating	kW	0.02	0.02	0.02	0.02	0.03	0.04			
Current		Cooling	A	0.19	0.21	0.22	0.23	0.28	0.40			
		Heating	A	0.14	0.16	0.17	0.18	0.23	0.35			
External f	inish	Unit				Galvanized	steel sheet					
(Munsell	No.)	Panel				MUNSELL (1.0Y 9.2/0.2)					
Dimensio	n	Unit	mm (in.)			208 x 570 x 570 (8-1	/4 x 22-1/2 x 22-1/2)					
HxWxD)	Panel	mm (in.)			10 x 625 x 625 (3/8	8 x 24-5/8 x 24-5/8)					
Net weigh	nt	Unit	kg (lbs.)		14 (31)			15 (33)				
		Panel	kg (lbs.)		3 (7)							
Heat exch	nanger			Cross fin (Aluminum fin and copper tube)								
Fan	Type x Qu	uantity		Turbo fan x 1								
	Airflow rat	te	m³/min	6.5-7.5-8.0	6.5-7.5-8.5	6.5-8.0-9.0	7.0-8.0-9.5	7.5-9.0-11.0	9.0-11.0-13.0			
	(Lo-Mid-H	li)	L/s	108-125-133	108-125-142	108-133-150	117-133-158	125-150-183	150-183-217			
			cfm	230-265-282	230-265-300	230-282-318	247-282-335	265-318-388	318-388-459			
	External sta	atic pressure	Pa		0							
Motor	Туре					DC r	notor					
	Output		kW		0.05							
Air filter					PP Honeycomb fabric (long life type)							
Refrigerant Gas mm (in.)			mm (in.)	ø12.7 (ø1/2)								
Liquid (Flare) mm (in.)			mm (in.)		ø6.35 (ø1/4)							
Field drai	n pipe dian	neter	mm (in.)			O.D. 32 (1-1/4) (PVC p	ipe VP-25 connectable)					
Sound pre (Lo-Mid-H	essure level li)	*2	dB (A)	26-28-30	26-29-31	26-30-33	26-30-34	28-33-39	33-39-43			

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(96°F)DB Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB *2 It is measured in anechoic room at power source 230V.

2-way airflow type

PLFY-P VLMD-E





Simple panel design

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



Drain pump is equipped as standard feature

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



Vane Control

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

*Airflow direction cannot be changed individually.





Optional Parts

Applicable capacity
I-C P20, P25, P32, P40
I-C P50, P63
W-C P80, P100
W-C P125
F P20, P25, P32, P40, P50, P63, P80, P100

Model				PLFY-P20VLMD-E	PLFY-P25VLMD-E	PLFY-P32VLMD-E	PLFY-P40VLMD-E			
Power so	ource				1-phase 220-240V 50Hz/1-phase 220-230V 60Hz					
Cooling of	capacity	*1	kW	2.2	2.8	3.6	4.5			
		*1	BTU/h	7,500	9,600	12,300	15,400			
Heating	capacity	*1	kW	2.5	3.2	4.0	5.0			
		*1	BTU/h	8,500	10,900	13,600	17,100			
Power		Cooling	kW	0.072/0.075	0.072/0.075	0.072/0.075	0.081/0.085			
consump	tion	Heating	kW	0.065/0.069	0.065/0.069	0.065/0.069	0.074/0.079			
Current		Cooling	А	0.36/0.37	0.36/0.37	0.36/0.37	0.40/0.42			
		Heating	A	0.30/0.32	0.30/0.32	0.30/0.32	0.34/0.37			
External	finish	Unit			Galvanized	steel plate				
(Munsell	No.)	Panel			Pure white (6	6.4Y 8.9/0.4)				
Dimensio	on	Unit	mm (in.)		290 x 776 x 634 (11-	7/16 x 30-9/16 x 25)				
HxWx	D	Panel	mm (in.)		20 x 1080 x 710 (13	3/16 x 42-9/16 x 28)				
Net weig	ht	Unit	kg (lbs.)	23 (23 (51) 24 (53					
		Panel	kg (lbs.)		6.5	(15)				
Heat exc	hanger			Cross fin						
Fan	Type x Qu	antity		Turbo fan x 1						
	Airflow rat	e *2	m³/min		6.5-8.0-9.5		7.0-8.5-10.5			
	(Lo-Mid-H	i)	L/s		108-133-158					
			cfm		230-283-335	247-300-371				
	External sta	atic pressure	Pa		0					
Motor	Туре			1-phase induction motor						
	Output		kW		0.015 (a	t 240V)				
Air filter					PP honeycomb fal	pric (long life type)				
Refrigera pipe diar	int neter	Gas (Flare)	mm (in.)	ø12.7 (ø1/2)						
		Liquid (Flare)	mm (in.)	ø6.35 (ø1/4)						
Field dra	in pipe diam	leter	mm (in.)		O.D.32	(1-1/4)				
Sound pr	essure level	220V, 240V	dB (A)		27-30-33		29-33-36			
(Lo-Mid-l	Hi) *2 *3	230V	dB (A)		28-31-34		30-34-37			

Model				PLFY-P50VLMD-E	PLFY-P63VLMD-E	PLFY-P80VLMD-E	PLFY-P100VLMD-E	PLFY-P125VLMD-E		
Power so	ource				1-phase 22	20-240V 50Hz/1-phase 220-	230V 60Hz			
Cooling	capacity	*1	kW	5.6	7.1	9.0	11.2	14.0		
		*1	BTU/h	19,100	24,200	30,700	38,200	47,800		
Heating	capacity	*1	kW	6.3	8.0	10.0	12.5	16.0		
		*1	BTU/h	21,500	27,300	34,100	42,700	54,600		
Power		Cooling	kW	0.082/0.086	0.101/0.105	0.147/0.156	0.157/0.186	0.28/0.28		
consump	otion	Heating	kW	0.075/0.080	0.094/0.099	0.140/0.150	0.150/0.180	0.27/0.27		
Current		Cooling	A	0.41/0.43	0.49/0.51	0.72/0.74	0.75/0.88	1.35/1.35		
		Heating	A	0.35/0.38	0.43/0.46	0.66/0.69	0.69/0.83	1.33/1.33		
External	finish	Unit				Galvanized steel plate				
(Munsell	No.)	Panel				Pure white (6.4Y 8.9/0.4)				
Dimensio	on	Unit	mm (in.)	290 x 946 x 634 (11	290 x 946 x 634 (11-7/16 x 37-1/4 x 25)		-7/16 x 56-15/16 x 25)	290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)		
НхWх	D	Panel	mm (in.)	20 x 1250 x 710 (1	20 x 1250 x 710 (13/16 x 49-1/4 x 28)		20 x 1750 x 710 (13/16 x 68-15/16 x 28)			
Net weig	ht	Unit	kg (lbs.)	27 (60)	28 (62)	44 (98)	47 (104)	56 (124)		
-		Panel	kg (lbs.)	7.5	(17)	12.5	12.5 (28)			
Heat exc	hanger					Cross fin		· · ·		
Fan	Type x Qu	antity		Turbo	fan x 1 Turbo fa		fan x 2	Sirocco fan x 4		
	Airflow rat	e *2	m³/min	9.0-11.0-12.5	11.0-13.0-15.5	15.5-18.5-22.0	17.5-21.0-25.0	24.0-27.0-30.0-33.0		
	(P50~P100	:Lo-Mid-Hi)	L/s	150-183-208	167-217-258	258-308-367	292-350-417	400-450-500-550		
	(P125:Lo-M	id2-Mid1-Hi)	cfm	318-388-441	353-459-547	547-653-777	618-742-883	848-953-1,059-1,165		
	External sta	tic pressure	Pa			0	0			
Motor	Туре					1-phase induction motor				
	Output		kW	0.020 (a	at 240V)	0.020 (at 240V)	0.030 (at 240V)	0.078 x 2 (at 240V)		
Air filter					PP honeycomb fa	bric (long life type)		Synthetic fiber unwoven cloth filter (long life)		
Refrigera pipe diar	ant neter	Gas (Flare)	mm (in.)	ø12.7 (ø1/2)	ø15.88 (ø5/8)					
		Liquid (Flare)	mm (in.)	ø6.35 (ø1/4)	ø9.52 (ø3/8)					
Field dra	in pipe diam	eter	mm (in.)			O.D.32 (1-1/4)				
Sound pr	essure level	220V, 240V	dB (A)	31-34-37	32-37-39	33-36-39	36-39-42	40-42-44-46		
(Lo-Mid-	Hi) *2 *3	230V	dB (A)	32-35-38	33-38-40	34-37-40	37-41-43	(Lo-Mid2-Mid1-Hi)		

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 27°C(81°F)DB/19°C(66°F)VB, Outdoor 36°C(95°F)DB Heating: Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB *2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high). *3 It is measured in anechoic room.

PMFY-P VBM-E PMFY-P VFM-PA 🚥





PMFY-P VBM-E (P20-P40)

PMFY-P VFM-PA (P50-P80)



Ceiling Mounted

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



Expanded line-up

Optional Parts

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

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

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

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

Drain pump is equipped as stanadard feature

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



mm (in.)

Easy installation (PMFY-P VFM-PA)

Temporary hanging hook

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



Easy access to suspension bolt

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



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

Model		PMFY-P20VBM-E	PMFY-P25VBM-E	PMFY-P32VBM-E	PMFY-P40VBM-E					
Power s	ource				1-phase 220-240V 50Hz/1-phase 220V 60Hz					
Cooling	capacity	*1	kW	2.2	2.8	3.6	4.5			
		*1	BTU/h	7,500	9,600	12,300	15,400			
Heating	capacity	*1	kW	2.5	3.2	4.0	5.0			
		*1	BTU/h	8,500	10,900	13,600	17,100			
Power		Cooling	kW	0.042	0.0	44	0.054			
consum	otion	Heating	kW	0.042	0.0	44	0.054			
Current		Cooling	A	0.20	0.2	21	0.26			
		Heating	A	0.20	0.2	21	0.26			
External	finish (Mun	sell No.)			White (6.4	Y 8.9/0.4)				
Dimensi	on	Unit	mm (in.)		230 x 812 x 395 (9-1	I/16 x 32 x 15-9/16)				
HxWx	D	Panel	mm (in.)	30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)						
Net weig	ht	Unit	kg (lbs.)) 14 (31)						
		Panel	kg (lbs.)		3 (7)				
Heat exc	changer			Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Q	uantity		Line flow fan x 1						
	Airflow ra	te *2	m ³ /min	6.5-7.2-8.0-8.7	7.7-8.7-9.7-10.7					
	(Lo-Mid2-	Mid1-Hi)	L/s	108-120-133-145	108-120-133-145 122-133-143-155 128-145-					
			cfm	230-254-283-307	272-307-343-378					
	External st	atic pressure	Pa		0					
Motor	Туре				1-phase induction motor					
	Output		kW	0.028						
Air filter					PP Honeycomb fabric					
Refrigera pipe diar	ant neter	Gas (Flare)	mm (in.)	.) ø12.7 (ø1/2)						
Liquid (Flare) mm (in.) Ø6.35 (Ø1/4)		(ø1/4)								
Field dra	in pipe dian	neter	mm (in.)		O.D. 2	26 (1)				
Sound p (Lo-Mid2	ressure leve 2-Mid1-Hi)	el *2 *3	dB (A)	27-30-33-35	27-30-33-35 32-34-36-37 33-35-37-					

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

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 27°C(81°F)DB/19°C(66°F)VB, Outdoor 36°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.

Ceiling Concealed







Low static pressure type PEFY-P VMS1(L)-E	 The thin design with a body height of only 200 mm [7-7/8 in.] (all horsepower models) enables installation in a narrow space in the ceiling Low-noise operation Compact body with an external static pressure of up to 50 Pa
· · ·	Static pressure up to 50 Pa Low noise Height 200 mm Drain pump (standard) up to 550 mm Air flow rate 3 stages VMS1 model only
Medium static pressure type PEFY-P VMA(L)-E4 PEFY-P VMA3/4-E	 Thin design of a body height of 250 mm [9-7/8 in.] (all horsepower models) The rear or bottom air inlet can be selected The drain pump is optionally selectable
	Static pressure up to 150 Pa Height 250 mm Rear or bottom inlet Drain pump (standard) up to 700 mm [27.9/16 in.] Air flow rate 3 stages • The maximum value varies depending on the model. VMA model only
High static pressure type PEFY-P VMH(S)-E	 External static pressure of up to 250 Pa^{*1}, ensuring flexible duct design Applicable to drain pumps (option) from 550 mm [21-11/16 in.] to up to 700 mm [27-9/16 in.]
	Static pressure up to 250 Pa Drain pump option up to 700 mm [27.9/16 in.] Air flow rate 3 stages*2 *1 The maximum value varies depending on the model. *2 Except VMH Models.
Fresh air intake type PEFY-P VMHS-E-F	 Controllable outlet air temperature Fresh air intake type indoor unit Usable with external static pressures of up to 250 Pa, and available with three different types of air flow
	Controllable outlet air temperatureStatic pressure up to 250 PaDrain pump option up to 700 mm [27.9/16 in.]Fresh air intake typeAir flow rate 3 stage
Fresh air intake type PEFY-P VMH-E-F	 Fresh air intake type indoor unit External static pressure of up to 240 Pa* expands duct design possibilities * P140 model 240 V
	Static pressure up to 240 Pa Drain pump option up to 550 mm [21-11]/15 in.] Fresh air intake type Air flow rate 1 stage * The maximum value varies depending on the model.
Low noise type PEFY-P VMR-E-L/R	 Low noise operation. Suitable for spaces where low noise is required such as hotels The rear or bottom air inlet can be selected The piping connection position can be selected according to the room layout
	Static pressure 5 PaLow noiseRear or bottom inletRight/Left Piping connectionAir flow rate 3 stages



Compact design with a height of only 200 mm [7-7/8 in.] (all models) and a width of 790 mm [31-1/8 in.] (P15 to P32), 990 mm [39 in.] (P40 and P50), or 1190 mm [46-7/8 in.] (P63)

Thin body design with a height of only 200 mm [7-7/8 in.] (all models) enables installation in a narrow space in the ceiling.

PEFY-P VMS1(L)-E		P15	P20	P25	P32	P40	P50	P63
Height mm [in.]				20	00 [7-7/	8]		-
Width	mm [in.]		790 [3			990	[39]	1190 [46-7/8]

Low-noise design

The centrifugal fan and coil are designed to reduce noise, making these models suitable for spaces where quietness is required.

Sound pressure level table (Standa	ard static pressure) at 15 Pa dB(A
	· · · · · · · · · · · · · · · · · · ·

	Capa	city	P15	P20	P25	P32	P40	P50	P63
Sound	Fan Speed	High	28	29	30	32	33	35	36
Level		Mid	24	25	26	27	30	32	33
		Low	22	23	24	24	28	30	30



Selectable external static pressure

The unit may have a compact body, but its external static pressure can be up to 50 Pa.

The external static pressure can be selected from 5, 15, 35 and 50 Pa.

(The factory default is 15 Pa.)

Models with and without drain pump are available

PEFY-P VMS1 is provided with a drain pump as standard and does not require a drain trap. PEFY-P VMS1L which is model without drain pump is recommended for places where low-noise operation is required (i.e. hotels)



Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment is required.

Optional Parts

Description	Model	Applicable capacity
Drain pump*1	PAC-KE07DM-E	P15, 20, 25, 32, 40, 50, 63
Control box replace kit	PAC-KE70HS-E	P15, 20, 25, 32, 40, 50, 63
Plasma quad connect*2	MAC-100FT-E	P15, 20, 25, 32, 40, 50, 63
PQ attachment*2	PAC-HA11PAR	P15, 20, 25, 32, 40, 50, 63

*1 For PEFY-VMS1L only

*2 Plasma quad connect (MAC-100FT-E) should be used together with PQ attachment.

Model	Model			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 so	ource					1-phase 220-2	40V 50Hz/1-phase 2	20-240V 60Hz		
Cooling	capacity	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
		*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200
Heating	capacity	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
		*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500	27,300
Power		*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]
consump	otion	Heating	kW	0.03 [0.03]	0.03 [0.03]	0.04 [0.04]	0.05 [0.05]	0.05 [0.05]	0.07 [0.07]	0.07 [0.07]
Current		*3 Cooling	A	0.42 [0.31]	0.47 [0.36]	0.50 [0.39]	0.50 [0.39]	0.56 [0.45]	0.67 [0.56]	0.72 [0.61]
		Heating	A	0.31 [0.31]	0.36 [0.36]	0.39 [0.39]	0.39 [0.39]	0.45 [0.45]	0.56 [0.56]	0.61 [0.61]
External	finish						Galvanized			
Dimensio	on H x W >	< D	mm		200 x 7	90 x 700		200 x 99	90 x 700	200 x 1,190 x 700
in.				7-7/8 x 31-1	/8 x 27-9/16	7-7/8 x 39	x 27-9/16	7-7/8 x 46-7/8 x 27-9/16		
Net weight *3 kg (lbs.)				19 (42) [18 (40)]		20 (45) [19 (42)]	24 (53)	[23 (51)]	28 (62) [27 (60)]	
Heat exc	hanger					Cross fin (A	Aluminium fin and co	opper tube)		
Fan	Type x 0	Type x Quantity			Sirocco	fan x 2	Sirocco	fan x 3	Sirocco fan x 4	
	Airflow r	ate	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
	(Lo-Mid-	-Hi)	L/s	83-100-117	91-108-133	91-117-150	100-133-167	133-158-183	158-183-217	200-233-275
			cfm	176-212-247	194-229-282	194-247-317	212-282-353	282-335-388	335-388-459	424-494-583
	External	static pressure	Pa				5-15-35-50			
Motor	Туре						DC motor			
	Output		kW				0.096			
Air filter						PP Ho	neycomb fabric (was	shable)		
Refrigera	Refrigerant Gas mm (in.)					ø12.7 (ø1	/2) Brazed			ø15.88 (ø5/8) Brazed
pipe diar	pipe diameter Liquid mm					ø6.35 (ø1	/4) Brazed			ø9.52 (ø3/8) Brazed
Field dra	in pipe dia	meter	mm (in.)				O.D. 32 (1-1/4)			
Sound pressure level (Lo-Mid-Hi) (measured in anechoic roo		vel hoic room)	dB (A)	22-24-28	23-25-29	24-26-30	24-27-32	28-30-33	30-32-35	30-33-36

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor : 27°CD.B./19°CW.B.(81°FD.B./66°FW.B.) Outdoor : 35°CD.B.(95°FD.B.) Heating : Indoor : 20°CD.B.(88°FD.B.) Outdoor : 7°CD.B./6°CW.B.(45°FD.B./43°FW.B.) Pipe length : 7.5m(24-9/16t) Height difference : 0m(0ft)
 *2 The external static pressure is set to 15 Pa at factory shipment.
 *3 [] is in case of PEFY-P15-63VMS1L-E

Medium static pressure type

PEFY-P VMA(L)-E4 **PEFY-P VMA3/4-E**



PEFY-P VMA(L)-E4



Less power consumption

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

Comparison of energy consumption in cooling operation



pressure of 50 Pa

External static pressure is settable up to 150 Pa (VMA(L)-E4/VMA4-E)

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

External static pressure settings

Series	20	25	32	40	50	63	71	80	100	125	140
PEFY-P VMA(L)-E4	3	35/50	/70/1	00/1	50 Pa	a	40/	50/7	0/100)/150	Ра

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

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





Air inlet direction can be easily changed

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

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



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

Drain pump is optionally selectable

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



PEFY-P VMAL-E4 No drain pump

Built-in drain pump PEFY-P VMA-E4, PEFY-P-VMA3/4-E No drain pump PEFY-P VMAL-E4 Less than 300 mm **Drain pump ensures** a lifting height of up to 700 mm.

Large air volume model is available (VMA3/VMA4)

The VMA3/4 lineup offers a selection of models with a larger air volume.

High power fan speed mode [VMA(L)-E4/VMA4-E]

This start-up mode is run with the increased fan speed for a maximum of 15 minutes to rapidly cool or heat the space (after the first Thermo-ON operation).

- *1. Power consumption and sound pressure level will increase in this mode.
- *2. High power fan speed mode is not available when the external static pressure is set to 150 Pa.
- *3. PAR-41MAA, PAR-U02MEDA, PAR-CT01MAA-S or PAC-YT52CRA is required for this setting. See the instructions and installation manuals for details.

Internal dry mode [VMA(L)-E4/VMA4-E]

To dry the heat exchanger (HEX), the unit will operate in the fan mode at high speed after cooling or drying operation has stopped. The drying time is selectable from 30 or 60 minutes.

- *1. PAR-41MAA, PAR-U02MEDA, PAR-CT01MAA-S or PAC-YT52CRA is required for this setting. See the instructions and installation manuals for details.
- *2. Air blowing noise is heard during the internal dry operation.
- *3. To cancel the internal dry operation, start and stop the unit operation within 3 minutes.

