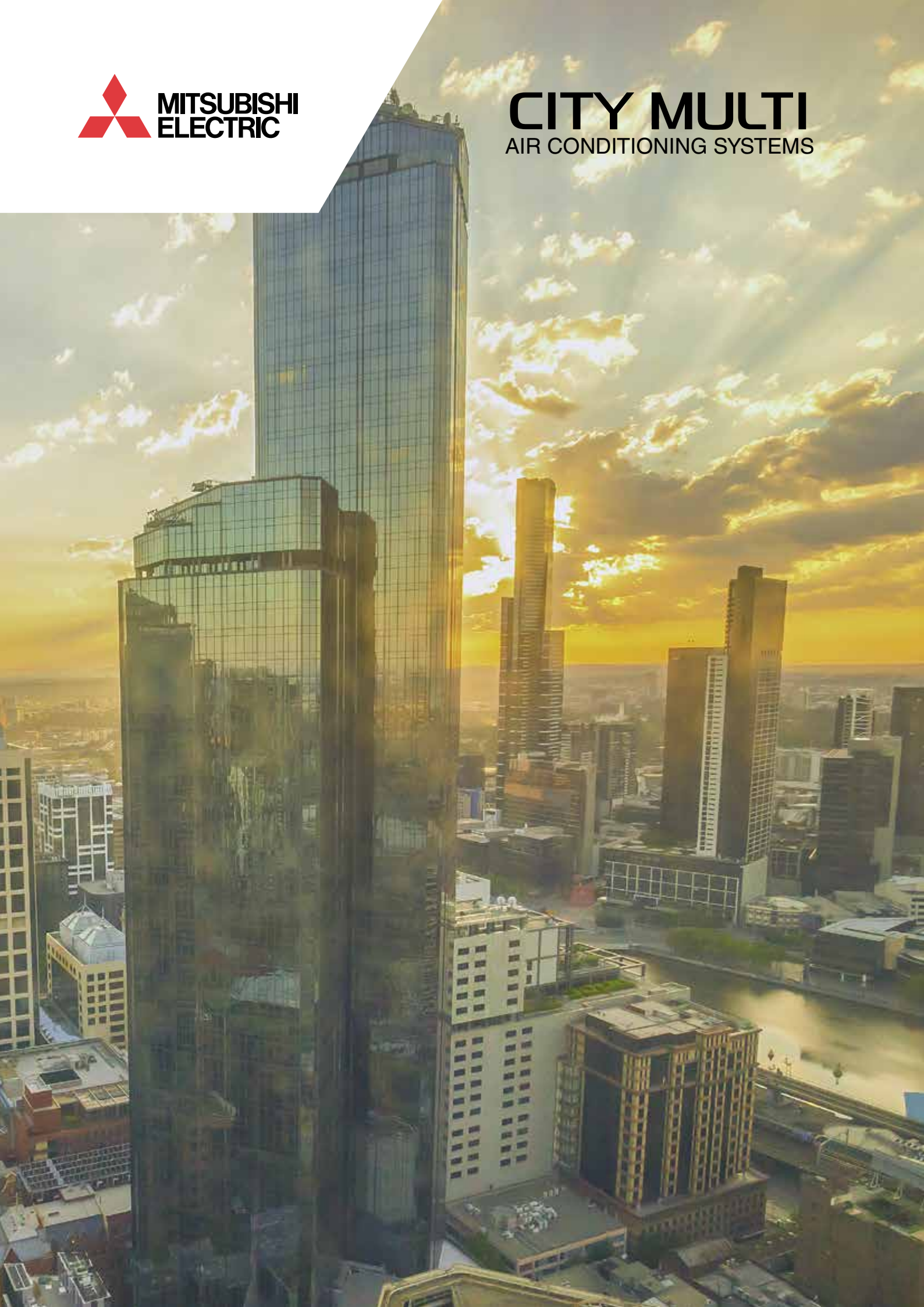




CITY MULTI

AIR CONDITIONING SYSTEMS



Mitsubishi Electric is a global, market leading environmental technologies manufacturer. The Living Environment Group are continually pioneering solutions that cool, heat, ventilate and control our buildings in some of the most energy efficient ways possible.

We believe that global climate challenges need local solutions. We aim to help individuals and businesses reduce the energy consumption of their buildings and their running costs.

Providing accurate and controlled comfort all year round, our air conditioning range can work on their own or in conjunction with other systems in a hybrid solution. Whatever the requirement, we offer a solution that matches the needs of almost any building.

At Mitsubishi Electric we have evolved, and today we offer advanced environmental systems that really can make a world of difference.





The ultimate heating
and cooling solution
for your building







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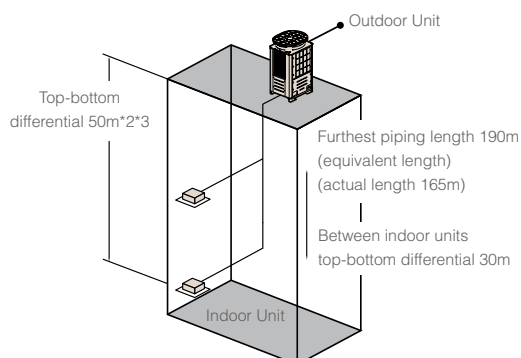
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Line up of Air Cooled Outdoor Units

Y SERIES

*The numbers in the table indicate the kW and the combinations of S, L, XL modules.

AIR COOLED													
Heat Pump													
Model		PUHY-P YNW-A(-BS)			PUHY-P YSNW-A(-BS)			High Efficiency					
								PUHY-EP YNW-A(-BS)			PUHY-EP YSNW-A(-BS)		
													
Model No.	kW	S	L	XL	S	L	XL	S	L	XL	S	L	XL
P112	12.5												
P125	14.0												
P140	15.5												
P200	22.4	22.4						22.4					
P250	28	28						28					
P300	33.5	33.5						33.5					
P350	40		40						40				
P400	45		45		22.4/22.4				45		22.4/22.4		
P450	50		50		22.4/28				50		22.4/28		
P500	56			56	28/28					56	28/28		
P550	63				28/33.5						28/33.5		
P600	69				33.5/33.5						33.5/33.5		
P650	73				28	45					28	45	
P700	80					40/40						40/40	
P750	85					40/45						40/45	
P800	90					40/50						40/13.5	
P850	96					45/50						45/13.5	
P900	101					50/50						50/50	
P950	108				28	40/40					28	40/40	
P1000	113				28	40/45					28	40/45	
P1050	118				28	45/45					28	45/45	
P1100	124					40/40/45						40/40/45	
P1150	130					40/45/45						40/45/45	
P1200	136					45/45/45						45/45/45	
P1250	140					45/45/50						45/45/50	
P1300	146					45/50/50						45/50/50	
P1350	150					50/50/50						50/50/50	



System Pipe Lengths [(P200-P1350 (Y Series))]

Refrigerant Piping Lengths	Maximum Metres	Vertical Differentials Between Units	Maximum Metres
Total Piping Length	1000	Indoor/Outdoor (Outdoor Higher)	50*2
Maximum Allowable Length	165 (190 equivalent)	Indoor/Outdoor (Outdoor Lower)	40*3
Farthest Indoor from First Branch	40*1	Indoor/BC Controller (Single/Main)	15*4

*1 90m is available. When the piping length exceeds 40m use one size larger liquid pipe starting with the section of piping where 40m exceeded and all piping after that point.

*2 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.













*3 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

*4 30m is available. If the height difference between indoor unit exceeds 15m (but does not exceed 30m), use one size larger pipes for indoor unit liquid pipes.

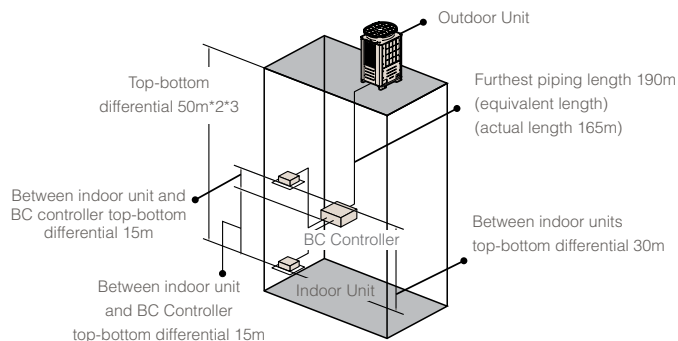
Line up of Air Cooled Outdoor Units

R2 SERIES

*The numbers in the table indicate the kW and the combinations of S, L, XL modules.

AIR COOLED													
Heat Recovery													
Model		PURY-P YNW-A(-BS)			PURY-P YSNW-A(-BS)			High Efficiency					
								PURY-EP YNW-A(-BS)			PURY-EP YSNW-A(-BS)		
													
Model No.	kW	S	L	XL	S	L	XL	S	L	XL	S	L	XL
P200	22.4	22.4						22.4					
P250	28	28						28					
P300	33.5	33.5						33.5					
P350	40		40						40				
P400	45		45		22.4/22.4				45		22.4/22.4		
P450	50		50		22.4/28				50		22.4/28		
P500	56			56	28.0/28					56	28/28		
P550	63				28.0/33.5						28/33.5		
P600	69				33.5/33.5						33.5/33.5		
P650	73				33.5	40					33.5	40	
P700	80					40/40						40/40	
P750	85					40/45						40/45	
P800	90					45/45						45/45	
P850	96					45/50						45/50	
P900	101					50/50						50/50	
P950	108					50	56					50	56
P1000	113						56/56						56/56
P1050	118						56/63*1						56/63*1
P1100	124						63*/63*1						63*1/63*1

*1 63kW (P550) can be used only in combination with others.



*1 When you install a Sub-BC Controller, refer to DATABOOK for full details.

*2 When the outdoor unit is installed below the indoor unit, the top-bottom differential is 40m.

*3 Depending on the model and installation conditions, top-bottom variation 90m (o/u above) and 60m (o/u below) is available. For more detailed information, contact your nearest sales office or distributor.



*4 Distance of indoor sized P200, P250 from BC must be less than 10m, if any.

*5 Distance of indoor sized P200, P250 from BC must be less than 20m, if any.

System Pipe Lengths [P200-P1100 (R2 Series)]

Refrigerant Piping Lengths	Maximum Metres	Vertical Variations Between Units	Maximum Metres
Total Piping Length		Indoor/Outdoor (Outdoor Higher)	50*3
P200-300	550	Indoor/Outdoor (Outdoor Lower)	40*3
P350-P550 (Single Module)	600	Indoor/BC Controller (Single/Main)	15*4
P400-600	750	*Maximum length between single/main BC Controller and indoor is dependent upon the vertical variation between the single/main BC Controller and the indoor unit.	
P650	800		
P700-P1,100	1,000		
Maximum Allowable Length	165 (190 Equivalent)	Indoor/indoor	30*2*5
Maximum Length Between Outdoor and Single/Main BC Controller	110	Main BC Controller/Sub-BC Controller	15
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.			
BC Controller, Indoor and Sub-BC Controller*1	40-90		









S SERIES

AIR COOLED					
Heat Pump					
Model		PUMY-P VKM-A(-BS)	PUMY-P YKM-A(-BS)	PUMY-SP VKMD(-BS)	PUMY-SP YKMD(-BS)
					
Model No.	kW	Dimensions			
		1338 x 1050 x 370	1338 x 1050 x 370	981 x 1050 x 330 (+25)	981 x 1050 x 330 (+25)
SP80	9	-	-	9	9
P112	12.5	12.5	12.5	12.5	12.5
P125	14	14	14	14	14
P140	15.5	15.5	15.5	15.5	15.5
P200*	22.4	-	22.4	-	-

*Available for PUMY-P Series only.

Line up of Water Cooled Outdoor Units

*The numbers in the table indicate the kW and the combinations of S, L modules.

WATER COOLED									
Model		Heat Pump				Heat Recovery			
		PQHY-P YLM-A WY Series		PQHY-P YSLM-A WY Series		PQRY-P YLM-A WR2 Series		PQRY-P YSLM-A WR2 Series	
									
Model No.	kW	S	L	S	L	S	L	S	L
P200	22.4	22.4				22.4			
P250	28	28				28			
P300	33.5	33.5				33.5			
P350	40		40				40		
P400	45		45	22.4/22.4			45	22.4/22.4	
P450	50		50	22.4/28			50	22.4/28	
P500	56		56	28/28			56	28/28	
P550	63		63	28/33.5			63	28/33.5	
P600	69		69	33.5/33.5			69	33.5/33.5	
P700	80				40/40				40/40
P750	85				40/45				40/45
P800	90				45/45				45/45
P850	96				45/45				45/45
P900	101				45/45				45/45

A low-angle, upward-looking photograph of several modern skyscrapers. The buildings are constructed with glass and steel, featuring repetitive window patterns. The sky is a clear, vibrant blue with a few wispy white clouds. A soft lens flare is visible in the upper center of the frame. The overall composition conveys a sense of height and modern architecture.

Outdoor/Heat Source Unit

Mitsubishi Electric offers a wide range of products in order to meet air conditioning needs for both new constructions and existing buildings.

Technologies

INVERTER-DRIVEN COMPRESSOR TECHNOLOGY

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

All CITY MULTI compressors are of the inverter-driven type, capable of precisely matching almost any building's cooling and heating needs.



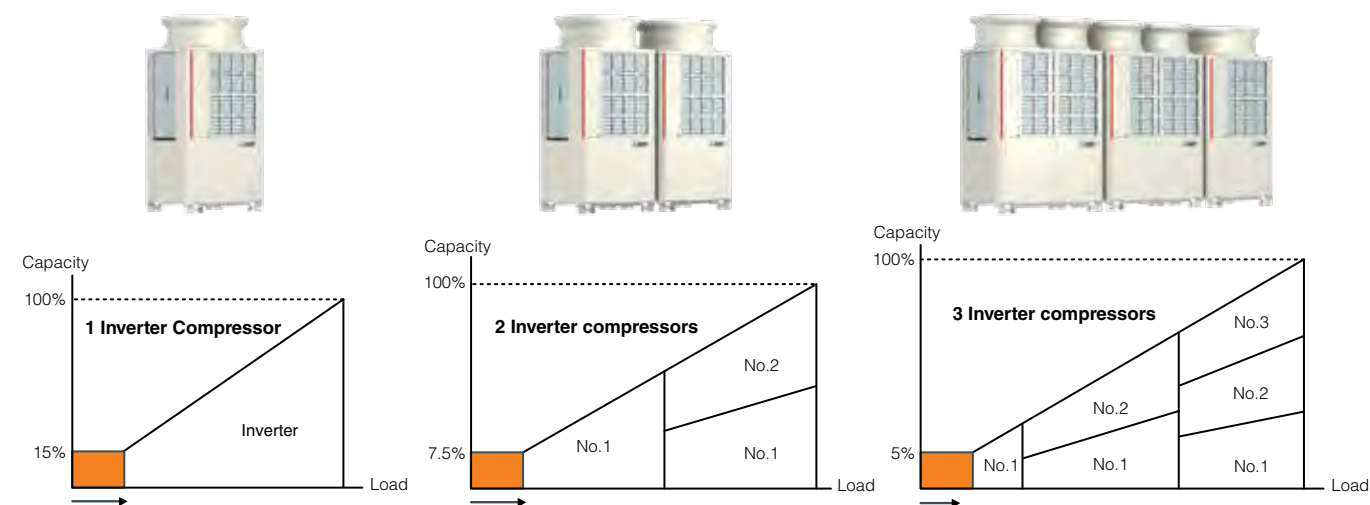
The compressor varies its speed to match the indoor cooling or heating demand and therefore only consumes the energy that is required.

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

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

Using proven single inverter-driven compressor technology, the CITY MULTI range is favoured by the industry for low starting currents (just eight amps for a 56kW outdoor unit) and smooth transition across the range of compressor frequencies.

Stable and smooth operation



INTELLIGENT POWER MODULE (IPM) MANUFACTURED BY MITSUBISHI ELECTRIC IS USED

Y-Series EP*1 | R2-Series EP*2 | WY-Series*3

Y-Series P*1 | R2 Series P*2 | WR2-Series*3

Power modules manufactured by Mitsubishi Electric are installed in the condenser which is the core component, as well as in the inverter circuit board that drives the fan. SiC (silicon carbide) is used in the power module equipped with a voltage-boosting circuit that raises the output voltage of the inverter to expand the operating range. This greatly reduces the power loss of the voltage-boosting circuit and helps improve the energy efficiency of the unit (EER improvement).

*The 56kW YNW is equipped with a voltage boosting circuit that uses SiC.

*1 IPM (condenser) is installed on 40kW to 56kW (P350 to P500) single modules, 73kW to 150kW (P650 to P1350) combination modules.

SiC elements are used in some 56kW (P500) single module IPM.

*2 IPM (condenser) is installed on 40kW to 56kW (P350 to P500) single modules, 73kW to 124kW (P650 to P1100) combination modules.

SiC elements are used in some 56kW (P500) single modules IPM.

*3 IPM (condenser) is installed on 40kW to 101kW (P350 to P900). (Excluding the 45kW to 56kW (P400 to P500) combination models.)



PWM CONTROL

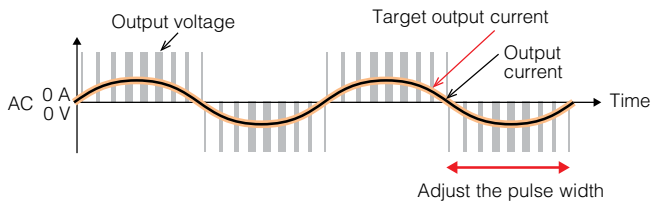
Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

PWM Control is used to control the number of motor revolutions according to the operational load, and it varies the inverter pulse width (electric signal wave occurring over a short period) to control the output. Control of the electrical current is required for optimal operation.



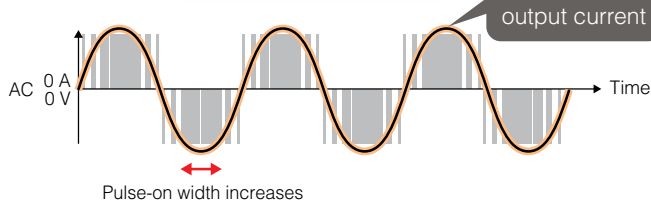
Does not require high target output current.



For low load

To accomplish the target output current, the intervals at which the "pulse" signal is turned on are controlled to adjust the output current. At the low-load time, the pulse-on width is minimised to save energy.

Requires high output current



For high load

The increased pulse-on width increases both the duration that voltage is applied and the amount of electrical current compared to the low-load time, accelerating the compressor's rotation speed from 60 rps to 140 rps.*

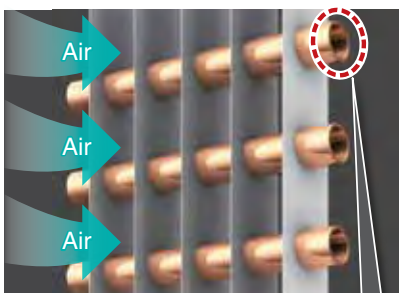
*Number of compressor rotations differs depending on the usage condition.

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

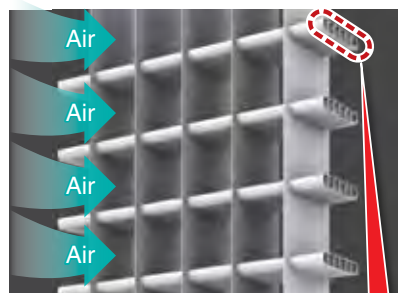
FLAT-TUBE HEAT EXCHANGER

Y-Series EP | R2-Series EP

The heat exchanger is a flat-tube heat exchanger with improved heat-exchanger efficiency. The use of flat tubes increases the number of piping stages while maintaining the same size heat exchanger. The inside of the tube is divided into thin compartments, which increases the area of contact between refrigerant and air, thereby increasing heat-exchange effectiveness and significantly improving energy-saving performance. The flat-tube heat exchanger improves heat-exchange efficiency by approximately 30% compared to round-tube heat exchangers.



Round-tube shape



Flat-tube shape

Approximately 30% increase in heat-exchange efficiency (compared to round-tube)

Surface area 220% increase (compared to round-tube)

HEAT INTER-CHANGER (HIC) CIRCUIT

Y-Series EP | Y-Series P | WY-Series

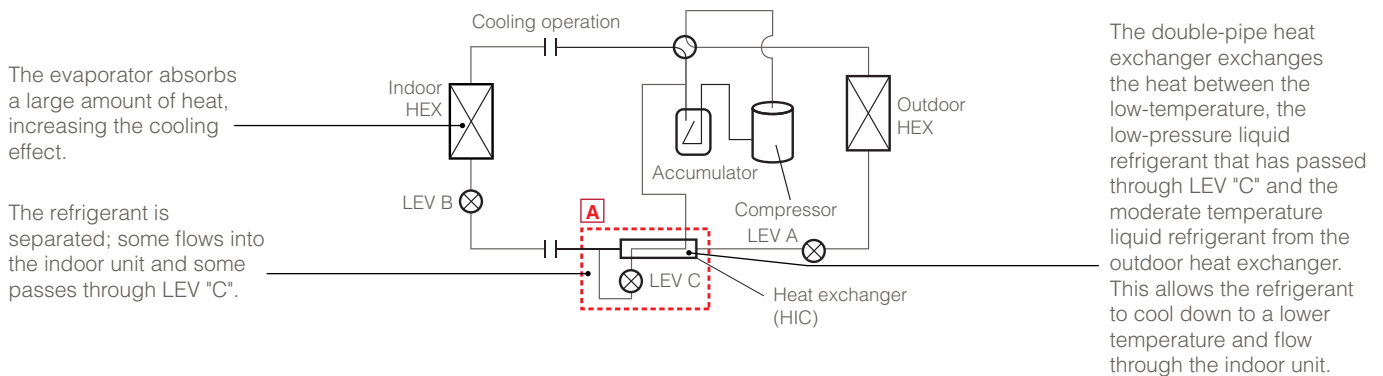
The HIC circuit increases cooling efficiency. This technology raises the degree of sub-cooling, increasing both cooling capacity and cooling efficiency.

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

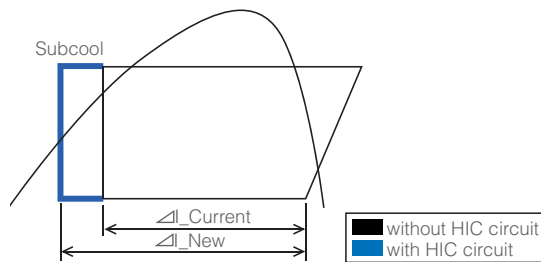
HIC mechanism

Some of the high-pressure liquid refrigerant has passed through the outdoor unit's heat exchanger flows into the indoor unit directly, and the rest passes through linear expansion valve (LEV) "C" to decrease both the temperature and pressure. The heat is exchanged between the low-temperature, low-pressure liquid refrigerant that has passed through LEV "C" and the moderate-temperature liquid refrigerant from the outdoor unit's 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.

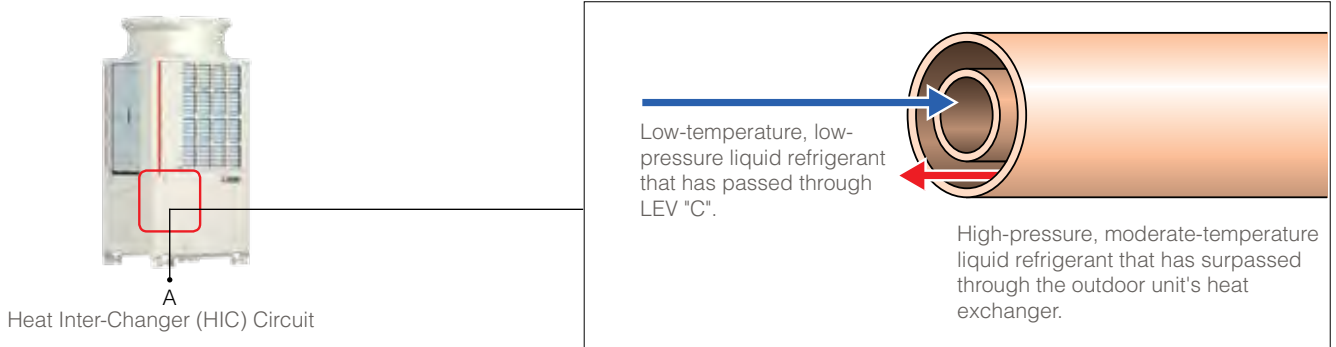
HIC circuit diagram



HIC circuit effect: (image using a Mollier diagram)



HIC circuit: double-pipe heat exchange cross section (high performance grooved pipe)



IH CRANKCASE HEATER

Y-Series EP | R2-Series EP | WY-Series*1

Y-Series P | R2 Series P | WR2-Series*1

Induction heating (IH) is used to heat the refrigerant. This method differs from the conventional crankcase heater method (in which a belt heater is wrapped around the outside of the compressor) in that heat is not applied from the outside; the refrigerant is heated from the inside, eliminating wasted heat.