*4. When using AE-200E's apportioned electricity billing function to apportion electricity consumption of indoor units, do not use the internal dry operation function of indoor units.

•PAR-41MAAM

XX.

At

I S V

Room 28.5 TO 10

28.5℃ -

■Operating Sample



* Under norminal cooling conditions (Indoor) (27°CD.B./19°CW.B.)

* Results will vary depending on indoor temperature and humidity conditions.

Connectable to Plasma Quad Connect [PEFY-P VMA(L)-E4]

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment or PQ box is required.

Optional Parts

Description	Madal	Applicable ca	Applicable capacity							
Description	Model	VMA (L)	VMA4	VMA3						
	PAC-KE91TB-E	P20, P25, P32	-	-						
	PAC-KE92TB-E	P40, P50, P63	P20	P20						
Filter box	PAC-KE93TB-E	P71, P80	P25, P32, P40	-						
	PAC-KE94TB-E	P100, P125	-	-						
	PAC-KE95TB-E	P140	P50, P63, P71	-						
Plasma Quad Connect*	MAC-100FT-E	P20, P25, P32, P40, P50, P63, P71, P80, P100, P125	-	_						
PQ attachment (Rear inlet)*	PAC-HA31PAR	P20, P25, P32, P40, P50, P63, P71, P80, P100, P125	-	-						
PQ attachment (Bottom inlet)*	PAC-HA31PAU	P20, P25, P32, P40, P50, P63, P71, P80, P100, P125	-	_						
	PAC-KE91PTB-E	P20, P25, P32	-	-						
	PAC-KE92PTB-E	P40, P50, P63	-	_						
PQ box*	PAC-KE93PTB-E	P71, P80	-	-						
	PAC-KE94PTB-E	P100, P125	-	_						
	PAC-KE95PTB-E	P140	-	-						

*High power fan speed mode can be displayed only with PAR-41MAA and PAR-CT01MAA-S.

*Plasma Quad Connect (MAC-100FT-E) should be used together with PQ attachment or PQ box

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

Model			PEFY-P20VMA(L)-E4	PEFY-P25VMA(L)-E4	PEFY-P32VMA(L)-E4	PEFY-P40VMA(L)-E4	PEFY-P50VMA(L)-E4	PEFY-P63VMA(L)-E4
Power sou	rce				1-phase 220-230	-240 V 50/60 Hz		
Cooling ca	pacity *1	kW	2.2	2.8	3.6	4.5	5.6	7.1
(Nominal)	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
	Power input *2	kW	0.032 [0.030]	0.032 [0.030]	0.044 [0.042]	0.047 [0.045]	0.066 [0.064]	0.087 [0.085]
	Current input *2 (220-230-240 V)	A	0.26 - 0.25 - 0.24	0.26 - 0.25 - 0.24	0.36 - 0.34 - 0.33	0.39 - 0.37 - 0.36	0.53 - 0.51 - 0.49	0.69 - 0.66 - 0.63
Heating ca	pacity *3	kW	2.5	3.2	4.0	5.0	6.3	8.0
(Nominal)	*3	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
	Power input *2	kW	0.030	0.030	0.042	0.045	0.064	0.085
	Current input *2 (220-230-240 V)	А	0.26 - 0.25 - 0.24	0.26 - 0.25 - 0.24	0.36 - 0.34 - 0.33	0.39 - 0.37 - 0.36	0.53 - 0.51 - 0.49	0.69 - 0.66 - 0.63
External fir	nish				Galvanized	steel plate		
External di	mension	mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 900 x 732	250 x 900 x 732
HxWxD		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8
Net weight		kg (lbs)	21.5 (49) [21 (47)]	21.5 (49) [21 (47)]	21.5 (49) [21 (47)]	26 (58) [25.5 (58)]	26 (58) [25.5 (58)]	27 (60) [26.5 (60)]
Heat excha	anger				Cross fin (Aluminum	fin and copper tube)		
FAN	Type x Quantit	ty	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External	Pa 35 - <50> - <70		35 - <50> - <70> -	35 - <50> - <70> -	35 - <50> - <70> -	35 - <50> - <70> -	35 - <50> - <70> -
	static press. *4	га	<100> - <150>	<100> - <150>	<100> - <150>	<100> - <150>	<100> - <150>	<100> - <150>
	Motor Type				DC n	notor		
	Motor output	kW	0.085	0.085	0.085	0.121	0.121	0.121
	Air flow rate	m ³ /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
	(Lo-Mid-Hi)	L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	200 - 242 - 283	225 - 267 - 317
		cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	424 - 512 - 600	477 - 565 - 671
Sound pres (measured in (Lo-Mid-Hi	ssure level anechoic room)) *2 *5	dB <a>	22.0 - 26.0 - 28.0	22.0 - 26.0 - 28.0	24.0 - 28.0 - 31.0	24.0 - 29.0 - 32.0	25.0 - 32.0 - 35.0	28.0 - 32.0 - 36.0
Air filter					PP honeyc	omb fabric.		
Refrigerant	Liquid (R410A)	mm (in.)	6.35 (1/4) Brazed	9.52 (3/8) Brazed				
piping diameter	Gas (R410A)	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed				
Field drain	pipe size	mm (in.)	O.D.32 (1-1/4)					

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

Notes:

Notics:
*1 Nominal cooling conditions Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*2 The values are measured at the factory setting of external static pressure.
*3 Nominal heating conditions Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
*4 The factory setting of airflow mode and external static pressure mode is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
*5 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

Model				PEFY-P20VMA3/4-E		PEFY-P2	5VMA4-E		PEFY-P32VMA4-E	
Power sou	urce					1-phase 220-230)-240 V 50/60 Hz			
Cooling ca	apacity	*1	kW	2.2		2.	.8		3.6	
		*1	BTU/h	7,500		9,6	000		12,300	
*2	Power inp	out	kW	0.087 [0.110] *6		0.0	080		0.080	
*2 Current input (220-230-240 V) Heating capacity *			А	0.69-0.66-0.63 [0.90] *6	3	0.60-0.5	57-0.55		0.60-0.57-0.55	
Heating ca	apacity	*3	kW	2.5		3.	.2		4.0	
		*3	BTU/h	8,500		10,900			13,600	
*2	Power inp	out	kW	0.085 [0.090] *6		0.078			0.078	
*2	(220-230-	240 V)	A	0.69-0.66-0.63 [0.79] *6	6	0.60-0.	57-0.55		0.60-0.57-0.55	
External fi	nish	1				Galvanized	I steel plate			
External d	limension l	H x W x D	mm	250 x 900 x 732		250 x 1,1	00 x 732		250 x 1,100 x 732	
Naturaish			In.	9-7/8 x 35-7/16 x 28-7/8	3	9-7/8 x 43-5	/16 x 28-7/8		9-7/8 x 43-5/16 x 28-7/8	
Heat exch	anger		kg (ibs.)	27 (00)		Cross fin (Aluminum	fin and conner tube)		30 (07)	
Fan	Type x Q	Jantity		Sirocco fan x 2 [x 1] *6		Sirocco	fan x 2		Sirocco fan x 2	
*4	External	static	De	35-<50>-<70>-<100>-<15	60>	40 (50) (70)	1400- 1450-	40		
	press.		Ра	[<35>-50-<70>-<100>-<125	>] *6	40-<50>-<70>	-<100>-<150>	40	-<50>-<70>-<100>-<150>	
			mmH₂O	3.6-<5.1>-<7.1>-<10.2>-<1 [<3.6>-5.1-<7.1>-<10.2>-<12	5.3> .7>1*6	4.1-<5.1>-<7.1>	-<10.2>-<15.3>	4.1-	<5.1>-<7.1>-<10.2>-<15.3>	
	Motor Typ	be				DC n	notor			
	Motor out	out	kW	0.121 [0.085] *6		0.1	21		0.121	
	Air flow ra	ite		(Low-Mid-High)		(Low-M	id-High)		(Low-Mid-High)	
			m³/min	13.5 - 16.0 - 19.0 [12.0 - 14.5 -	17.0] *6	14.5 - 18	3.0 - 21.0		14.5 - 18.0 - 21.0	
			L/s	225 - 267 - 317 [200 - 242 - 2	83] *6	242 - 30	00 - 350		242 - 300 - 350	
			cfm	477 - 565 - 671 [424 - 512 - 6	6* [00	512 - 63	36 - 742		512 - 636 - 742	
Sound pre (measure	essure leve	el bic room)		(Low-Mid-High)		(Low-M	id-High)		(Low-Mid-High)	
		*2	dB <a>	28.0-32.0-36.0 [30.0-35.0-39	0.0] *6	26.0-32	2.0-35.0	26.0-32.0-35.0		
Air filter						PP honeycomb fabric.				
Refrigerar piping dia	nt meter	Gas (R410A)	mm (in.)	12.7 (1/2)Brazed		12.7 (1/2	2)Brazed		12.7 (1/2)Brazed	
		Liquid (R410A)	mm (in.)	6.35 (1/4)Brazed		6.35 (1/4	4)Brazed		6.35 (1/4)Brazed	
Field drain	n pipe dian	neter	mm (in.)	O.D.32 (1-1/4")		O.D.32	(1-1/4")		O.D.32 (1-1/4")	
Model					DE			4 5		
WOUEI				FEI I-F40VIIIA4-E	F EI	1-F 30 V WIA4-L		(+-L	FEI I-F/IVWA4-E	
Power sou	urce					1-phase 220-230)-240 V 50/60 Hz			
Cooling ca	capacity *1		KVV DTU/b	4.5		5.6 7.1			8.0	
*2	Power inr	ut I	k/W	0.080	0.208		0.208		0.208	
*2	Current in	put		0.000		0.200	0.200		0.200	
	(220-230-	240 V)	A	0.60-0.57-0.55	1	.40-1.34-1.28	1.40-1.34-1.2	8	1.40-1.34-1.28	
Heating ca	apacity	*3	kW	5.0		6.3	8.0		9.0	
	-	*3	BTU/h	17,100		21,500	27,300		30,700	
*2	Power inp	out	kW	0.078	0.206		0.206		0.206	
-2	(220-230-	240 V)	A	0.60-0.57-0.55	1	.40-1.34-1.28	1.40-1.34-1.2	28	1.40-1.34-1.28	
External fi	nish	2.001)				Galvanized	steel plate			
External d	limension l	H x W x D	mm	250 x 1,100 x 732	250) x 1,600 x 732	250 x 1,600 x 1	732	250 x 1,600 x 732	
			in.	9-7/8 x 43-5/16 x 28-7/8	9-7	/8 x 63 x 28-7/8	9-7/8 x 63 x 28	-7/8	9-7/8 x 63 x 28-7/8	
Net weigh	t		kg (lbs.)	30 (67)		41.5 (93)	41.5 (93)		41.5 (93)	
Heat exch	langer			Oire and fam is O	0	Cross fin (Aluminum	fin and copper tube)	0	Oire and fair is 0	
Fan *4	Type x Q	Jantity	Bo		S	100000 Tan X 3	SIFOCCO TAIL X	3		
4	press	sidiic	ra mmH₀O	40-<50-<70-<100-<150-	<402-00	-<7 1>-<10 2>-<15 3>	<4 1>-5 1-<7 1>-<100	2>-<15.3>	<4 1>-5 1-<7 1>-<10 2>-<15 3>	
	Motor Typ)e	11111120	4.1-30.12-31.12-310.22-310.02	SH. 12-0.1	DC n	notor	2	S4.12-5.1-51.12-510.22-515.52	
	Motor out	out	kW	0.121		0.300	0.300		0.300	
	Air flow ra	ite		(Low-Mid-High)	(L	.ow-Mid-High)	(Low-Mid-Hig	h)	(Low-Mid-High)	
			m³/min	14.5 - 18.0 - 21.0	29	.5 - 35.5 - 40.0	29.5 - 35.5 - 4	0.0	29.5 - 35.5 - 40.0	
			L/s	242 - 300 - 350	49	92 - 592 - 667	492 - 592 - 66	67	492 - 592 - 667	
			cfm	512 - 636 - 742	1,04	2 - 1,254 - 1,412	1,042 - 1,254 - 1	,412	1,042 - 1,254 - 1,412	
(measure	d in anech	pic room)		(Low-Mid-High)	(L	ow-Mid-High)	(Low-Mid-Hig	h)	(Low-Mid-High)	
		*2	dB <a>	26.0-32.0-35.0	3	4.0-38.0-41.0	34.0-38.0-41	.0	34.0-38.0-41.0	
Air filter						PP honeyc	omb fabric.			
Retrigerar piping dia	nt meter	Gas (R410A)	mm (in.)	12.7 (1/2)Brazed	12	.7 (1/2)Brazed	15.88 (5/8)Bra:	zed	15.88 (5/8)Brazed	
		Liquid (R410A)	mm (in.)	6.35 (1/4)Brazed	6.3	35 (1/4)Brazed	9.52 (3/8)Braz	ed	9.52 (3/8)Brazed	
Field drain pipe diameter		neter	mm (in.)	O.D.32 (1-1/4")	0	.D.32 (1-1/4")	O.D.32 (1-1/4	+")	O.D.32 (1-1/4")	

Notes:

- NOTES:
 *1 Nominal cooling conditions Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
 *2 The values are measured at the factory setting of external static pressure.
 *3 Nominal heating conditions Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
 *4 The factory setting of external static pressure is shown without <>. Refer to 'Fan characteristics curves', according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
 *5 Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.
 *6 The figures in [] show the specification values of PEFY-P20VMA3-E.



Sufficient external static pressure ensuring flexible duct design

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

PEFY-P VMHS	P40	P50	P63	P71	P80	P100	P125	P140
External static pressure (Pa)	50 - <100> - <150> - <200>							
PEFY-P VMHS-E		P200 P250						
External static pressure (Pa)	<50)> - <	100>	- 15	0 - <2	200> -	- <25	0>*

* The rated external static pressure is shown without < >



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

Low Power Consumption and Weight by DC motor(VMHS)

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





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

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



mm (in.)

Optional Parts

Description	84	Applicabl	e capacity	Demontos
Description	Model	VMH-E	VMHS-E	Remarks
	PAC-KE04DM-F	P200, P250	-	
Drain pump	PAC-KE05DM-F	-	P200, P250	
	PAC-DRP10DP-E2	-	P40-P140	
	PAC-KE86LAF	-	P40, P50, P63	
Long life filter	PAC-KE88LAF	-	P71, P80	
Long me men	PAC-KE89LAF	-	P100, P125, P140	
	PAC-KE85LAF	P200, P250	P200, P250	
	PAC-KE63TB-F	-	P40, P50, P63	
Filtor box	PAC-KE99TB-F	-	P71, P80	Required when long
T III.EI DOX	PAC-KE140TB-F	-	P100, P125, P140	life filter is used
	PAC-KE250TB-F	P200, P250	P200, P250	

Model				PEFY-P40VMHS-E	PEFY-P50VMHS-E	PEFY-P63VMHS-E	PEFY-P71VMHS-E	PEFY-P80VMHS-E	PEFY-P100VMHS-E	PEFY-P125VMHS-E	PEFY-P140VMHS-E	
Power sou	urce						1-phase 220-230	0-240 V 50/60 Hz				
Cooling ca	apacity	*1	kW	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
		*1	BTU/h	15,400	19,100	24,200	27,300	30,700	38,200	47,800	54,600	
*2	Power in	out	kW	0.0	155	0.090	0.075	0.090	0.1	60	0.190	
2	(220-230	-240 V)	A	0.41-0.	39-0.38	0.64-0.62-0.59	0.54-0.52-0.50	0.63-0.61-0.58	1.05-1.	01-0.96	1.24-1.19-1.14	
Heating ca	apacity	*3	kW	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
		*3	BTU/h	17,100	21,500	27,300	30,700	34,100	42,700	54,600	61,400	
*2	Power in	out	kW	0.0	155	0.090	0.075	0.090	0.1	60	0.190	
2	(220-230	1pul -240 V)	A	0.41-0.	39-0.38	0.64-0.62-0.59	0.54-0.52-0.50	0.63-0.61-0.58	1.05-1.	01-0.96	1.24-1.19-1.14	
External fi	inish					Galvanized steel plate					1	
External d	limension	HxWxD	mm		380 x 745 x 900		380 x 1,0	030 x 900		380 x 1,195 x 900)	
			in.	15	5 x 29-3/8 x 35-7/	16	15 x 40-9/1	l6 x 35-7/16	15	x 47-1/16 x 35-7/	(16	
Heat exch	li		Kg (IDS.)		35 (78)	Cr	45 (Aluminum)	(100) i fin and conner tu	51 (113)	53 (117)	
Fan	Tvpe x Q	uantity			Sirocco fan x 1				Sirocco fan x 2			
*4	External	static	Pa				50-<100>-<	:150>-<200>				
	press.		mmH ₂ O				5.1-<10.2>-<	15.3>-<20.4>				
	Motor Ty	pe					DC r	motor	1			
	Motor out	put	kW		0.121		0.2 (Low M	244 lid High)		0.375		
	All HOW 16	ale	m ³ /min	10.0-12	0-14.0	13 5-16 0-19 0	15 5-18 0-22 0	18 0-21 5-25 0	26.5-32	2 0-38 0	28 0-34 0-40 0	
			L/s	167-20	00-233	225-267-317	258-300-367	300-358-417	442-53	467-567-667		
			cfm	353_4'	24_494	477-565-671	547-636-777	636-750-883	936-1.1	30-1 342	989-1,201-	
Courd				000-42		411 000-011	311 000-111	000 100-000	330-1,1		1,412	
(measure	d in anech	oic room)				1	(Low-M	lid-High)				
		*0	dB <a>	20-2	3-27	24-27-32	24-26-30	25-27-30	27-3	1-34	27-32-36	
Air filter		2			Option:Sv	on:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recomme						
Refrigerar	nt	Gas	mana (im.)	10 7 (1/5	Dremed			15 00 (5/0) Drozod				
piping dia	piping diameter (R410A)			12.7 (1/2				10.00 (0/				
(R410A)			mm (in.)	6.35 (1/4) Brazed			9.52 (3/8	3) Brazed			
Field drain pipe diameter mm (in							O.D.32	2 (1-1/4)				
						1						
Model				PEFY-P2	00VMH-E	PEFY-P2	50VMH-E	PEFY-P20	0VMHS-E	PEFY-P25	50VMHS-E	
Power sou	urce			3-pha	se 380-415V 50H	lz/3N ~ 380-415V	60Hz	1-phase	e 220-240V 50Hz	/1-phase 220-240	V 60Hz	
Cooling ca	apacity	*5	kW	22	2.4	28	3.0	22	2.4	28	3.0	
		*5	BTU/h	76,	400	95,	500	76,	400	95,	500	
Heating ca	apacity	*5	kW	25.0		31.5		25	5.0	31	.5	
Power		Cooling	kW	85,300		1.23/1.41		0.63 *2		0.8	,500 2 *2	
consumpt	ion	Heating	kW	0.99/1.14		1.23/1.41		0.6	3 *2	0.8	2 *2	
Current	Cooling	380-415V	A	1.62	/1.86	2.00/2.30				-		
		220-230-240V	A		-	-		3.47-3.32-3.18 *2		4.72-4.43-4.14 *2		
	Heating	380-415V	A	1.62	1.86	2.00/2.30		2 47 2 2	-			
External fi	 inish	220-230-2401	A		Galva	anized		Galvanized steel plate				
Dimension	n H x W x	D	mm				470 x 1,2	50 x 1,120				
			in.				18-9/16 x 49	9-1/4 x 44-1/8				
Net weigh	it		kg (lbs.)		100	(221)	fin (Alexanin and	97 (214)	100	(221)	
Heat exch	Type x O	uantity				Cross	Tin (Aluminum pi	ate fin and copper	tube)			
i un	Airflow ra	te	m³/min	58	8.0	72	2.0		-	_		
			L/s	96	67	12	00		-	-		
			cfm	20	48	25	43		-			
		Lo-Mid-Hi	m³/min			-		50.0-61	1.0-72.0	58.0-71	1.0-84.0	
			L/S cfm					1766-21	54-2542	2048-25	07-2966	
	External	380V	Pa		110 ·	220 *6		1100 21			2000	
	static	400, 415V	Pa		130 ·	260 *6			-			
	pressure		Pa		-	_			<50>-<100>-150	-<200>-<250> *9	-	
Mater Turne					- O nhooo ind			<	:5.1>-<10.2>-15.3	-<20.4>-<25.5> *	9	
Output k				0.7	3-phase ind		8 *7			87		
Air filter (option)				Synth	ethic fiber unwov	en cloth filter (lon	g life)	Synthethic fiber unv	voven cloth filter (long	life filter) and filter bo	x are recommended.	
Refrigerar	nt	Gas	mm (in)	Ø19.0F	(ø3/4)	a22.2	(ø7/8)	Ø19.0F	5 (ø3/4)	a22.2	(ø7/8)	
piping dia	meter	(Brazing)	()	19.00		022.2	(27/0)	19.00	(2017)	022.2	(27/0)	
		(Brazing)	mm (in.)				ø9.52	(ø3/8)				
Field drain pipe diameter mm				40 (1400-) (1	E (220Da) *0	50 (440D-) /	O.D. 32	2 (1-1/4)				
sound pre	essure	380V 400 415\/	dB (A)	42 (110Pa)/4 44 (130Pa)/4	7 (220Pa) *8	52 (130Pa)/5	54 (220Pa) *8					
		Lo-Mid-Hi	dB (A)		. (2001 0) 0	- 02 (150F a)/C		36-39-	43 *10	39-42-	46 *10	

Notes:

- 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.)
 The values are measured at the factory setting of external static pressure.
 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.)
 The factory setting of external static pressure is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- *5 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(61°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB
 Heating Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB
 *6 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
 *7 The value are that at 415V.
 *8 It is measured in anechoic room.
 *9 The rated external static pressure is shown without < >. The factory setting is the rated value.
 *10 It is measured at the rated external static pressure in anechoic room.

PEFY-P VMHS-E-F



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

Enables Intake of Outside Air

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

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



Controllable Outlet Air Temperature

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

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

Equipped with DC Fan Motor

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

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



Flexible Air-Flow Setting

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

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

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

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

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

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

Drain Pump (Optional)

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



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

mm (in.)

Optional Parts

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

Model		PEFY-P125	WMHS-E-F	IHS-E-F PEFY-P200VMHS-E-F		PEFY-P250VMHS-E-F *6			
Power source		1-phase 220-230-240 V 50/60 Hz		1-phase 220-230-240 V 50/60 Hz		1-phase 220-230-240 V 50/60 Hz			
Cooling capacity *1 kW		14.0		22.4		28.0			
(Nominal)	*1	BTU/h	47,800		76,	400	95,	500	
*2 Power input		kW	0.220		0.260		0.350		
	*2 Current input (220 V)	А	1.4	43	1.	66	2.	2.16	
Temp. range of co	oling		17°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 17°CD.B.		17°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 17°CD.B.		17°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 17°CD.B.		
Heating capacity	*3	kW	8	.9	13	3.9	17	7.4	
(Nominal)	*3	BTU/h	30,4	400	47,	400	59,	400	
	*2 Power input	kW	0.2	30	0.2	270	0.3	360	
:	*2 Current input (220 V)	А	1.52		1.3	85	2.	38	
Temp. range of he	ating		-10°CD.B. * Thermo-off (FAN-mode outdoor temperature is	~ 20°CD.B.) automatically starts if the higher than 20°CD.B.	-10°CD.B. * Thermo-off (FAN-mode outdoor temperature is	~ 20°CD.B.) automatically starts if the higher than 20°CD.B.	-10°CD.B. ~ 20°CD.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CD B		
External finish			Galvanized		Galvanized		Galvanized		
External dimension HxWxD mm		380 x 1,195 x 900		470 x 1,250 x 1,120		470 x 1,250 x 1,120			
in.		15 x 47-1/16 x 35-7/16		18-9/16 x 49-1/4 x 44-1/8		18-9/16 x 49-1/4 x 44-1/8			
Net weight kg (lbs.)		49 (109)		78 (172)	81 (179)			
Heat exchanger			Cross fin (Aluminum fin and copper tube)		Cross fin (Aluminum	fin and copper tube)	Cross fin (Aluminum	fin and copper tube)	
FAN	Type x Qu	antity	Sirocco fan x 1		Sirocco	fan x 2	Sirocco fan x 2		
*4,	5 External	Pa	<100> - <150> - 200 - <250>		<100> - <150>	- 200 - <250>	<100> - <150>	- 200 - <250>	
	static press.	mmH ₂ O	<10.2> - <15.3>	- 20.4 - <25.5>	<10.2> - <15.3>	- 20.4 - <25.5>	<10.2> - <15.3>	- 20.4 - <25.5>	
	Motor Type		DC motor		DC r	notor	DC r	notor	
	Motor output	kW	0.2	0.244		375	0.3	375	
	Driving me	chanism	Direct-drive	en by motor	Direct-drive	en by motor	Direct-driven by motor		
*4,	5 Air flow rate		Normal-airflow rate mode	<high-airflow mode="" rate=""></high-airflow>	Normal-airflow rate mode	<high-airflow mode="" rate=""></high-airflow>	Normal-airflow rate mode	<high-airflow mode="" rate=""></high-airflow>	
	(Low-Mid-	m³/min	14.0 - 15.5 - 18.0	15.5 - 18.0 - 20.0	22.5 - 25.0 - 28.0	25.0 - 28.0 - 32.0	28.0 - 31.0 - 35.0	31.0 - 35.0 - 40.0	
	High)	L/s	233 - 258 - 300	258 - 300 - 333	375 - 417 - 467	417 - 467 - 533	467 - 517 - 583	517 - 583 - 667	
		cfm	494 - 547 - 636	547 - 636 - 706	794 - 883 - 989	883 - 989 - 1,130	989 - 1,095 - 1,236	1,095 - 1,236 - 1,412	
Sound pressure level (I	measured in ane	choic room)	Normal-airflow rate mode	<high-airflow mode="" rate=""></high-airflow>	Normal-airflow rate mode	<high-airflow mode="" rate=""></high-airflow>	Normal-airflow rate mode	<high-airflow mode="" rate=""></high-airflow>	
(Low-Mid-High)	*2	dB <a>	34-37-41	36-40-42	35-38-41	36-39-42	38-40-44	38-41-45	
Air filter			Option: Synthetic fiber unwov	ven cloth filter (long life filter).	Option: Synthetic fiber unwoven cloth filter (long life filter).		Option: Synthetic fiber unwo	ven cloth filter (long life filter).	
Refrigerant piping diameter Liquid (R410A) mm (in.)		9.52 (3/8) Brazed		9.52 (3/8) Brazed		9.52 (3/8) Brazed			
Gas (R410A) mm (in.) 15.88 (5/8) Brazed		19.05 (3/4) Brazed		22.22 (7/8) Brazed					
Field drain pipe siz	ze	mm (in.)	O.D.32	(1-1/4)	O.D.32	(1-1/4)	O.D.32	(1-1/4)	
Optional parts	Drain pum	p kit	PAC-DRF	10DP-E2	PAC-KE	06DM-F	PAC-KE06DM-F		
	Long life filt	er	PAC-KE	E89LAF	PAC-KE85LAF		PAC-KE85LAF		
Filter box		PAC-KE140TB-F		PAC-KE250TB-F		PAC-KE250TB-F			

Notes:

*1 Cooling capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 33°CDB/28°CWB. Outdoor 33°CDB, The set temperature of the remote controller is 18°C.

 To color graphic processing of airflow mode and external static pressure.
 Heating capacity indicates the maximum value at operation under the following condition. Heating: Indoor 0° CDB/-2.9° CWB, Outdoor 0° CDB/-2.9° CWB. The set temperature of the remote controller is 25° C.
 The factory setting of airflow mode and external static pressure mode is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow mode and external static pressure mode is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow mode and external static pressure mode is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow mode and external static pressure mode is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow mode and external static pressure mode is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow mode and external static pressure. flow rate.

If the airflow rate is over the usable range, dew drop can be caused from the air outlet and the air flow rate is changed automatically because of the output down by the fan motor control. If the air flow rate is less *5 than the usable range, condensation from the unit surface can be caused.

*6 Regarding P250VMHS-E-F, the middle notch air flow rate is different from the spec value when the external static pressure setting is set to 100Pa. See "Fan characterics curves" in DATA BOOK for the details. • The combination of fresh air intake type indoor units with other types of indoor units to handle internal thermal load which may cause the conflict of operation mode. It is not recommended when fresh air intake type indoor unit is connected to the Y or WY series.

Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the discharge temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions. Fresh air intake type indoor units cannot be connected to PUMY series, except for PUMY-SP125/140V(Y)KM2, PUMY-CP125/140VKM2, PUMY-CP125/140/V225YKM3, PUMY-(C)P250/300YBM2. Fresh air intake type indoor unit and PUMY have to be one to one connection. Fresh air intake type unit cannot be connected to an outdoor unit together with PWFY series.

 The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
 When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit. capacity.

• The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit. • The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.

The fan temporary stops during defrost.
The can temporary stops during defrost.
The can temporary stops during defrost.
The actual capacities are the maximum capacities that were obtained by operating in the above air conditions and with a refrigerant pipe of about 7.5 m and a level difference of 0 m.
The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information in DATA BOOK for the details.

Thermo off (Fan) operation automatically starts either when temperature is lower than 17°CDB in cooling mode or when the temperature exceeds 20°CDB in heating mode.

Ory mode is not available.
 When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.

• Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.



Example design for an outside air treatment unit system

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



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

directly into the room.

Applications across a wide range of design

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

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

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

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

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

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



mm (in.)

Optional Parts

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

Model			PEFY-P80VMH-E-F	PEFY-P140VMH-E-F	PEFY-P200VMH-E-F	PEFY-P250VMH-E-F		
Power source				1-phase 220-240V 50Hz /	1-phase 208-230V 60Hz 3-phase 380-415V 50Hz / 3N~ 380-415V		z / 3N~ 380-415V 60Hz	
Cooling capacity *1 kW			kW	9.0	16.0	22.4	28.0	
*1 BTU/h			BTU/h	30,700	54,600	76,400	95,500	
Temp.	range of co	oling		21°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 21°CD.B.				
Heating	g capacity	*1	kW	8.5	15.1	21.2	26.5	
		*1	BTU/h	29,000	51,500	72,300	90,400	
Temp. range of heating		-10°CD.B. ~ 20°CD.B. * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 20°CD.B.						
Power		*2 Cooling	kW	0.16 / 0.21	0.29 / 0.33	0.34 / 0.42	0.39 / 0.50	
consur	nption	*2 Heating	kW	0.16 / 0.21	0.29 / 0.33	0.34 / 0.42	0.39 / 0.50	
Curren	t	*2 Cooling	A	0.67 / 0.91	1.24 / 1.48	0.58 / 0.74	0.68 / 0.86	
		*2 Heating	А	0.67 / 0.91	1.24 / 1.48	0.58 / 0.74	0.68 / 0.86	
Externa	al finish				Galva	anized		
Dimens H x W	sion x D		mm (in.)	380 x 1,000 x 900 (15 x 39-3/8 x 35-7/16)	380 x 1,200 x 900 (15 x 47-1/4 x 35-7/16)	470 x 1,250 x 1120 (18-9/16 x 49-1/4 x 44-1/8)		
Net weight kg (lbs)		50 (111)	67 (148)	100 (221)				
Heat exchanger		Cross fin (Aluminum plate fin and copper tube)						
Fan	Type x Qu	antity		Sirocco fan x 1 Sirocco fan x 2				
	Airflow rate		m³/min	9.0	18.0	28	35	
			L/s	150	300	467	583	
				318	636	989	1,236	
	External	208V	Pa	<35> - 85 - <170>	<35> - 85 - <170>	-	-	
	static	*2 220V	Pa	<40> - 115 - <190>	<50> - 115 - <190>	-	-	
	pressure	³ 230V	Pa	<50> - 130 - <210>	<60> - 130 - <220>	-	-	
		240V	Pa	<80> - 170 - <220>	<100> - 170 - <240>	-	-	
		380V	Pa	-	-	<140> / 200	<110> / 190	
		400V	Pa	-	-	<150> / 210	<120> / 200	
		415V	Pa	-	-	<160> / 220	<130> / 210	
Motor	Туре			1-phase indu	uction motor	3-phase ind	uction motor	
	Output		kW	0.09 (220V, 115Pa)	0.14 (220V, 115Pa)	0.20 (415V, 220Pa)	0.23 (415V, 210Pa)	
Air filte	r (option)			Synthetic fiber unwoven cloth filter (long life)		Synthetic fiber unwoven cloth filter (long life type)		
Refrigerant pipe diameterGasmm (in.)Liquidmm (in.)		ø15.88 (ø	5/8) Flare	ø19.05 (ø3/4) Brazed	ø22.2 (ø7/8) Brazed			
		mm (in.)	ø9.52 (ø3	3/8) Flare	ø9.52 (ø3/8) Brazed			
Field drain pipe diameter mm (in.)		mm (in.)	O.D.32	(1-1/4)	O.D.32 (1-1/4)			
Sound	pressure	208, 220V	dB <a>	38	38	-	-	
level	use of the	230, 240V	dB <a>	43	43	-	-	
(measu	ured in	*4 380V	dB <a>	-	-	42	44	
anconc	//0/10/011/ 2	400V	dB <a>	-	-	43	45	
		415V	dB <a>	-	-	44	46	

Notes:

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

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

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

The values are measured at the raction setting of external status pressure.
 The figure of Electrical characteristic indicates at 240V 50Hz/200V 60Hz (PEFY-P80, 140VMH-E-F type), at 50Hz/60Hz (PEFY-P200, 250VMH-E-F type).
 *3 The factory setting of external static pressure is shown without < >.

Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. *4 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.

• Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the outlet air temperature may swing. Note that untreated outside air may be delivered directly into the

be performed in the activation of protection functions.
The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.

•

- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature. The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit.
- The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.
- The fan temporary stops during defrost. Dry mode is not available.
- In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan characteristics curves" in DATA BOOK for the details.
- When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode. Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. .

- Please be careful when postioning indoor unit air out early fulles, is take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required. Air filter must be installed in the air intake side. The filter should be attached where easy maintenance in possible in case of usage of field supply filters. Fresh air intake type indoor units cannot be connected to PUMY series, except for PUMY-SP125/140V(Y)KM2, PUMY-CP125/140VKM2, PUMY-CP125/140/200/225YKM2, PUMY-P200/225YKM3.
- Fresh air intake type indoor unit and PUMY have to be one to one connection. Fresh air intake type unit cannot be connected to an outdoor unit together with PWFY series

Low noise type

, H

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PEFY-P VMR-E-L/R



The picture represents -L type. For -R type, the control box comes to the right side when looked at from the front.

Low-noise operation for a quiet indoor environment

Low noise design: Minimum of 20 dB when air flow rate is low and maximum of 35 dB when air flow rate is high.

* Noise values measured on a rear-inlet model in an anechoic room. (The noise value is higher in cases where the bottom inlet is used.)



Flexibly application in symmetrically arranged rooms

Models are available with refrigerant/drain piping and control box on either the right or left sides. They can be flexibly applied to symmetrically arranged hotel rooms.



Easy Maintenance

The fan case has no screws and can be easily removed, meaning the fan is easy to maintain. The air filter can be removed from the side or rear of the body.



Air inlet direction can easily be changed

The rear or bottom air inlet can be selected according to the room's layout.



By exchanging the closing board and air filter, rear inlet and bottom inlet can be changed. (At factory shipment: Rear inlet)

* The units with bottom inlet make more noise than those with rear inlet. It is recommended to choose the type of "with rear inlet" for the rooms that should be quiet such as bedrooms.
Advantages of CITY MULTI Outdoor/Heat source unit

Indoor unit

Remote Controller

Lossnay

Specifications

Model			PEFY-P20VMR-E-L	PEFY-P25VMR-E-L	PEFY-P32VMR-E-L				
Power source				1-phase 220-230-240V 50Hz/1-phase 220-230V 60Hz					
Cooling capacity *1		kW	2.2	2.8	3.6				
		*1	BTU/h	7,500	9,600	12,300			
Heating of	capacity	*1	kW	2.5	3.2	4.0			
		*1	BTU/h	8,500	10,900	13,600			
Power		Cooling	kW	0.06/0.06	0.06/0.06	0.07/0.08			
consump	tion	Heating	kW	0.06/0.06	0.06/0.06	0.07/0.08			
Current		Cooling	A	0.29/0.29	0.29/0.29	0.34/0.38			
		Heating	A	0.29/0.29	0.29/0.29	0.34/0.38			
External	finish				Galvanized				
Dimensio	on	Rear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)				
HxWxI	D	Bottom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)				
Net weight kg (lbs.) 18 (40)				18 (40)					
Heat exc	hanger			Cross fin (Aluminum fin and copper tube)					
Fan	Type x Qu	antity			Sirocco fan x 1				
	Airflow rate	e	m³/min	4.8-5.	4.8-5.8-7.9				
	(Lo-Mid-Hi)	L/s	80-97	80-97-155				
			cfm	170-20	170-205-328				
	External st pressure	atic *2	Ра		5				
Motor	Туре				1-phase induction motor				
	Output		kW	0.0	18	0.023			
Air filter					PP Honeycomb fabric (washable)				
Refrigera	int	Gas	mm (in.)		ø12.7 (ø1/2) Brazed				
pipe dian	neter	Liquid	mm (in.)		ø6.35 (ø1/4) Brazed				
Field dra	in pipe diam	eter	mm (in.)		O.D. 26 (1)				
Sound pr	essure level	220V	dB (A)	20-2	5-30	20-25-33			
(Lo-Mid-I	Hi) *3	230V	dB (A)	21-2	6-32	21-26-35			
		240V	dB (A)	22-2	7-30	22-27-33			

Model				PEFY-P20VMR-E-R	PEFY-P25VMR-E-R	PEFY-P32VMR-E-R	
Power so	ource			1-phase 220-230-240V 50Hz/1-phase 220-230V 60Hz			
Cooling capacity *1 kW		kW	2.2	2.8	3.6		
•		*1	BTU/h	7,500	9,600	12,300	
Heating	capacity	*1	kW	2.5	3.2	4.0	
-		*1	BTU/h	8,500	10,900	13,600	
Power		Cooling	kW	0.06/0.06	0.06/0.06	0.07/0.08	
consump	otion	Heating	kW	0.06/0.06	0.06/0.06	0.07/0.08	
Current		Cooling	A	0.29/0.29	0.29/0.29	0.34/0.38	
		Heating	A	0.29/0.29	0.29/0.29	0.34/0.38	
External	ternal finish Galvanized						
Dimensio	on	Rear inlet	mm (in.)		292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)		
НхWх	D	Bottom inlet	mm (in.)		300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)		
Net weig	ht	kg (lbs.) 18 (40)					
Heat exc	hanger				Cross fin (Aluminum fin and copper tube)		
Fan	Type x Q	uantity			Sirocco fan x 1		
	Airflow ra	te	m³/min	4.8-5	4.8-5.8-7.9 4.8-5.8-9.3		
	(Lo-Mid-F	łi)	L/s	80-97	80-97-155		
			cfm	170-20	170-205-328		
	External s	static *2	Ра		5		
Motor	Туре				1-phase induction motor		
	Output		kW	0.0	018	0.023	
Air filter					PP Honeycomb fabric (washable)		
Refrigera	ant	Gas	mm (in.)		ø12.7 (ø1/2) Brazed		
pipe diar	neter	Liquid	mm (in.)		ø6.35 (ø1/4) Brazed		
Field dra	in pipe dian	neter	mm (in.)		O. 26 (1)		
Sound pr	essure leve	220V	dB (A)	20-2	5-30	20-25-33	
(Lo-Mid-	Hi) *3	230V	dB (A)	21-2	6-32	21-26-35	
		240V	dB (A)	22-2	7-30	22-27-33	

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB. Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
 *2 The external static pressure is set to 5Pa (at 220v, 230v, 240v).
 *3 Measured in anechoic room. Sound pressure levels of the unit with a rear air inlet. (Sound pressure levels are higher than the unit with a bottom air inlet.)

* If quietness is required, installation of a crank-shaped duct is recommended. Please refer to the installation pattern below for the duct system design.