*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.

*1 Power supplied to the heater only for 63kW and 69kW (P550 and P600) single modules.

**Crankcase heater
power supply method**



Crankcase heater

**IH power supply method
(without crankcase heater)**



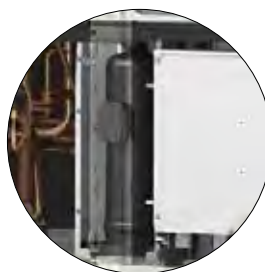
Heated compressor
motor

METAL PLATE COMPRESSOR ENCLOSURE

Y-Series EP | R2-Series EP

Y-Series P | R2 Series P

The compressor is enclosed in metal plates to reduce noise. On some models, sound absorbing materials are applied to the metal plates to further reduce noise.



Compressor is enclosed in metal casing to reduce noise.

Functions

COP PRIORITY MODE

Y-Series EP | R2-Series EP

Y-Series P | R2 Series P

The operation pattern under low ambient temperature conditions can be selected and the priority mode setting ("Capacity priority mode" and "COP priority mode") can be switched with the dip switches. Each mode is activated when the ambient temperature is below the specified temperature. For factory settings, refer to the Data Book.

LOW NOISE MODE*

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

This mode reduces noise by limiting the compressor frequency and the number of rotations made by the outdoor fan. The user can select their preferred level on installation via dip switch.

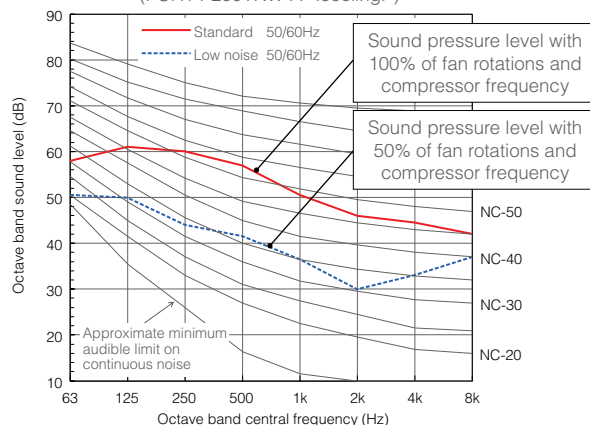
*Cooling/heating capacity drops during low-noise mode operation.

		63	125	250	500	1k	2k	4k	8k	Db(A)
Standard	50/60Hz	58.0	61.0	60.0	57.0	50.5	46.0	44.5	42.0	58.0
Low Noise Mode	50/60Hz	50.5	50.0	44.0	41.5	36.5	30.0	33.0	37.0	44.0

When low noise mode is set, "Performance-priority mode" and "Quiet-priority mode" can be selected. When "Performance-priority mode" is selected, the system may automatically return to normal operation from low noise mode in cases of heavy operating conditions.

Sound level of PUHY-P200YNW-A(-BS)

Examples of sound pressure levels in low noise mode
(PUHY-P200YNW-A <cooling>)



SYSTEM CHANGEOVER (FOR HEAT PUMP ONLY)

Y-Series EP | Y-Series P | WY-Series

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.

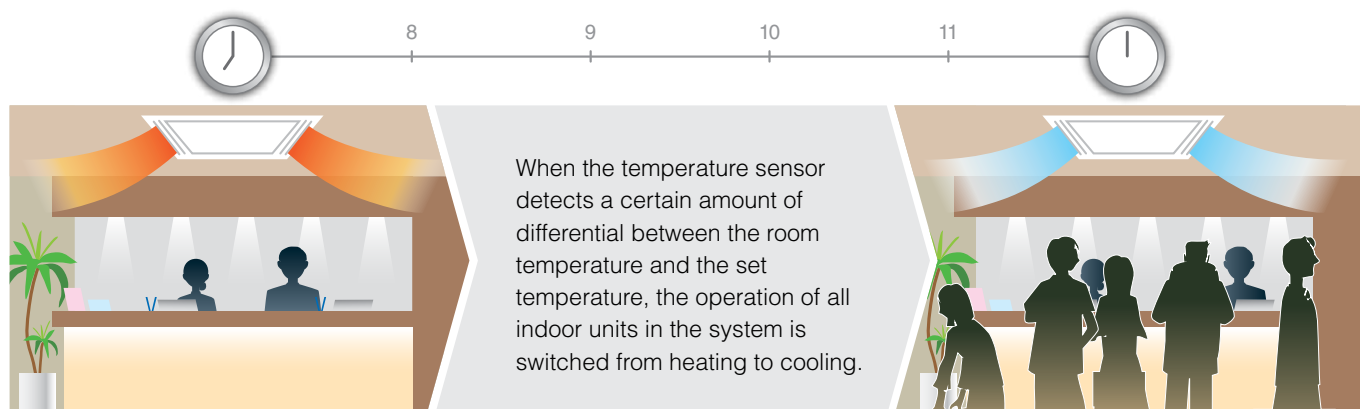


Using System changeover to switch between cooling and heating

Depending on the dip switch system 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 room temperature.

Suitable situations

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



When using the AE-200E/AE-50E

It is possible to automatically switch between cooling and heating without setting the dip switches on outdoor units. The user can select from the two types of switching patterns shown below.

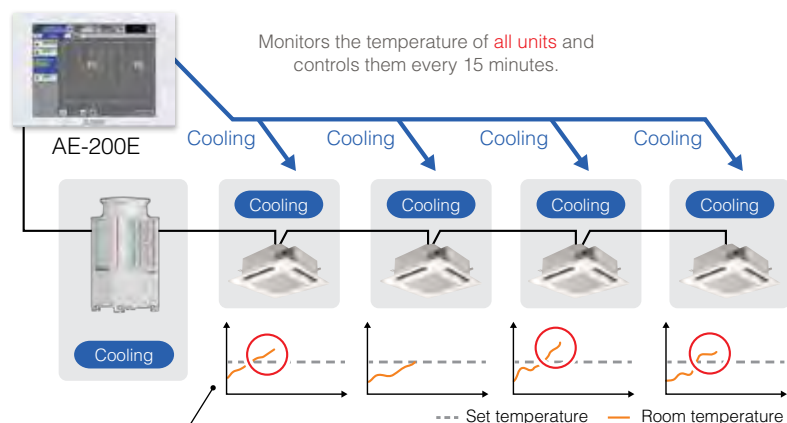
1. Averaging

The operation mode (cooling or heating) will be determined and switched every 15 minutes based on the demands of the majority of all groups connected to the outdoor unit, taking into consideration the capacity of each indoor unit and the temperature differences between the set temperatures and room temperatures.

2. Representative Group

The operation mode (cooling or heating) will be switched based on the temperature difference between the set temperature and the room temperature of the representative group.

Averaging method image



If the room temperature is higher on average than the set temperature, AE-200E changes the system mode to cooling. Cooling mode or heating mode is decided by the average weighted return air temperature, the set temperature and capacity.

Settings for AE-200E



Select from "None", "Averaging", and "Representative Group".

*To activate system changeover, the Web Browser for initial Settings is required.

DUAL SET POINT

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

Normally, the desired room temperature is set to the same value for cooling and heating. However, the dual set point function makes it possible to set different temperatures for cooling and heating. When operation switches from cooling to heating or vice versa, the preset temperature changes accordingly.

Setting dual set points for the Auto mode on R2 and WR2 helps improve energy efficiency, compared to setting a single set point.

When the operation mode is set to the Auto (dual set point) mode*, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit automatically operates in either the Cool or Heat mode and keep the room temperature within the preset range. The outdoor unit does not operate in the dead band defined by two temperature points where the thermostat is off. This cuts down on unnecessary operation of the air conditioning system.

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

Operation pattern during auto (dual set point) mode

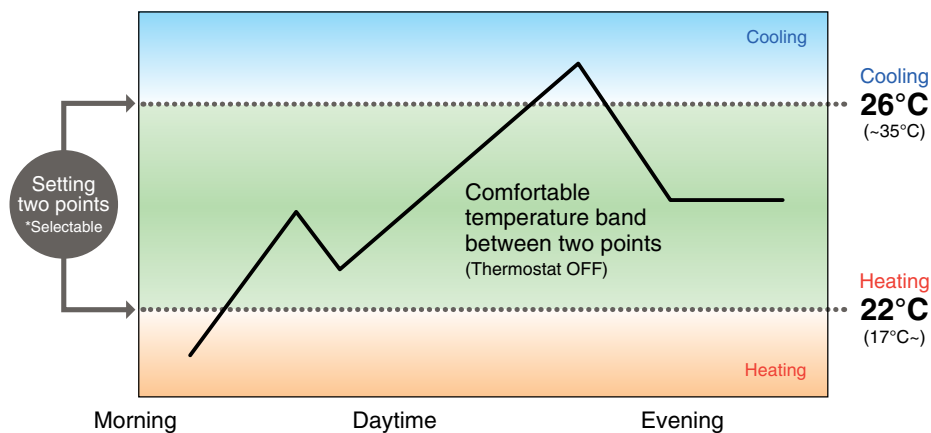


Image showing operation in Auto (single set point) mode

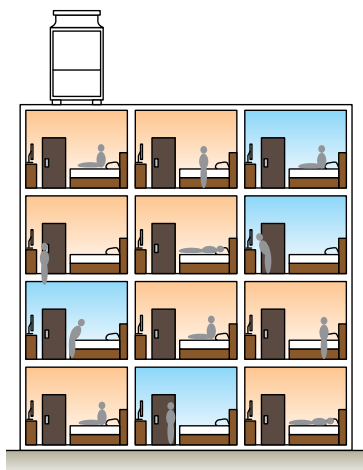
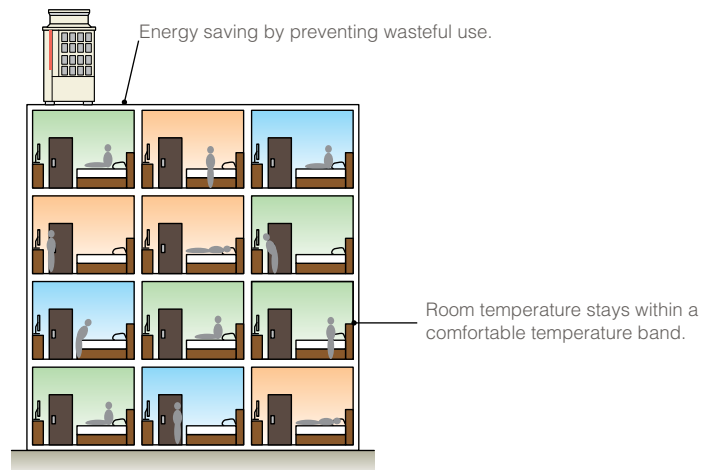


Image showing operation in Auto (dual set point) mode

Turning off the thermostat saves energy as the refrigerant stops circulating.



EVAPORATING TEMPERATURE CONTROL (DURING COOLING)

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

During cooling, the temperature of the refrigerant is controlled according to the air conditioning load. This helps to ensure energy-efficient operation.

Normal mode

Image showing operation in Auto (single set point) 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 losses during partial load operation.



Smart evaporating temperature control mode

The evaporating temperature is increased and the compressor input is decreased according to the load, resulting in increased operating efficiency. There are two patterns to control the evaporating temperature as follows.

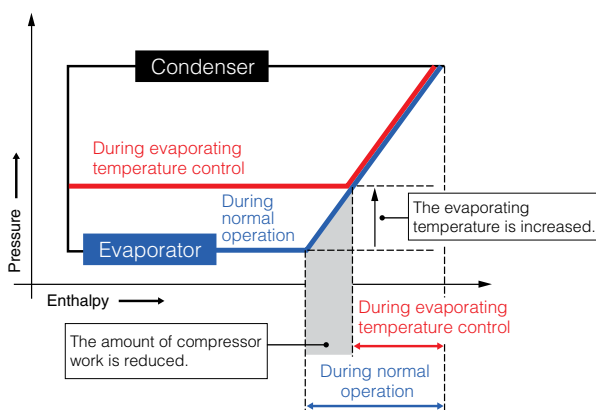
- 1** The evaporating temperature is set to a value that is higher than the normal evaporating temperature.
- 2** The evaporating temperature is controlled by shifting it according to the ΔT . The user can select from 4 control patterns.

*The availability of **1** and **2** varies depending on the model. Refer to the function table.

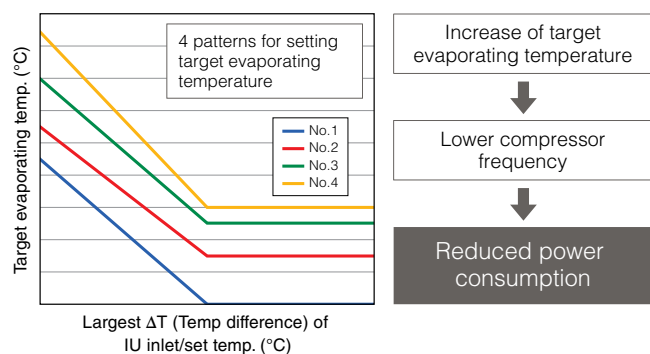
*Changing the evaporating temperature reduces latent heat capacity. Select an appropriate pattern according to the installation conditions.

*The fixed temperature control function and the automatic control shifting function cannot both be used simultaneously.

1 Evaporating temperature control image (Fixed temperature control)



2 Evaporating temperature control image (Automatic control shifting with 4 patterns)

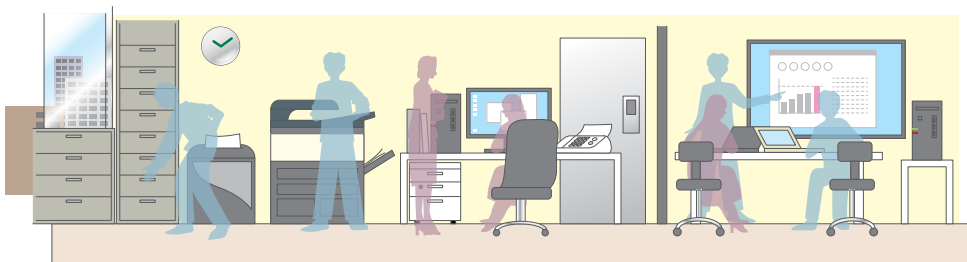


*1 To change the evaporating temperature setting, it is necessary to change the setting of the dip switch on the outdoor unit.

*2 When the difference between the indoor unit air-intake temperature and the actual temperature setting exceeds 1°C, the evaporating temperature based on this difference is constant.

Suitable situations

- » Spaces with constant high temperatures from heat sources such as OA equipment.
- » When the load is low during periods when air conditioners are used for cooling (such as during the morning).



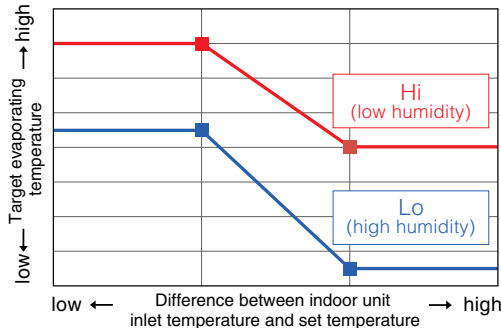
HIGH SENSIBLE HEAT OPERATION (DURING COOLING)

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

The evaporating temperature is controlled according to room temperature and humidity and refrigerant pressure.

Image of evaporating temperature control during high sensible heat operation in full cooling mode

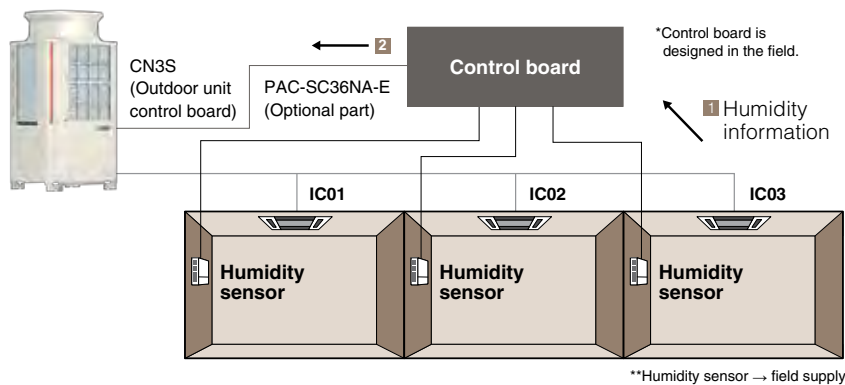


With high sensible heat operation mode activated, air conditioners consume less energy, thereby realising cost savings.

If locally-procured humidity sensor is installed, the evaporating temperature of the outdoor unit can be controlled optimally as shown below according to the difference between the indoor unit inlet temperature and set temperature.

A wide range of temperature settings are available from a low evaporating temperature close to the temperature for normal operation to a high evaporating temperature to realise energy savings.

Locally procured humidity sensor installation image



- 1 Humidity information is sent to the control board.
- 2 The control board judges the humidity information and sends a HIGH/LOW signal to the outdoor unit through CN3S. The outdoor unit shifts the evaporating temperature depending on the information from the control board.

Locally procured humidity sensor installation image

	Room state	Condition of outdoor unit	Zone	Evaporating temperature control
Comfortable temperature and humidity High sensible heat operation	Comfortable 	Comfortable and energy-saving operation even at low compressor rotating speed	Humidity 	
High humidity	A little humid 	Compressor rotating at medium speed to reduce humidity	Humidity 	
High temperature and humidity	Uncomfortable 	Compressor rotating at high speed to reduce temperature and humidity	Humidity 	

DEMAND CONTROL

Y-Series EP | R2-Series EP | WY-Series

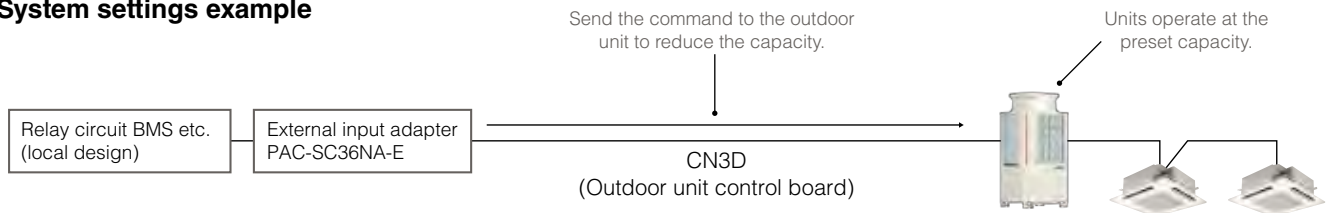
Y-Series P | R2 Series P | WR2-Series

This function can reduce the capacity of the outdoor unit used by way of the external input to the outdoor unit. The required capacity of the outdoor unit can be reduced in steps, with patterns ranging from 2 to 12 control steps. The number of steps that can be set and the corresponding capacity are shown below.

- » 2 steps (0 - 100%)
- » 4 steps (0 - 50 - 75 - 100%)
- » 8 steps (0 - 25 - 38 - 50 - 63 - 75 - 88 - 100%)
- » 12 steps (0 - 17 - 25 - 34 - 42 - 50 - 59 - 67 - 75 - 84 - 92 - 100%)

Possible usage: when power consumption is centrally-controlled within a building, the system can be forced to operate in the capacity-save mode by receiving external signals.

System settings example



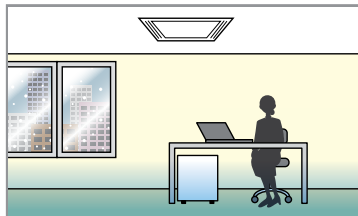
CONTINUOUS HEATING OPERATION

Y-Series EP | R2-Series EP

Y-Series P | R2 Series P

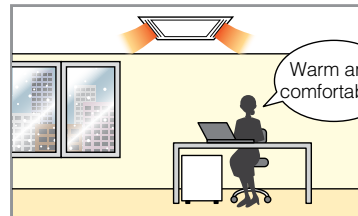
Normally, it is necessary to stop the heating operation during defrosting. However, the continuous heating operation method makes it possible to perform defrosting while the heating operation continues. Reduction in the stoppage time of the heating operation reduces drops in room temperature. Use a dip switch on the outdoor unit to switch between the continuous heating operation method and the conventional defrosting method.

During normal defrosting operation



Heating is stopped during the defrosting operation, so the room temperature drops.

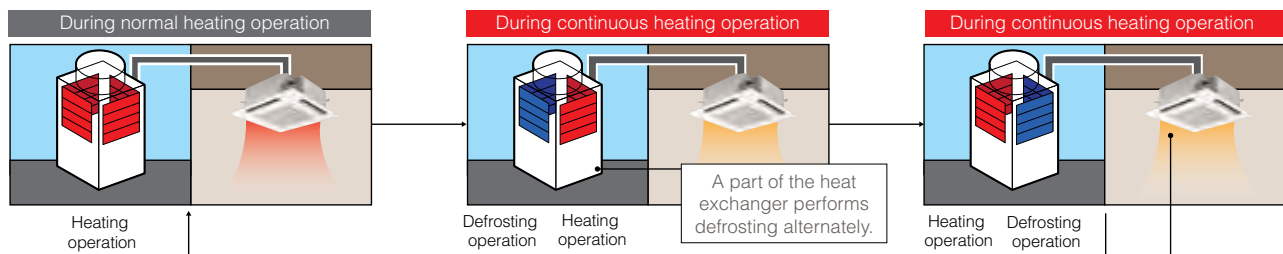
During continuous heating operation



You can enjoy a comfortable environment where the heating operation doesn't stop.

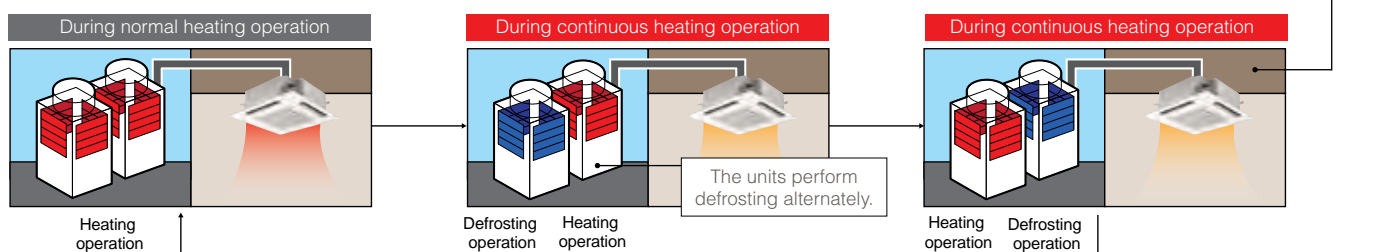
Continuous heating operation image (single unit)

The heat exchanger of the outdoor unit is split into parts. Even when defrosting is necessary, the heating operation is continued with a part of the heat exchangers.



Continuous heating operation image (combination)

With the combination model, units perform defrosting alternately. While one unit is performing defrosting, the other continues heating.