Air inlet Air outlet © Access door © Ceiling surface Ceiling surface
 E Duct
 Duct box
 G Air filter
 H Inlet grille
 * Reference data

PCFY-P VKM-E





Easy installation



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

Drain pump is available for all models

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





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



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

Auto Vane Control

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



Equipped with automatic air-speed adjustment

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



Optional Parts

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

Specifications

Model				PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E
Power so	ource				1-phase 220-240V 50H	Iz/1-phase 220V 60Hz	
Cooling of	capacity	*1	kW	4.5	7.1	11.2	14.0
		*1	BTU/h	15,400	24,200	38,200	47,800
Heating of	capacity	*1	kW	5.0	8.0	12.5	16.0
		*1	BTU/h	17,100	27,300	42,700	54,600
Power		Cooling	kW	0.04	0.05	0.09	0.11
consump	otion	Heating	kW	0.04	0.05	0.09	0.11
Current		Cooling	A	0.28	0.33	0.65	0.76
		Heating	A	0.28	0.33	0.65	0.76
External	finish (Muns	sell No.)			6.4Y 8	.9/ 0.4	
Dimensio	on H x W x [C	mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,6	00 x 680
			in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 6	3 x 26-3/4
Net weig	ht		kg (lbs.)	24 (53)	32 (71)	36 (79)	38 (84)
Heat exc	hanger				Cross fin (Aluminum	fin and copper tube)	
Fan	Type x Qu	uantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco	fan x 4
	Airflow rat	te *2	m³/min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31
	(Lo-Mid2-	Mid1-Hi)	L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517
			cfm	353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1,095
	External sta	atic pressure	Pa)	
Motor	Туре				DC n	notor	
	Output		kW	0.090	0.095	0.1	60
Air filter					PP Honeyco	mb (long life)	
Refrigera pipe dian	ant neter	Gas (Flare)	mm (in.)	ø12.7 (ø1/2)		ø15.88 (ø5/8)	
		Liquid (Flare)	mm (in.)	ø6.35 (ø1/4)		ø9.52 (ø3/8)	
Field dra	in pipe diam	neter	mm (in.)		O.D. :	26 (1)	
Sound pr (Lo-Mid2	ressure leve -Mid1-Hi)	el *2 *3	dB (A)	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44

Notes:

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

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

PKFY-P VLM (P15~P32)





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



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

Low noise

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



* Measurement condition (Fan speed: Low)

It is measured in anehoic room

Drain pump option

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



Optional Parts

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

Improved Airflow control

Fan speed and Vane control

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

		Conve	ntional]	Current
		PKFY-P**VBM	PKFY-P**VHM		PKFY-P**VLM-E
Fan Spee	1		3 speeds		4 speeds
•		4 speeds	+		+
			AUTO		AUTO
Vane Control	Vane Angle	4 steps	5 steps		5 steps
	Swing mode	-	~		~

Specifications

Model				PKFY-P15VLM-E	PKFY-P20VLM-E	PKFY-P25VLM-E	PKFY-P32VLM-E	PKFY-P40VLM-E	PKFY-P50VLM-E		
Power sou	urce		ĺ		1-p	hase 220-240 V 50 Hz,	1-phase 220-230 V 60	Hz			
Cooling ca	apacity	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6		
(Nominal)		*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100		
	Power input		kW	0.02	0.02	0.03	0.04	0.04	0.05		
	Current input	t	А	0.20	0.20	0.25	0.35	0.35	0.45		
Heating ca	apacity	*2	kW	1.9	2.5	3.2	4.0	5.0	6.3		
(Nominal)		*2	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500		
	Power input		kW	0.01	0.01	0.02	0.03	0.03	0.04		
	Current input	t	A	0.15	0.15	0.20	0.30	0.30	0.40		
External fi	nish (Munsell	l No.)				Plastic (0.7	PB 9.2/0.4)				
External d	limension		mm		299 x 77	73 x 237		299 x 89	98 x 237		
HxWxD			in.		11-25/32 x 30-	7/16 x 9-11/32		11-25/32 x 35	-3/8 x 9-11/32		
Net weight kg (lbs.)			kg (lbs.)		11 ((25)		13	(29)		
Heat exch	anger			Cross fin (Aluminum fin and copper tube)							
Fan Type x Quantity				Line flow fan x 1							
	External stat	tic press	Pa (mmH ₂ O)	0 (0)							
	Motor type			DC motor							
	Motor output	t	kW	0.03							
	Driving mech	hanism				Direct	driven				
	Airflow rate		m³/min	4.0-4.2-4.4-4.7	4.0-4.4-4.9-5.4	4.0-4.6-5.4-6.7	4.3-5.4-6.9-8.4	6.3-7.4-8.6-10.0	6.8-8.3-10.2-12.4		
	(Lo-Mid2-Mid	d1-Hi)	L/s	67-70-73-78	67-73-82-90	67-77-90-112	72-90-115-140	105-123-143-167	113-138-170-207		
			cfm	141-148-155-166	141-155-173-191	141-162-191-237	152-191-244-297	222-261-304-353	240-293-360-438		
Noise leve (measured	el d in anechoic	room)	dB (A)	22-24-26-28	22-26-29-31	22-27-31-35	24-31-37-41	29-34-37-40	31-36-41-46		
Insulation	material					Polyethyle	ene sheet				
Air filter				PP honeycomb							
Protection	device					Fu	se				
Refrigerar	nt control devi	ice				LE	ΕV				
Refrigerar diameter	nt piping Li (F	quid lare)	mm (in.)			ø6.35	(ø1/4)				
Gas mm (in.) Ø12.7 (Ø1/2)											
Field drain	n pipe diamete	er	mm (in.)			I.D.16	(5/8)				
Optional p	arts D	RAIN PU	MP KIT			PAC-SK	01DM-E				
EXTERNAL		LEV BOX			PAC-SG	95LE-E					

Notes:

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

Model				PKFY-P63VKM-E	PKFY-P100VKM-E			
Power sou	urce			1-phase 220-240V 50Hz, 1-phase 220V 60Hz				
Cooling capacity *1 kW		kW	7.1	11.2				
(Nominal)		*1	BTU/h	24,200	38,200			
	Power input		kW	0.05	0.08			
(220V)	Current input	ıt	А	0.37	0.58			
Heating ca	apacity	*2	kW	8.0	12.5			
(Nominal)		*2	BTU/h	27,300	42,600			
	Power input		kW	0.04	0.07			
(220V)	Current input	ıt	Α	0.30	0.51			
External fi	nish (Munsell	l No.)		Plastic, MUNSELI	L (1.0Y 9.2/0.2)			
External d	imension		mm	365x117	0x295			
HxWxD			in.	14-3/8 x 46-1/16 x 11-5/8				
Net weigh	t		kg (lbs.)	21(46)				
Heat exch	anger			Cross fin (Aluminum fin and copper tube)				
Fan	Type x Quan	ntity		Line flow fan x 1				
	External stat	tic press	Pa (mmH ₂ O)	0 (0)				
	Motor type			DC motor				
	Motor output	t	kW	0.056				
	Driving mech	hanism		Direct-drive				
	Airflow rate		m³/min	16-20	20-26			
	(Low-High)		L/s	267-333	333-433			
			cfm	565-706	706-918			
Sound pre (measured	essure level	room)	dB (A)	39-45	41-49			
Insulation	material			Polyethylene sheet				
Air filter				PP honeycomb				
Protection	device			Fus	e			
Refrigerar	nt control devi	ice		LEV				
Refrigerar diameter	nt piping Li (F	iquid Flare)	mm (in.)	ø9.52 (r	ø3/8)			
	Gi (F	ias Flare)	mm (in.)	ø15.88 ((ø5/8)			
Field drain	n pipe diamete	er	mm (in.)	I.D.16	(5/8)			
Optional p	arts D	RAIN PU	JMP KIT	PAC-SH9	4DM-E			
	EX	XTERNAL	LEV BOX	PAC-SG95LE-E	-			

Notes:

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

Floor standing exposed type

PFFY-P VKM-E2





Sophisticated Design

An innovative floor-standing air-conditioner from Mitsubishi Electric. A pleasing mix of streamlined form and diversified function. Engineered to keep room walls free, provide comfortable cooling in summer, and toasty heating in the winter.

The "Glossy Pure White" color ensures a deluxe look, a perfect match for any room. Both upper and lower air outlets remain closed when switched off, a smart and striking image.

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



Slim yet Mighty

The unit's body is slim and trim, highlighting its compact essence. An ideal size for living rooms, bedrooms, and more.

The removable and washable front panel makes cleaning a snap. Easy, regular cleaning helps your air-conditioner stay beautiful while maintaining its energy-efficient operation.



Optimum Air Distribution

Comfy room temperatures are accomplished through optimum, powerful and efficient air distribution through the 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, bothersome direct wind can be avoided for increased comfort.



The air from both the 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: Say goodbye to chilly feet!



Specifications

Model		PFFY-P20VKM-E2	PFFY-P25VKM-E2	PFFY-P32VKM-E2	PFFY-P40VKM-E2				
Power se	ource			1-phase 220-240V 50Hz					
Cooling	capacity	*1	kW	2.2	2.8	3.6	4.5		
		*1	BTU/h	7,500	9,600	12,300	15,400		
Heating	capacity	*1	kW	2.5	3.2	4.0	5.0		
		*1	BTU/h	8,500	10,900	13,600	17,100		
Power		Cooling	kW	0.025	0.025	0.025	0.028		
consump	otion	Heating	kW	0.025	0.025	0.025	0.028		
Current		Cooling	A	0.20	0.20	0.20	0.24		
		Heating	A	0.20	0.20	0.20	0.24		
External	finish				Plastic (P	ure white)			
Dimension H x W x D mm 600 x 700 x 200		00 x 200							
in. 23-5/8 x 27-9/16 x 7-7/8									
Net weig	ht		kg (lbs.)		15 ((34)			
Heat exc	changer				Cross fin (Alminium pla	ate fin and copper tube)			
Fan	Type x C	uantity		Line flow fan x 2					
	Airflow ra (Lo-Mid-	ate *2 Hi-SHi)	m³/min	5.9-6.8-7.6-8.7	6.1-7.0-8.0-9.1	6.1-7.0-8.0-9.1	8.0-9.0-9.5-10.7		
	External s	tatic pressure	Pa		()			
Motor	Туре			DC motor					
	Output		kW		0.03 x 2				
Air filter					PP honeycomb fab	ric (Catechin Filter)			
Refrigera pipe diar	ant neter	Gas (Flare)	mm (in.)		ø12.7	(ø1/2)			
		Liquid (Flare)	mm (in.)	ø6.35 (ø1/4)					
Field dra	in pipe dia	meter	mm (in.)		I.D.16	õ (5/8)			
Sound p (Lo-Mid-	ressure lev Hi-SHi)	el *2	dB (A)	27-31-34-37	28-32-35-38	28-32-35-38	35-38-42-44		

Notes:

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

Floor standing exposed type

PFFY-P VEM-E

New design

The new sophisticated design in clear white and pearl grey blends in with any interior.

With a depth of 217 mm [8-9/16 in.], the compact unit is ideal for installation in the perimeter zone of a room.

Three installation options are available to suit a wide range of applications.



New

Three installation options



Conventional floorstanding installation is possible.



Wall-mounted installation allows for a stylish interior design.

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

Back decoration panel (optional)

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

Reduced power consumption and noise

0.0

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



A high-efficiency DC fan motor is equipped.



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



	Redu	ced po	ower c	onsu	mptio	n 💋	
		Powe	er consur	nption (k	W)	-39%	
0.10					-36%	X	50
0.08			-48%	-43%			40
0.06	-47%	-35%	\mathbf{x}		Let.	10.	30
0.04		X	L.,	le.			20
0.02							10
0	R20	P25	Paa	P40	P50	P63	- 0
	Conver	itional mod	del (VLEN	1) Ne	w model	(VEM)	
*M	easurem	ent condit	ions (Pov	ver sourc	e:		*N
A	C220-240)V/50Hz, F	an spee	d: High)			S
Tł	he unit co	nsumes th	e same a	mount of	power in	both	Т



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

Flexible airflow rate setting

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

Airflow rate setting

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

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

Optional Parts

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

cooling and heating modes

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

Remote controller storage in the main unit





Specifications

Model				PFFY-P20VEM-E	PFFY-P25VEM-E	PFFY-P32VEM-E	PFFY-P40VEM-E	PFFY-P50VEM-E	PFFY-P63VEM-E					
Power so	urce					1-phase 220-230)-240 V 50/60 Hz							
Cooling c	apacity	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1					
(Nominal)		*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200					
	Power inp	ut	kW	0.021	0.026	0.031	0.037	0.054	0.061					
	Current in	put	A	0.26-0.25-0.24	0.31-0.30-0.29	0.37-0.35-0.34	0.39-0.38-0.36	0.58-0.56-0.55	0.52-0.50-0.48					
Heating c	apacity	*2	kW	2.5	3.2	4.0	5.0	6.3	8.0					
(Nominal)		*2	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300					
	Power inp	ut	kW	0.021	0.026	0.031	0.037	0.054	0.061					
	Current in	put	А	0.26-0.25-0.24	0.31-0.30-0.29	0.37-0.35-0.34	0.39-0.38-0.36	0.58-0.56-0.55	0.52-0.50-0.48					
External f	inish				Galvanized steel plate, MUNSELL (1.0Y 9.2/0.2)/ABS, MUNSELL (5.32GY 8.75/0.37)									
External of	limension		mm	669 (726) x 1,142 x 217	669 (726) x 1,142 x 217	669 (726) x 1,142 x 217	669 (726) x 1,342 x 217	669 (726) x 1,342 x 217	669 (726) x 1,542 x 217					
HxWxD)		in	26-3/8 (28-5/8) x	26-3/8 (28-5/8) x	26-3/8 (28-5/8) x	26-3/8 (28-5/8) x	26-3/8 (28-5/8) x	26-3/8 (28-5/8) x					
		*3	In.	45 x 8-9/16	45 x 8-9/16	45 x 8-9/16	52-7/8 x 8-9/16	52-7/8 x 8-9/16	60-3/4 x 8-9/16					
Net weigh	nt		kg (lbs.)	29.5 (67)	29.5 (67)	30 (67)	35 (78)	35 (78)	39.5 (89)					
Heat exchanger						Cross fin (Aluminum	fin and copper tube)							
FAN	FAN Type x Quantity			Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4					
	External s	tatic	Pa	0										
	press.		mmH ₂ O			0	.0							
	Motor Typ	e			DC motor									
	Motor outp	out	kW	0.096										
	Driving me	echanism		Direct-driven by motor										
	Air flow ra	te		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)					
			m³/min	5.0 - 6.0 - 7.0	5.5 - 6.5 - 8.0	5.5 - 7.0 - 8.5	8.0 - 9.5 - 11.0	10.0 - 11.5 - 13.5	12.0 - 14.0 - 16.5					
			L/s	83 - 100 - 117	92 - 108 - 133	92 - 117 - 142	133 - 158 - 183	167 - 192 - 225	200 - 233 - 275					
			cfm	177 - 212 - 247	194 - 230 - 282	194 - 247 - 300	282 - 335 - 388	353 - 406 - 477	424 - 494 - 583					
Sound pre	essure leve			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)					
(measure	d in anecho	oic room)	dB <a>	23.0-27.0-31.0	25.0-29.0-34.0	25.0-31.0-36.0	29.0-33.0-36.0	34.0-37.0-41.0	32.0-36.0-40.0					
Air filter						PP honeyc	omb fabric.							
Refrigeral piping dia	nt meter	Liquid (R410A)	mm (in.)	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	6.35 (1/4) Brazed	9.52 (3/8) Brazed					
		Gas (R410A) mm (in.)		12.7 (1/2) Brazed	2.7 (1/2) Brazed 12.7 (1/2) Br			12.7 (1/2) Brazed	15.88 (5/8) Brazed					
Field drain	n pipe size		mm (in.)			O.D.32	(1-1/4)							
Optional parts Back decoration panel			ation panel	PAC-BP32VEM-E	PAC-BP32VEM-E	PAC-BP32VEM-E	PAC-BP50VEM-E	PAC-BP50VEM-E	PAC-BP63VEM-E					

Notes:

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

Floor standing concealed type

PFFY-P VCM-E





Reduced power consumption and noise

The structure realizes smooth airflow to reduce pressure loss in the air pathway. Additionally, the inner pipes of its heat exchanger have been downsized from ø9.52 to ø7.0 to contain a larger number of pipings.

The combination of the structure and components contributes to reducing power consumption and operation noise.



* The unit consumes the same power in both cooling and heating modes.



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

Flexible installation pattern ideal for perimeter zone air conditioning

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



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

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

Floor standing with legs

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



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

Smaller footprint

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



Flexible airflow and external static pressure setting

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

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

Specifications

Model	PFFY-P20VCM-E	PFFY-P25VCM-E	PFFY-P32VCM-E					
Power source		1-phase 220-230-240 V 50/60 Hz						
Cooling capacity *1 kW	2.2	2.8	3.6					
(Nominal) *1 BTU/h	7,500	9,600	12,300					
*2 Power input kW	0.022	0.026	0.031					
*2 Current input A	0.25	0.30	0.34					
Heating capacity *3 kW	2.5	3.2	4.0					
(Nominal) *3 BTU/h	8,500	10,900	13,600					
*2 Power input kW	0.022	0.026	0.031					
*2 Current input A	0.25	0.25 0.30 0.34						
External finish	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate					
External dimension *4 mm	615 (690) x 700 x 200	615 (690) x 700 x 200	615 (690) x 700 x 200					
H x W x D in.	24-1/4 (27-3/16) x 27-9/16 x 7-7/8	-1/4 (27-3/16) x 27-9/16 x 7-7/8 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 24-1/						
Net weight kg (lbs	18 (40)	18 (40)	18.5 (42)					
Heat exchanger		Cross fin (Aluminum fin and copper tube)						
FAN Type x Quantity	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2					
*5 External Pa	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>					
static press. mmH ₂ C	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>					
Motor Type	DC motor	DC motor	DC motor					
Motor output kW	0.096	0.096	0.096					
Driving mechanism	Direct-driven by motor	Direct-driven by motor	-driven by motor Direct-driven by motor					
Air flow rate		(Low-Mid-High)						
m ³ /mir	5.0 - 6.0 - 7.0	5.5 - 6.5 - 8.0	5.5 - 7.0 - 8.5					
L/s	83 - 100 - 117	92 - 108 - 133	92 - 117 - 142					
cfm	177 - 212 - 247	194 - 230 - 282	194 - 247 - 300					
Sound pressure level		(Low-Mid-High)						
(measured in anechoic room) *2 dB <a>	21-23-26	22-25-29	23-26-30					
Air filter	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.					
Refrigerant Liquid (410A) mm (in.	6.35 (1/4)Brazed	6.35 (1/4)Brazed	6.35 (1/4)Brazed					
piping diameter Gas (410A) mm (in.	12.7 (1/2)Brazed	12.7 (1/2)Brazed	12.7 (1/2)Brazed					
Field drain pipe size mm (in.	O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)					

Model		PFFY-P40VCM-E	PFFY-P50VCM-E	PFFY-P63VCM-E				
Power source			1-phase 220-230-240 V 50/60 Hz					
Cooling capacity *1	kW	4.5	5.6	7.1				
(Nominal) *1	BTU/h	15,400	19,100	24,200				
*2 Power input	kW	0.038	0.052	0.058				
*2 Current input A		0.38	0.50	0.49				
Heating capacity *3	kW	5.0	6.3	8.0				
(Nominal) *3	BTU/h	17,100	21,500	27,300				
*2 Power input	kW	0.038	0.052	0.058				
*2 Current input	A	0.38	0.50	0.49				
External finish		Galvanized steel plate	Galvanized steel plate	Galvanized steel plate				
External dimension *4	mm	615 (690) x 900 x 200	615 (690) x 900 x 200	615 (690) x 1,100 x 200				
H x W x D	in.	24-1/4 (27-3/16) x 35-7/16 x 7-7/8	24-1/4 (27-3/16) x 35-7/16 x 7-7/8	24-1/4 (27-3/16) x 43-5/16 x 7-7/8				
Net weight	kg (lbs)	22.5 (51)	22.5 (51)	25.5 (58)				
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
FAN Type x Quanti	ty	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4				
*5 External	Pa	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>	<0> - 10 - <40> - <60>				
static press.	mmH ₂ O	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>	<0.0> - 1.0 - <4.1> - <6.1>				
Motor Type		DC motor	DC motor	DC motor				
Motor output	kW	0.096	0.096	0.096				
Driving mecha	anism	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor				
Air flow rate			(Low-Mid-High)					
	m³/min	8.0 - 9.5 - 11.0	10.0 - 11.5 - 13.5	12.0 - 14.0 - 16.5				
	L/s	133 - 158 - 183	167 - 192 - 225	200 - 233 - 275				
	cfm	282 - 335 - 388	353 - 406 - 477	424 - 494 - 583				
Sound pressure level			(Low-Mid-High)					
(measured in anechoic room) *2	dB <a>	25-27-30	28-31-34	28-32-35				
Air filter		PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.				
Refrigerant Liquid (410A)	mm (in.)	6.35 (1/4)Brazed	6.35 (1/4)Brazed	9.52 (3/8)Brazed				
piping diameter Gas (410A)	mm (in.)	12.7 (1/2)Brazed	12.7 (1/2)Brazed	15.88 (5/8)Brazed				
Field drain pipe size mm (in.)		O.D.32 (1-1/4)	O.D.32 (1-1/4)	O.D.32 (1-1/4)				

Notes:

- Notices:
 *1. Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft), Level difference: 0 m (0 ft.)
 *2. The values are measured at the factory setting of external static pressure.
 *3. Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
 *4. The values in () show the height of unit with leg.
 *5. The factory setting of external static pressure is shown without <>. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
 *Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
 *Due to continuing improvement, above specifications may be subject to change without notice.

Floor standing exposed type

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

Reduces installation and maintenance time

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

Increased adaptation to local needs

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





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

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

*High static pressure model

Pulley belt option

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

Both large-scale and individual air conditioning can be performed

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

Multiple units can be connected to one outdoor unit

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



Optional Parts

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

Specifications

Model				PFFY-P200YM-E PFFY-P250YM-E		PFFY-P200YMH-E	PFFY-P250YMH-E	PFFY-P400YM-E	PFFY-P500YM-E				
Power sou	rce					3-phase 4-wire 380-	400-415 V 50/60 Hz						
Cooling ca	pacity	*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 inp	out	kW	0.490/0.680	1.05/1.26	1.00/1.41	1.31/1.41	2.86/3.79	3.94/5.30				
*2 Current input (380-400-415 V)		A	0.97-0.98-0.99/ 1.24-1.23-1.22	1.74-1.83-1.88/ 2.06-2.05-2.04	1.82-1.85-1.87/ 2.37-2.37-2.37	2.14-2.18-2.20/ 2.18-2.18-2.18	5.23-5.25-5.33/ 6.16-6.18-6.26	7.66-7.68-7.76/ 8.49-8.51-8.58					
Heating ca	pacity	*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 inp	out	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 ir (380-400-	nput -415 V)	A	0.97-0.98-0.99/ 1.24-1.23-1.22	1.74-1.83-1.88/ 2.06-2.05-2.04	1.82-1.85-1.87/ 2.37-2.37-2.37	2.14-2.18-2.20/ 2.18-2.18-2.18	5.23-5.25-5.33/ 6.16-6.18-6.26	7.66-7.68-7.76/ 8.49-8.51-8.58				
External fir	nish			Galvanized steel plate (with polyester coating) <munsell 1.1="" 3.0y="" 7.8="" or="" similar=""></munsell>									
External dimension H x W x D mm in.			mm	1,665 x 1,200 x 500	1,665 x 1,200 x 500	1,465 x 1,200 x 500	1,465 x 1,200 x 500	1,800 x 1,860 x 650	1,800 x 1,860 x 650				
			in.	65-9/16 x 47-1/4 x 19-11/16	65-9/16 x 47-1/4 x 19-11/16	57-11/16 x 47-1/4 x 19-11/16	57-11/16 x 47-1/4 x 19-11/16	70-7/8 x 73-1/4 x 25-5/8	70-7/8 x 73-1/4 x 25-5/8				
Net weight kg (lbs)				157 (347)	158 (349)	138 (305)	139 (307)	310 (684)	362 (799)				
Heat exchanger						Cross fin (Aluminum	fin and copper tube)						
Fan	Type x Q	uantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2 Sirocco fan x 2		Sirocco fan x 2	Sirocco fan x 2				
	External s	static	Pa	0	0	180/200	180/210	210/390	290/510				
	press. (38	80 V)	mmH ₂ O	0.0	0.0	18.4/20.4 18.4/21.4		21.4/39.8	29.6/52.0				
	Motor Typ	ре				3-phase inde	uction motor						
	Motor out	tput	kW	0.400	0.500	0.770	0.770	3.700	5.500				
	Driving m	echanism		Direct-driven by motor Belt driving									
	Air flow ra	ate		(High	-Low)		(Hi	gh)					
			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 pres	ssure level			(High	-Low)		(Hi	gh)					
(measured in (380 V)	anechoic ro	om) *2	dB (A)	58-56/60-56	63-60/62-60	58/60	60/61	68/69	69/69				
Air filter						PP honeyc	omb fabric.						
Refrigerant diameter	t 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.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed				
Field drain	pipe size		in.	Rc 1	Rc 1	Rc 1	Rc 1	Rc 1-1/4	Rc 1-1/4				

Notes:

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

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

Floor standing exposed type

PFFY-P YM-E-F







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

*This product is for use in occupant spaces and not suitable for use in spaces requiring stringent thermostatic control.

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



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

Usable in combination with CITY MULTI indoor units

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

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

Installation example



Specifications

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

Notes:

- *1 Nominal cooling conditions
- Indoor: 33°C D.B./28°C W.B., Outdoor: 33°C D.B. Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) *2 The values are measured in fan mode and at the factory setting of external static pressure.

- *3 Nomial heating conditions Indoor: 7°C D.B., Outdoor: 7°C D.B./3°C W.B. Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.
 This unit cannot be connected to PUMY, R2 and WR2 series.
 Fresh air intake type indoor units cannot be connected to an outdoor unit together with PWFY series.

- When this fresh air intake type indoor unit is included in the system, the upper limit of connectable indoor unit capacity range is 100% of the connected outdoor unit capacity.
 When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.

- The actual capacity characteristics vary with the combination of indoor and outdoor units.
 See the technical information in DATA BOOK for the details.
 Thermo off (Fan) operation automatically starts either when temperature is lower than 21°C D.B. in cooling mode or when the temperature exceeds 20°C D.B. in heating mode.
- · Dry mode is not available.
- When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
 Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation, which may occur dew condensation on the grills and ducts. Please insulate the grills, ducts, and rooms to
- prevent dew condensation properly. • Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.
- Fresh air intake type indoor unit is designed to supply pretreated outside air into the room.
- Do not use to handle internal thermal load.
- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the outlet air temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- . The fan temporary stops during defrost

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

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Remote Controller



Remote controller list



Advantages of CITY MULTI Outdoor/Heat source unit



M-NET

Using our MELANS products enhances air-conditioning EFFICIENCY and QUALITY, contributing to ENERGY SAVINGS and reducing running cost. We offer a wide variety of MELANS products to meet requirements - from the smallest and simplest, to the largest and most complex. We have individual remote controllers, various centralized controllers, BMS interface, etc.



Advantages of CITY MULTI Outdoor/Heat source unit Indoor unit

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

		L	.ocal re	System controller '7											
Model	PAR- 41MAAM	PAR- 21MAA	PAR- U02MEDA	PAR- CT01MAA-S	PAC- YT52CRA	PAR- FL32MA	PAR- SL101A-E	PAC- YT40ANRA	AT-50B	AE-2	200E	AE-2 AE-50E	00E + / EW-50E	EW	-50E
Controllable Groups / Indoors (Group / Indoor)	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1/1	16 / 50	50 / 50	50 AE-200E	/ 50 Browser	200 AE-200E	/ 200 Browser	50 EW-50E	/ 50 Browser
■Operation															
ON / OFF	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Mode (cool / heat / dry / fan)	0	0	0	0	0	0	0	N	O	© ■	0	0	0	N	◎ ■
Temperature setting	0	0	0	0	0	0	0	N	O	© ■	0	0	0	N ©	
Relative temperature display	N	N	N	0	Ν	N	N	N	Ν	Ν	N	N	N	N	N
Dual set point *8	0	N	0	0	0	N	O *9	O ^{*10}	O	◎ ■	0	0	0	N	◎ ■
Local Permit / Prohibit	N	N	N	N	N	N	N	N	O	© –	0	0	0	N	◎ ■
Fan speed	0	0	0	0	0	0	0	N	O		0	0	0	Ν	
Air flow direction	0	0	0	0	0	0	0	Ν	O		0	0		Ν	
■Status monitoring															
ON / OFF	0	0	0	0	0	0	0	0	O	O	0	Ø	0		0
Mode (cool / heat / dry / fan)	0	0	0	0	0	0	0	N	0	0	0	0	0	N	0
Temperature setting	0	0	0	0	0	0	0	N	0	0	0	0	0	N	0
Local Permit / Prohibit	0	0	0	0	0	Ν	N	0	0	0	0	0	0	Ν	0
Fan speed	0	0	0	0	0	0	0	Ν	0	0	0	0	0	Ν	0
Air flow direction	0	0	0	0	0	0	0	Ν	0	0	0	0	0	Ν	0
Indoor temperature	0	0	0	0	0	N	N	N	0	0	0	0	0	N	0
Filter sign	0	0	0	0	Ν	Ν	N	N	Ø	0	0	0	0	Ν	0
Error flashing	0	0	0	0	0	N	N	0	Ø	0	0	0	0		0
Error code	0	0	0	0	0	N	N	0	0	0	0	0	0	Ν	0
Operation hour	N	N	Ν	Ν	Ν	Ν	N	Ν	Ν	Ν	N	N	Ν	Ν	N
■Scheduling															
One day	0	0	0	0	Ν	N	N	N	0	◎ ■	0	0	0	N	0
ON / OFF times per day	1	8	1	1	N	1	1	N	16	24	24	24	24	N	24
Weekly	0	0	0	0	Ν	Ν	N	Ν	0		◎ ■	◎ ■	◎ ■	Ν	
ON / OFF times per week	8 x 7	8 x 7	8 x 7	8 x 7	Ν	Ν	N	Ν	16 x 7	24 x 7	24 x 7	24 x 7	24 x 7	Ν	24 x 7
Annual	N	N	N	N	N	N	N	N	Ν		◎ ■	◎ ■	◎ ■	Ν	◎ ■
Optimized start-up	N	N	N	N	N	N	N	N	Ν	0	0	0	0	Ν	0
Auto-off timer	0	0	0	0	N	N	N	N	Ν	Ν	N	N	N	Ν	N
Min. timer setting unit (minute)	5	1	5	5	Ν	10	10	Ν	5	1	1	1	1	Ν	1
■Recording															
Error log	0	Ν	N	0	Ν	Ν	N	Ν	0	0	0	0	0	N	0
Daily / monthly report	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
Electricity charge	Ν	Ν	N	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν		Ν	N	Ν
Energy management data	Ν	Ν	N	N	Ν	Ν	Ν	Ν	Ν	•	•	•	•	N	•

						*7				•			*7		
Model		L	.ocal re	mote co	ontrolle	System controller /									
Model	PAR- 41MAAM	PAR- 21MAA	PAR- U02MEDA	PAR- CT01MAA-S	PAC- YT52CRA	PAR- FL32MA	PAR- SL101A-E	PAC- YT40ANRA	AT-50B	AE-2	200E	AE-200E + AE-50E / EW-50E		EW-50E	
Controllable Groups /	1/10	1/10	1/10	1/10	1/10	1/10		16 / 50	50 / 50	50 / 50		200 / 200		50	/ 50
Indoors (Group / Indoor)	1/10	1/10	1/10	1/10	1/16	1/10	1/1		50750	AE-200E	Browser	AE-200E	Browser	EW-50E	Browser
■Other															
Temp-set limitation by Local R / C	0	0	0	0	0	N	N	N	Ν	N	N	N	N	N	N
Temp-set limitation by System controller	O*4	O*4	0	O*4	O*4	N	N	N	O*4	N	O*2 *4	N	O*2 *4	Ν	O *2 *4
Operation lock	0	0	0	0	0	N	N	N	O	N	N	N	N	Ν	N
Night setback	0	N	0	0	Ν	N	N	N	O	0	O*2	0	O*2	Ν	O*2
Sliding temperature control	N	N	N	N	N	N	N	N	Ν	0	O*2	0	O*2	Ν	O*2
BACnet [®] connection	N	N	N	N	N	N	N	N	Ν	•	•	•	•	•	•
■Management (Grou		terloo	cked)												
Group setting	O*1	O*1	0	O*1	O*1	N	N	0	0	0	O*2	0	O*2	Ν	O*2
Block setting	N	N	Ν	N	N	N	N	N	Ν	0	O*2	0	O*2	Ν	O*2
Operating on LOS	SNAY	interl	ocked	d (Gro	up / I	nterlo	cked))							
ON / OFF	N /O	N /O	N /O	N/O	N /O	N /O*5	N /O*5	\bigcirc / \bigcirc^{*3}	0/0	0/0	0/0	0/0	0/0	▲/▲	0/0
Fan speed	N /O	N /O	N/O	N/O	N	N	N	N	©/©	0/0	0/0	0/0	0/0	Ν	0/0
Ventilation mode	N	N	Ν	N	Ν	N	N	N	© / N	© / N	© / N	©/ N	© / N	Ν	© / N
Status monitoring	on LC	DSSN	AY int	erloc	ked (C	Group	/ Inte	rlock	ed)						
ON / OFF	N /O	N /O	N /O	N /O	N /O	N	N	N	0/0	0/0	0/0	0/0	0/0	▲/▲	0/0
Fan speed	N /O	N /O	N /O	N /O	Ν	N	N	N	0/0	0/0	0/0	0/0	0/0	Ν	0/0
Ventilation mode	N	Ν	Ν	N	Ν	N	N	N	0/N	0/N	0/N	0/N	0/N	Ν	0/N

🕲: Each group / Batched ; 🛛 O: Each group ; 📄: Block (for CITY MULTI Indoor unit, not for all Mr.SLIM) ; 🐠: AE-200E/AE-50E/EW-50E license registration possible. (•): License registration for the optional functions required N: Not Available (Not Used.) △: Batched only ; ▲: Batched handling (for maintenance) : Block

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

*2. Setting via the integrated web browser is possible for Ver. 7.7 or later.

*3. Interlock is set at Local remote controller.

*4. This function can only be set on the ME remote controller.

This function cannot be used with the MA/Simple MA remote controller. (However, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model,

and it is possible to use this function with them.)

*5. Interlock is set from system controllers (Except PAC-YT40ANRA) or local remote controllers.

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

*7. For indoor use only.

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

*9. Function setting of this remote controller is necessary.

LMAP04-E : LONWORKS® Interface

*10. Please contact your local distributor regarding the availability of this function.

Controls up to 50 Groups/ 50 units, for details, refer to its description.

Optional Parts For Control

Model	Description
PAC-SE41TS-E	Remote Sensor for A/J/K/M-Net Control
PAC-SE55RA-E	Remote ON/OFF adaptor for Indoor Unit
PAC-SA88HA-EP	Remote Display Adaptor for Indoor Unit
PAC-SC37SA-E	Output signal connector
PAC-SC36NA-E	Input signal connector
PAC-SF46EPA-G	Transmission booster
PAC-SC51KUA	Power supply unit
PAC-YT51HAA-J	External input/output adapter for AT-50B
PAC-YG10HA-E	External input/output adapter for AE-200E
PAC-YG82TB-J	Mounting attachment for AE-200E wall-mount installations
PAC-YG84UTB-J	Electrical box for AE-200E wall-embed installations
PAC-YG86TK-J	Mounting kit for AE-200E wall-mount installations
PAC-YG72CWL-J	Surface cover with USB port for AE-200E

Centralized controller AE-200E/AE-50E



Dimensions

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

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

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

*1. The floor plan image function is optional.

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

- · Up to 50 indoor units can be managed.
- Centralized control of up to 200 indoor units can be performed with three "AE-50E/EW-50E" expansion controllers.
- More than 200 indoor units can be managed by connecting the PC to the web browser.*1
 - *1. Please contact your local distributor regarding support for this feature.

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

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

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



Comparing the number of connectable units



System Structure



Functions

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

Item	Description	Setting	Display
Controllable number of units	Up to 50 units/50 groups		
ON/OFF	ON and OFF operation for the air conditioning units and general equipment. (PAC-YG66DCA is required to operate general equipment.)	$00\Delta \bullet$	00
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 * Auto mode is for CITY MULTI R2 and WR2 Series only.	$\circ \circ \land \bullet$	0
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	$00 \Delta \bullet$	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)	$00\Delta \bullet$	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 occurring on an air conditioning unit, the affected unit and the error code are displayed.	×	
Test run	This operates air conditioning units in test run mode.	$00\Delta \bullet$	0
Ventilation interlock	The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.	$00\Delta \bullet$	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 external I/O adapter (PAC-YG10HA) sold separately. Only one input can be selected from the above inputs.	O	0
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.	×	□ ○ ●*3
ME remote controller	The status of sensor on this controller can be monitored.	×	0
Smartphone/Tablet	The specified web browser on iOS and Android OS can monitor and operate the AE-200E. *1	Ô	Ó
New web design	Revised web screen design for a more user friendly interface. *1	$00\Delta \bullet$	0
Apportionment of power consumption	Apportionment of power consumption can be calculated on the AE-200 *2		🗌 🌒 *3
BACnet [®] communication	ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1	0	× *3

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



Example of AE-200E Functions

Remote air conditioner operation in each room from the front desk

For Hotels

The air conditioner in each room can be remotely operated from the AE-200E installed at the front desk. It is unnecessary to keep air conditioners running; the rooms are air-conditioned before guests enter. All air conditioners in the hotel can be controlled using the scheduling function.



Operation and monitoring using a web browser*

Air conditioning units can be operated and monitored from LAN-connected personal computers, tablets, and smartphones. You can easily see the operation conditions of units in the same manner as when browsing a website.

For Hotels

For Offices

<image>

You can control air conditioners that have not been turned off while on patrol right from your tablet without returning to the central management office.

* A Wi-Fi router is required to use this function.

* A Wi-Fi router is required to use this function.



Centralized controller





Main Features

- Can be used as an expansion controller for the AE-200E Up to 200 indoor units can be operated and monitored by connecting three EW-50E units to an AE-200E controller.
- Function to apportion electricity charges

The power consumption of each air conditioner can be calculated with an AE-200E controller. The calculated data can be output to a PC via a USB memory device or LAN, and billing charges can be prepared using a specific charge calculation tool.

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

System Structure



• Air conditioner units can be operated and monitored independently using a PC

Even without an AE-200E controller, the EW-50E can operate and monitor air conditioner units using browser software*1. Air conditioners can be operated and monitored remotely via the Internet. In addition, air conditioners in multiple buildings can be operated collectively.*2

- * 1. This operation has been confirmed on Internet Explorer 11, Edge or on Google Chrome ver.83, and Safari 13.
 - It is recommended to use a browser other than Microsoft Internet Explorer because Microsoft will end the support for Internet Explorer 11 in June 2022. Microsoft® Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the United States and other countries
 - Google is a registered trademark of Google LLC
 - Google Chrome is a registered trademark of Google LLC. in the U.S. and other countries.
 - Edge is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries
 - Safari is a trademark or registered trademark of Apple Inc. in the U.S.
- 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 connect the EW-50E directly to the Internet. Instead, always connect via a router using the VPN function to ensure security.



Manage air conditioner usage conditions

Energy consumption of air conditioners can be displayed in an easy-to-understand manner using a web browser. * Energy Management License Pack (optional) is required.

* For the billing function, PI Controller and watt-hour meter with pulse transmitter (locally available one) are required.



· Operable without the transmission line power supply unit

The EW-50E unit is equipped with a power supply function. Power supplied by a transmission line power supply unit is not necessary. Since an outside power supply is not needed, self-sustained operation is possible even when the outdoor unit system is down. (In cases where the power consumption factor exceeds 1.5, a power supply unit is needed.)



Energy-saving control

With the addition of an energy-saving control license (optional product), the set temperature can be automatically changed* according to the room temperature around the air conditioner unit to allow greater energy savings without sacrificing comfort.

* 1. With this function, the set temperature can be changed in +2°C/4°F increments for cooling and -2°C/4°F increments for heating during a set time interval. In cases where the intake temperature and the set temperature are significantly different, exclusion from the energy-saving target is possible.

Functions

* The functions and spec	ifications are subject to change. ©: By group or multiple groups 🔿: By group	up 🗌: Ba	tch only
Item	Remarks	Setting	Display
ON/OFF	Switches air conditioners and general equipment ON or OFF.	0	0
Operation mode switching	Switches to cool, dry, auto, fan, or heat operation. * Some modes are not available depending on the unit.	0	0
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	O	0
Set temperature 0.5°C/1°F increments	The temperature can be set and displayed in 0.5°C/1°F increments. * With some unit combinations, the temperature is set in 1°C/2°F 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.	O	0
Air direction setting	Fixed swing in 5 levels or auto air direction can be set. * Available air directions differ depending on the unit.	0	0
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 AT-50B, PAR-41MAA, PAR-U02MEDA, and PAC-YT52CR models.	O	0
Room temperature display	Displays the suction temperature of the indoor unit.	—	0
Error display	Displays the current error content together with the address.	-	O
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. * Optional part required.	-	0
Ventilator operation (solo)	Group operation is 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.	O	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 external I/O adapter (PAC-YG10HA) sold separately. Only one input can be selected from the above inputs.		_
External output (error output, operation output)	Using the level signal, ON/OFF, and Error/Normal are output. * Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately.	-	
Web browser	Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy-saving control setting (option), energy-saving peak cut setting (option), set temperature range restrictions, other	©.,	© .,
Filter reset	Filter sign reset	0	0
Connectable location	Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable	-	_

Notes

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

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

Connectable equipment: CITY MULTI

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

Advanced Touch controller AT-50B



Dimensions

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

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

System structure



Design

Backlit LCD Touch Panel

The 5-inch color LCD (Liquid Crystal Display) touch panel enables easy and simple operations. When the backlight is off, touching the panel turns on the backlight. The backlight will remain on for a preset length of time. The touch panel displays operation status of the units in GRID, LIST, or in GROUP form.



GRID (zoom out) screen

Displays operation status of all groups.



GRID (zoom in) screen

Displays the operation status details of each group by group name.