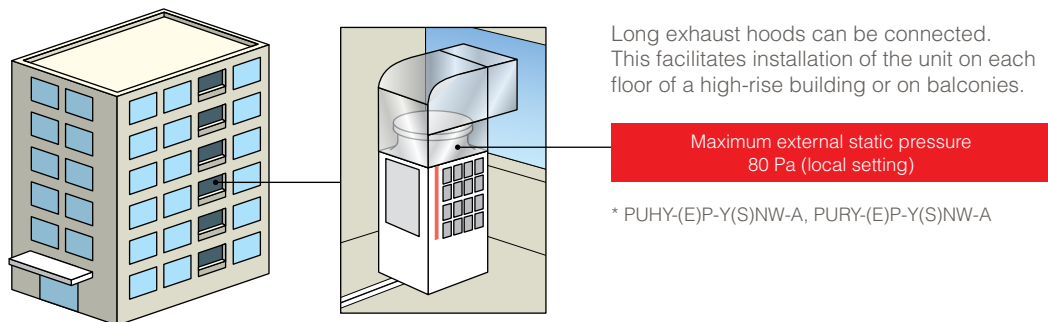
SELECTABLE EXTERNAL STATIC PRESSURE OF THE OUTDOOR UNIT

Y-Series EP | R2-Series EP

Y-Series P | R2 Series P

The static pressure specification of the outdoor unit can be selected (0, 30, 60, or 80 Pa). This facilitates installation of the unit on each floor of a high-rise building or on balconies.

* The static pressure that can be set varies depending on the model.



OPERATION AT HIGH OUTSIDE TEMPERATURES

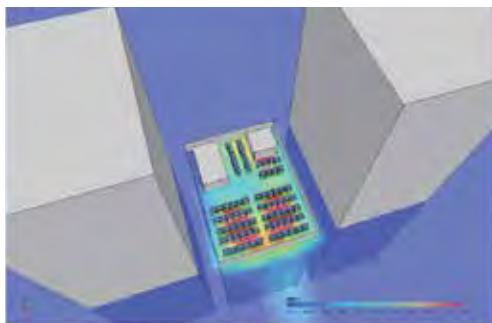
Y-Series EP | R2-Series EP

Y-Series P | R2 Series P

In certain cases, the passage of air is restricted in built-up areas. Discharged warm air that is kept around the outdoor units may cause a temperature increase around the units. The YNW series has an expanded guaranteed operation range of up to 52°C and can be used reliably even if the outdoor air temperature abnormally rises in hot summer daytime.

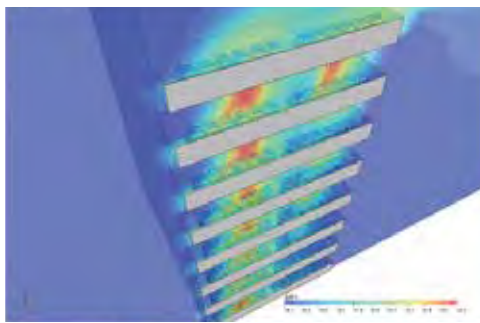
Example of flow analysis Conditions: Outdoor air temperature = 35°C (DB), Room temperature = 27°C (DB)

Built-up area with buildings and outdoor units



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

Installation on each floor a high-rise building



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

Models for use in outside temperature of up to 52°C



PUHY-(E)P-Y(S)NW-A
PURY-(E)P-Y(S)NW-A

* These images show the R2 High Efficiency type.

ROTATIONAL CONTROL

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series



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

EMERGENCY OPERATION MODE

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

Emergency operation is possible with indoor unit's remote control. With the combination model, if one outdoor unit is malfunctioning, the other outdoor unit can be set to perform an emergency operation.



Malfunction

Backup operation is possible

Emergency operation in case of unit failure



An emergency operation can be performed easily with a local remote controller.

PUMP DOWN FUNCTION

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

This function collects the refrigerant that remains in the indoor unit and in the field piping, allowing the system to be worked on, such as when the air conditioner is relocated.

This function can also be used to stop the operation of the indoor unit and return the refrigerant to the outdoor unit in the event that a refrigerant leak is detected.*

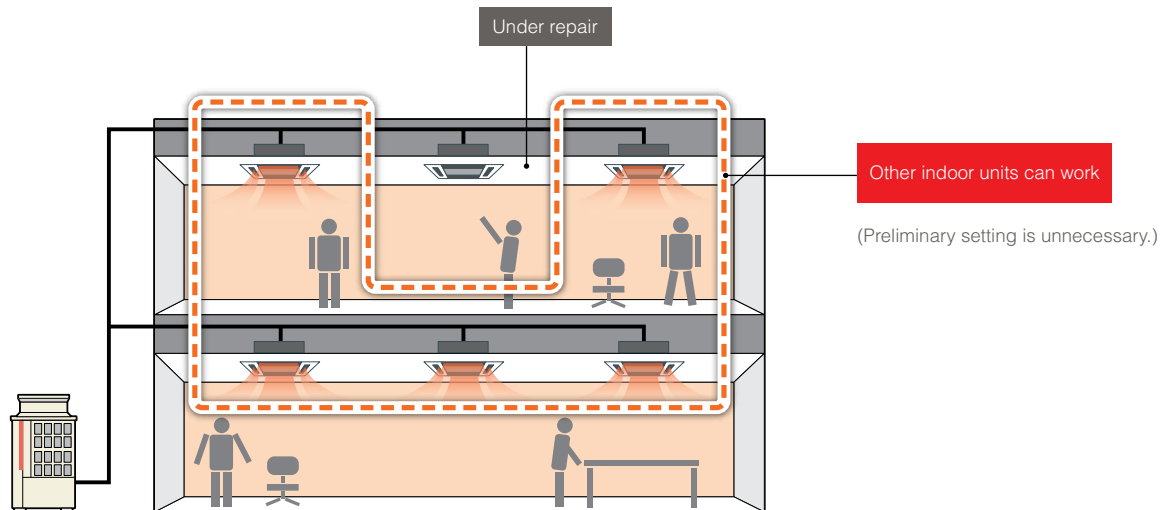
* To detect a refrigerant leak, a circuit that includes a refrigerant leak detection sensor must be installed and calibrated.

INDIVIDUAL LEV CONTROL

Y-Series EP | R2-Series EP | WY-Series

Y-Series P | R2 Series P | WR2-Series

Even if one of the indoor units is powered down for repair, the LEV of the indoor unit closes, and the other indoor units remain functional. (Preliminary setting is unnecessary.)



SNOW SENSOR SETTING

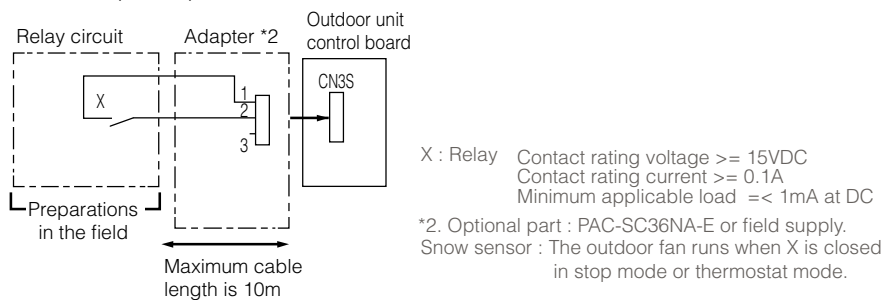
Y-Series EP | R2-Series EP

Y-Series P | R2 Series P

When a snow buildup signal is received from the snow sensor (procured locally) or when the ambient temperature drops below 5°C (detected with TH7), the outdoor unit is forcibly switched to ventilation operation. This activates the outdoor unit's fan to prevent snow from building up on the unit.







Snow sensor setting example

Snow sensor (CN3S)



Function Table

Mitsubishi Electric's outdoor units and heat source units utilise the latest technology and offer a wide variety of functions. See the preceding pages for details of each technology and function.

System	Air Cooled				Water Cooled	
Type	Heat Pump		Heat Recovery		Heat Pump	Heat Recovery
Series	Y-Series		R2-Series		WY-Series	WR2-Series
	Standard	High Efficiency	Standard	High Efficiency		
Model	PUHY-P Y(S)NW-A	PUHY-EP Y(S)NW-A	PURY-P Y(S)NW-A	PURY-EP Y(S)NSW-A	PQHY-P Y(S)LM-A1	PQRY-P Y(S)LM-A1
						

Operation mode

COP Priority Mode	✓	✓	✓	✓		
Low Noise Mode	50, 60, 70, 85, 100%	50, 60, 70, 85, 100%	50, 60, 70, 85, 100%	50, 60, 70, 85, 100%	50, 100%	50, 100%
System Changeover (for heat pump)	✓	✓			✓	
Auto Mode			✓	✓		✓
Dual Set Point	✓*	✓*	✓*	✓*	✓*	✓*

Energy efficiency control

Evaporating Temperature Control (fixed temperature control)	+6°C, +9°C, +14°C	+6°C, +9°C, +14°C	+6°C, +9°C, +14°C	+6°C, +9°C, +14°C	+6°C, +9°C, +14°C	+6°C, +9°C, +14°C
Evaporating Temperature Control (automatic control shifting)	4 Patterns	4 Patterns	4 Patterns	4 Patterns	4 Patterns	4 Patterns
High Sensible Heat Operation (during cooling)	✓	✓	✓	✓	✓	✓
Demand Control	12 Steps	12 Steps	8 Steps	8 Steps	8 Steps	8 Steps
Continuous Heating Operation During Defrost	✓	✓	✓	✓		
Selectable External Static Pressure of Outdoor Unit	0, 30, 60, 80, Pa	0, 30, 60, 80, Pa	0, 30, 60, 80, Pa	0, 30, 60, 80, Pa		
Operation at High Outside Temperatures	52°C	52°C	52°C	52°C		

Maintenance functions

Rotation Control	✓	✓	✓	✓	✓	✓
Emergency Operation mode	✓	✓	✓	✓	✓	✓
Pump Down Function	✓	✓	✓	✓	✓	✓
Individual LEV Control	✓	✓	✓	✓	✓	✓
Snow Sensor Setting	✓	✓	✓	✓		

*Must be supported by indoor unit and remote controller.

Y-Series

Cooling or Heating

HEAT PUMP

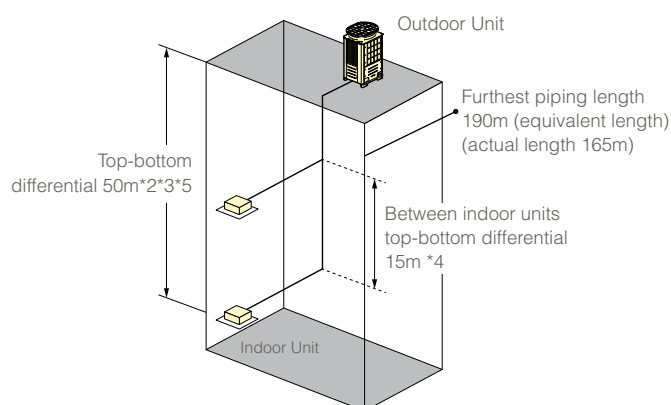
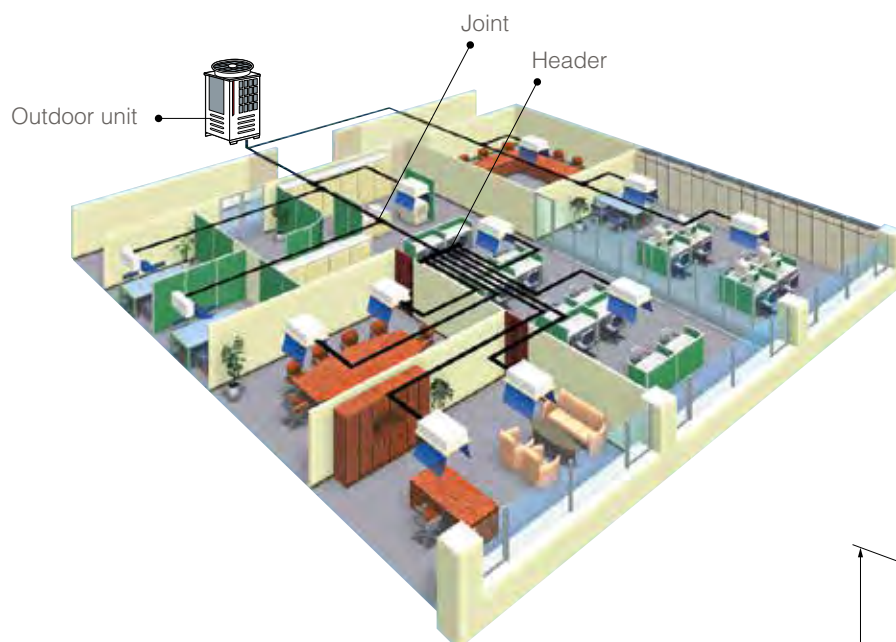
THE TWO-PIPE ZONED SYSTEM DESIGNED FOR HEAT PUMP OPERATION



*This image shows the High Efficiency type.

The CITY MULTI Y-Series (for large applications) makes use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, helping the indoor climate to be maintained in all zones. The compact outdoor unit utilises R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

With a wide lineup of indoor units in connection with a flexible piping system, the CITY MULTI Series can be configured for all applications. Up to 50 (Y-Series) indoor units can be connected with up to 130% connected capacity to maximise engineering design options. This feature allows easy air conditioning in each area with convenient individual controllers.



SYSTEM PIPE LENGTHS

(E)P200-(E)P1350

Refrigerant Piping Lengths	Maximum Units
Total Length	1000
Maximum Allowable Length	165 (190 equivalent)
Farthest Indoor from First Branch	40*1
Vertical Variations Between Units	Maximum Units
Indoor/Outdoor (Outdoor Higher)	50*2
Indoor/Outdoor (Outdoor Lower)	40*3
Indoor/Indoor	15*4

All values in metres

*1 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.

*2 90m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

*3 60m is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

*4 30m is available. If the height difference between indoor units exceeds 15m (but does not exceed 30m), use one size larger pipes for indoor unit liquid pipes.

*5 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m.

R2-Series

Simultaneous heating and cooling **HEAT RECOVERY**

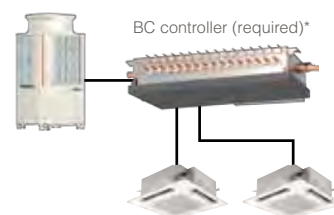
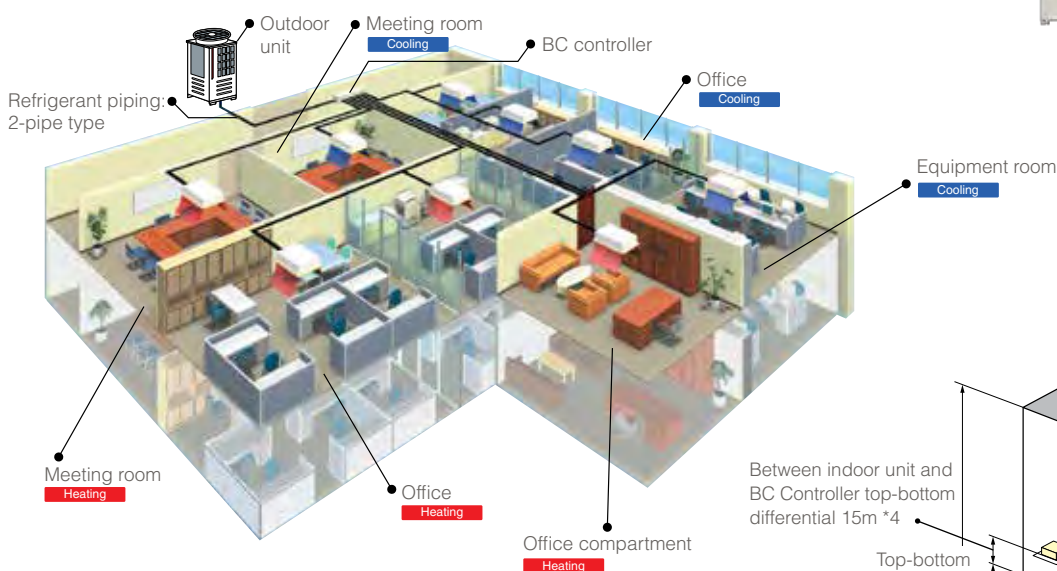
THE WORLD'S FIRST* TWO-PIPE SYSTEM THAT SIMULTANEOUSLY COOLS AND HEATS

*As of 1992 (according to our own survey).

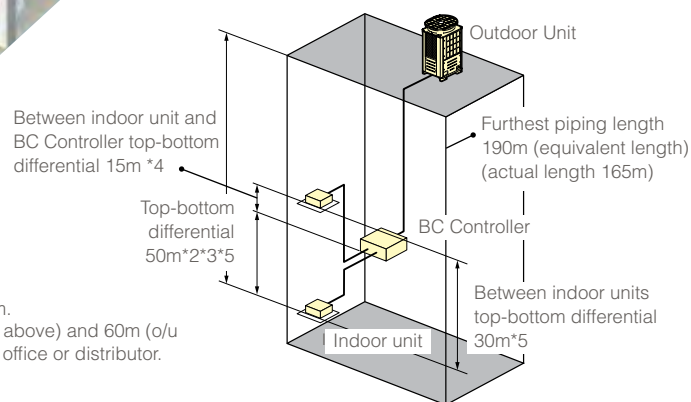
The CITY MULTI R2-Series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2-Series. It houses a liquid and gas separator, 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 reduced energy wasted. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.



*This image shows the High Efficiency type.



*R2-Series systems require the use of BC controllers.



*1 When you install a sub-BC controller, please refer to DATABOOK for full details.

*2 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m.

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

*4 Distance of Indoor sized P200, P250 from BC must be less than 10m.

*5 Distance of Indoor sized P200, P250 from BC must be less than 20m.

SYSTEM PIPE LENGTHS

(E)P200-(E)P1350

Refrigerant Piping Lengths	Maximum Units	Vertical Variations Between Units	Maximum Units
Total Length		Indoor/Outdoor (Outdoor Higher)	50*3
(E)P200 - (E)P300	550	Indoor/Outdoor (Outdoor Lower)	40*3
(E)P350 - (E)P550 (single module)	600	Indoor/BC Controller (Single/Main)	15*4
(E)P400 - (E)P600	750	*Maximum length between single/main BC Controller and indoor is dependent upon the vertical differential between the single/main BC controller and the indoor unit.	
(E)P650	800		
(E)P700 - (E)P1100	1000	Indoor/Indoor	30*5
		Main BC Controller/Sub-Controller	15
Maximum Allowable Length	165 (190 equivalent)		
Maximum length between outdoor and single/main BC controller			110

*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller

Maximum length between single/main BC Controller and indoor and sub-BC Controller*1

40-90

All values in metres

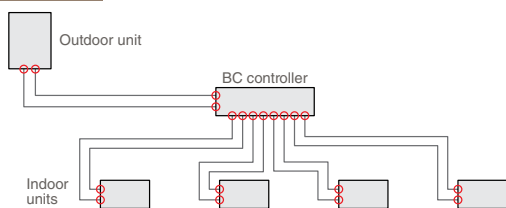
Benefits of the R2 System

Mitsubishi Electric's world's first 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

2 pipes CITY MULTI R2



Total Connections

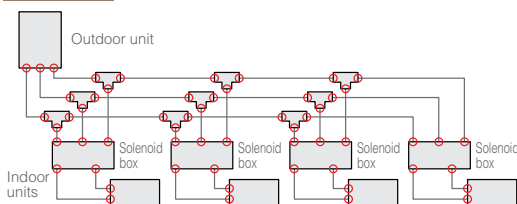
20

Drastically reduced
the amount of
piping



● = Piping connections

3 pipes



Total Connections

58



● = Piping connections

MAIN MODE OF COOLING/HEATING CAN BE SWITCHED OVER WITHOUT STOPPING OPERATION

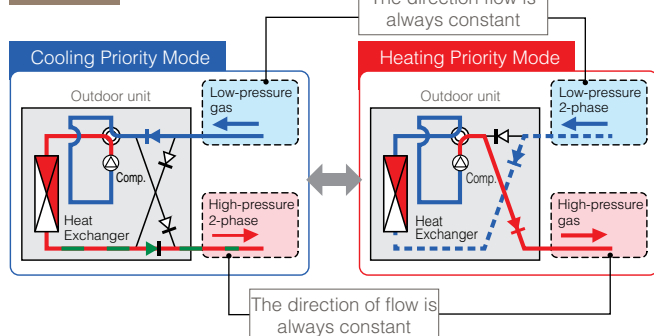
When cooling/heating mode switches

- » There is no need to stop the compressor.
- » Refrigerant noise generated when the refrigerant flow is switched can be lowered.

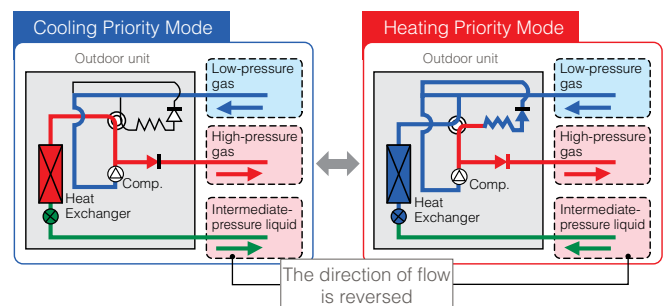
When cooling/heating mode switches

- » Compressor shuts down.
- » All indoor units stop for a few minutes.

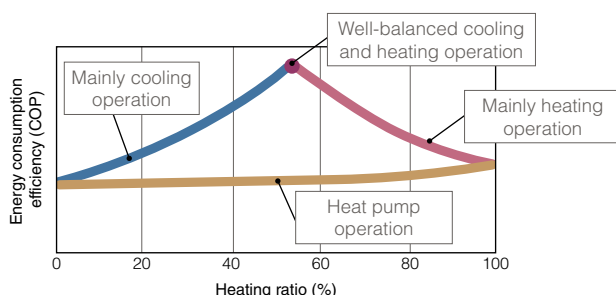
2 pipes CITY MULTI R2



3 pipes



HEAT RECOVERY OPERATION FOR GREATER ENERGY SAVING



COP in the heat recovery system

The more frequently cooling and heating are performed simultaneously, the greater the energy saving effect.



The Next Stage of Air Conditioning

YNW SERIES

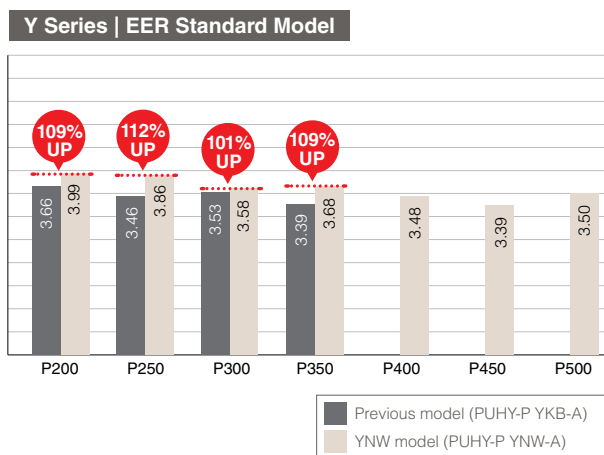
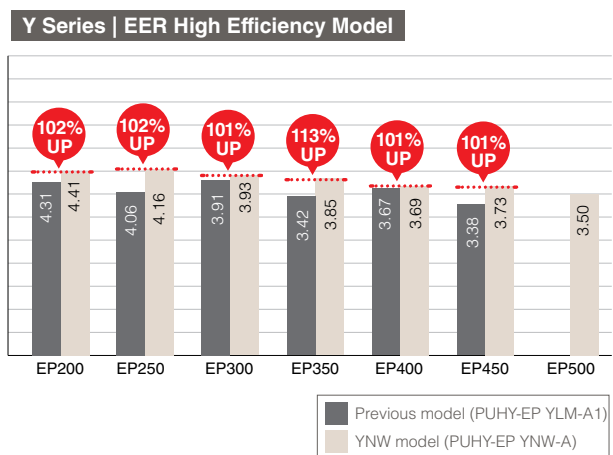
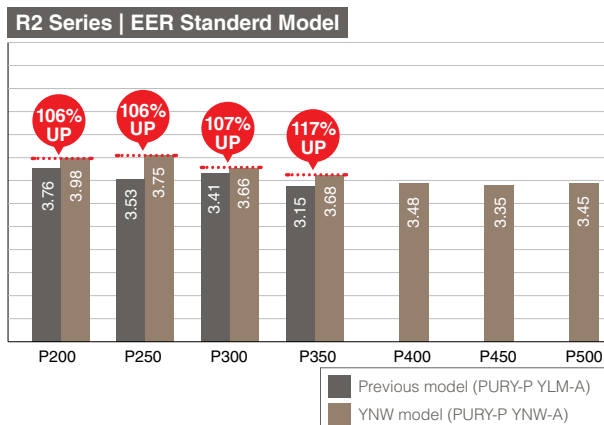
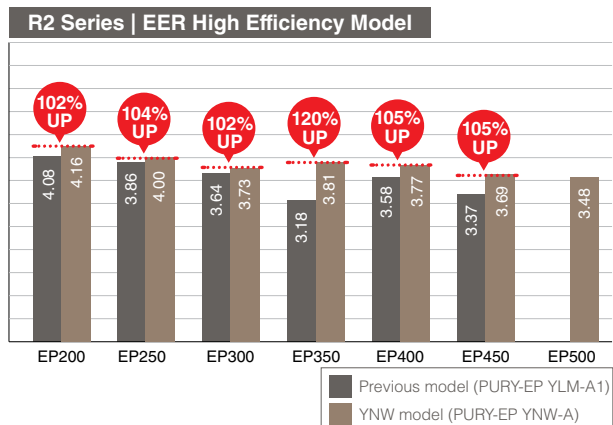
Introducing a new series of air conditioners with improved essential functions, advanced compressor and a streamline fan that meets energy-saving requirements. Mitsubishi Electric continues to improve air conditioning quality and provide its customers with next-stage solutions.