		10:00PM 🕋
01	LIVING ROOM	233
02	DINING ROOM	\$ 25 ℃≪
03 🗬	P ENTRANCE	🌞 🌡 25 °C
05	LIBRARY	🌞 🖗 40 °C 🗈
06	RECEPTION ROOM	? 🛆
9	▲ 1/5 ▼ -8	🞇 Operate

LIST screen

Displays the operation status details of each group.



GROUP screen

Displays the operation status details of each group. Sets group operations.

Functions

Controls 50 indoor units in all

One screen shows the operation conditions of 50 connected indoor units.

Weekly and daily schedule

Five one-day schedule patterns and 12 weekly schedule patterns (max. 16 settings per pattern) Two weekly schedules can be set.

System changeover

The operation mode can be changed according to the indoor temperature settings, target temperature of each group, or a representative indoor unit.

Main system controller/Sub-system controller

The AT-50B can be used as any of the main and sub system controllers. When it is connected to a system controller, such as the AE-200E, it is used as a sub controller. When some units of the AT-50B are connected, the main and sub controllers can be determined.

Functions [Basic Functions]

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

Advanced Functions

Night setback function

When the room temperature goes outside of a certain range during the predetermined period, this function automatically starts heating or cooling operation to prevent dew condensation or an excessive temperature increase in the room.



Simple button arrangement

The F1 and F2 buttons beside the main screen can be customized for frequently used functions. (Schedule/Operation Mode/Temperature Correction/Remote Controller Restriction)

ltem	Description	Setting	Display	
Permit / Prohibit	The ON/OFF, operation mode, setting temperature, fan speed, air direction, filter sign reset operations, and timer using the local remote controllers can be prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group. *The settable items vary depending on the models.	0	0	
Operation lock	The operation lock can be set to the input operation of the 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 occurring on an air conditioner unit, the affected unit and the error code are displayed. * When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen shows on abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code, and source of detection.	×		
Ventilation (independent)	Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.	0	0	
Ventilation (interlocked)	The LOSSNAY will run in interlock with the operation of the 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 in cooling, heating, and auto modes. This function cannot be used with the MA remote controller. (Depends on the indoor unit model.)	0	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	0	
External input (Emergency stop input, etc.)	The following input with level signals or pulse signals are available. Level signal: "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/volupt adapter (PAC-YT51HAA (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 (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site.	0	O	
Checking the Gas Amount	Use this function to check for a 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 of up to 12 patterns is available. In one pattern, up to 16 settings for "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction", and "Permit / Prohibit local operation" can be scheduled. Two types of weekly schedules (Summer/Winter) can be set. Today's schedule allows setting of up to 5 patterns.	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.

ON/OFF remote controller PAC-YT40ANRA

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



Dimensions

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

System example



Control of up to 16 groups/50 indoor units is possible

- •Up to 16 groups/50 units can be operated with one ON/OFF remote controller.
- •A general-purpose interface is available for control, allowing general devices to also be turned ON and OFF.

Just press a switch to start

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

• LED flashing during failure

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

Interlock operation with external system is possible

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

Flexible group setting

- Groups can be easily configured, allowing the group pattern to be freely set according to the layout.
- The ON/OFF remote controller can be connected at the indoor/outdoor transmission line without the power supply unit.

NOTE

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

Indoor unit

Advantages of CITY MULTI Outdoor/Heat source unit

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

Function	Description	PAC-YT	40ANRA	
UNITS	Max No.Units	50 units/1	50 units/16 groups	
		Setting	Display	
ON/OFF	ON and OFF operation	0	0	
Error indication	LED flashes during failure. (The error code can be confirmed by removing the cover.)	x	0	
Ventilation operation (Independent)	Group operation of only LOSSNAY units possible. *Only ON/OFF of group.	0	0	
Ventilation operation (Interlocked)	The LOSSNAY will run in interlock with the operation of the indoor unit. *The fan rate and mode cannot be changed. The LED will turn ON only during operation after interlocking.	0	0	
External input	On and Off operation / Fire Alarm*		х	
External output	On and Off operation / Faults*	Х		

* Applicable to collective only Not applicable to groups

Wired MA remote controller PAR-41MAAM 🐠



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

Highlight display

*Factory setting : White

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



• Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

Full-dot LCD display with large characters for easy viewing Contrast also adjustable

Night Setback

When the room temperature goes outside of a certain range during the predetermined period, this function automatically starts heating or cooling operation to prevent dew condensation or an excessive temperature increase in the room.

3D i-see sensor*

Settings for 3D i-see sensor can be performed.

Draft reduction*

"Close" has been added to the manual vane angle selection. The air outlet can be closed to reduce drafts from the air conditioner.

Auto descending panel*

Panels can be lowered/raised using the remote controller. The descending distance of the panel can also be selected.

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

Functions O: Available X: Not a			Not available
Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Dry / Fan / Auto / Heat.	0	0
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit 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 CITY MULTI LOSSNAY units can be performed. 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 above information 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 applying certain settings on the centralized controller: ON/OFF, operation mode, temperature, filter sign reset, air direction, fan speed and timer. * While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode).	х	0
Operation lock	The following operations can be prohibited: "Location," "ON/OFF," "Mode," "Set temp.," "Menu," "Fan," "Louver," or "Vane."	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 minutes in 10-minute increments.) * Not valid when the temperature setting range is restricted.	0	x
Daylight saving time	The start / end time for daylight saving time can be set. The daylight saving time function will be activated based on the setting contents.	0	0

○: Available X: Not available

Wired MA remote controller PAR-21MAA



Language

Cool

Dry

Heat

Auto

Fan

Auto(Cool)

Auto(Heat)

Ventilation

Stand by (Hot adjust)

Defrost

Waiting for start-up

Operation mode

Button not used

Check (Error)

Test run

Self check

Unit function selection

Setting of ventilation

Operation mode switching

Functions

Item ON/OFF

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

English

PLEASE WAIT

©COOL

O DRY

≍HEAT

2::CALITO

17000F

‡‡HEAT

\$FAN

302 LATION

STAND BY

DEFROST

NOT AVAILABLE

TEST RUN

SELFCHECK

FUNCTION

SETTING OF VENTILISTION

ON a

Switc * Auto

Снеск

German

ÖKühlen

Olrocknen

☆Heizen

‡‡AUTO

‡‡Kühlen

t≓tHeizen

SSLüfter

Set lase

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Nicht Verfusbar

Testbetrieb

Prüfen

selbst -diagnose

FUNKTION SAUSWANI

Lüfterstufen

Spanish

4

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‡‡(ALOR

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382 LACIÓN

CALENTANDO

OESCONGE -

NO DISPONIBLE

COMPROBAR

TEST FUNCIO

SELECCIÓN DE FUNCIÓN

AUTO REVISIÓN

Russian

ФХолоа

ОСушка

☆Тепло

Давто

‡‡Холод

‡‡Тепло

\$\$Вент

₩Венти-

Оттаивание

НЕ АОСТУПНО

Προβερκα

Тестовый Запуск

Гамодиаг-Ностика

Выбор Функции

- 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 settings per day in one-minute increments. Setting kept in nonvolatile memory. No need to worry about resetting after a power failure.

• Self-diagnosis function immediately reports an error code in case of malfunction

Example of system configuration

Italian

ÖCOOL

O DRY

≍HEAT

2;‡AUTO

##COOL

t;tHEAT

COVENTI

NON DISPONI<mark>BILE</mark>

TEST RUN

SELF CHECK

SELEZIONE FUNZIONI

STAND BY

SBRINA MENTO

Снеск

~



Chinese

②制冷

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LATION

332 LATION

PRE CHAUFFAGE

DEGIVRAGE

NON DISPONIBLE

CONTROLE

AUTO CONTROLE

SELECTION FONCTIONS

0

TEST

~

Non-polarized 2-wire	
remote controller	

Japanese	
←	
②冷房	
0151	
淬暖房	
は自動	
\$\$冷房	
\$2300房	
\$3送風	
392换気	
準備中	
霜取中	
無効的リ	

点検

試ウリテソ

記シンダン

もり選択

Display

0

Advantages of CITY MULTI Outdoor/Heat source unit

Indoor unit

Remote Controller

C	0	
×	O ^{*1}	
×	0	

	□: Each unit	O: Each group	O: Group or co
Description			
nd OFF operation for a single group			
hes between Cool / Dry / Auto* / Fan / Heat. Operation m o only supported for the CITY MULTI R2 and WR2 Series	nodes vary dep s.	ending on the air	conditioner unit.
ges the set temperature. temperature range varies depending on the indoor unit n	nodel.		
Is with 4 air flow speed settings: High/Mid-1/Mid-2/Low Is with 3 air flow speed settings: High/Mid/Low Is with 2 air flow speed settings: High/Low peed setting (including Auto) varies depending on the m	odel.		
w direction angles (4-angle, or 5-angle Swing) Auto Louv	ver ON/OFF		

r collective X: Not available

(ONFIG. VENTILACIÓN HALTPOMKA BENTYETAN. IMPOSTAZIONE ARIA ESTERNA 换气设定 SELECTION VENTILATION 換氦定

Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	0	0
Fan speed setting	Models with 4 air flow speed settings: High/Mid-1/Mid-2/Low Models with 3 air flow speed settings: High/Mid/Low Models with 2 air flow speed settings: High/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, " [] " is displayed.	х	0*1
Prohibition/permission of specified mode (Cooling prohibited/heating prohibited /cooling-heating prohibited)	Operation for the following modes is prohibited through System Controller settings: At cooling prohibited: Cool, Dry, Auto, At heating prohibited: Heat, Auto, At cooling-heating prohibited: Cool, Heat, Dry, Auto	х	0
Error	When an error is occurring on an air conditioner unit, the affected unit and the error code are displayed.	Х	
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

ME remote controller PAR-U02MEDA



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

Example of system configuration



Occupancy Sensor

The occupancy sensor detects when the room is empty and provides energy-saving control.

Touch Panel & Backlit LCD

The operation settings screen is a touch panel. When the backlight is off, touching the panel turns on the backlight. The backlight will remain on for a preset length of time.

LED Indicator

The color of the LED indicator indicates operation status. The LED indicator is lit during normal operations, and is not lit when units are stopped. In case of error, the indicator blinks.

Brightness Sensor

The brightness sensor detects brightness in the room and provides energy-saving control.

• Temperature & Humidity Sensor

The sensor detects room temperature and relative humidity.



Functions

Functions		: Available	\times : Not available
Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Dry / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model.	0	0
Temperature setting	Changes the set temperature. * Set temperature range varies 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 applying 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. A contact number can be set to appear when an error occurs. (The information above needs to be entered in 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 vacancy	When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated. Four control types are available for selection: ON/OFF/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



Example of use of PAR-U02MEDA

Automatic turning off air conditioners

Mitsubishi Electric remote controller has an occupancy sensor to automatically turn off the air conditioner when the room is empty. With ME Remote Controller





The occupancy sensor of the ME remote controller detects the conditions in the room, and the ME remote controller will automatically turn the air conditioners on or off.



For Offices

For Commercial Facilities

For Hotels



Partitioning can be installed later when a ME Remote Controller is used.

• With ME Remote Controllers:





The ME remote controller can be operated when it is connected with any of the indoor units.

When changing the room layout, you can set the groups easily with the remote controller.

MA remote controller PAR-CT01MAA-S



Dimensions

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

User-friendly

Full color touch panel display



Touch Panel



3.5 inch/HVGA Full Color LCD



Operation panels

Large icons are easily visible on the full color touch panel display.

• Flexibility

Customized display, color of parameter and background, editable parameter on the initial display.



Ventilation



14:30Fri

Sa U

Flexibility

Multiple color patterns

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

Control parameter customization

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



Vane control

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



System example

Functions

Item



 $^{*}\mbox{When}$ a PAR-CT01MAA is connected to a group, no other MA remote controllers can be connected to the same group.



Unit: mm[in.]

⊖: Available X: Not available

Indoor unit

Advantages of CITY MULTI Outdoor/Heat source unit

Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Dry / Fan / Auto / Heat.	0	0
Temperature setting *	Changes the set temperature. * The settable temperature range varies depending on the indoor unit model. * Temperature will be displayed either in Celsius in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.	0	0
Relative temperature display	Changes the target temperature by selecting the temperature difference (between +3 and +5°C or -3 and -5°C, in 1°C increments) between the preset reference temperature and the target temperature in the cool, dry, heat, or auto (single set point) mode. *The temperature can only be set to a value within the operation temperature range of the indoor unit. *When the relative temperature display is selected, certain restrictions apply to the system controller functions. *The reference temperature needs to be set to each operation mode.	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
Louver setting	Switches between louver ON/OFF.	0	0
Ventilation equipment control	Interlocked setting and interlocked operation setting with CITY MULTI Lossnay units can be performed. The Stop/Low/High settings of the ventilation equipment can be controlled.	0	0
Daylight saving time	The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the settings.	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
Touch panel	The touch panel can be cleaned and calibrated.	_	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 applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, and filter sign reset. * While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode).	×	0
Operation lock	The following operations can be prohibited: "Location." "ON/OFF," "mode." "Set temp." "Menu." "Fan." "Louver." or "Vane."	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 minutes in 10-minute increments.) * Not valid when the temperature setting range is restricted.	0	×
Design	The color of the screen can be changed.	0	0

Simple MA remote controller PAC-YT52CRA



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

Example of system configuration



Backlit LCD

Backlight for operation in dark areas

Flat back

Slim and flat type. Hole-free installation on walls Less than 14.5 mm [19/32 in.] thick.

Vane button (standard)

A vane adjustment button has been added to allow the user to change the direction of the air flow (ceiling-cassette and wall-mounted types).

Pressing the $\boxed{3}$ button will switch the vane directions.

©[]	_ D _		- D, +			+ 50
AUTO	Setting 1	Setting 2	Setting 3	Setting 4	Setting 5	Swing

* Air flow direction settings will vary depending on the connected indoor unit model. * For models without a vane adjustment function, air flow direction cannot be set. In such cases, the vane icon blinks when the $\boxed{3}_{4}$ button is pressed.

- •Only cross-over wiring based on two-wire signal lines is required.
- Room temperature sensor is built-in.
- Can be used to operate all types of indoor units. *As this controller has limited functions, please use it in conjunction with the standard controller or a central controller.
- •LCD temperature settings and display are in 1°C /2°F increments.

Functions

Functions	□: Each unit ○: Each	group X: N	lot available
Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	0	0
Operation mode switching	Switches between Cool / Dry / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model.	0	0
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	0	0
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	0	0
Vane setting	Switches the vane directions. * The settable vane direction 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 can be prohibited: ON/OFF, operation mode, preset temperature. * The CENTRAL icon appears while local operations are prohibited.	x	0
Error	Displays the current error status with the address. * The address may hot be displayed depending on the error status.	х	
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 LOSSNAY unit (LGH-R(V) X Type) 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

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

Dimensions 273(H) x 29(D) mm



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

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



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

Dimensions 214(H) x 25.5(D) mm



PAR-FA32MA

Dimensions

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



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



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

- No need to configure addresses for group operation
- Lit LED keeps you informed of operation the LED also provides you with error codes via the number of blinks
- Can be used with the MA remote controller
 *When used in group configurations, wiring between indoor units is required.
 *Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.
- Multiple indoor units cannot be controlled from the PAR-SL101A-E Only one indoor unit can be used in each group
- LCD temperature setting and display in 1°C /2°F increments

System configuration example



Advantages of CITY MULTI Outdoor/Heat source unit

Wireless remote controller

Compatibility table

Indoor unit model	Receiver model	Transmitter model		
PLFY-P VLMD-E				
PEFY-P VMR-E-L/R				
PEFY-P VMS1(L)-E				
PEFY-P VMA(L)-E4				
PEFY-P VMA3/4-E				
PEFY-P VMH(S)-E	PAR-FA32MA	PAR-FL32MA		
PEFY-P VMH(S)-E-F				
PFFY-P VKM-E2				
PFFY-P VEM-E				
PFFY-P VCM-E				
PMFY-P VBM-E				
PLFY-P VFM-E1	PAR-SF9FA-E	PAR-SL101A-E		
PLFY-P VEM-PA	PAR-SE9FA-E	(PAR-FL32MA)*1*2		
	PAR-SL	_94B-E		
PCFT-PVKW-E	(PAR-SL94B-E includes a	receiver and a transmitter.)		
		PAR-SL101A-E		
PMFT-P VFM-PA	PAR-SRZIMA-E	(PAR-FL32MA)*1*2		
PKFY-P VKM-E	Built-in	PAR-FL32MA		
	Duilt in	PAR-SL101A-E		
PKFI-P VLIVI-E	Built-IN	(PAR-FL32MA)*1*2		

*1 Use either PAR-SL101A-E or PAR-FL32MA to control each indoor unit, not both. *2 Multiple indoor units cannot be controlled with the PAR-SL101A-E. Only one indoor unit can be used in each . group.

Functions	⊖: Av	vailable X: N	Not available
Item	Description	Setting	Display
ON/OFF	ON and OFF operation for a single group	0	0
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	0	0
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-1/Mid-2/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Auto setting varies depending on the model.	0*1	0*1
Air flow direction setting	Air flow direction angles (4-angle, Swing) Auto Louver ON/OFF. Air flow direction settings vary depending on the model.	O ^{*1}	O ^{*1}
Timer operation	One ON/OFF setting can be set per 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).	х	O ^{*2}

*1 Some models will have a different display for the air flowdirection and fan speed. Set the air flow direction and fan speed when performing initial setting.
 *2 If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will sound and an LED will flash.

PI Controller PAC-YG60MCA



Dimensions

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

The PI controller counts pulses from a power meter, gas meter, water meter, and calorimeter.

Combining the use of the AE-200E/AE-50E/EW-50E allows for calculating the charges for each unit and performing peak cut (e.g., demand control) operation. The meters can be monitored on the AE-200E/AE-50E LCD.



Enables Energy Saving Control with the use of our 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 for failures, such as usage over the contracted electricity amount.



System Structure



Charge Calculation

Enables calculation of charges for each tenant and output it as a CSV file

System Structure



DIDO Controller PAC-YG66DCA



Dimensions

200(W) x 120(H) x 45(D) mm 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in. The DIDO controller is used in combination with an AE-200E/AE-50E/EW-50E to operate general-purpose equipment, as well as to monitor operating and error status. It is equipped with two sets of standard terminals (Channels 1 and 2), and four sets of expansion connectors for the input/output terminals. Expansion cable is optional.

Operation can be monitored or performed from the AE-200E/AE-50E LCD.

In addition, this device includes a function that interlocks M-NET devices such as indoor units, general equipment, etc.

General-purpose equipment Control

Enables controlling and monitoring equipment other than air-conditioners (air-conditioners from other companies, lights, ventilators, etc.)

- 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.



System Structure



Al Controller PAC-YG63MCA



Dimensions

200(W) x 120(H) x 45(D) mm 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in. The AI controller measures temperature and humidity; it also has an alarm capability if the measurement data exceed defined setpoints.

Historical measurement data can be displayed only via the AE-200E/AE-50E/EW-50E web browser .

Temperature and humidity can be displayed on the AE-200E/AE-50E LCD.

Furthermore, an alarm can be output if measurement data exceeds a preset upper or lower limit.

The AI controller also features a function that interlocks M-NET devices for indoor units, etc.

Temperature/Humidity Monitoring

Monitors the values measured by the temperature / humidity sensor connected to the AI controller Temperature: Pt100, 4 to 20 mA DC, 1 to 5 VDC, 0 to 10 VDC Humidity: 4 to 20 mA DC, 1 to 5 VDC, 0 to 10 VDC

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

System Structure Remote monitoring via a web browser I A E-200E I A I Controller Humidity sensor

Operation according to outside air temperature

This function controls the air conditioner's operation during the cooling/heating period to reduce the difference between the outside air temperature and the temperature in the building (near the entrance), thereby preventing stress to human health caused by rapid temperature changes. The function is effective in saving energy and can be set for each group.



The degree of change in set temperature from level 1 $(1^{\circ}C/2^{\circ}F)$ to 4 $(4^{\circ}C/8^{\circ}F)$ can be set for each air conditioner.



Time

BACnet®

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



EW-50E (AE-200E) can control up to 50 units/groups (including LOSSNAY).

*To use the BACnet® function on EW-50E (AE-200E), BACnet® license registration is required.

System example



BACnet® and M-NET Function

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

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

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

LOSSNAY System

What is LOSSNAY?

LOSSNAY is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

How does LOSSNAY work?

The LOSSNAY core located at the crosspoint of each airflow transfers heat and humidity while going through each cross-air passage.



Exhaust air <



Temperature and Humidity Exchange

Without total heat exchange, air-conditioned air inside the building is expelled, and new hot or cold air is directly brought into the building. LOSSNAY can prevent this by total heat exchange so that fresh outdoor air is conditioned before it is brought into the room.





2 Main Benefits of Heat Exchange Ventilation





"CO₂ Sensor" — Clean and Efficient Operation

• 16 Steps of Automatic Airflow Control by CO₂ Level

The CO₂ sensor controls airflow in 16 steps depending on the CO₂ level in the room. This saves energy by preventing over-ventilation while maintaining high indoor air quality.