The new structural design has a 4-face air induction design and improved core components, such as compressor and fan, improving energy-saving performance.



ENERGY SAVING

Compared to the existing models, the all single modules (Y-Series) in YNW Series have improved EER and COP. EER of the 40kW model (PUHY-EP350YNW-A) is higher by approximately 12%. All these models ensure improved energy saving.



*Comparison under the nominal condition.

FLEXIBLE NOISE SETTING

The low-noise mode which conventionally only had one pattern has been increased to four patterns so that a mode can be selected from a total of five patterns including the rated pattern. The low-noise mode* has four patterns 85%, 70%, 60% and 50% for 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 a low-noise operation is required.

*In the low noise mode, the capacity will be reduced.

Previous model (YLM)

(YNW)



NEW DESIGN

For improved high efficiency, the structure was changed by using a four-sided heat exchanger. The appearance is more sophisticated and can enhance the design of a building.

*All YNW product images are High Efficiency type.

Comparison of modules (EP)

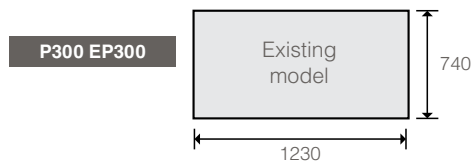


Capacity Increased up to 124kW New 45~56kW single module available

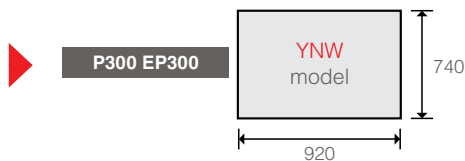
Single modules of up to 56kW have been added to the R2-Series.

Single modules are smaller, with L modules replacing the EP400 and P450 modules, reducing installation space by approximately 29%.

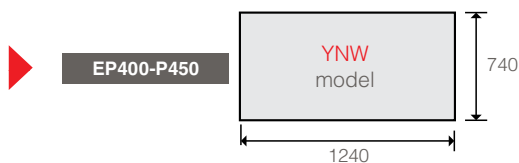
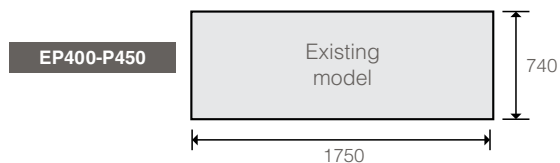
(E)P-YLM



(E)P-YNW



**Approx 25%
Reduction**



**Approx 29%
Reduction**

All values in mm

R2 Series

Single (P)

	22.4kW	28kW	33.5kW	40kW	45kW	50kW	56kW
	P200	P250	P300	P350	P400	P450	P500
YLM-A	S	S	L	L	-	-	-
YNW	S	S	S	L	L	L	XL

Single (EP)

	22.4kW	28kW	33.5kW	40kW	45kW	50kW	56kW
	P200	P250	P300	P350	P400	P450	P500
YLM-A1	S	S	L	L	XL	XL	-
YNW	S	S	S	L	L	L	XL

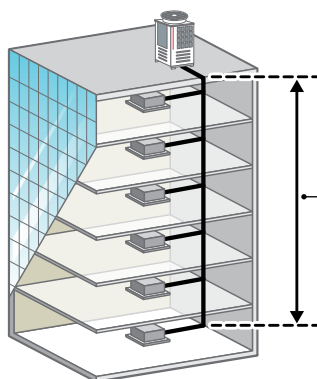
Combination (P)

	22.4kW	28kW	33.5kW	40kW	45kW	50kW	56kW	63kW	69kW	73kW	80kW	85kW	90kW	96kW	101kW	108kW	113kW	118kW	124kW
	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100
YLM-A	-	-	-	-	S+S	S+S	S+S	S+L	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	-	-	-	-
YNW	-	-	-	-	S+S	S+S	S+S	S+S	S+S	S+L	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	XL+XL	XL+XL

	Newly available single module
	Increase capacities up to 124kW
	Use of module one size smaller than existing unit

USABLE IN AN APPLICATION WITH A LARGE VERTICAL SEPARATION OF UP TO 90 METERS

A height difference of up to 90 m from the outdoor unit to the indoor unit can be supported with no additional parts. This increases design flexibility and facilitates installation of these units even in high-rise buildings.



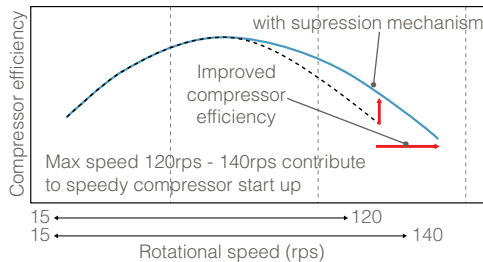
Height difference from outdoor unit to indoor unit:
The system can be configured with a height difference of up to **90m with no additional parts.**

*Whether the system can be configured with such a height difference varies depending on the model.
*The maximum height difference is 60 m when the outdoor unit is located lower than the indoor unit.

KEY COMPONENTS

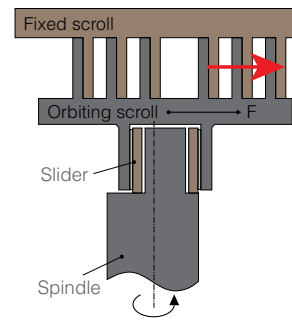
1. Compressor with centrifugal force suppression mechanism

The compressor, known as the heart of the air conditioner has been newly developed. A new centrifugal force suppression mechanism and a new multi-port mechanism have been implemented, as well as a mounted high-efficiency motor. The synergistic effect of these new technologies increases the compressor performance and efficiency and also helps to improve the performance of the outdoor unit.



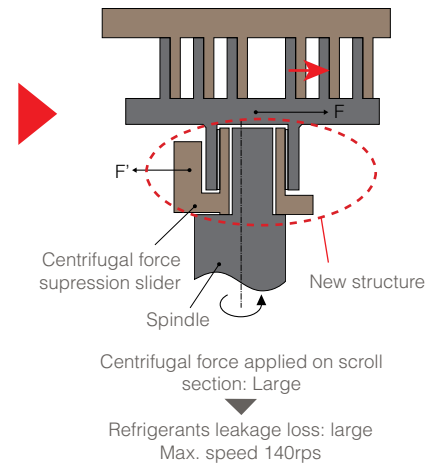
Existing mechanism

Small loss | Vortex pressing speed low



Centrifugal force suppression

Large loss | Vortex pressing speed high



Centrifugal force suppression mechanism (22.4kw to 40kw)

The structure of the scroll compressor causes a centrifugal force during operation. Conventionally, that centrifugal force is applied onto the scroll section. This causes the refrigerant to leak and restricts the increase in rotational speed to a maximum of 120rps. With the new compressor, a new structure (centrifugal force suppression mechanism) has been mounted to suppress the centrifugal force. This mechanism successfully suppresses the centrifugal force generated at the scroll section, reduces refrigerant leakage losses and increases the compressor efficiency. The maximum rotational speed has been increased from the conventional 120rps to 140rps. This new mechanism also speeds up the start of operation and enables operations such as preheat defrost operation and the smooth auto-shift startup mode.

Multi-port mechanism

With the scroll compressor, the distance of the compression process in the scroll is usually fixed, so over-compression occurs during the low loads and low rotation. The new compressor is equipped with to sub-ports, in addition to the conventional discharge port to reduce this over-compression loss during low loads. In operation conditions having a low compression rate, the distance in the compression process is kept short by that successfully avoiding additional compression and contributing to the efficient partial load operation.

Existing structure

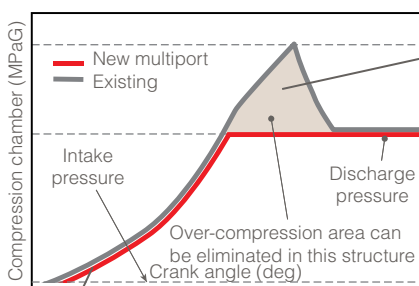
Operation pattern			
	Partial load	Rating, high pressure difference	
Main port	Valve ①	Open	Open
Discharge port	Valve ①	Open	Open

Structure with multi-port design

Operation pattern			
	Partial load	Rating, high pressure difference	
Main port	Valve ①	Open	Open
Sub-port	Valve ②	Open	Closed
Multiport	Valve ③	Open	Closed

The sub-port is opened during partial load operation to discharge the over-compressed gas.

Reduced over-compression loss (multi-port)



Existing model

Conventionally, gas refrigerant is compressed to a set pressure, and then lowered to the target discharge pressure at which it is discharged. This causes drive losses from over-compression.

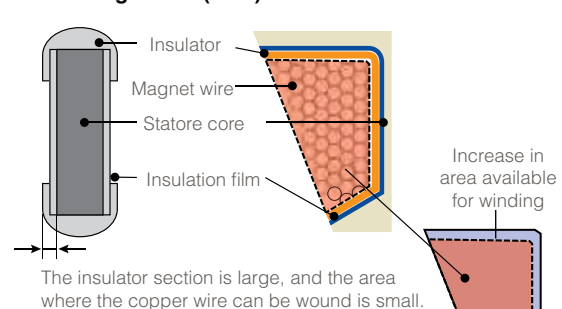
Multi-port

When the target discharge pressure is reached, the multi-port opens, and the gas refrigerant is discharged. This reduces drive losses caused by over-compression.

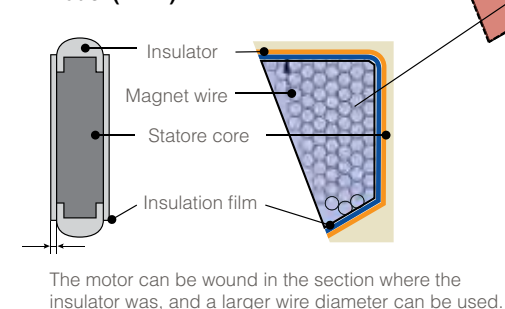
Improved high-efficiency motor

The insulator section that traditionally created a dead space is reduced by insulating the motor's stator film. Since winding can be set in that section, the winding area can be increased by approximately 9%. The wire diameter has also been increased by two ranks, so the resistance between terminals is reduced and the insulations distance is shorter. This improves the motor's operation performance and contributes to high-efficiency operation of the compressor.

Existing model (YLM)



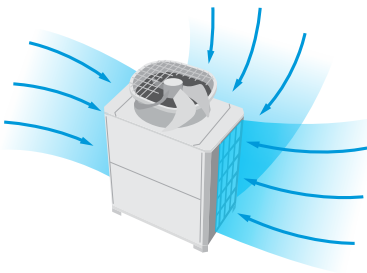
Model (YNW)



2. Four-way suction and new fan

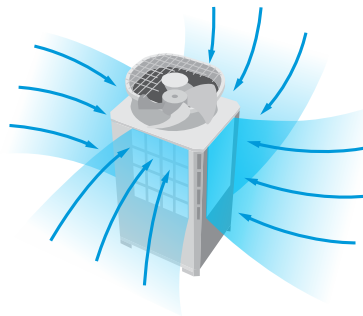
On the conventional models, a U-shaped heat exchanger was installed over the rear and side surfaces. In the YNW model, the four-sided heat exchanger is mounted on the top section of the module near the fan. This allows air to be taken in effectively increasing the heat exchanger's efficiency.

Existing model



The three-surface circulation and the vertically long heat exchanger attenuate the suction rate at sections distanced from the fan.

YNW model



Efficient air circulation is achieved by placing the heat exchangers on the upper part. The multiplier effect created by increasing the number of suction surfaces from three surfaces to four surfaces improves the operation efficiency.

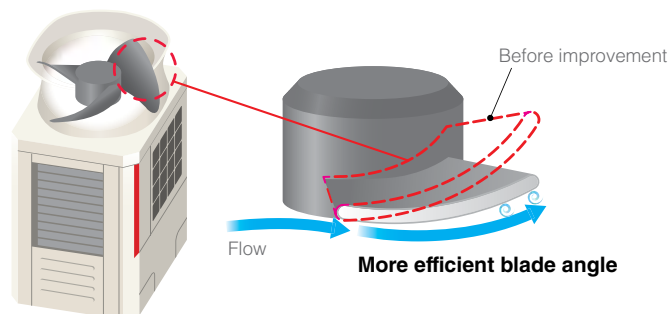
3. Streamlined fan

A new fan which is suitable for a 4-face suction, with a newly designed winglet provided on the periphery of each blade to operate efficiently. Additionally, the blade angle is adequately determined according to the flows on the inner and outer peripheries of the blade to optimise the blowing efficiency.

Before improvement

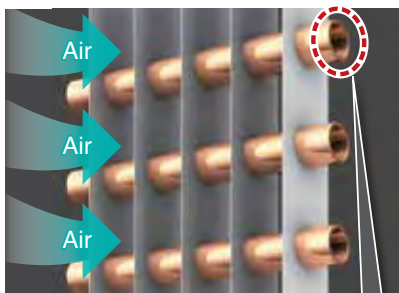


After improvement

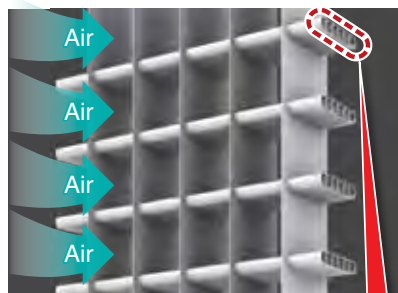


4. Flat-tube heat exchanger (EP Models)

In addition to the round-tube heat exchanger models, the flat-tube heat exchanger models are available. The use of flat tubes increases the number of piping stages while maintaining the same size for the heat exchanger. The inside of the tube is divided into thin compartments, which increases the area of contact between refrigerant and air, thereby increasing heat exchange effectiveness and significantly improving energy-saving performance. The flat-tube heat exchanger improves heat exchange effectiveness by approximately 30% compared to round-tube heat exchangers.



Round-tube shape

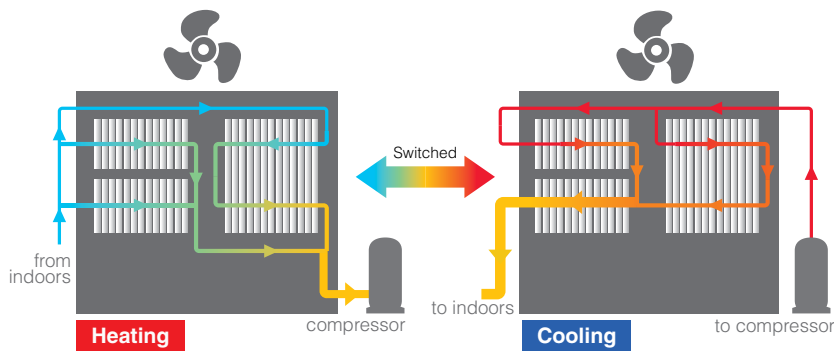


Flat-tube shape

Increase in heat exchange efficiency

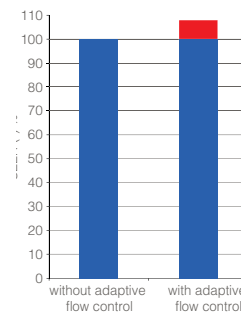
5. Adaptive flow control

Changed to a refrigerant circuit flow for both heating and cooling.



*Not applicable to all models

Comparison of EP300 (Y Series) SEER (cooling) with and without variable path



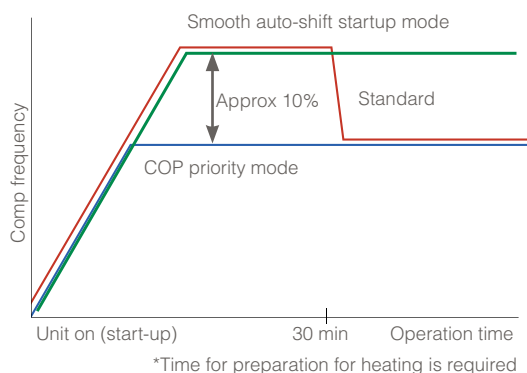
- » During cooling, a serial flow path (flow through two of the heat exchangers split into three and then through the last heat exchanger) is used. With fewer paths, the refrigerant flow rate is increased, and the heat conductivity performance is improved. The drop in heat exchanger capacity per path prevents the refrigerant stagnation and improves the condensing performance of the heat exchanger during cooling.
- » During heating, a parallel flow path (flow refrigerant simultaneously through all heat exchangers split into three) is used. By flowing the refrigerant to all paths at the heat exchanger inlets (by increasing the number of paths compared to cooling), the pressure loss in the heat exchanger is reduced, and the evaporator performance is improved.

*Increase in evaporator performance is compared to using the original number of cooling paths.

KEY FUNCTIONS

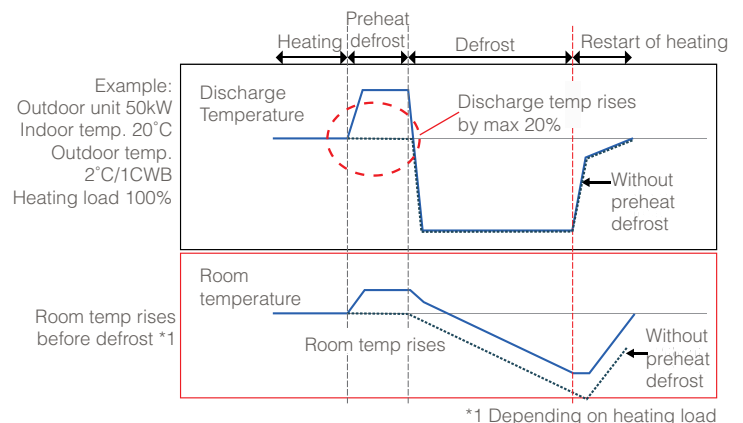
1. Smooth auto-shift startup mode

Smooth auto-shift startup mode, a new operation mode on the outdoor unit can now be selected in addition to the conventional COP Priority and Capacity Priority modes. To heat the room faster, Capacity Priority mode runs for 30 minutes when the heating operation starts. The unit then switches to COP Priority mode to increase energy-saving efficiency. This enables both improved comfort and energy savings.



2. Preheat defrost operation

The new outdoor unit is equipped with a preheat defrost operation that raises the discharge temperature of the air before beginning defrost operation. This contributes to raising the room temperature before the start of the defrost operation and prevents room occupants experiencing a chilling sensation.

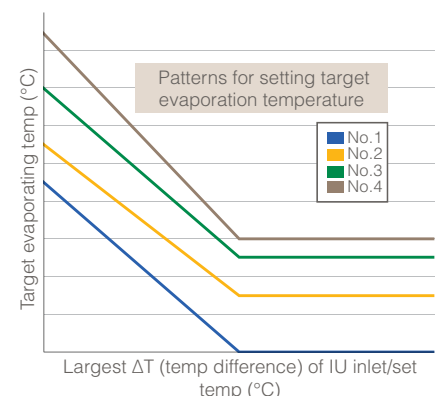
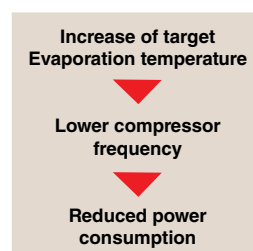


3. Energy-efficient evaporation control

Since the evaporation temperature is kept constant regardless of the air conditioning load in normal operation mode, energy loss could occur at times of low air conditioning load. The new models are equipped with a function for selecting the target evaporation temperature*1 according to the air conditioning load. The compressor frequency is reduced according to conditions in the room to control the evaporation temperature. This can curb excessive power consumption and realise energy savings*2.

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

*2 When the difference between the indoor unit air intake temperature and the actual temperature setting exceeds 1°C, the air conditioner returns to normal mode.



4. High sensible heat operation

The evaporating temperature is controlled according to a room's temperature and humidity and refrigerant pressure.

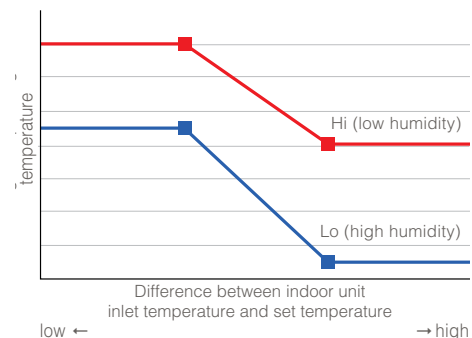
With high sensible heat operation mode activated, air conditioners consume less energy,*1 thereby realising cost savings.

If a locally procured humidity sensor is installed, the evaporating temperature of the outdoor unit can be controlled optimally as shown below according to the difference between the indoor unit inlet temperature and set temperature.

A wide range of temperature settings is available, from a low evaporating temperature close to the temperature for normal operation to a high evaporating temperature to realise energy savings.

*1 Unlike in evaporating temperature control mode, once the air conditioners are set in high sensible heat operation mode, they are kept running at reduced evaporating temperature.

Image of evaporating temperature control during high sensible heat operation in full cooling mode



Temperature and humidity conditions

	Room State	Condition of Outdoor Unit	Zone	Evaporating Temperature Control
Comfortable temperature and humidity High sensible heat operation	Comfortable	Comfortable and energy-saving operation even at low compressor rotating speed	Humidity Temperature Comfortable zone	Target evaporating temperature Temperature of refrigerant in indoor unit kept high Hi Lo Difference between indoor unit inlet temperature and set temperature low ← → high
High humidity	Slightly humid	Compressor rotating at medium speed to reduce humidity	Humidity Temperature Comfortable zone	Target evaporating temperature Temperature of refrigerant in indoor unit slightly reduced Hi Lo Difference between indoor unit inlet temperature and set temperature low ← → high
High temperature and humidity	Uncomfortable	Compressor rotating at high speed to reduce temperature and humidity	Humidity Temperature Comfortable zone	Target evaporating temperature Temperature of refrigerant in indoor unit significantly reduced Hi Lo Difference between indoor unit inlet temperature and set temperature low ← → high

5. Maintenance data retrieval via USB

Operation data was retrieved from conventional models using the maintenance tool. On the new model, the data can be retrieved quickly via USB*1. For convenience, it is unnecessary to carry a PC that the maintenance tool application is installed on. The software can be written via USB, while data for can be stored in the USB memory device*2 up to 4 days and the 5 minutes after an error has occurred.

*1 In the case of OC-IC maximum configuration.

*2 USB memory devices conforming to USB2.0 can be used.

OPTIONAL PARTS

OUTDOOR UNITS

For Y SERIES

Description	Model	Remarks
Twinning Kit	CMY-Y100VBK3	For PUHY-(E)P400 ~ (E)P650YSNW-A
	CMY-Y200VBK2	For PUHY-(E)P700 ~ (E)P900YSNW-A
	CMY-Y300VBK3	For PUHY-(E)P950 ~ (E)P1350YSNW-A
Branch Pipe (Joint)	CMY-Y102SS-G2	200 or below (total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (total capacity of indoor unit)
	CMY-Y202S-G2	401-650 (total capacity of indoor unit)
	CMY-Y302S-G2	651-above (total capacity of indoor unit)
Branch Pipe (Header)	CMY-Y104-G	For 4 branches
	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
Fin Guard	PAC-FG01S-E	For side surfaces of S and L modules (a set of two pieces)
	PAC-FG02S-E	For side surfaces of XL modules (a set of two pieces)
	PAC-FG01B-E	For rear surface of S module
	PAC-FG02B-E	For rear surface of L module
	PAC-FG03B-E	For rear surface of XL module

For R2 SERIES

Description	Model	Remarks
Twinning Kit	CMY-R100VBK4	For PURY-(E)P400 ~ (E)P650YSNW-A
	CMY-R200VBK4	For PURY-(E)P700 ~ (E)P1100YSNW-A
	CMY-Y102SS-G2	200 or below (total capacity of indoor unit)
For BC Controller	2-Branch Joint Pipe	CMY-Y102LS-G2 201-400 (total capacity of indoor unit)
	Joint and Reducer	CMY-R201S-G 350 or below (total capacity of indoor unit)
		CMY-R202S-G 351-600 (total capacity of indoor unit)
		CMY-R203S-G 601-650 (total capacity of indoor unit)
		CMY-R204S-G 651-1000 (total capacity of indoor unit)
		CMY-R205S-G 1001 or above (total capacity of indoor unit)
		CMY-R101S-G For P200-P650 outdoor unit
		CMY-R102S-G For P700-P1100 outdoor unit
	Reducer	CMY-R301S-G For CMB-P104,106,108,1012,1016V-J (When the outdoor unit capacity is P200 to P300)
		CMY-R302S-G For CMB-P108,1012,1016V-JA (when the outdoor unit capacity is P200 to P900)
		CMY-R303S-G For CMB-P108,1012,1016V-JA and for use with Sub-BC Controller
		CMY-R304S-G For CMB-P1016V-KA(When the outdoor unit capacity is P200 to P1000)
		CMY-R305S-G For CMB-P1016V-KA and for use with Sub-BC Controller
		CMY-R306S-G For CMB-P104V-KB
	Branch Pipe (Header)	CMY-R160-J1 Joint for connecting to two nozzles
Fin Guard	PAC-FG01S-E*	For side surfaces of S and L modules (a set of two pieces)
	PAC-FG02S-E*	For side surfaces of XL modules (a set of two pieces)
	PAC-FG01B-E	For rear surface of S module
	PAC-FG02B-E	For rear surface of L module
	PAC-FG03B-E	For rear surface of XL module

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YNW-A(-BS)



Model			PUHY-P200YNW-A (-BS)	PUHY-P250YNW-A(-BS)	PUHY-P300YNW-A (-BS)	PUHY-P350YNW-A (-BS)
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	22.4	28.0	33.5	40.0
		BTU/h	76,400	95,500	114,300	136,500
	Power Input	kW	5.61	7.25	9.35	10.86
	Current Input	A	9.4-8.9-8.6	12.2-11.6-11.2	12.9-12.2-11.8	18.3-17.4-16.7
	EER	kW/kW	3.99	3.86	3.58	3.68
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	25.0	31.5	37.5	45.0
		BTU/h	85,300	107,500	128,000	153,500
	Power Input	kW	5.59	7.35	9.10	11.30
	Current Input	A	9.4-8.9-8.6	12.4-11.7-11.3	15.3-14.1-14.0	19.0-18.1-17.4
	COP	kW/kW	4.47	4.28	4.2	3.98
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26	P15~P250/1~30
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	58.0 / 59.0	60.0 / 61.0	61.0 / 64.5	62.0 / 64.0
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	75.0 / 78.0	78.0 / 80.0	80.0 / 83.5	80.5 / 83.0
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, Farthest Length >= 90m)	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			28.58 (1-1/8) Brazed
FAN *4	Type x Quantity		Propeller Fan x 1			Propeller Fan x 2
	Air Flow Rate	m³/min	170	185	240	270
		L/s	2,833	3,083	4,000	4,500
		cfm	6,003	6,532	8,474	9,534
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.92 x 1			0.46 x 2
External Static Pressure		0 Pa (0 mmH ₂ O)				
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	5.6	7.0	7.9	9.8
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740			1,858 (1,798 without legs) x 1,240 x 740
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 6.5kg			R10A x 9.8kg
Net Weight		kg	225	228	278	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube ⁶			
Optional Parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1012, 1010-G			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1012, 1010-G

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YNW-A(-BS)



Model			PUHY-P400YNW-A (-BS)		PUHY-P450YNW-A(-BS)		PUHY-P500YNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
		Power Input	kW		12.93		14.74	
		Current Input	A		21.8-20.7-19.9		24.8-23.6-22.7	
		EER	kW/kW		3.48		3.39	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C					
	Outdoor	D.B.	-5.0~52.0 °C					
Heating Capacity (Max)*2		kW	50.0		56.0		63.0	
		BTU/h	170,600		191,100		215,000	
		Power Input	kW		13.69		16.32	
		Current Input	A		23.1-21.9-21.1		27.5-26.1-25.2	
		COP	kW/kW		3.65		3.43	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C					
	Outdoor	W.B.	-20.0~15.5 °C					
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	65.0 / 67.0		65.5 / 69.5		63.5 / 66.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	82.5 / 86.0		83.5 / 88.5		82.0 / 85.5	
Refrigerant Piping Diameter	High Pressure	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed			
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
FAN *4	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min	300		305		365	
		L/s	5,000		5,083		6,083	
		cfm	10,593		10,770		12,888	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.46 x 2			0.92 x 2		
	External Static Pressure		0 Pa (0 mmH₂O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	10.9		12.4		13.3	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			1,858 (1,798 without legs) x 1,750 x 740		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP./FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R410A x 9.8kg		R410A x 10.8kg			
Net Weight		kg	278		294		337	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6					
Optional Parts			Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P400YSNW-A (-BS)		PUHY-P450YSNW-A(-BS)		PUHY-P500YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
	Power Input	kW	11.63		13.15		14.97	
	Current Input	A	19.6-18.6-17.9		22.1-21.6-20.3		25.2-24.0-23.1	
	EER	kW/kW	3.87		3.80		3.74	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C					
	Outdoor	D.B.	-5.0~52.0 °C					
Heating Capacity (Max)*2		kW	50.0		56.0		63.0	
		BTU/h	170,600		191,100		215,000	
	Power Input	kW	11.54		13.23		15.18	
	Current Input	A	19.4-18.5-17.8		22.1-21.0-20.3		25.6-24.3-23.4	
	COP	kW/kW	4.33		4.23		4.15	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C					
	Outdoor	W.B.	-20.0~15.5 °C					
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	61.0 / 62.0		62.0 / 63.0		63.0 / 64.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	78.0 / 81.0		80.0 / 82.0		81.0 / 83.0	
Refrigerant Piping Diameter	High Pressure	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed			
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
Set Model								
Model			PUHY-P200YNW-A (-BS)	PUHY-P200YNW-A (-BS)	PUHY-P200YNW-A (-BS)	PUHY-P250YNW-A (-BS)	PUHY-P250YNW-A (-BS)	PUHY-P250YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 1					
	Air Flow Rate	m³/min	170			185		
		L/s	2,833			3,083		
		cfm	6,003			6,532		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.92 x 1					
	External Static Pressure		0 Pa (0 mmH ₂ O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	5.6			7.0		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP./FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R410A x 6.5kg					
Net Weight		kg	225					
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6					
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed					
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YNW-A(-BS)



Model			PUHY-P550YSNW-A (-BS)		PUHY-P600YSNW-A(-BS)		PUHY-P650YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
	Power Input	kW	17.54		19.88		20.79		
	Current Input	A	29.6-28.1-27.1		27.4-26.0-25.1		35.0-33.3		
	EER	kW/kW	3.59		3.47		3.51		
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	69.0		76.5		81.5		
		BTU/h	235,400		261,00		278,100		
	Power Input	kW	16.99		19.17		21.61		
	Current Input	A	28.6-27.2-26.2		32.3-30.7-29.6		36.4-34.6-33.4		
	COP	kW/kW	4.06		3.99		3.77		
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~47		P15~P250/2~50				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	63.5 / 66.0		64.0 / 67.5		66.5 / 68.0		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	82.0 / 85.0		83.0 / 86.5		84.0 / 87.0		
Refrigerant Piping Diameter	High Pressure	mm (in.)	15.88 (5/8) Brazed						
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PUHY-P250YNW-A(-BS)	PUHY-P300YNW-A(-BS)	PUHY-P300YNW-A(-BS)	PUHY-P300YNW-A(-BS)	PUHY-P250YNW-A(-BS)	PUHY-P400YNW-A(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1						Propeller Fan x 2
	Air Flow Rate	m³/min	185	240				185	300
		L/s	3,083	4,000				3,083	5,000
		cfm	6,532	8,474				6,532	10,593
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.92 x 1						0.46 x 2
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.0	7.9				7.0	10.9
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740						1,858 (1,798 without legs) x 1,240 x 740
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP./FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant Type x Original Charge			R410A x 6.5kg						R410A x 9.8
Net Weight		kg	225	228				225	278
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed				9.52 (3/8) Brazed	12.7 (1/2) Brazed
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed						28.58 (1-1/8) Brazed
Optional Parts			Outdoor Twinning Kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P700YSNW-A (-BS)		PUHY-P750YSNW-A(-BS)		PUHY-P800YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	80.0		85.0		90.0		
		BTU/h	273,000		290,000		307,100		
		Power Input	kW	22.47		24.56		26.39	
		Current Input	A	37.9-36.0-34.7		41.4-39.3-37.9		44.5-42.3-40.7	
		EER	kW/kW	5.56		3.46		3.41	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	88.0		95.0		100.0		
		BTU/h	300,300		324,100		341,200		
		Power Input	kW	22.79		25.81		28.08	
		Current Input	A	38.4-36.5-35.2		43.5-41.3-39.8		47.5-42.3-43.4	
		COP	kW/kW	3.86		3.68		3.56	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	65.5 / 67.0		67.0 / 68.5		67.5 / 71.0		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	83.5 / 86.0		84.5 / 88.0		85.5 / 89.5		
Refrigerant Piping Diameter	High Pressure	mm (in.)	19.05 (3/4) Brazed						
	Low Pressure	mm (in.)	34.93 (1-3/8) Brazed						
Set Model									
Model			PUHY-P350YNWA(-BS)	PUHY-P350YNWA(-BS)	PUHY-P350YNWA(-BS)	PUHY-P4000YNWA(-BS)	PUHY-P350YNWA(-BS)	PUHY-P450YNWA(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 2						
	Air Flow Rate	m³/min	270		300		270	305	
		L/s	4,500		5,000		4,500	5,083	
		cfm	9,534		10,593		9,534	10,770	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.46 x 2						
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	9.8		10.9		9.8	12.4	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798) x 1,240 x 740						
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP./FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 9.8kg					R410A x 10.8kg	
Net Weight		kg	278					294	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		12.7 (1/2) Brazed	15.88 (5/8) Brazed	
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed						
Optional Parts			Outdoor Twinning Kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P850YSNW-A (-BS)		PURY-P900YSNW-A(-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	96.0		101.0	
		BTU/h	327,600		344,600	
	Power Input	kW	28.91		30.79	
	Current Input	A	48.8-46.3-44.6		51.9-49.3-47.5	
	EER	kW/kW	3.32		3.28	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C			
	Outdoor	D.B.	-5.0~52.0 °C			
Heating Capacity (Max)*2		kW	108.0		113.0	
		BTU/h	368,500		385,600	
	Power Input	kW	31.57		34.03	
	Current Input	A	53.2-50.6-48.8		57.4-54.5-52.6	
	COP	kW/kW	3.42		3.32	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C			
	Outdoor	W.B.	-20.0~15.5 °C			
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	68.5 / 71.5		68.5 / 72.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.0 / 90.5		86.5 / 91.5	
Refrigerant Piping Diameter	High Pressure	mm (in.)	19.05 (3/4) Brazed			
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed			
Set Model						
Model			PUHY-P400YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 2			
	Air Flow Rate	m³/min	300	305		
		L/s	5,000	5,083		
		cfm	10,593	10,770		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.46 x 2			
	External Static Pressure		0 Pa (0 mmH₂O)			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	10.9	12.4		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R410A x 9.8kg	R410A x 10.8kg		
Net Weight		kg	278	294		
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6			
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed			
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed			
Optional Parts			Outdoor Twinning Kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P950YSNW-A (-BS)			PUHY-P1000YSNW-A(-BS)			
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	108.0			113.0			
		BTU/h	368,500			385,600			
	Power Input	kW	29.91			32.01			
	Current Input	A	50.4-47.9-46.2			54.0-51.3-49.4			
	EER	kW/kW	3.61			3.53			
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	119.5			127.0			
		BTU/h	407,700			433,300			
	Power Input	kW	30.40			33.42			
	Current Input	A	51.3-48.7-46.9			56.4-53.5-51.6			
	COP	kW/kW	3.95			3.80			
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	66.0 / 68.0			68.0 / 69.5			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	84.5 / 87.0			85.5 / 88.5			
Refrigerant Piping Diameter	High Pressure	mm (in.)	19.05 (3/4) Brazed						
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed						
Set Model									
Model			PUHY-P250YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P250YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P400YNW-A (-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1	Propeller Fan x 2		Propeller Fan x 1		Propeller Fan x 2	
	Air Flow Rate	m³/min	185	270		185		300	
		L/s	3,083	4,500		3,083		4,500	
		cfm	6,532	9,534		6,532		10,593	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.92 x 1	0.46 x 2		0.92 x 1		0.46 x 2	
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.0	9.8		7.0		9.8	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 1,240 x 740	
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 6.5kg	R410A x 9.8kg		R410A x 6.5kg		R410A x 9.8kg	
Net Weight		kg	225	278		225		278	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed		9.52 (3/8) Brazed		12.7 (1/2) Brazed	
	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	
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P1050YSNW-A (-BS)		PUHY-P1100YSNW-A (-BS)				
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	118.0		124.0				
		BTU/h	402,600		423,100				
	Power Input	kW	34.10		35.53				
	Current Input	A	57.5-54.6-52.7		59.9-56.9-54.9				
	EER	kW/kW	3.46		3.49				
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	132.0		140.0				
		BTU/h	450,400		177,700				
	Power Input	kW	35.86		37.43				
	Current Input	A	60.5-57.5-55.4		63.1-60.0-57.8				
	COP	kW/kW	3.58		3.74				
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/3~50		P15~P250/3~50				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	68.5 / 70.5		68.5 / 70.0				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.0 / 89.5		86.0 / 88.0				
Refrigerant Piping Diameter	High Pressure	mm (in.)	19.05 (3/4) Brazed						
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed						
Set Model									
Model			PUHY-P250YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P400YNW-A (-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1		Propeller Fan x 2				
	Air Flow Rate	m³/min	185		300		270		300
		L/s	3,083		5,000		4,500		5,000
		cfm	6,532		10,593		9,534		10,593
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.92 x 1		0.46 x 2				
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.0		10.9		9.8		10.9
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 1,240 x 740				
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 6.5kg		R410A x 9.8kg				
Net Weight		kg	225		278				
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed		15.88 (5/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed				
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P1150YSNW-A (-BS)		PUHY-P1200YSNW-A(-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	130.0		136.0	
		BTU/h	443,600		464,000	
	Power Input	kW	37.90		40.35	
	Current Input	A	63.9-60.7-58.5		68.1-64.7-62.3	
	EER	kW/kW	3.43		3.37	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C			
	Outdoor	D.B.	-5.0~52.0 °C			
Heating Capacity (Max)*2		kW	145.0		150.0	
		BTU/h	494,700		511,800	
	Power Input	kW	39.94		42.37	
	Current Input	A	67.4-64.0-61.7		71.5-67.9-65.4	
	COP	kW/kW	3.78		136.0	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C			
	Outdoor	W.B.	-20.0~15.5 °C			
Indoor Unit Connectable	Total Capacity	50~130% of Outdoor Unit Capacity				
	Model/Quantity	P15~P250/3~50				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	69.0 / 71.0		70.0 / 72.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.5 / 90.0		87.5 / 91.0	
Refrigerant Piping Diameter	High Pressure	mm (in.)	19.05 (3/4) Brazed			
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed			
Set Model						
Model			PUHY-P350YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 2			
	Air Flow Rate	m³/min	270	300		
		L/s	4,500	5,000		
		cfm	9,534	10,593		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.46 x 2			
	External Static Pressure		0 Pa (0 mmH₂O)			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	9.8	10.9		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R410A x 9.8kg			
Net Weight		kg	278			
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6			
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed		
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed			
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P1250YSNW-A (-BS)		PUHY-P1300YSNW-A(-BS)					
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz							
Cooling Capacity (Nominal)*1		kW	140.0		146.0					
		BTU/h	477,700		498,200					
		Power Input	41.91		44.10					
		Current Input	70.7-67.2-64.7		74.4-70.7-68.1					
EER		kW/kW	3.34		3.31					
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C							
	Outdoor	D.B.	-5.0~52.0 °C							
Heating Capacity (Max)*2		kW	165.5		163.0					
		BTU/h	534,000		556,200					
		Power Input	45.23		48.08					
		Current Input	76.3-72.5-69.9		81.1-77.1-74.3					
COP		kW/kW	3.46		3.39					
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C							
	Outdoor	W.B.	-20.0~ 15.5 °C							
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity							
	Model/Quantity		P15~P250/3~50							
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	70.0 / 73.0		70.0 / 73.5					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	87.5 / 92.0		88.0 / 92.5					
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed							
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed							
Set Model										
Model			PUHY-P400YNW-A(-BS)	PUHY-P400YNW-A(-BS)	PUHY-P450YNW-A(-BS)	PUHY-P400YNW-A(-BS)	PUHY-P450YNW-A(-BS)	PUHY-P450YNW-A(-BS)		
FAN *4	Type x Quantity		Propeller Fan x 2							
	Air Flow Rate	m³/min	300		305		300		305	
		L/s	5,000		5,083		5,000		5,083	
		cfm	10,593		10,770		10,593		10,770	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor							
	Motor Output		0.46 x 2							
	External Static Pressure		0 Pa (0 mmH ₂ O)							
Compressor	Type		Inverter Scroll Hermetic Compressor							
	Starting Method		Inverter							
	Motor Output	kW	10.9		12.4		10.9		12.4	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>							
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740							
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)							
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection							
Refrigerant	Type x Original Charge		R410A x 9.8kg		R410A x 10.8kg		R410A x 9.8kg		R410A x 10.8kg	
Net Weight		kg	278		294		278		294	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6							
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed							
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed							
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G							

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P YSNW-A(-BS)



Model			PUHY-P1350YSNW-A (-BS)				
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz				
Cooling Capacity (Nominal)*1		kW	150.0				
		BTU/h	511,800				
		Power Input	kW			45.73	
		Current Input	A			77.1-73.3-70.6	
		EER	kW/kW			3.28	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C				
	Outdoor	D.B.	-5.0~52.0 °C				
Heating Capacity (Max)*2		kW	168.0				
		BTU/h	573,200				
		Power Input	kW			50.60	
		Current Input	A			85.4-81.1-78.2	
		COP	kW/kW			4.05	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C				
	Outdoor	W.B.	-20.0~15.5 °C				
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity				
	Model/Quantity		P15~P250/3~50				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	70.5 / 74.5				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	88.5 / 93.5				
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed				
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed				
Set Model							
Model		PUHY-P450YNW-A (-BS)		PUHY-P450YNW-A (-BS)		PUHY-P450YNW-A (-BS)	
FAN *4	Type x Quantity		Propeller Fan x 2				
	Air Flow Rate	m³/min	305				
		L/s	5,083				
		cfm	10,770				
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor				
	Motor Output	kW	0.46 x 2				
	External Static Pressure		0 Pa (0 mmH ₂ O)				
Compressor	Type		Inverter Scroll Hermetic Compressor				
	Starting Method		Inverter				
	Motor Output	kW	12.4				
External Finish		Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740				
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)				
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection				
Refrigerant	Type x Original Charge		R410A x 10.8kg				
Net Weight		kg	294				
Heat Exchanger		Salt-Resistant Cross Fin and Copper Tube*6					
Pipe Between Unit and Distributor	High Pressure	mm (in.)	15.88 (5/8) Brazed				
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed				
Optional Parts		Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*Subject to JRA9002-1991 standard.

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP200YNW-A (-BS)	PUHY-EP250YNW-A(-BS)	PUHY-EP300YNW-A (-BS)
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz		
Cooling Capacity (Nominal)*1	kW		22.4	28.0	33.5
		BTU/h	76,400	95,500	114,300
	Power Input	kW	5.07	6.73	8.52
	Current Input	A	8.5-8.1-7.8	11.3-10.7-10.4	14.3-13.6-13.1
	EER	kW/kW	4.41	4.16	3.93
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C		
	Outdoor	D.B.	-5.0~52.0°C		
Heating Capacity (Max)*2	kW		25.0	31.5	37.5
		BTU/h	85,300	107,500	128,000
	Power Input	kW	5.35	7.01	8.78
	Current Input	A	9.0-8.5-7.8	11.8-11.2-10.8	14.8-14.0-13.5
	COP	kW/kW	5.35	4.49	4.27
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C		
	Outdoor	W.B.	-20.0~15.5°C		
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity		
	Model/Quantity		P15~P250/1~17	P15~P250/1~21	P15~P250/1~26
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	58.0 / 59.0	60.0 / 61.0	61.0 / 64.5
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	75.0 / 78.0	78.0 / 80.0	80.0 / 83.5
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, Farthest Length >=90m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, Farthest Length >=40m)
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
FAN *4	Type x Quantity		Propeller Fan x 1		
	Air Flow Rate	m³/min	170	185	240
		L/s	2,833	3,083	4,000
		cfm	6,003	6,532	8,474
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor		
	Motor Output	kW	0.92 x 1		
Compressor	External Static Pressure		0 Pa (0 mmH2O)		
	Type		Inverter Scroll Hermetic Compressor		
	Starting Method		Inverter		
	Motor Output	kW	5.6	7.0	7.9
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>		
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)		
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection		
Refrigerant	Type x Original Charge		R10A x 6.5kg		
Net Weight		kg	231	231	235
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6		
Optional Parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A(-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP500YNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz				
Cooling Capacity (Nominal)*1		kW	40.0	45.0	50.0	56.0	
		BTU/h	136,500	153,500	170,600	191,100	
		Power Input	kW	10.38	12.19	13.40	16.00
		Current Input	A	17.5-16.6-16.0	20.5-19.5-18.8	22.6-21.4-20.7	27.0-25.6-24.7
		EER	kW/kW	3.85	3.69	3.73	3.5
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C				
	Outdoor	D.B.	-5.0~52.0°C				
Heating Capacity (Max)*2		kW	45.0	50.0	56.0	63.0	
		BTU/h	153,500	170,600	191,100	215,000	
		Power Input	kW	11.47	13.05	15.01	15.0
		Current Input	A	19.3-18.3-17.7	22.0-20.9-20.1	25.3-24.0-23.2	25.3-24.0-23.1
		COP	kW/kW	3.32	3.83	3.73	4.20
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C				
	Outdoor	W.B.	-20.0~15.5°C				
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity				
	Model/Quantity		P15~P250/1~30	P15~P250/1~34	P15~P250/1~39	P15~P250/1~43	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	62.0 / 63.5	65.0 / 65.5	65.5 / 69.5	63.5 / 66.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	80.5 / 82.5	82.5 / 84.5	83.5 / 88.5	82.0 / 85.5	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed				
FAN *4	Type x Quantity		Propeller Fan x 2				
	Air Flow Rate	m³/min	270		305	365	
		L/s	4,500		5,083	6,083	
		cfm	9,534		10,770	12,888	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor				
	Motor Output	kW	0.46 x 2			0.92 x 2	
	External Static Pressure		0 Pa (0 mmH₂O)				
Compressor	Type		Inverter Scroll Hermetic Compressor				
	Starting Method		Inverter				
	Motor Output	kW	9.8	10.9	12.4	13.3	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>				
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			1,858 (1,798 without legs) x 1,750 x 740	
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)				
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection				
Refrigerant	Type x Original Charge		R10A x 9.8kg	R10A x 10.8kg			
Net Weight		kg	285	305		342	
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6				
Optional Parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G				