• 2 Ways to Monitor CO₂ Level

 CO_2 level can be monitored with a LOSSNAY remote controller or wall-mounted CO_2 sensor.



• 2 Types of CO₂ Sensors

2 types of CO2 sensors are available. Power is supplied to both sensors from the LOSSNAY circuit board.



Other "Energy Saving" Features

"Flexible Airflow Setting"

Prevention of Over-Ventilation

Flexible airflow setting saves energy by preventing overventilation!

The fan speed of both supply and exhaust air can be flexibly adjusted within the range between 25% and 100% to ensure sufficient air volume. Airflow can be adjusted in 5% increments.



"Night Purge Mode"

Reduction of Morning Air Conditioning Load

When the air conditioner is off and outside air is cooler at night, the Night Purge Mode draws the cooler air into the room. This mode reduces the load when the air conditioning starts up the next morning.



Other "Clean" Features

"Advanced High Efficiency Filter"

The new optional filter (PZ-RFP3-E) removes 99.7% of particles larger than 0.5µm. By removing pollutants, fresh and clean air is supplied.

*GB/T 14295-2008: YG class 99.7% (Collecting efficiency for particles that are 0.5µm or larger) *PM2.5 is airborne particulates that are 2.5µm or smaller in size. *The collecting performance of airborne particulates smaller than 0.3µm has not been confirmed.



Removes Outside Pollutants

No heat exchange needed? Try the "Bypass Mode"

When air conditioning is off and heat exchange is not necessary, LOSSNAY can automatically switch to Bypass Mode. This enables simple ventilation while filtering outside pollutants, so indoor air quality is maintained without heat exchanging the outside air.



"EC Motor" — High Static Pressure and Low Power Consumption

LOSSNAY uses a high efficiency EC motor to realize low power consumption. The RVX3 series is equipped with Mitsubishi Electric's original EC motor, which delivers improved external static pressure compared to the previous RVX model in addition to low power consumption. It also allows flexible duct work.



The EC motor used in the RVX3 Series is developed and manufactured by Mitsubishi Electric.



^{*}The dotted lines of the fan curve indicate reference values

"Dual Barrier Coated Blades" - Reduce Maintenance Frequency

Dual Barrier Coating is applied to the fan blades of LOSSNAY to minimize the adherence of dirt. It keeps the fan in a cleaner state for a longer period of time and thus reduces maintenance frequency.





A water-repellent effect is achieved by creating a coating film that has nano-sized concave-convex structures formed by silica nanoparticles made of water-repellent fluororesin and micron-sized concave-convex structures formed by combining micron-sized specialshaped particles (silicate) with the silica nanoparticles. At the same time, the uneven structure forms an air layer that suppresses the adhesion of dust and sand that contain a lot of humidity, reducing the amount of dirt that adheres to the substrate.

"Vertical and Horizontal Installation" — Flexible Installation

The RVX3 Series can be installed vertically for greater flexibility of installing locations. By using optional parts, it can be installed in places such as the machine room where only vertical installation is possible.



"New Remote Controller" – Short Commissioning Time

New remote controller PZ-62DR-EB allows supply and exhaust air volume to be adjusted from FS1 to FS4 directly on one screen. It can also be operated while the fan motor is sensing the air volume. By using PZ-62DR-EB, the commissioning time for LGH-RVX3 is reduced by 75%⁻¹ compared to the previous RVX series when using PZ-61DR-E.



*1: The average reduction rate when our workers actually install LGH-100RVX-E with PZ-61DR-E and LGH-100RVX3-E with PZ-62DR-EB. Setting work involves changing the air volume of supply/exhaust air. The time that can be reduced varies depending on the operator and work conditions.

192

RVX3 is tested under International standards!

From the new RVX3 Series, LOSSNAY is tested under the latest ISO and EN international standards in place of the conventional JIS Japanese standard. Testing under the standards of European countries can more widely prove that LOSSNAY is ecological at the global level.

Due to the change in testing standards, the method for testing temperature and enthalpy exchange has also changed, so that values are now shown to be lower than the previous model.



The LOSSNAY RVX3 Series also complies with the ErP (Energy-related Products) Directive which is required in the EU.

RVX3 is ErP Compliant!

ErP stands for Energy-related Products and refers to products that have an impact on energy consumption during use.

Being ErP compliant proves that **products meet the regulation set out by the European Commission.** Compliance with ErP indicates that LOSSNAY is a high-efficiency, ecological product.

■ Regulations for compliance with the ErP Directive

Criteria
1 Air volume can be controlled by 3 or more notches.
2 Has a bypass mode.
3 Complies with the required specific energy consumption.
4 Shows a signal when filter exchange is needed.
1 Air volume can be controlled by 3 or more notches.
2 Has a heat recovery function.
3 Has a bypass mode.
4 Heat recovery rate for heating is 73% or more.
5 Complies with the required specific fan power.

Specifications & Dimensions

LGH-15RVX3-E LGH-25RVX3-E LGH-35RVX3-E LGH-50RVX3-E

LGH-65RVX3-E LGH-80RVX3-E LGH-100RVX3-E



LGH-160RVX3-E LGH-200RVX3-E



Model	LGH-15RVX3-E						
Electrical power supply			220-240V/50H	łz, 220V/60Hz			
Fan speed		4	3	2	1		
Default Airflow setting		100%	75%	50%	25%		
Input power (W) ^{*1}		55	30	15	10		
Airflow ^{*1}	(m³/h)	150	113	75	38		
Airnow	(L/s)	42	31	21	10		
Specific fan power [W/(L/s)] ^{*1}		1.32	0.96	0.72	0.96		
External static pressure (Pa) ^{*1}		120	68	30	8		
Temperature exchange efficiency	Heating	73.5	75.5	78.0	81.5		
(%) ^{*1}	Cooling	65.5	70.5	73.5	78.0		
Enthelpy exchange efficiency $\binom{0}{1}^{*1}$	Heating	70.5	73.5	76.5	80.5		
Enthalpy exchange enciency (%)	Cooling	58.0	62.0	66.0	73.0		
Noise (dB) ^{*2}		27.0	22.0	18.0	17.0		
Exhaust air transfer ratio (%) ^{*3}	5						
Weight (kg)	20						

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

*1 : Measured according to ISO 16494-1: 2022 *3 : Measured according to EN308: 2022 / FS3 *2 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.

Characteristic Curve of the LGH-15RVX3-E



Dimensions of the LGH-15RVX3-E

Alternative duct position Bypass damper plate Ceiling suspension fixture (4-13×20 oval) Air exhaust far 6 (exhaust air) RA (return air) 610 358 OA (outside air)⇔ -∖ SA 20 65 119 50 Air supply fan Inspection opening 450 × 450 or more Control box 289 Efficiency filter, lore 150 Maintenance cover fan Power supply cable opening LOSSNAY core Optional High-Efficiency filter position 780 ß Alternative duct position VAir filter Unit (mm)

• Certain ratings and specifications may change due to product improvements or modifications. • Refer to the product manual for safety precautions.

■ LGH-25/35RVX3-E

Model		l	LGH-25	RVX3-E		LGH-35RVX3-E			
Electrical power supply		2:	20-240V/50H	lz, 220V/60H	łz	22	20-240V/50H	lz, 220V/60H	łz
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) ^{*1}		75	42	21	11	120	61	29	15
Airflow ^{*1}	(m³/h)	250	188	125	63	350	263	175	88
AITIOW	(L/s)	69	52	35	17	97	73	49	24
Specific fan power [W/(L/s)] ^{*1}		1.08	0.81	0.60	0.63	1.23	0.84	0.60	0.62
External static pressure (Pa) ^{*1}		120	68	30	8	160	90	40	10
Temperature exchange efficiency	Heating	75.5	78.5	81.0	88.0	75.0	77.0	79.0	82.0
(%) ^{*1}	Cooling	70.5	76.5	79.0	85.0	66.5	71.0	74.0	79.0
Enthelmy exchange officiency $(0/)^{*1}$	Heating	69.0	72.0	75.5	84.0	72.0	74.5	77.5	80.0
Enthalpy exchange enciency (%)	Cooling	59.0	63.5	68.0	75.0	60.0	64.5	68.5	74.5
Noise (dB) ^{*2}		30.5	25.0	19.5	17.0	30.5	24.5	19.0	17.0
Exhaust air transfer ratio (%) ^{*3}		5			5				
Weight (kg)		22			30				

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

*1: Measured according to ISO 16494-1: 2022 *2: A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.

*3 : Measured according to EN308: 2022 / FS3

Characteristic Curve of the LGH-25RVX3-E



*The dotted lines of the fan curves are reference values.



Dimensions of the LGH-25RVX3-E

Characteristic Curve of the LGH-35RVX3-E



*The dotted lines of the fan curves are reference values.



Dimensions of the LGH-35RVX3-E

• Certain ratings and specifications may change due to product improvements or modifications. • Refer to the product manual for safety precautions.

Advantages of CITY MULTI

Outdoor/Heat source unit

Indoor unii

Remote Controller

Lossnay

Other Commercial Proposal

Model			LGH-50	RVX3-E		LGH-65RVX3-E			
Electrical power supply		22	20-240V/50H	Hz, 220V/60H	łz	22	20-240V/50H	lz, 220V/60H	Ηz
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) ^{*1}		185	81	34	15	245	120	51	20
Airflow ^{*1}	(m³/h)	500	375	250	125	650	488	325	163
AITIOW	(L/s)	139	104	69	35	181	135	90	45
Specific fan power [W/(L/s)] ^{*1}		1.33	0.78	0.49	0.43	1.36	0.89	0.56	0.44
External static pressure (Pa) ^{*1}		150	85	38	10	150	85	38	10
Temperature exchange efficiency	Heating	70.5	71.5	73.5	75.0	72.5	75.0	78.5	82.0
(%) ^{*2}	Cooling	63.5	67.0	71.0	73.0	65.0	70.0	74.5	80.0
Enthalpy exchange officiency $(9/)^{*2}$	Heating	68.5	69.5	72.0	73.0	69.5	72.0	76.5	80.0
Entralpy exchange enciency (70)	Cooling	53.5	58.0	63.0	68.0	55.5	60.0	66.5	74.0
Noise (dB) ^{*3}		35.0	27.0	21.0	17.0	37.5	31.5	24.0	17.5
Exhaust air transfer ratio (%) ^{*4}		5				5			
Weight (kg)		33			41				

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

*1 : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65RVX3-E) EN13053: 2019
 *2 : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65RVX3-E) EN308: 2022

*3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.

*4 : Measured according to EN308: 2022 / FS3

Characteristic Curve of the LGH-50RVX3-E



*The dotted lines of the fan curves are reference values



Dimensions of the LGH-50RVX3-E

Characteristic Curve of the LGH-65RVX3-E



*The dotted lines of the fan curves are reference values.

Alter Bypass da Ceiling suspension fixture <u>(4-13×20 oval)</u> (4-13×20 oval) 124 895 Air exhaust fan RA (exhaust air) (return air) Ô 954 692 OA (outside air) ▷ SA (supply air) ⇒ at il 70 20 Maintenance space for USC - 022 - 021 Efficiency filter, and fan 40 Inspection Air supply fan 124 opening 450 × 450 Control box Maintenance cover or more Power supply cable opening LOSSNAY cor Optional High-Efficiency filter position 79 908 79 6 <u>3192</u> Alternative duct position Unit (mm) Air filter

Dimensions of the LGH-65RVX3-E

• Certain ratings and specifications may change due to product improvements or modifications. • Refer to the product manual for safety precautions.

Installation information

LGH-80/100RVX3-E

Model			LGH-80	RVX3-E		LGH-100RVX3-E			
Electrical power supply		22	20-240V/50H	Hz, 220V/60H	łz	22	20-240V/50H	lz, 220V/60H	Ηz
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) ^{*1}		343	160	64	23	438	210	83	27
Airflow ^{*1}	(m³/h)	800	600	400	200	1000	750	500	250
AITIOW	(L/s)	222	167	111	56	278	208	139	69
Specific fan power [W/(L/s)] ^{*1}		1.54	0.96	0.58	0.41	1.58	1.01	0.60	0.39
External static pressure (Pa) ^{*1}		170	96	43	11	190	107	48	12
Temperature exchange efficiency	Heating	75.0	76.5	78.0	80.0	75.5	77.0	79.5	83.5
(%) ^{*2}	Cooling	65.0	70.0	75.5	78.0	67.5	72.0	77.0	82.5
Enthelmy exchange officiency $(0/)^{*2}$	Heating	62.0	65.0	70.5	73.5	60.5	63.0	68.5	75.5
Enthalpy exchange enciency (%)	Cooling	54.5	58.5	65.0	70.5	55.5	61.0	66.0	73.5
Noise (dB) ^{*3}		39.0	33.5	25.0	18.0	40.0	35.0	27.0	18.5
Exhaust air transfer ratio (%) ^{*4}		5			5				
Weight (kg)		47				53			

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

*1 : Measured according to EN13053: 2019 *2 : Measured according to EN308: 2022

*3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.

*4 : Measured according to EN308: 2022 / FS3

Characteristic Curve of the LGH-80RVX3-E



*The dotted lines of the fan curves are reference values.

Alternative duct position Ceiling suspension fixture (4-13×20 oval) Bypass damper plate Air exhaust fan 77 RA (exhaust air) 🖨 40 (return air) 1004 690 051 (outside air) □ SA (supply air) 000 77 20 Maintenance space for Leg Core, air filter, High-Efficiency filter, Inspectio 250 165 40 Air supply fan opening 450 × 450 Control box 404 nore 150 Maintenance cover or more fan Power supply cable opening LOSSNAY core Optional High-Efficiency filter position 1144 79 Alternative duct position VAir filter Unit (mm)

Dimensions of the LGH-80RVX3-E

Characteristic Curve of the LGH-100RVX3-E



*The dotted lines of the fan curves are reference values.

Ceiling suspension fixture (4-13×20 oval) Alternative duct position Bypass damper plate 165 1131 Air exhaust fan 77 (exhaust air) 🖨 RA 40 (return air) 1231 H OA (outside air) ⇔ ⇔ SA (supply air) 600 20 77 Maintenance space for Inspection 40 165 Air supply fan Core, air filter, Highopening 450 × 450 Control box Maintenance cover Power supply cable opening Efficiency filter, <u>150</u> or more fan LOSSNAY core Optional High-Efficiency filter position 1144 79 6 Alternative duct position Air filter Unit (mm)

Dimensions of the LGH-100RVX3-E

• Certain ratings and specifications may change due to product improvements or modifications. • Refer to the product manual for safety precautions.

■ LGH-160/200RVX3-E

Model		L	.GH-160	DRVX3-I	Ξ	LGH-200RVX3-E			
Electrical power supply		22	20-240V/50H	lz, 220V/60H	łz	2:	20-240V/50H	Hz, 220V/60H	łz
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) ^{*1}		687	324	128	45	855	416	163	57
Airflow ^{*1}	(m³/h)	1600	1200	800	400	2000	1500	1000	500
Annow	(L/s)	444	333	222	111	556	417	278	139
Specific fan power [W/(L/s)] ^{*1}		1.55	0.97	0.58	0.41	1.54	1.00	0.59	0.41
External static pressure (Pa) ^{*1}		170	96	43	11	170	96	43	11
Temperature exchange efficiency	Heating	75.0	76.5	78.0	80.0	76.5	77.5	79.5	83.5
(%) ^{*2}	Cooling	65.0	70.0	75.5	78.0	66.5	71.5	76.0	82.5
Enthelpy exchange officiency $\binom{0}{2}^{*2}$	Heating	62.0	65.0	70.5	73.5	60.5	64.0	67.5	76.0
Enthalpy exchange enciency (70)	Cooling	54.5	58.5	65.0	70.5	57.0	60.0	65.0	71.0
Noise (dB) ^{*3}		41.0	35.0	26.0	18.0	41.5	36.0	27.5	18.0
Exhaust air transfer ratio (%) ^{*4}		5				5			
Weight (kg)		96			108				

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz.

*1 : Measured according to EN13053: 2019 *2 : Measured according to EN308: 2022

*3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.

*4 : Measured according to EN308: 2022 / FS3

Characteristic Curve of the LGH-160RVX3-E



*The dotted lines of the fan curves are reference values.



Dimensions of the LGH-160RVX3-E

Characteristic Curve of the LGH-200RVX3-E



*The dotted lines of the fan curves are reference values.

Dimensions of the LGH-200RVX3-E



• Certain ratings and specifications may change due to product improvements or modifications. • Refer to the product manual for safety precautions.

Installation information

Optional Parts

Remote Controllers

Compatibility Table

Model	PZ-62DR-EB	PZ-43SMF-E
Image	LOTAN	Image: Constraint of the second se
Dimension	120 T T T T T T T T T T T T T T T T T T T	70 Lower Case Unit (mm)
Fan speed selection	4 fan speeds and Auto (Auto is available when using a $\rm CO_2$ sensor)	2 or 4 fan speeds
Control with a CO₂ sensor (Mitsubishi Electric)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO_2 concentration*)	No
Control with a CO₂ sensor (field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*)	No
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto
Night-purge	Yes	No
Function setting from remote controller	Yes	No
Bypass temp. free setting	Yes	No
Flexible airflow setting	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No
ON/OFF timer	Yes	Yes
Auto-off timer	Yes	No
Weekly timer	Yes	No
Fan speed timer	Yes	No
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	No
Operation restrictions (fan speed skip setting)	Yes	No
Screen contrast adjustment	Yes	No
Language selection	Yes (10 languages)	No (English only)
CO ₂ concentration indication	Yes (Available when using a Mitsubishi Electric CO ₂ sensor)	No
CO ₂ concentration indication	Yes (Available when using a Mitsubishi Electric CO ₂ sensor) Yes (Maintenance interval can be changed)	No Yes
CO ₂ concentration indication Filter cleaning sign LOSSNAY core cleaning sign	Yes (Available when using a Mitsubishi Electric CO ₂ sensor) Yes (Maintenance interval can be changed) Yes	No Yes No
CO ₂ concentration indication Filter cleaning sign LOSSNAY core cleaning sign Error indication	Yes (Available when using a Mitsubishi Electric CO ₂ sensor) Yes (Maintenance interval can be changed) Yes (Displays model name, serial number, contact information)	No Yes No Yes
CO ₂ concentration indication Filter cleaning sign LOSSNAY core cleaning sign Error indication Error history	Yes (Available when using a Mitsubishi Electric CO ₂ sensor) Yes (Maintenance interval can be changed) Yes (Displays model name, serial number, contact information) Yes	No Yes No Yes No

*When using a CO₂ sensor, upper and lower limits may differ.

• Certain ratings and specifications may change due to product improvements or modifications.

Control

The new remote controller PZ-62DR-EB enables simple control setting



Centralized controller system



Optional Parts

Filters

Two types of filters are available to ensure optimum indoor air quality. All filters are ISO certified, and can be easily installed in the units.

Performance					
Model		PZ-RFP3-E series			
Name		Replacement Filter (Standard)	Advanced High Efficiency Filter Optional		
Image					
Filter Materia		Non-woven fabric	Synthetic fiber		
	ISO	Coarse 60% (ISO16890-2016)	ePM1 75%, ePM2.5 80%, ePM10 95% (ISO 16890-2016)		
Performance	ASHRAE	-	MERV16 (ASHRAE 52.2-2017)		
	GB/T	-	YG class, 99.7% (GB/T 14295-2008) Collecting efficiency for particles 0.5µm or larger at rated airflow.		

Specifications and Dimensions



					_	
Filter						
Madal	Din	nension(n	nm)	Number of		
wodei	A	В	С	filters per set		
PZ-15RF3-E	549	125	20	2]	
PZ-25RF3-E	654	151	15	2	1	
PZ-35RF3-E	784	178	15	2	h	
PZ-50RF3-E	926	178	15	2		
PZ-65RF3-E	852	213	15	2]	
PZ-80RF3-E	890	238	15	2		
PZ-100RF3-E	1117	238	15	2]	

Filter						
Madal	Din	nension(n	Number of			
widdei	A	В	С	filters per set		
PZ-15RFP3-E	542	104.5	25	1]	
PZ-25RFP3-E	322	128.5	25	2		
PZ-35RFP3-E	390	158.5	25	2	1	
PZ-50RFP3-E	461	158.5	25	2		
PZ-65RFP3-E	423	197.5	25	2	1	
PZ-80RFP3-E	442	215.5	25	2		
PZ-100RFP3-E	554	215.5	25	2		



Number of Purchase				
Applicable model	Required set per unit			
LGH-15RVX3-E	1			
LGH-25RVX3-E	1			
LGH-35RVX3-E	1			
LGH-50RVX3-E	1			
LGH-65RVX3-E	1			
LGH-80RVX3-E	1			
LGH-160RVX3-E	2			
LGH-100RVX3-E	1			
I GH-200RVX3-E	2			

Number of Purchase

Required set

per unit

1

1

1

1

1

1

2

1

2

Applicable

model

LGH-15RVX3-E

LGH-25RVX3-E

LGH-35RVX3-E

LGH-50RVX3-E

LGH-65RVX3-E

LGH-80RVX3-E

LGH-160RVX3-E

LGH-100RVX3-E

LGH-200RVX3-E

Installation							
Total number of filters							
	OA	RA					
2	1	1					
2	1	1					
2	1	1					
2	1	1					
2	1	1					
2	1	1					
4	2	2					
2	1	1					
4	2	2					

	Installation					
	Total number of filters					
		SA				
	1	1				
	2	2				
	2	2				
	2	2				
	2	2				
	2	2				
	4	4				
	2	2				
	4	4				

• Certain ratings and specifications may change due to product improvements or modifications.