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP400YSNW-A (-BS)		PUHY-EP450YSNW-A(-BS)		PUHY-EP500YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
	Power Input	kW	10.53		12.07		13.59	
	Current Input	A	17.7-16.8-16.2		20.3-19.3-18.6		23.4-22.2-21.4	
	EER	kW/kW	4.27		4.14		4.03	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C					
	Outdoor	D.B.	-5.0~52.0°C					
Heating Capacity (Max)*2		kW	50.0		56.0		63.0	
		BTU/h	170,600		191,100		215,000	
	Power Input	kW	11.06		12.64		14.48	
	Current Input	A	18.6-17.7-17.0		21.5-20.2-19.5		24.4-23.2-22.3	
	COP	kW/kW	4.52		4.43		4.35	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C					
	Outdoor	W.B.	-20.0~15.5°C					
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	61.0 / 62.0		62.0 / 63.0		63.0 / 64.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	78.0 / 81.0		80.0 / 82.0		81.0 / 83.0	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed			
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed					
Set Model								
Model			PUHY-EP200YNW-A(-BS)	PUHY-EP200YNW-A(-BS)	PUHY-EP200YNW-A(-BS)	PUHY-EP250YNW-A(-BS)	PUHY-EP250YNW-A(-BS)	PUHY-EP250YNW-A(-BS)
FAN *4	Type x Quantity		Propeller Fan x 1					
	Air Flow Rate	m³/min	170				185	
		L/s	2,833				3,083	
		cfm	6,003				6,532	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.92 x 1					
	External Static Pressure		0 Pa (0 mmH₂O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	5.6			7.0		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R10A x 6.5kg					
Net Weight		kg	231					
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6					
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed					
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP550YSNW-A (-BS)		PUHY-EP600YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	63.0		69.0	
		BTU/h	215,000		235,400	
		Power Input	kW		16.11	
		Current Input	A		27.1-25.8-24.9	
EER		kW/kW	3.91		3.81	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	69.0		76.5	
		BTU/h	235,400		261,000	
		Power Input	kW		16.31	
		Current Input	A		27.5-26.1-25.2	
COP		kW/kW	4.25		4.84	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/2~47		P15~P250/2~50	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	63.5 / 66.0		64.0 / 67.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	82.0 / 85.0		83.0 / 86.5	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed			
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed			
Set Model						
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP300YNW-A (-BS)	PUHY-EP300YNW-A (-BS)	PUHY-EP300YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 1			
	Air Flow Rate	m³/min	185	240		
		L/s	3,083	4,000		
		cfm	6,532	8,474		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.92 x 1			
	External Static Pressure		0 Pa (0 mmH ₂ O)			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	7.0	7.9		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 6.5kg			
Net Weight		kg	231	235		
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6			
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed		
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed		
Optional Parts			Outdoor Twinning Kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP650YSNW-A-(BS)		PUHY-EP700YSNW-A-(BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	73.0		80.0	
		BTU/h	249,100		273,000	
		Power Input	kW		19.46	
		Current Input	A		32.8-31.2-30.0	
EER		kW/kW	3.75		3.73	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	81.5		88.0	
		BTU/h	278,100		300,300	
		Power Input	kW		20.58	
		Current Input	A		34.7-33.0-31.8	
COP		kW/kW	3.96		3.80	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	66.5 / 67.0		65.0 / 66.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	84.0 / 86.0		83.5 / 85.5	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed		19.05 (3/4) Brazed	
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed	
Set Model						
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 1		Propeller Fan x 2	
	Air Flow Rate	m³/min	185		270	
		L/s	3,083		4,500	
		cfm	6,532		9,534	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.92 x 1		0.46 x 2	
	External Static Pressure		0 Pa (0 mmH ₂ O)			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	7.0		10.9	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 1,240 x 740	
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 6.5kg		R10A x 10.8kg	
Net Weight		kg	231		285	
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6			
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed		12.7 (1/2) Brazed	
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Optional Parts			Outdoor Twinning Kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP750YSNW-A (-BS)		PUHY-EP800YSNW-A(-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	85.0		90.0	
		BTU/h	290,000		307,100	
		Power Input	kW		23.28	
		Current Input	A		39.3-37.3-35.9	
EER		kW/kW	3.65		3.66	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	95.0		100.0	
		BTU/h	324,100		341,200	
		Power Input	kW		25.33	
		Current Input	A		42.7-40.6-39.1	
COP		kW/kW	3.75		3.69	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	67.0 / 67.5		67.5 / 70.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	84.5 / 86.5		85.5 / 89.5	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed			
	Gas Pipe	mm (in.)	34.93 (1-3/8) Brazed			
Set Model						
Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP450YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 2			
	Air Flow Rate	m³/min	270		305	
		L/s	4,500		5,083	
		cfm	9,534		10,770	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.46 x 2			
External Static Pressure		0 Pa (0 mmH ₂ O)				
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	9.8	10.9	9.8	12.4
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 9.8kg	R10A x 10.8kg	R10A x 9.8kg	R10A x 10.8kg
Net Weight		kg	285	305	285	305
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6			
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed			
Optional Parts			Outdoor Twinning Kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP850YSNW-A (-BS)		PUHY-EP900YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	96.0		101.	
		BTU/h	327,600		344,600	
	Power Input	kW	26.76		27.97	
	Current Input	A	45.1-42.8-41.3		47.2-44.8-43.2	
	EER	kW/kW	3.59		3.61	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	108.0		113.0	
		BTU/h	368,500		385,600	
	Power Input	kW	29.50		31.30	
	Current Input	A	49.8-47.3-45.6		52.8-50.1-48.3	
	COP	kW/kW	3.55		3.61	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	68.5 / 71.0		68.5 / 72.5	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.0 / 90.0		86.5 / 91.5	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed			
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed			
Set Model						
Model			PUHY-EP400YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 2			
	Air Flow Rate	m³/min	270	305		
		L/s	4,500	5,083		
		cfm	9,534	10,770		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.46 x 2			
	External Static Pressure		0 Pa (0 mmH₂O)			
	Compressor	Type		Inverter Scroll Hermetic Compressor		
Starting Method		Inverter				
Motor Output		kW	10.9	12.4		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 10.8kg			
Net Weight		kg	305			
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6			
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed			
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed			
Optional Parts			Outdoor Twinning Kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP950YSNW-A (-BS)		PUHY-EP1000YSNW-A(-BS)			
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	108.0		113.0			
		BTU/h	368,500		385,600			
	Power Input	kW	28.34		30.21			
	Current Input	A	47.8-45.4-43.8		50.9-48.4-46.6			
	EER	kW/kW	3.81		3.74			
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C					
	Outdoor	D.B.	-5.0~52.0°C					
Heating Capacity (Max)*2		kW	119.5		127.0			
		BTU/h	407,700		433,300			
	Power Input	kW	30.32		32.56			
	Current Input	A	51.1-48.6-46.8		54.9-52.2-50.3			
	COP	kW/kW	3.94		3.90			
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C					
	Outdoor	W.B.	-20.0~15.5°C					
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/2~50					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	66.0 / 67.5		68.0 / 68.5			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	84.5 / 86.5		85.5 / 87.5			
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed					
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP250YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 1	Propeller Fan x 2		Propeller Fan x 1	Propeller Fan x 2	
	Air Flow Rate	m³/min	185	270		185	270	
		L/s	3,083	4,500		3,083	4,500	
		cfm	6,532	9,534		6,532	9,534	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.92 x 1	0.46 x 2		0.92 x 1	0.46 x 2	
	External Static Pressure		0 Pa (0 mmH₂O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	7.0	9.8		7.0	9.8	10.9
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R10A x 6.5kg	R10A x 9.8kg		R10A x 6.5kg	R10A x 9.8kg	R10A x 10.8kg
Net Weight		kg	231	285		231	285	305
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6					
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed		9.52 (3/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP1050YSNW-A (-BS)		PUHY-EP1100YSNW-A(-BS)			
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	118.0		124.0			
		BTU/h	402,600		423,100			
	Power Input	kW	32.06		33.78			
	Current Input	A	54.1-51.4-49.5		57.0-54.1-52.2			
	EER	kW/kW	3.68		3.67			
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C					
	Outdoor	D.B.	-5.0~52.0°C					
Heating Capacity (Max)*2		kW	132.0		140.0			
		BTU/h	450,400		477,700			
	Power Input	kW	34.19		37.13			
	Current Input	A	57.7-54.8-52.8		62.6-59.5-57.3			
	COP	kW/kW	3.86		3.77			
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C					
	Outdoor	W.B.	-20.0~15.5°C					
Indoor Unit Connectable	Total Capacity	50~130% of Outdoor Unit Capacity						
	Model/Quantity	P15~P250/3~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	68.5 / 69.0		68.5 / 69.0			
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.0 / 88.0		86.0 / 89.0			
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed					
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
Model			PUHYEP250YNWA(-BS)	PUHYEP400YNWA(-BS)	PUHYEP400YNWA(-BS)	PUHYEP360YNWA(-BS)	PUHYEP360YNWA(-BS)	PUHYEP400YNWA(-BS)
FAN *4	Type x Quantity		Propeller Fan x 1		Propeller Fan x 2			
	Air Flow Rate	m³/min	185		270			
		L/s	3,083		4,500			
		cfm	6,532		9,534			
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.92 x 1		0.46 x 2			
	External Static Pressure		0 Pa (0 mmH₂O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	7.0	10.9		9.8	10.9	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740				
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R10A x 6.5kg	R10A x 10.8kg		R10A x 9.8kg	R10A x 10.8kg	
Net Weight		kg	231	305		285	305	
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6					
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	9.52 (3/8) Brazed	15.88 (5/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed
	Gas Pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed				
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP1150YSNW-A (-BS)		PUHY-EP1200YSNW-A(-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz				
Cooling Capacity (Nominal)*1		kW	130.0		136.0		
		BTU/h	443,600		464,000		
		Power Input	kW	35.91		38.09	
		Current Input	A	60.6-57.5-55.6		64.3-61.0-58.8	
EER		kW/kW	3.62		3.57		
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C				
	Outdoor	D.B.	-5.0~52.0°C				
Heating Capacity (Max)*2		kW	145.0		150.0		
		BTU/h	494,700		511,800		
		Power Input	kW	38.77		40.43	
		Current Input	A	65.4-62.1-59.9		68.2-64.8-62.4	
COP		kW/kW	3.74		3.71		
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C				
	Outdoor	W.B.	-20.0~15.5°C				
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity				
	Model/Quantity		P15~P250/3~50				
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	69.0 / 69.5		70.0 / 70.5		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.5 / 88.5		87.5 / 89.5		
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed				
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed				
Set Model							
Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	
FAN *4	Type x Quantity		Propeller Fan x 2				
	Air Flow Rate	m³/min	270				
		L/s	4,500				
		cfm	9,534				
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor				
	Motor Output	kW	0.46 x 2				
	External Static Pressure		0 Pa (0 mmH₂O)				
Compressor	Type		Inverter Scroll Hermetic Compressor				
	Starting Method		Inverter				
	Motor Output	kW	9.8	10.9			
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>				
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740				
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)				
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection				
Refrigerant	Type x Original Charge		R10A x 9.8kg	R10A x 10.8kg			
Net Weight		kg	285	305			
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6				
Pipe Between Unit and Distributor	Liquid Pipe	mm (n.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed			
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed				
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G				

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP1250YSNW-A (-BS)		PUHY-EP1300YSNW-A(-BS)					
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz							
Cooling Capacity (Nominal)*1		kW	140.0		146.0					
		BTU/h	477,700		498,200					
	Power Input	kW	38.99		40.55					
	Current Input	A	65.8-62.5-60.2		68.4-65.0-62.6					
	EER	kW/kW	3.59		3.60					
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C							
	Outdoor	D.B.	-5.0~52.0°C							
Heating Capacity (Max)*2		kW	156.5		163.0					
		BTU/h	534,000		556,200					
	Power Input	kW	42.52		44.78					
	Current Input	A	71.7-68.1-65.7		75.5-71.8-69.2					
	COP	kW/kW	3.68		3.64					
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C							
	Outdoor	W.B.	-20.0~15.5°C							
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity							
	Model/Quantity		P15~P250/3~50							
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	70.0 / 72.0		70.0 / 73.5					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	87.5 / 91.0		88.0 / 92.5					
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed							
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed							
Set Model										
Model			PUHYEP400YNWA(-BS)	PUHYEP400YNWA(-BS)	PUHYEP450YNWA(-BS)	PUHYEP400YNWA(-BS)	PUHYEP450YNWA(-BS)	PUHYEP450YNWA(-BS)		
FAN *4	Type x Quantity		Propeller Fan x 2							
	Air Flow Rate	m³/min	270		305		270		305	
		L/s	4,500		5,083		4,500		5,083	
		cfm	9,534		10,770		9,534		10,770	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor							
	Motor Output	kW	0.46 x 2							
	External Static Pressure		0 Pa (0 mmH₂O)							
Compressor	Type		Inverter Scroll Hermetic Compressor							
	Starting Method		Inverter							
	Motor Output	kW	10.9		12.4		10.9		12.4	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>							
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740							
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)							
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection							
Refrigerant	Type x Original Charge		R10A x 10.8kg							
Net Weight		kg	305							
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6							
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed							
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed							
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G							

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - Y Series Heat Pump

PUHY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PUHY-EP1350YSNW-A(-BS)					
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	150.0					
		BTU/h	511,800					
	Power Input	kW	41.55					
	Current Input	A	70.1-66.6-64.2					
	EER	kW/kW	3.61					
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C					
	Outdoor	D.B.	-5.0~52.0°C					
Heating Capacity (Max)*2		kW	168.0					
		BTU/h	573,200					
	Power Input	kW	46.53					
	Current Input	A	78.5-74.6-71.9					
	COP	kW/kW	3.61					
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C					
	Outdoor	W.B.	-20.0~15.5°C					
Indoor Unit Connectable	Total Capacity		50~130% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/3~50					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	70.0 / 74.5					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	88.5 / 93.5					
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed					
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
Model			PUHY-EP450YNW-A (-BS)		PUHY-EP450YNW-A (-BS)		PUHY-EP450YNW-A (-BS)	
FAN *4	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min	305					
		L/s	5,083					
		cfm	10,770					
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.46 x 2					
	External Static Pressure		0 Pa (0 mmH ₂ O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	12.4					
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R10A x 10.8kg					
Net Weight		kg	305					
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6					
Pipe Between Unit and Distributor	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed					
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

*6 Subject to JRA9002-1991 standard

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P YNW-A(-BS)



Model			PURY-P200YNW-A (-BS)	PURY-P250YNW-A(-BS)	PURY-P300YNW-A (-BS)	PURY-P350YNW-A (-BS)
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	22.4	28.0	33.5	40.0
		BTU/h	76,400	95,500	114,300	136,500
	Power Input	kW	5.62	7.46	9.15	0.86
	Current Input	A	9.4-9.0-8.6	12.5-11.9-11.5	15.4-14.6-14.1	18.3-17.4-16.7
	EER	kW/kW	3.98	3.75	3.66	3.68
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	25.0	31.5	37.5	45.0
		BTU/h	85,300	107,500	128,000	153,500
	Power Input	kW	5.98	7.68	9.97	11.50
	Current Input	A	10.0-9.5-9.2	12.9-11.9-11.5	16.8-15.9-15.4	19.4-18.4-17.7
	COP	kW/kW	4.18	4.10	3.76	3.91
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	P15~P250/1~35
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	59.0/59.0	60.5/61.0	61.0/67.0	62.5/64.0
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	76.0/78.0	78.5/80.0	80.0/86.5	81.0/83.0
Refrigerant Piping Diameter	High Pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
	Low Pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
FAN *4	Type x Quantity		Propeller Fan x 1			Propeller Fan x 2
	Air Flow Rate	m³/min	170	185	240	250
		L/s	2,833	3,083	4,000	4,167
		cfm	6,003	6,532	8,474	8,828
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.92 x 1			0.46 x 2
	External Static Pressure		0 Pa (0 mmH ₂ O)			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	5.6	7.0	7.9	10.2
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 5.2kg			R10A x 8.0kg
Net Weight		kg	229			273
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6			
Optional Parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC Controller: CMB-P104, 106, 108, 1012, 1016V-J Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P YNW-A(-BS)



Model			PURY-P400YNW-A (-BS)	PURY-P450YNW-A(-BS)	PURY-P500YNW-A (-BS)
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz		
Cooling Capacity (Nominal)*1		kW	45.0	50.0	56.0
		BTU/h	153,500	170,600	191,100
	Power Input	kW	12.93	14.92	16.23
	Current Input	A	21.4-20.7-19.9	25.1-23.9-23.0	27.3-26.0-25.0
	EER	kW/kW	3.88	3.35	3.45
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C		
	Outdoor	D.B.	-5.0~52.0 °C		
Heating Capacity (Max)*2		kW	50.0	56.0	63.0
		BTU/h	170,600	191,100	215,000
	Power Input	kW	13.92	16.47	16.23
	Current Input	A	23.4-22.3-21.5	27.8-26.4-25.4	27.3-26.0-25.0
	COP	kW/kW	3.59	3.40	3.88
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C		
	Outdoor	W.B.	-20.0~15.5 °C		
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity		
	Model/Quantity		P15~P250/1~40	P15~P250/1~45	P15~P250/1~50
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	65.0 / 69.0	65.5 / 70.0	63.5 / 64.5
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	83.0 / 88.0	83.0 / 89.0	82.0 / 84.0
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed		
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed		
FAN *4	Type x Quantity		Propeller Fan x 2		
	Air Flow Rate	m³/min	315		295
		L/s	5,250		4,917
		cfm	11,123		10,416
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor		
	Motor Output	kW	0.46 x 2		0.92 x 2
	External Static Pressure		0 Pa (0 mmH ₂ O)		
Compressor	Type		Inverter Scroll Hermetic Compressor		
	Starting Method		Inverter		
	Motor Output	kW	10.9	12.4	13.0
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>		
External Dimensions HxWxD		mm	1,858 x 1,240 x 740		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)		
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection		
Refrigerant	Type x Original Charge		R410A x 8.0kg	R410A x 10.8kg	
Net Weight		kg	273	293	337
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6		
Optional Parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB		

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P YSNW-A(-BS)



Model			PURY-P400YSNW-A (-BS)		PURY-P450YSNW-A(-BS)		PURY-P500YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0		
		BTU/h	153,500		170,600		191,100		
		Power Input	kW	11.65		13.33		15.38	
		Current Input	A	19.6-18.6-18.0		22.5-21.3-20.6		25.9-24.6-23.7	
		EER	kW/kW	3.86		3.75		3.64	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	50.0		56.0		63.0		
		BTU/h	170,600		191,100		215,000		
		Power Input	kW	12.34		13.93		15.82	
		Current Input	A	20.8-19.7-19.0		25.5-22.3-21.5		26.7-25.3-24.4	
		COP	kW/kW	4.05		4.2		3.98	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	62.0 / 62.0		63.0 / 63.5		63.5 / 64.0		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	79.0 / 81.0		80.5 / 82.5		81.5 / 83.0		
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed						
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PURY-P200YNW-A(-BS)	PURY-P200YNW-A(-BS)	PURY-P200YNW-A(-BS)	PURY-P250YNW-A(-BS)	PURY-P250YNW-A(-BS)	PURY-P250YNW-A(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1						
	Air Flow Rate	m³/min	170				185		
		L/s	2,833				3,083		
		cfm	6,003				6,532		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.92 x 1						
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	5.6			7.0			
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740						
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 5.2kg						
Net Weight		kg	229						
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	High Pressure	mm (in.)	15.88 (5/8) Brazed						
	Low Pressure	mm (in.)	19.05 (3/4) Brazed						
Optional Parts			Outdoor Twinning Kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P YSNW-A(-BS)



Model			PURY-P550YSNW-A (-BS)		PURY-P600YSNW-A(-BS)		PURY-P650YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
	Power Input	kW	17.54		19.43		20.50		
	Current Input	A	29.6-28.1-27.1		32.8-31.1-30.0		34.6-32.8-31.5		
	EER	kW/kW	3.59		3.55		3.56		
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	69.0		76.5		81.5		
		BTU/h	235,400		261,000		278,100		
	Power Input	kW	18.11		20.95		21.90		
	Current Input	A	30.5-29.0-27.9		35.3-33.5-32.3		36.9-35.1-33.8		
	COP	kW/kW	3.81		3.65		3.72		
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	64.0 / 68.0		64.0 / 70.0		65.0 / 69.0		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	82.5 / 87.5		83.0 / 89.5		83.5 / 88.5		
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)				28.58 (1-1/8) Brazed		
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PURY-P250YNW-A(-BS)	PURY-P300YNW-A(-BS)	PURY-P300YNW-A(-BS)	PURY-P300YNW-A(-BS)	PURY-P300YNW-A(-BS)	PURY-P350YNW-A(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1						Propeller Fan x 2
	Air Flow Rate	m³/min	185	240	240	240	240	250	
		L/s	3,083	4,000	4,000	4,000	4,000	4,167	
		cfm	6,532	8,474	8,474	8,474	8,474	8,828	
	Control, Driving Mechanism		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	0.46 x 2	
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.0	7.9				10.2	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740						1,858 (1,798 without legs) x 1,240 x 740
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP./FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 5.2kg						R410A x 8.0 kg
Net Weight		kg	229	231				273 (602)	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	High Pressure	mm (in.)	19.05 (3/4) Brazed						
	Low Pressure	mm (in.)	22.2 (7/8) Brazed						28.58 (1-1/8) Brazed
Optional Parts			Outdoor Twinning Kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Main BC Controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P YSNW-A(-BS)



Model			PURY-P700YSNW-A (-BS)		PURY-P750YSNW-A(-BS)		PURY-P800YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	80.0		85.0		90.0	
		BTU/h	273,000		290,000		307,100	
	Power Input	kW	22.47		24.56		26.62	
	Current Input	A	37.9-36.0-34.7		41.4-39.5-37.9		44.9-42.6-41.1	
	EER	kW/kW	3.56		3.46		3.38	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C					
	Outdoor	D.B.	-5.0~52.0 °C					
Heating Capacity (Max)*2		kW	88.0		95.0		100.0	
		BTU/h	300,300		324,100		341,200	
	Power Input	kW	23.21		26.09		28.73	
	Current Input	A	39.1-37.2-35.8		44.0-41.8-40.3		48.5-46.0-44.4	
	COP	kW/kW	3.79		3.64		3.48	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C					
	Outdoor	W.B.	-20.0~15.5 °C					
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/2~50					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	65.5 / 67.0		67.0 / 70.5		68.0 / 72.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	84.0 / 86.0		85.5 / 89.5		86.0 / 91.0	
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed					
	Low Pressure	mm (in.)	34.93 (1-3/8) Brazed					
Set Model								
Model			PURY-P350YNWA(-BS)	PURY-P350YNWA(-BS)	PURY-P350YNWA(-BS)	PURY-P400YNWA(-BS)	PURY-P400YNWA(-BS)	PURY-P400YNWA(-BS)
FAN *4	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min	250			315		
		L/s	4,167			5,250		
		cfm	8,828			11,123		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.46 x 2					
External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	10.2			10.9		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP./FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R410A x 8.0kg					
Net Weight		kg	273					
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6					
Pipe Between Unit and Distributor	High Pressure	mm (in.)	19.05 (3/4) Brazed			22.2 (7/8) Brazed		
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery



PURY-P YSNW-A(-BS)

Model			PURY-P850YSNW-A (-BS)		PURY-P900YSNW-A(-BS)		PURY-P950YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	96.0		101.0		108.0		
		BTU/h	327,600		344,600		368,500		
		Power Input	kW	29.80		31.07		33.23	
		Current Input	A	48.9-46.5-44.8		52.4-49.8-48.0		56.0-53.2-51.3	
		EER	kW/kW	3.31		3.25		3.25	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	108.0		113.0		119.5		
		BTU/h	368,500		385,600		407,700		
		Power Input	kW	31.85		34.24		33.85	
		Current Input	A	53.7-51.0-49.2		57.8-54.9-52.9		57.1-54.2-52.3	
		COP	kW/kW	3.39		3.30		3.53	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	68.5 / 72.5		68.5 / 73.0		68.0 / 71.5		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.0 / 91.5		86.0 / 92.0		85.5 / 90.5		
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed						
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed						
Set Model									
Model			PURY-P400YNWA(-BS)	PURY-P450YNWA(-BS)	PURY-P450YNWA(-BS)	PURY-P450YNWA(-BS)	PURY-P450YNWA(-BS)	PURY-P500YNWA(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 2						
	Air Flow Rate	m³/min	315					295	
		L/s	5,250					4,917	
		cfm	11,123					10,416	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.46 x 2					0.92 x 2	
	External Static Pressure		0 Pa (0 mmH₂O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	10.9	12.4				13.0	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740						
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 8.0kg						
Net Weight		kg	273	293				337	
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6						
Pipe Between Unit and Distributor	High Pressure	mm (in.)	22.2 (7/8) Brazed						
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Optional Parts			Outdoor Twinning Kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P YSNW-A(-BS)



Model			PURY-P1000YSNW-A (-BS)		PURY-P1050YSNW-A(-BS)		PURY-P1100YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	113.0		118.0		124.0	
		BTU/h	385,600		402,600		423,100	
	Power Input	kW	33.73		29.20		32.54	
	Current Input	A	56.9-54.0-52.1		49.2-46.8-45.1		54.9-52.1-50.2	
	EER	kW/kW	3.35		4.04		3.81	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C					
	Outdoor	D.B.	-5.0~52.0 °C					
Heating Capacity (Max)*2		kW	127.0		132.0		140.0	
		BTU/h	433,300		450,400		177,700	
	Power Input	kW	33.77		34.10		37.52	
	Current Input	A	57.0-54.1-52.2		57.5-54.6-52.7		63.3-60.1-57.9	
	COP	kW/kW	3.76		3.87		3.73	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C					
	Outdoor	W.B.	-20.0~15.5 °C					
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/2~50		P15~P250/3~50		P15~P250/3~50	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	66.5 / 67.5		68.0 / 73.0		69.0 / 73.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	85.0 / 87.0		86.0 / 92.0		86.5 / 92.0	
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed	
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
Model			PURY-P500YNW-A (-BS)	PURY-P500YNW-A (-BS)	PURY-P500YNW-A (-BS)	PURY-P550YNW-A (-BS)	PURY-P550YNW-A (-BS)	PURY-P550YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min	295			410		
		L/s	4,917			6,833		
		cfm	10,416			14,477		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output		0.92 x 2					
External Static Pressure		0 Pa (0 mmH₂O)						
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output		13.0			14.3		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,750 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R410A x 10.8kg					
Net Weight		kg	337					
Heat Exchanger			Salt-Resistant Cross Fin and Copper Tube*6					
Pipe Between Unit and Distributor	High Pressure	mm (in.)	22.2 (7/8) Brazed					
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP200YNW-A (-BS)	PURY-EP250YNW-A(-BS)	PURY-EP300YNW-A (-BS)	PURY-EP350YNW-A (-BS)
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	22.4	28.0	33.5	40.0
		BTU/h	76,400	95,500	114,300	136,500
	Power Input	kW	5.38	7.0	8.98	10.49
	Current Input	A	9.0-8.6-8.3	11.8-11.2-10.8	15.1-14.4-13.8	17.7-16.8-16.2
	EER	kW/kW	4.16	4.0	3.73	3.81
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Outdoor	D.B.	-5.0~52.0°C			
Heating Capacity (Max)*2		kW	25.0	31.5	37.5	45.0
		BTU/h	85,300	107,500	128,000	153,500
	Power Input	kW	5.88	7.59	9.94	11.59
	Current Input	A	9.9-9.4-9.0	12.8-12.1-11.7	16.7-15.9-15.3	19.5-18.7-17.9
	COP	kW/kW	4.25	5.26	3.77	3.88
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Outdoor	W.B.	-20.0~15.5°C			
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity			
	Model/Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	P15~P250/1~35
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	59.0 / 59.0	60.5 / 61.0	61.0 / 67.0	62.5 / 64.0
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	76.0 / 78.0	78.5 / 80.0	80.0 / 86.5	81.0 / 83.0
Refrigerant Piping Diameter	High Pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
	Low Pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed
FAN *4	Type x Quantity		Propeller Fan x 1			Propeller Fan x 2
	Air Flow Rate	m³/min	170	185	240	250
		L/s	2,833	3,083	4,000	4,167
		cfm	6,003	6,532	8,474	8,828
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor			
	Motor Output	kW	0.92 x 1			0.46 x 2
	External Static Pressure		0 Pa (0 mmH₂O)			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	5.6	7.0	7.9	10.2
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>			
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection			
Refrigerant	Type x Original Charge		R10A x 5.2kg			R10A x 8.0kg
Net Weight		kg	234	236		279
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6			
Optional Parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC Controller: CMB-P104, 106, 108, 1012, 1016V-J Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB			

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP400YNW-A (-BS)	PURY-EP450YNW-A(-BS)	PURY-EP500YNW-A (-BS)
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz		
Cooling Capacity (Nominal)*1		kW	45.0	50.0	56.0
		BTU/h	153,500	170,600	191,100
	Power Input	kW	12.52	13.55	16.09
	Current Input	A	21.6-20.5-19.8	22.8-21.7-20.9	27.1-25.8-24.8
	EER	kW/kW	3.51	3.69	3.48
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C		
	Outdoor	D.B.	-5.0~52.0 °C		
Heating Capacity (Max)*2		kW	50.0	56.0	63.0
		BTU/h	170,600	191,100	215,000
	Power Input	kW	13.26	15.86	15.14
	Current Input	A	22.3-21.2-20.4	26.7-25.4-24.5	25.5-24.2-23.4
	COP	kW/kW	3.77	3.53	4.16
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C		
	Outdoor	W.B.	-20.0~15.5 °C		
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity		
	Model/Quantity		P15~P250/1~40	P15~P250/1~45	P15~P250/1~50
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	65.0 / 69.0	65.5 / 70.0	63.5 / 64.5
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	83.0 / 88.0	83.0 / 89.0	82.0 / 84.0
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed		
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed		
FAN*4	Type x Quantity		Propeller Fan x 2		
	Air Flow Rate	m³/min	315		295
		L/s	5,250		4,917
		cfm	11,123		10,416
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor		
	Motor Output	kW	0.46 x 2		0.92 x 2
	External Static Pressure		0 Pa (0 mmH ₂ O)		
Compressor	Type		Inverter Scroll Hermetic Compressor		
	Starting Method		Inverter		
	Motor Output	kW	10.9	12.4	13.0
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>		
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,750 x 740
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)		
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection		
Refrigerant Type x Original Charge			R410A x 8.0kg	R410A x 10.8kg	
Net Weight		kg	282	306	345
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6		
Optional Parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB		

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP400YSNW-A (-BS)		PURY-EP450YSNW-A(-BS)		PURY-EP500YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0		
		BTU/h	153,500		170,600		191,100		
		Power Input	kW	11.13		12.62		14.43	
		Current Input	A	18.7-17.8-17.2		21.3-20.2-19.5		24.8-23.1-22.3	
		EER	kW/kW	4.04		3.96		3.88	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	50.0		56.0		63.0		
		BTU/h	170,600		191,100		215,000		
		Power Input	kW	12.13		13.75		15.63	
		Current Input	A	20.4-19.4-18.7		23.2-22.0-21.2		26.3-25.0-24.1	
		COP	kW/kW	4.12		4.07		4.03	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	62.0 / 62.0		63.0 / 63.5		63.5 / 64.0		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	79.0 / 81.0		80.5 / 82.5		81.5 / 83.0		
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed						
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PURY-EP200YNWA(-BS)	PURY-EP200YNWA(-BS)	PURY-EP200YNWA(-BS)	PURY-EP250YNWA(-BS)	PURY-EP250YNWA(-BS)	PURY-EP250YNWA(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1						
	Air Flow Rate	m³/min	170			185			
		L/s	2,833			3,083			
		cfm	6,003			6,532			
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.92 x 1						
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	5.6			7.0			
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740						
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 5.2kg						
Net Weight		kg	234						
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6						
Pipe Between Unit and Distributor	High Pressure	mm (in.)	15.88 (5/8) Brazed			19.05 (3/4) Brazed			
	Low Pressure	mm (in.)	19.05 (3/4) Brazed			22.2 (7/8) Brazed			
Optional Parts			Outdoor Twinning Kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP550YSNW-A (-BS)		PURY-EP600YSNW-A(-BS)		PURY-EP650YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
	Power Input	kW	16.80		19.06		19.94		
	Current Input	A	28.3-26.9-25.9		32.1-30.5-29.4		33.6-31.9-30.8		
	EER	kW/kW	3.75		3.62		3.66		
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	69.0		76.5		81.5		
		BTU/h	235,400		261,00		278,100		
	Power Input	kW	17.96		20.90		21.96		
	Current Input	A	30.3-28.8-27.7		35.2-33.5-32.3		37.0-35.2-33.9		
	COP	kW/kW	3.84		3.66		3.71		
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	64.0 / 68.0		64.0 / 89.5		83.5 / 88.5		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	82.5 /87.5		83.0 / 89.5		83.5 / 88.5		
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed (for the part that exceeds 65m)			28.58 (1-1/8) Brazed			
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PURY/EP250YNW-A(-BS)	PURY/EP300YNW-A(-BS)	PURY/EP300YNW-A(-BS)	PURY/EP300YNW-A(-BS)	PURY/EP300YNW-A(-BS)	PURY/EP350YNW-A(-BS)	
FAN *4	Type x Quantity		Propeller Fan x 1					Propeller Fan x 2	
	Air Flow Rate	m³/min	185		240		250		
		L/s	3,083		4,000		4,167		
		cfm	6,532		8,474		8,828		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.92 x 1					0.46 x 2	
	External Static Pressure		0 Pa (0 mmH₂O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.0		7.9		10.2		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 920 x 740					1,858 (1,798 without legs) x 1,240 x 740	
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 5.2kg					R410A x 8.0kg	
Net Weight		kg	234		236		279		
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6						
Pipe Between Unit and Distributor	High Pressure	mm (in.)	19.05 (3/4) Brazed						
	Low Pressure	mm (in.)	22.2 (7/8) Brazed					28.58 (1-1/8) Brazed	
Optional Parts			Outdoor Twinning Kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP700YSNW-A (-BS)		PURY-EP750YSNW-A(-BS)		PURY-EP800YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	80.0		85.0		90.0	
		BTU/h	273,000		290,000		307,100	
	Power Input	kW	21.62		23.94		26.47	
	Current Input	A	36.4-34.6-33.4		40.4-38.3-37.0		44.6-42.4-40.9	
	EER	kW/kW	3.70		3.55		3.40	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C					
	Outdoor	D.B.	-5.0~52.0 °C					
Heating Capacity (Max)*2		kW	88.0		95.0		100.0	
		BTU/h	300,300		324,100		341,200	
	Power Input	kW	23.4		25.60		27.32	
	Current Input	A	39.5-37.5-36.1		43.2-41.0-39.5		46.1-43.4-42.2	
	COP	kW/kW	3.76		3.71		3.66	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C					
	Outdoor	W.B.	-20.0~15.5 °C					
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/2~50					
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	65.5 / 67.0		67.0 / 70.5		68.0 / 72.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	84.0 / 86.0		85.5 / 89.5		86.0 / 91.0	
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed					
	Low Pressure	mm (in.)	34.93 (1-3/8) Brazed					
Set Model								
Model			PURY-EP350YNW-A (-BS)	PURY-EP350YNW-A (-BS)	PURY-EP350YNW-A (-BS)	PURY-EP400YNW-A (-BS)	PURY-EP400YNW-A (-BS)	PURY-EP400YNW-A (-BS)
FAN *4	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min	250			315		
		L/s	4,167			5,250		
		cfm	8,828			11,123		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.46 x 2					
	External Static Pressure		0 Pa (0 mmH ₂ O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	10.2			10.9		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R410A x 8.0kg					
Net Weight		kg	279			282		
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6					
Pipe Between Unit and Distributor	High Pressure	mm (in.)	19.05 (3/4) Brazed			22.2 (7/8) Brazed		
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP850YSNW-A (-BS)		PURY-EP900YSNW-A(-BS)		PURY-EP950YSNW-A (-BS)		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	96.0		10.1.0		108.0		
		BTU/h	327,600		344,600		368,500		
		Power Input	kW	27.50		28.21		30.16	
		Current Input	A	46.4-44.1-42.5		47.6-45.2-43.6		50.9-48.3-46.6	
EER		kW/kW	3.49		3.58		3.58		
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C						
	Outdoor	D.B.	-5.0~52.0 °C						
Heating Capacity (Max)*2		kW	108.0		113.0		119.5		
		BTU/h	368,500		385,600		407,700		
		Power Input	kW	30.50		33.04		32.03	
		Current Input	A	51.4-48.9-47.5		55.7-52.9-51.0		54.0-51.3-49.5	
COP		kW/kW	3.54		3.42		3.75		
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C						
	Outdoor	W.B.	-20.0~15.5 °C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	68.5 / 72.5		68.5 / 73.0		68.0 / 71.5		
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	86.0 / 91.5		86.0 / 92.0		85.5 / 90.5		
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed						
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed						
Set Model									
Model			PURYEP400YNWA(BS)	PURYEP450YNWA(BS)	PURYEP450YNWA(BS)	PURYEP450YNWA(BS)	PURYEP450YNWA(BS)	PURYEP500YNWA(BS)	
FAN *4	Type x Quantity		Propeller Fan x 2						
	Air Flow Rate	m³/min	315					295	
		L/s	5,250					4,917	
		cfm	11,123					10,416	
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor						
	Motor Output	kW	0.46 x 2					0.92 x 2	
	External Static Pressure		0 Pa (0 mmH ₂ O)						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	10.9	12.4				13.0	
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>						
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740					1,858 (1,798 without legs) x 1,750 x 740	
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection						
Refrigerant	Type x Original Charge		R410A x 8.0kg	R410A x 10.8kg					
Net Weight		kg	282	306				345	
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6						
Pipe Between Unit and Distributor	High Pressure	mm (in.)	22.2 (7/8) Brazed						
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Optional Parts			Outdoor Twinning Kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB						

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

SPECIFICATIONS

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-EP YSNW-A(-BS) / HIGH EFFICIENCY



Model			PURY-EP1000YSNW-A (-BS)		PURY-EP1050YSNW-A(-BS)		PURY-EP1100YSNW-A (-BS)	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	113.0		118.0		124.0	
		BTU/h	385,600		402,600		423,100	
	Power Input	kW	33.43		29.13		32.46	
	Current Input	A	56.4-53.6-51.6		49.1-46.7-45.0		54.7-52.0-50.1	
	EER	kW/kW	3.38		4.05		3.82	
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0 °C					
	Outdoor	D.B.	-5.0~52.0 °C					
Heating Capacity (Max)*2		kW	127.0		132.0		140.0	
		BTU/h	433,300		450,400		177,700	
	Power Input	kW	31.43		32.58		36.83	
	Current Input	A	53.0-50.4-48.5		55.0-52.2-50.3		62.1-59.0-56.9	
	COP	kW/kW	4.04		4.05		3.08	
Temp. Range of Heating	Indoor	D.B.	15.0~27.0 °C					
	Outdoor	W.B.	-20.0~15.5 °C					
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity					
	Model/Quantity		P15~P250/2~50		P15~P250/3~50		P15~P250/3~50	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	66.5 / 67.5		68.0 / 73.0		69.0 / 73.0	
Sound Pressure Level (Measured in Anechoic Room)*3		dB <A>	85.0 / 87.0		86.0 / 92.0		86.5 / 92.0	
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed			
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
Model			PURY-EP500YNW-A(-BS)	PURY-EP500YNW-A(-BS)	PURY-EP500YNW-A(-BS)	PURY-EP550YNW-A(-BS)	PURY-EP550YNW-A(-BS)	PURY-EP550YNW-A(-BS)
FAN *4	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min	295			410		
		L/s	4,917			6,833		
		cfm	10,416			14,477		
	Control, Driving Mechanism		Inverter-Control, Direct-Driven by Motor					
	Motor Output	kW	0.92 x 2					
	External Static Pressure		0 Pa (0 mmH₂O)					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	13.0			14.3		
External Finish			Pre-Coated Galvanised Steel Sheets (+ Powder Coating for -BS Type) <MUNSELL 5Y 8/1 or Similar>					
External Dimensions HxWxD		mm	1,858 (1,798 without legs) x 1,750 x 740					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)					
	Inverter Circuit (COMP/FAN)		Over-Heat Protection, Over-Current Protection					
Refrigerant	Type x Original Charge		R410A x 10.8kg					
Net Weight		kg	345					
Heat Exchanger			Salt-Resistant Cross Fin and Aluminium Tube*6					
Pipe Between Unit and Distributor	High Pressure	mm (in.)	22.2 (7/8) Brazed					
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
Optional Parts			Outdoor Twinning Kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC Controller: CMB-P1016V-KA Sub-BC Controller: CMB-P104V-KB					

Notes:

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

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*3 Cooling mode/heating mode.

*4 External Static Pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH₂O, 6.1mmH₂O, 8.2mmH₂O).

Consult your dealer about the specification when setting External Static Pressure option.

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

CONTAINS FLUORINATED GREENHOUSE GASES

OUTDOOR UNIT - Y Series Heat Pump

PUHY-P•Y(S)NW-A(-BS)

Model	Refrigerant		Factory Charged		Maximum Additional Charge		Total Charge	
	Type	GWP	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*
PUHY-P200YNW-A (-BS)	R410A	2088	6.5	13.57	15.9	33.20	22.4	46.77
PUHY-P250YNW-A (-BS)			6.5	13.57	22.9	47.82	29.4	61.39
PUHY-P300YNW-A (-BS)			6.5	13.57	23.4	48.86	29.9	61.43
PUHY-P350YNW-A (-BS)			9.8	20.46	24.4	50.95	34.2	71.41
PUHY-P400YNW-A (-BS)			9.8	20.46	24.9	51.99	34.7	72.45
PUHY-P450YNW-A (-BS)			10.8	22.55	33.1	69.11	43.9	91.66
PUHY-P500YNW-A (-BS)			10.8	22.55	34.0	70.99	44.8	93.54
PUHY-P400YSNW-A (-BS)			13.0	27.14	32.0	66.82	45.0	93.96
PUHY-P450YSNW-A (-BS)			13.0	27.14	32.0	66.83	45.0	93.96
PUHY-P500YSNW-A (-BS)			13.0	27.14	32.9	68.70	45.9	95.84
PUHY-P550YSNW-A (-BS)			13.0	27.14	34.7	72.45	47.7	99.60
PUHY-P600YSNW-A (-BS)			13.0	27.14	34.7	72.45	47.7	99.60
PUHY-P650YSNW-A (-BS)			16.3	34.03	35.7	74.54	52.0	108.58
PUHY-P700YSNW-A (-BS)			19.6	40.92	45.7	95.42	65.3	136.35
PUHY-P750YSNW-A (-BS)			19.6	40.92	45.7	95.42	65.3	136.35
PUHY-P800YSNW-A (-BS)			20.6	43.01	46.0	96.05	66.6	139.06
PUHY-P850YSNW-A (-BS)			20.6	43.01	47.8	99.81	68.4	145.82
PUHY-P900YSNW-A (-BS)			21.6	45.10	48.2	100.64	69.8	145.74
PUHY-P950YSNW-A (-BS)			23.8	49.69	47.1	98.34	70.9	148.04
PUHY-P1000YSNW-A (-BS)			26.1	54.50	46.8	97.72	72.9	152.22
PUHY-P1050YSNW-A (-BS)			26.1	54.50	46.8	97.72	72.9	152.22
PUHY-P1100YSNW-A (-BS)			29.4	61.39	47.0	98.14	76.4	159.52
PUHY-P1150YSNW-A (-BS)			29.4	61.39	47.0	98.14	76.4	159.52
PUHY-P1200YSNW-A (-BS)			29.4	61.39	47.0	98.14	76.4	159.52
PUHY-P1250YSNW-A (-BS)			30.4	63.48	49.1	102.52	79.5	166.00
PUHY-P1300YSNW-A (-BS)			31.4	65.56	49.5	103.36	80.9	168.92
PUHY-P1350YSNW-A (-BS)			32.4	67.65	49.8	103.98	82.2	171.63

PUHY-EP•Y(S)NW-A(-BS)

Model	Refrigerant		Factory Charged		Maximum Additional Charge		Total Charge	
	Type	GWP	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*
PUHY-EP200YNW-A (-BS)	R410A	2088	6.5	13.57	15.9	33.20	22.4	46.77
PUHY-EP250YNW-A (-BS)			6.5	13.57	22.9	47.82	29.4	61.39
PUHY-EP300YNW-A (-BS)			6.5	13.57	23.4	48.86	29.9	62.43
PUHY-EP350YNW-A (-BS)			9.8	20.46	24.4	50.95	34.2	71.41
PUHY-EP400YNW-A (-BS)			10.8	22.55	25.2	52.62	36.0	75.17
PUHY-EP450YNW-A (-BS)			10.8	22.55	33.1	69.11	43.9	91.66
PUHY-EP500YNW-A (-BS)			10.8	22.55	34.0	70.99	44.8	93.54
PUHY-EP550YSNW-A (-BS)			13.0	27.14	34.7	72.45	47.7	99.60
PUHY-EP600YSNW-A (-BS)			13.0	27.14	34.7	72.45	47.7	99.60
PUHY-EP650YSNW-A (-BS)			17.3	36.12	36.0	75.17	53.3	111.29
PUHY-EP700YSNW-A (-BS)			19.6	40.92	45.7	95.42	65.3	136.35
PUHY-EP750YSNW-A (-BS)			20.6	43.01	46.0	96.05	66.6	139.06
PUHY-EP800YSNW-A (-BS)			20.6	43.01	46.0	96.05	66.6	139.06
PUHY-EP850YSNW-A (-BS)			21.6	45.10	48.2	100.64	69.8	145.74
PUHY-EP900YSNW-A (-BS)			21.6	45.10	48.2	100.64	69.8	145.74
PUHY-EP950YSNW-A (-BS)			23.8	49.69	47.1	98.34	70.9	148.04
PUHY-EP1000YSNW-A (-BS)			27.1	56.58	47.2	98.55	74.3	155.14
PUHY-EP1050YSNW-A (-BS)			28.1	58.67	47.5	99.18	75.6	157.85
PUHY-EP1100YSNW-A (-BS)			30.4	63.48	47.3	98.76	77.7	162.24
PUHY-EP1150YSNW-A (-BS)			31.4	65.56	47.7	99.60	79.1	165.16
PUHY-EP1200YSNW-A (-BS)			32.4	67.65	48.0	100.22	80.4	167.88
PUHY-EP1250YSNW-A (-BS)			32.4	67.65	49.8	103.98	82.2	171.63
PUHY-EP1300YSNW-A (-BS)			32.4	67.65	49.8	103.98	82.2	171.63
PUHY-EP1350YSNW-A (-BS)			32.4	67.65	49.8	103.98	82.2	171.63

*This table is based on Regulation (EU) No 517/2014.