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CO₂ Sensors

A CO2 sensor connected directly to the LOSSNAY RVX3 unit optimizes the fan speed according to the level of CO₂ detected.

<Duct-mounted type> PZ-70CSD-E





<Wall-mounted type> PZ-70CSW-E

Mounted on the wall. CO2 is monitored in 3 levels.



Vertical Installation Plates

PZ-1VS-E, PZ-2VS-E



Parts used to install RVX3 vertically.

Fixing hole for M5 screw

Fixing hole for M6 screw

101 Unit (mm)

-+-

75

EA side plate RA side plate



Change dimension table (Unit:mm)

odel	Α	В	Weight (kg)	Applicable model
VS-E	280	200	1.2	LGH-15 to 50RVX3-E
VS-E	380	300	1.6	LGH-65 to 100RVX3-E

Not applicable to LGH-160/200RVX3-E

Duct Silencer



The duct silencer connects to the LOSSNAY unit to reduce airflow noise.

Specifications

Mo

PZ-PZ-2

Madal	Airflow	Attenuation of sound power level [dB] for center frequency (discharge)							
woder	(m³/h)	62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
D7 10055 E	50	0	3	5	7	6	6	6	8
PZ-10033-E	150	0	3	6	7	7	7	7	9
D7 45000 F	250	0	1	5	8	15	21	20	14
PZ-15033-E	350	0	1	4	8	14	21	21	16
D7 20055 E	500	0	1	4	7	13	18	16	9
PZ-20033-E	650	0	1	3	8	12	17	14	6
D7 05000 F	800	0	2	4	12	22	21	14	13
PZ-20000-E	1000	0	1	4	12	22	20	14	13

1. Figures in the chart above are based on a comparison with a general steel duct of the same length.

The silencer is placed just before the outlet during the measurement.
 When the airflow rate differs, the attenuation will also differ from the chart above.

4. Figures in the chart above are flat (not-weighted) values.

• Certain ratings and specifications may change due to product improvements or modifications.





RVX3's PCB has only 1 output terminal. By using PZ-4GS-E, 4 more output terminals can be added to RVX3.







Change dimension table (Unit:mm)

Model	A	В	с	D	Connectable Duct	Weight (kg)
PZ-100SS-E	400	450	99	152	ø100	1.9
PZ-150SS-E	500	560	149	202	ø150	3.5
PZ-200SS-E	600	660	199	252	ø200	5.3
PZ-250SS-E	600	660	249	332	ø250	8.9

	(Common termin
Unit (mm)	*Wiring work m professional

*For details, please consult the sales office.

R2-Series

Simultaneous Cooling and Heating

The world's first* two-pipe system that Simultaneously Cools and Heats

*As of 1992 (according to our own survey)

The CITY MULTI R2-Series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2-Series. It houses a liquid and gas separator, allowing the outdoor unit to deliver a mixture of hot gas for heating and liquid for cooling, all through the same pipe.

This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.



Indoor unit

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Benefits of R2 system

Unique to Mitsubishi Electric, our heat recovery technology uses just two pipes, as opposed to the market conventional three. Our R2 system, designed for effective simultaneous heating and cooling, offers substantial savings on installation and annual running costs.

Mitsubishi Electric 2-pipe R2 system: less piping/connections compared with 3-pipe

Comparison example of piping connections



Main mode of cooling/heating can be switched over without stopping operation

When Cooling/Heating mode switches

- ▶ There is no need to stop the compressor.
- Refrigerant noise generated when the refrigerant flow is switched can be lowered.

When Cooling/Heating mode switches

- Compressor shuts down.
- All indoor units stop for a few minutes.



Heat recovery operation for greater energy saving

COP in the heat recovery system



COP in the heat recovery system

The more frequently cooling and heating are performed simultaneously, the greater the energy saving effect.

*For details, please consult the sales office.

e-series Air-cooled Chiller

As a choice of HVAC system, chillers are widely used in versatile applications from commercial buildings to industrial use. With today's concerns on global warming and requirements to reduce energy use, building owners, as heavy energy users, are expected to choose energy efficient equipment.

Mitsubishi Electric's "e-series" chiller system is an air-cooled, inverter-driven and uniquely designed modular type of chiller with proven technology that offers comfort and energy conservation through daily operations.



Key Features



Energy efficiency

With DC inverter scroll compressors developed by Mitsubishi Electric and advanced inverter controls, the e-series ensures optimum operation according to the operation load and delivers high energy saving performance throughout the year.



The built-in header type is easy to install and requires less piping space.

Compared to a conventional chiller, e-series requires less installation space, which is an advantage especially with renewals where plant space tends to be limited.

Unique modular approach

Adds flexibility and unique aspects to the e-series.



Emergency operation allows units to continue operating, and thereby reduces the backup requirement.



Staged installations and future expansions can be realized to meet the building's requirements.

Module line-up

	30HP 90kW	50HP 150kW	60HP 180kW
Cooling Only			
Heat Pump			•

Capacity



Combined management of CITY MULTI is also possible.



*For details, please consult the sales office.

CAHV & QAHV Hot Water Heat Pump

Mitsubishi Electric has been designing and manufacturing commercial hot water heat pumps since 1970. We were one of the first manufacturers in Japan to utilize heat pump technology to supply hot water. Our hot water heat pumps are used in Japan, Europe, Oceania, Asia, and many other regions. As a pioneer in heat pump technology, we would continue to lead the industry.

Strengths of each product

CAHV	QAHV			
R454C refrigerant	CO2 refrigerant			
✓ Circulating	✓ Once-Through			
 ✓ Heating water gradually ✓ Space / Floor heating 	✓ Heating water quickly			
✓ Up to 70°C Hot water	✓ Up to 90°C Hot water			
 Swimming pool Swimming	 ✓ Shower ✓ Water tap. 			
 Connormating 	V Water tap			

CAHV is a circulating hot water heat pump that provides high performance in keeping and raising hot water temperature. It is mostly utilized for heat retention/temperature rise and space/floor heating.

QAHV is a once-through hot water heat pump that demonstrates high performance when heating water quickly. It is often adopted in welfare facilities and hospitals, where people use showers and water faucets.

Indoor unit

Benefits of Heat Pump

Compared to gas boilers and electric heaters, heat pumps are safer, more energy efficient, and eco-friendly thanks to the non-combustion system.

		Gas Boiler	Electric Water Heater	Heat Pump
		Steam Feed water Supply water Heat exchanger Water Heat conduction surface Gas, oil, etc. Combustion chamber	Hot water tank Heater Feed water	
	Safety	_	\checkmark	\checkmark
	Energy Efficiency	_	_	~
	Installation Costs	\checkmark	\checkmark	_
	Running Costs	_	\checkmark	~
%	Service Maintenance	_	\checkmark	\checkmark
	Eco- Friendliness	_	_	\checkmark

 \checkmark :Have advantage compared to other system.



*For details, please consult the sales office.

Commercial Packaged Air-conditioner

With the comprehensive lineup of products, including the floor standing type and ceiling concealed type, it has been made easier for you to use them for offices, stores, factories, hotels and a variety of other applications.



Key Features

High energy efficiency

With the use of DC inverter scroll compressors developed by Mitsubishi Electric and advanced inverter controls, the coomercial packaged air-conditioner ensures optimum operation according to the operation load and delivers high energy saving performance throughout the year. Comparison between inverter air conditioner and

25°C

25 30 35 40

15°C

20°C

20

15

10



Outdoor air inlet temp (D.B.)

52°C

50 55

45

Wide temperature range

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

Indoor units

Floor standing type

- Easy installation and maintenance
- Suitable for use in areas where duct installation is not possible (i.e., high ceiling or ceiling with crane rails)
- Satisfies large capacity air conditioning needs
- Adjustable air flow and static pressure

Celling concealed type

- Flexibly accommodates various types of duct designs
- Installable when no floor space is available
- Suitable for use in areas where air flow from floor-standing models would be interrupted by the equipment in the space
- Suitable for use in facilities such as food manufacturing plants where floor-standing models are not suitable because of cleaning requirements

Indoor unit

APPLICATION



Example 2. Manufacturing plant

Requirements

Ducts cannot be installed in the ceiling with crane rails. High ceiling and heat generation from equipment need to be considered. ON/OFF control by external input (level-signal) is required in the system.

Solution

Cooling only floor standing series with plenum chamber.*1 External signal based start/stop control can be performed.*2



*1 For PFV-P200/250YM-A model, a plenum is embedded as standard accessory.

*2 Requires the remote ON/OFF adapter (PAC-SE55RA-E) and other parts (eg. Power supply of relay) need to be procured locally.

Installation information

* Refer to the enclosed Installation Manual for details on installation. Arrange to have an expert install the system correctly.

1. General precautions

1-1. Usage

- The air-conditioning system described in this catalogue is designed for human comfort.
- This product is not designed to assist in the preservation of food, provide conditions to maintain plants or animals, or stabilize environments for the preservation of precision equipment or art objects. To prevent loss of quality, do not use the product for purposes other than those 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 an area where the voltage changes significantly, 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 environments.
- Installation should not be performed in locations exposed to chlorine or other corrosive gases. Avoid installation near sewers.
- To reduce the risk of fire, do not install the unit in an area where flammable gas may leak or flammable material is present.
- This air-conditioning unit has a built-in microcomputer. The effects of noise should be taken into consideration when deciding on the installation position. It is recommended that the air-conditioning unit be installed in a position away from antennas or electronic devices.
- Install the unit on a solid foundation in accordance with local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, or falling.

1-3. Backup system

• In regions in which the malfunctioning of the air conditioner may have a critical effect, it is recommended to have two or more systems made up of single outdoor/heat source units and multiple indoor units.

1-4. Unit characteristics

- The heat pump efficiency of the outdoor unit depends on the outdoor temperature. In heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air will continue to be trapped near the ceiling and the floor level will remain cold. In such cases, heat pumps require a supplemental heating system or air circulator. Before purchasing, consult your local distributor for assistance in selecting the unit and system.
- When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor/heat source unit side tends to collect frost, which reduces its heating performance. The Auto-defrost function will be activated in order to remove the frost, and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of the defrost process.
- An 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.
- Sound levels were obtained in an anechoic room. 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" in the DATA BOOK for the measurement location.
- Depending on the operating conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes even when operating normally. Try to avoid positioning the air conditioner in locations where quietness is required.

With regard to the BC controller, it is recommended that the unit be installed in areas such as corridor ceilings, restrooms and plant rooms.

• The total capacity of the connected indoor units can be greater than the capacity of the outdoor/heat source 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 the power comes on, i.e. after a power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires a maximum of 90 minutes to complete, depending on the operating load.
- When the unit is operating out of the operation temperature range, the unit may stop to prevent malfunction.

1-5. Related 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 an inverter type, select an earth leakage breaker able to respond to high harmonic waves and surges.
- Leakage current is generated not only through the air-conditioning unit but also through the power wires. The leakage
 current of the main power supply is therefore greater than the total leakage current of each unit. Take the capacity of
 the earth leakage breaker or leakage alarm into consideration 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 be accurate because the leakage
 current from other systems may be included in the measurement value.
- Do not install a phase-advancing capacitor on a unit connected to the same power system as an inverter-type unit and its related equipment.
- If a large current flows due to the malfunctioning of the product 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 that 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, power leakage, system breakdown, or fire.
- Some optional accessories may not be compatible for use with the air-conditioning unit or may not be 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 in the 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 leaks.
- If the units operate in cooling mode at a humidity above 80%, condensation may collect and drip from the indoor units.
- Regular checking and cleaning of the drain drainage paths, such as the drain pan or the drain pump, is recommended to prevent clogging. The neglect of a clogged drain pump may trigger the water-leakage protection function which stops operation of the entire system.

2-2. Unit characteristics

- The return air temperature display on the remote controller may differ from the displays 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 measured by the built-in temperature sensor on the remote controller may differ from the actual room temperature due to the effect of the wall temperature.
- Use the 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 areas 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 operating noise may increase.
- The room temperature may increase above the preset temperature in environments in which the heating or 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 demand control is used, the unit may stop abnormally or damage may occur to the electromagnetic contactor. Consult your local distributor for details.
- When indoor units employ fresh air intake, install a filter in the duct (locally procured) to remove 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" in the DATA BOOK for the available range for fresh air intake volume.
- Employing fresh air intake for the indoor unit may increase the sound pressure level.
- When installing the ceiling concealed type, secure enough access space to allow for the maintenance according to the installation manual.
- · Do not install the unit above the cooking or food processing area.

2-4. Noise level (Sound pressure level)

• The sound pressure level is a value measured in an anechoic room in accordance with the conventional method in JIS standard. The sound pressure level actually measured at the installation site is usually higher than the value indicated in this catalogue due to the influence of ambient noise and echoes.

<Measurement location>



PEFY-P-VMR-E-L/R, PEFY-P-VMS1(L)-E, PEFY-P-VMH(S)-E, PEFY-P-VMH(S)-E-F

















Œ

1m

PCFY-P-VKM-E

1m

Y.,

Measurement location



■ PFFY-P-YM(H)-E, PFFY-P-YM-E-F



3. Precautions for Outdoor unit/Heat source unit

3-1. Installation environment

- The outdoor unit with the salt-resistant specification is recommended for use in an area in which it will be exposed to salt air.
- Even when the unit with the salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in the Instruction Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to in the guidelines published by JRAIA (JRA9002).
- Install the unit in an area where the flow of discharge air is not obstructed. If the flow of discharge air is obstructed, shortcycling of discharge air may occur.
- Provide proper drainage around the base of the units; condensation may collect and drip from outdoor units. Provide water-proofing protection to the floor when installing the unit on the rooftop.
- In regions where snowfall can be 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 a SUS snow guard is used, refer to the Installation Manual that comes with the snow guard and be careful with 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 ice forming 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 approximately 50 cm or more of snow accumulates on the snow guard, remove the snow from the guard. Install a roof that is strong enough to withstand loads caused by snow in areas 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 so 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 to ensure that the oxygen dissolved in the water is 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 following to prevent the freezing and bursting of pipes when the heat source unit is installed in an area 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 from the unit.
- The salt-resistant unit is resistant to salt corrosion, but not salt-proof.
- Please note the following when installing and maintaining outdoor units in a marine environment.
 - 1. Install the salt-resistant unit in an area in which it is not directly exposed to sea breezes, and minimize 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 an anti-rust agent and replace corroded parts as necessary.
 - 7. Do not install the units in a place where iron or copper powders fly around, in an acidic or alkaline atmosphere, or where a large amount of sand containing saline particles accumulates because these factors can corrode the aluminum pipes.
 - 8. Because all-aluminum heat exchangers can become corroded by debris contained in water, do not splash water on them.
3-2. Circulating water

- Regularly check the quality of the water in the heat source unit, following the guidelines published by JRAIA (JRA-GL02-1994).
- A cooling tower and heat source water circuit should be a closed circuit so 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 to ensure that the oxygen dissolved in the water is 1 mg/L or less.

3-3. Unit characteristics

· When the Thermo ON and OFF is frequently repeated on the indoor unit, the operating status of outdoor/heat source units may become unstable.

3-4. Related equipment

· Provide grounding in accordance with the local regulations.

3-5. Noise level (Sound pressure level)

. The sound pressure level is a value measured in an anechoic room in accordance with the conventional method in JIS standard. The sound pressure level actually measured at the installation site is usually higher than the indicated value in this catalogue due to the influence of ambient noise and echoes.

Valve operation noise and refrigerant flow noise may occur from inside the outdoor unit/heat-source unit.

<Measurement location>



PUHY-P500YKD(-BS)



*See the DATA BOOK for information on the combination models

PUHY-P350, 400, 450YKD(-BS)



■ PQHY-(E)P-Y(S)LM-A1

PQHY-P200, 250, 300YLM-A1



1m

PQHY-P350, 400, 450, 500, 550, 600YLM-A1



*See the DATA BOOK for information on the combination models.

■ PUMY-CP-VKM2(-BS), PUMY-CP-YKM2(-BS), PUMY-SP-VKM2(-BS), PUMY-SP-YKM2(-BS), PUMY-P-YKM3(-BS), PUMY-(C)P-YBM2(-BS)

PUMY-CP100, 125, 140VKM2(-BS) PUMY-CP100, 125, 140, 175, 200, 225YKM2(-BS) PUMY-CP250, 300YBM2(-BS) PUMY-SP100, 125, 140VKM2(-BS) PUMY-SP100, 125, 140YKM2(-BS) PUMY-P175, 200, 225YKM3(-BS) PUMY-P250, 300YBM2(-BS)



Indoor unit

4. Precautions for control-related items

4-1. 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, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- In the apportioned billing function for AE-200E/AE-50E and EW-50E, separate watt-hour meters should be used for A-control units, K-control units, and CITY MULTI packaged air conditioners. It is recommended that an individual watt-hour meter should be used for large-capacity indoor units (with two or more addresses).
- When using the peak cut function on the AE-200E/AE-50E or EW-50E, 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 the AE-200E/AE-50E or EW-50E 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/PAC-YG66DCA or PAC-YG63MCA, do not use the control for fire prevention or security. (This function should never be used in a way that would put people's lives at risk.) Employ any methods or circuits that allow ON/OFF operation using an external switch in case of failure.

4-2. Installation environment

- Surge protection may be required for the transmission line in areas where lightning strikes occur frequently.
- The 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 the receiver.
- When the auto-elevating panel is used and the system is operated using a wired remote controller, install the wired remote controller in a place where all the air conditioners being 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; be sure to use a wireless remote controller designed for use with the elevating panel (sold separately).
- Install the wired remote controller (switch box) in a place where the following conditions are met.
 - Where the installation surface is flat
 - Where the remote controller can detect an accurate room temperature

The temperature sensors that detect the room temperature are installed both in the remote controller and in the indoor unit.

When the room temperature is detected using the sensor in the remote controller, the main remote controller is used to detect the room temperature. In this case, follow the instructions below.

- > Install the controller in a place where it is not affected by a heat source.
- (If the remote controller faces direct sunlight or the direction of the supply air flow, the remote controller cannot detect the accurate room temperature.)
- > Install the controller in a place where the 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 the AE-200E/AE-50E or EW-50E 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.

When the equipment is used under the following conditions, the "maintenance cycle" and "replacement intervals" may be shortened.

- When equipment is used in an environment where temperature and humidity are high or change dramatically
- When equipment is used in an environment where 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 long periods (24-hour air-conditioning operation)

Table 1. Maintenance cycle

Major components	Checking cycle	Maintenance cycle	Major components	Checking cycle	Maintenance cycle
Compressor	1 year	20,000 hours	Expansion valve	- - 1 year -	20,000 hours
Motor (Fan, louver, drain pump)		20,000 hours	Valve (solenoid valve, four-way valve)		20,000 hours
Bearings		15,000 hours	Sensor (thermistor, pressure sensor)		5 years
Electric board		25,000 hours	Drain pan		8 years
Heat exchanger		5 years			

Note1 This table shows major components. Refer to the maintenance contract for details. Note2 This maintenance cycle shows a period in which products are expected to require no maintenance. Use this cycle for planning maintenance (budgeting the maintenance expense etc.) The Checking/ Maintenance cycle may be shorter than the one shown on this table depending on the contents of the maintenance check contract.

Sudden unpredictable accidents may occur even if check-ups are performed.

Replacement cycle for consumable components [Note that replacement cycle does not mean guarantee period.]

Table 2. Replacement cycle					
Major components	Checking cycle	Replacement cycle			
Long-life filter	1 year	5 years			
High-performance filter		1 year			
Fan belt		5,000 hours			
Smoothing capacitor		10 years			
Fuse		10 years			
Crank case heater		8 years			

Note1 This table shows major components. Refer to the maintenance contract for details. Note2 This replacement cycle shows a period in which products are expected to

require no replacement. Use this cycle for planning maintenance (budgeting expenses for replacing equipment, etc.)

MEMO

MEMO

MITSUBISHI ELECTRIC MULTIPLE SPLIT TYPE AIR CONDITIONERS R410A Series

▲ Warning

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

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