CONTAINS FLUORINATED GREENHOUSE GASES

OUTDOOR UNIT - R2 Series Heat Recovery

PURY-P•Y(S)NW-A(-BS) / CONTAINS FLUORINATED GREENHOUSES GASES

Model	Refrigerant		Factory Charged		Maximum Additional Charge		Total Charge	
	Type	GWP	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*
PURY-P200YNW-A (-BS)	R410A	2088	5.2	10.86	31.8	66.40	37.0	77.26
PURY-P250YNW-A (-BS)			5.2	10.86	37.8	78.93	43.0	89.78
PURY-P300YNW-A (-BS)			5.2	10.86	37.8	78.93	43.0	89.78
PURY-P350YNW-A (-BS)			8.0	16.70	41.3	86.23	43.9	102.94
PURY-P400YNW-A (-BS)			8.0	16.70	47.3	98.76	55.3	115.47
PURY-P450YNW-A (-BS)			10.8	22.55	44.5	92.92	56.0	116.93
PURY-P500YNW-A (-BS)			10.8	22.55	45.2	94.38	56.0	116.93
PURY-P550YNW-A (-BS)			10.8	22.55	45.2	94.38	56.0	116.93
PURY-P400YSNW-A (-BS)			10.4	21.72	60.6	126.53	71.0	148.25
PURY-P450YSNW-A (-BS)			10.4	21.72	60.6	126.53	71.0	148.25
PURY-P500YSNW-A (-BS)			10.4	21.72	60.6	126.53	71.0	148.25
PURY-P550YSNW-A (-BS)			10.4	21.72	60.6	126.53	71.0	148.25
PURY-P600YSNW-A (-BS)			10.4	21.72	60.6	126.53	71.0	148.25
PURY-P650YSNW-A (-BS)			13.2	27.56	65.6	136.97	78.8	164.53
PURY-P700YSNW-A (-BS)			16.0	33.41	79.6	166.20	95.6	199.61
PURY-P750YSNW-A (-BS)			16.0	33.41	79.6	173.30	95.6	206.71
PURY-P800YSNW-A (-BS)			16.0	33.41	83.0	173.30	99.0	206.71
PURY-P850YSNW-A (-BS)			18.8	39.25	80.2	167.46	99.0	206.71
PURY-P900YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-P950YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-P1000YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-P1050YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-P1100YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71

PURY-EP•Y(S)NW-A(-BS) / CONTAINS FLUORINATED GREENHOUSES GASES

Model	Refrigerant		Factory Charged		Maximum Additional Charge		Total Charge	
	Type	GWP	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*	Weight [kg]	CO ₂ Equivalent [t]*
PURY-EP200YNW-A (-BS)	R410A	2088	5.2	10.86	28.3	59.09	33.5	69.95
PURY-EP250YNW-A (-BS)			5.2	10.86	34.3	71.62	39.5	82.48
PURY-EP300YNW-A (-BS)			5.2	10.86	34.3	71.62	39.5	82.48
PURY-EP350YNW-A (-BS)			8.0	16.70	39.0	81.43	47.0	98.14
PURY-EP400YNW-A (-BS)			8.0	16.70	39.0	81.43	47.0	98.14
PURY-EP450YNW-A (-BS)			10.8	22.55	44.7	93.33	55.5	115.88
PURY-EP500YNW-A (-BS)			10.8	22.55	45.2	94.38	56.0	115.88
PURY-EP550YNW-A (-BS)			10.8	22.55	45.2	94.38	56.0	116.93
PURY-EP400YSNW-A (-BS)			10.4	21.72	53.6	111.92	64.0	116.93
PURY-EP450YSNW-A (-BS)			10.4	21.72	53.6	111.92	64.0	133.63
PURY-EP500YSNW-A (-BS)			10.4	21.72	53.6	111.92	64.0	133.63
PURY-EP550YSNW-A (-BS)			10.4	21.72	53.6	111.92	64.0	133.63
PURY-E-P600YSNW-A (-BS)			10.4	21.72	53.6	111.92	64.0	133.63
PURY-EP650YSNW-A (-BS)			13.2	27.56	59.8	124.86	73.0	152.42
PURY-EP700YSNW-A (-BS)			16.0	33.41	78.0	162.86	94.0	196.27
PURY-EP750YSNW-A (-BS)			16.0	33.41	80.5	168.08	95.6	201.49
PURY-EP800YSNW-A (-BS)			16.0	33.41	83.0	173.30	99.0	206.71
PURY-EP850YSNW-A (-BS)			18.8	39.25	80.2	167.46	99.0	206.71
PURY-EP900YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-EP950YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-EP1000YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-EP1050YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71
PURY-EP1100YSNW-A (-BS)			21.6	45.10	77.4	161.61	99.0	206.71

*This table is based on Regulation (EU) No 517/2014.



Water Cooled City Multi Benefits

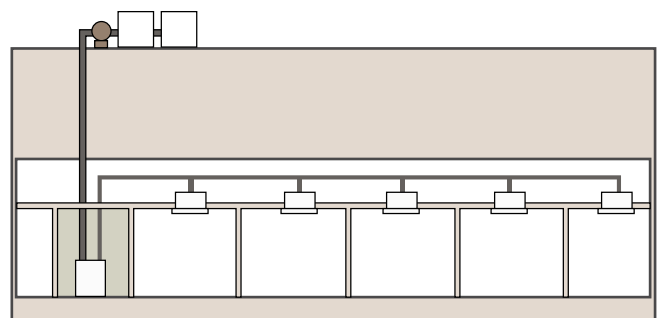
Water Cooled systems can be used in buildings that are taller than 50m by running a main water pipe through each floor. Any heat source system that can supply heat source water between 10°C - 45°C can be used.

Simultaneous heating and cooling operation is available (WR2 Series).

It is suggested that Water Cooled systems are used in buildings that have the following heating and cooling needs:

- Buildings that require all year cooling. For example tenant buildings in which kitchens and offices exist together and buildings in which equipment rooms and office exist together.
- Buildings in which there are large room temperature differences between sunny and shaded rooms.
- Hotels with a lot of individual operation needs.

Water Cooled systems are ideally suited for use in temperate and colder climates since heat exchange with the outside air is not required.

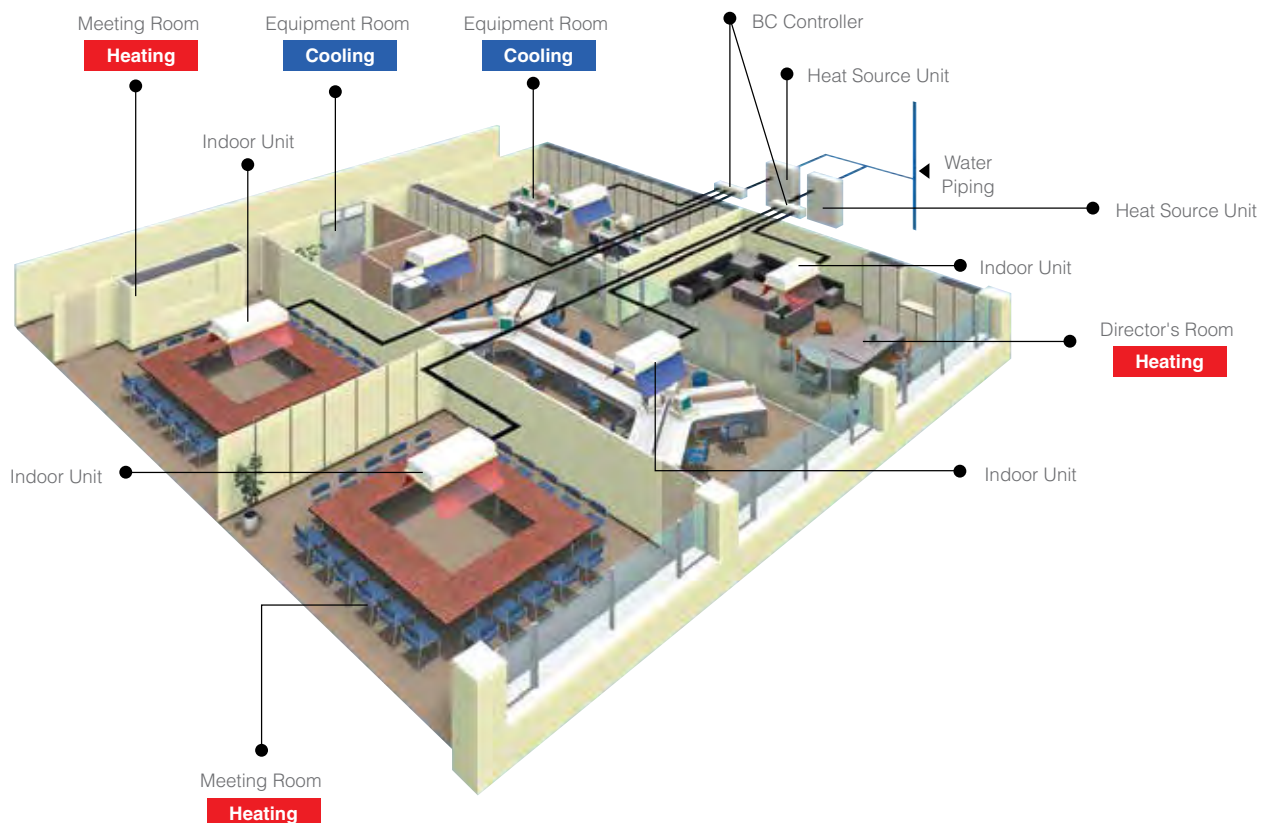


Energy Saving Technology

WHAT IS WATER COOLED?

A unique offering from Mitsubishi Electric

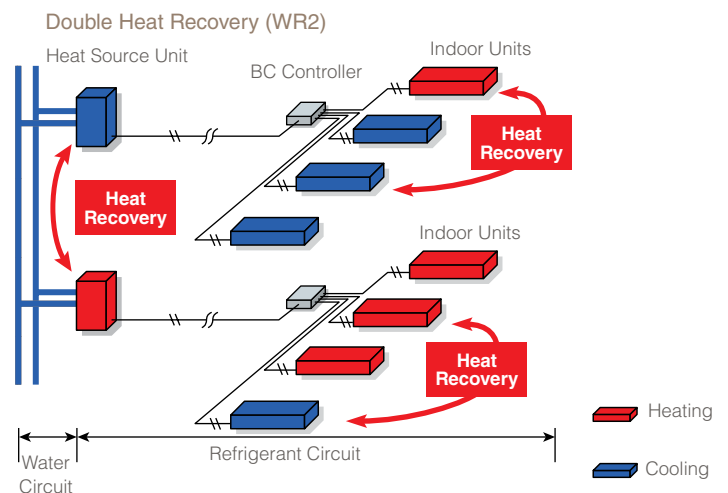
It is now possible to combine the features of VRF with a water circuit using CITY MULTI WR2/WY. In this case, the heat is rejected to a water source rather than to the outside air. The advantages of Water Cooled systems are that the water can be delivered at optimised temperatures and volumes, allowing even greater flexibility and increased COP.



WR2 (Heat Recovery Type)

Mitsubishi Electric now offers double heat recovery operation.

- » The first heat recovery is within the refrigerant system. Simultaneous cooling and heating operation is available with heat recovery performed between indoor units.
- » The second heat recovery is within the water loop, where heat recovery is performed between the PQRY units. This double heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas require cooling even in winter.



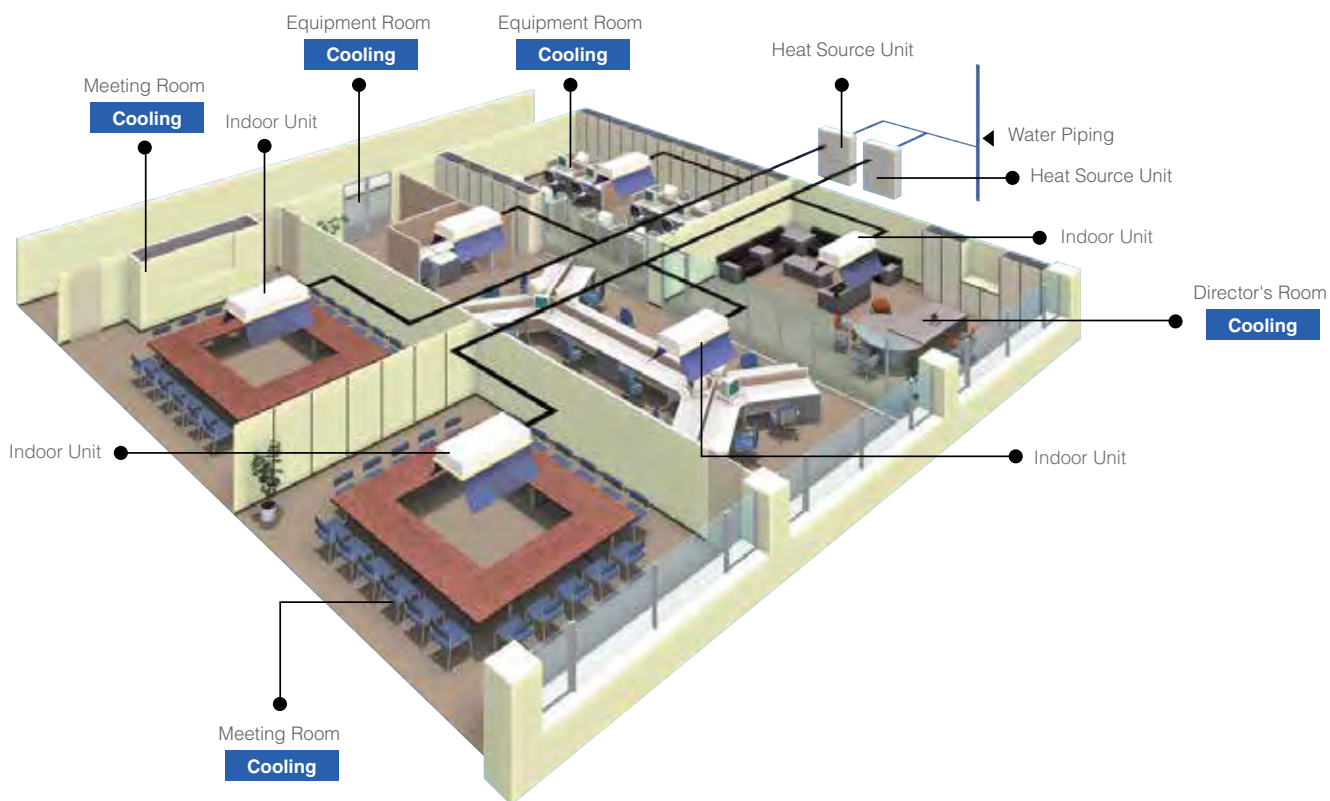
Water Cooled Series

COOLING OR HEATING

Water energy source system allows switching between cooling and heating

The WY-Series has all the benefits of the Y-Series using water source condensing units. Condensing units can be situated indoors, allowing greater design flexibility and almost no limitation on building size. Depending on capacity, up to 15 to 50 indoor units can be connected to a single condensing unit with individualised and centralised control. The indoor can operate in either cooling or heating mode.

Installation image WY Series



SYSTEM PIPE LENGTHS

P200-P900 WY Series

Refrigerant Piping Lengths

Maximum Units

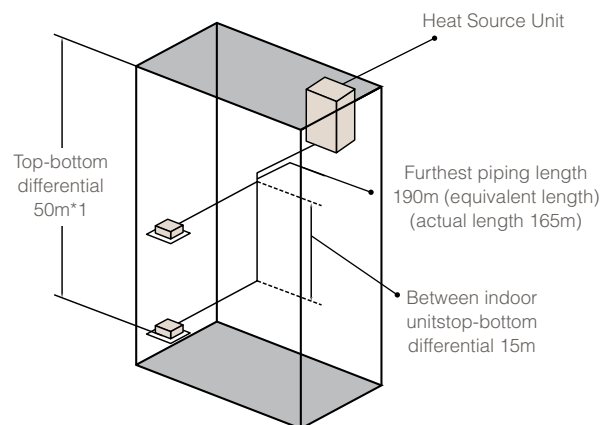
Total Length	300-500
Maximum Allowable Length	165 (190 equivalent)
Farthest Indoor from First Branch	40*2

Vertical Variations Between Units

Maximum Units

Indoor/Heat Source (Heat Source Higher)	50
Indoor/Heat Source (Heat Source Lower)	40
Indoor/Indoor	15

All values in metres



*1 When the heat source unit is installed below the indoor unit, top-bottom differential is 40m.

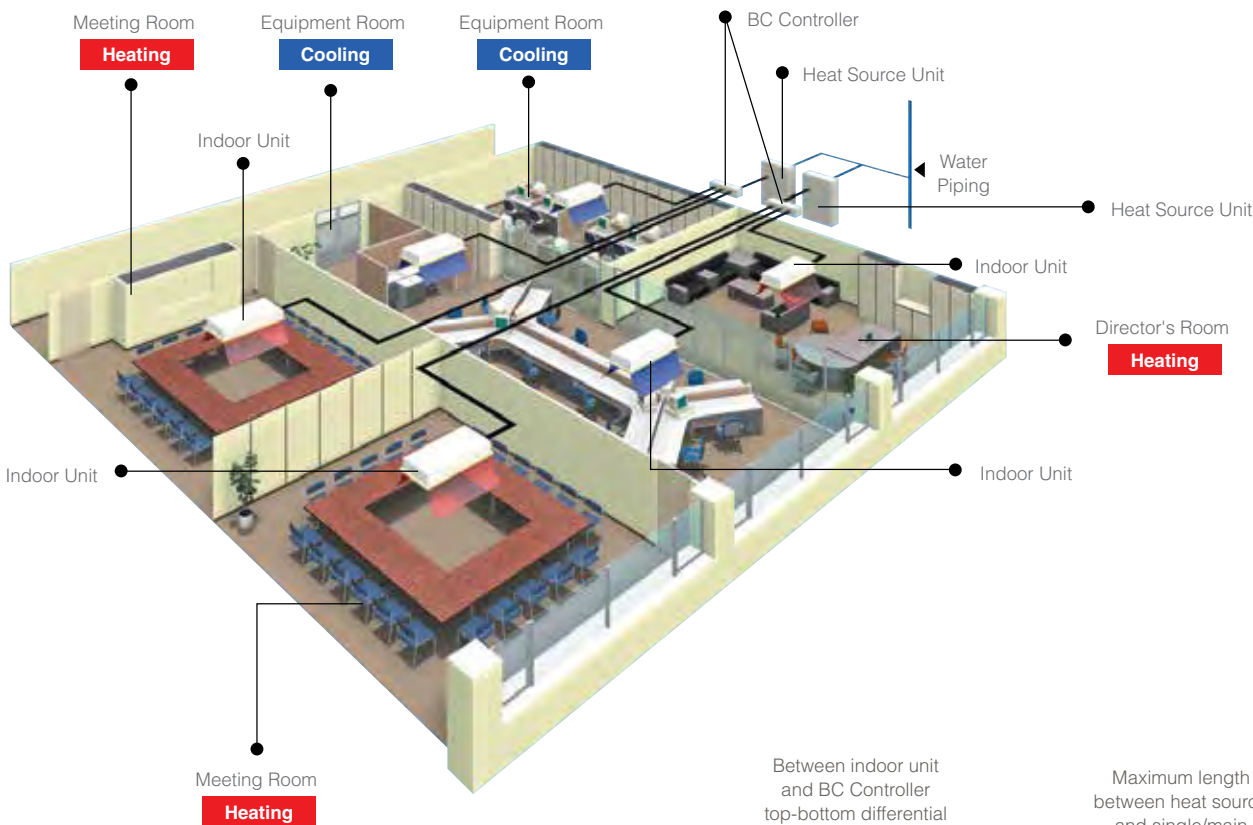
*2 90m is available. When the piping length exceeds 40m, use on size larger liquid pipe starting with the section of piping where 40m is exceeded and all piping after that point.

WR2 HEAT RECOVERY SERIES

Advanced water heat source unit enjoying the benefits of WR2 Series

The CITY MULTI WR2 series provides all of the advantages of the R2 series with the added benefits of a water heat source system, making it suitable for a broader range of applications in high rises, frigid climates and coastal areas. Not only does it produce heat recovery from the indoor units on the same 2-pipe refrigerant circuit, but it also produces heat recovery via the water circuit between heat source units, making it a more efficient system.

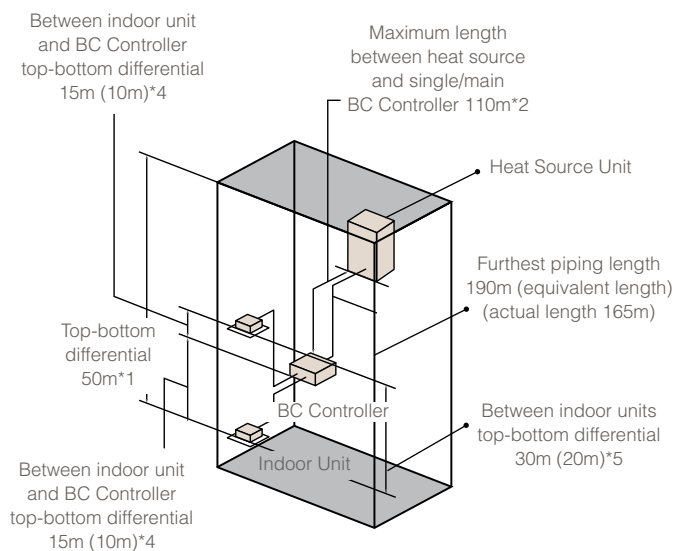
Installation image WR2 Series



SYSTEM PIPE LENGTHS

P200-P900 WR2 Series

Refrigerant Piping Lengths	Maximum Units
Total Length	550-750
Maximum Allowable Length	165 (190 equivalent)
Maximum Length Between Heat Source and Single/Main BC Controller	110*2
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller	
Maximum Length Between Single/Main BC Controller and Indoor	40*3
Vertical Variations Between Units	Maximum Units
Indoor/Heat Source (Heat Source Higher)	50
Indoor/Heat Source (Heat Source Lower)	40
Indoor/BC Controller (Single/Main)	15*4
Indoor/Indoor	30*5
Main BC Controller/Sub BC Controller	15*6



- *1 When the heat source unit is installed below the indoor unit, top-bottom differential is 40m.
- *2 Details refer to the Data Book.
- *3 Farthest Indoor from BC Controller can exceed 40m till 60m if no Indoor sized P200, P250 connected. Details refer to the Data Book.
- *4 Distance of Indoor sized P200, P250 from BC must be less than 10m, if any.
- *5 Distance of Indoor sized P200, P250 from Indoor unit must be less than 20m if any.
- *6 Distance between BC (Main) and BC (Sub) must be less than 10m, if two BC (Sub) are installed or Indoor sized P200 and/or P250 is connected.

All values in metres

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.

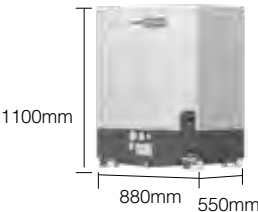
Y(S)HM-A

S

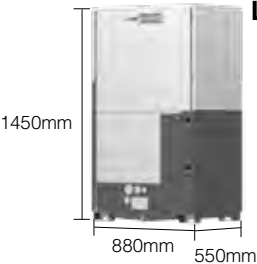


Y(S)LM-A1

S



L



WY Series

Single module units available up to P600

		P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
PQHY-P YLM-A1	Single	S	S	S	L	L	L	L	L	L						
PQHY-P YHM-A	Single	S	S	S												
PQHY-P YSLM-A1	Combination					S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L	L+L
PQHY-P YSHM-A	Combination					S+S	S+S	S+S	S+S	S+S	S+S	S+S	S+S	S+S	S+S	S+S

WR2 Series

Single module units available up to P600

Single module units available up to P600

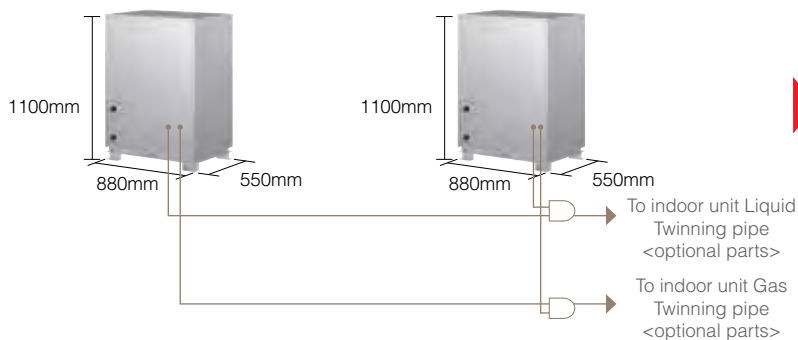
		P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900
PQRY-P YLM-A1	Single	S	S	S	L	L	L	L	L	L						
PQRY-P YHM-A	Single	S	S	S												
PQRY-P YSLM-A1	Combination					S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L	L+L
PQRY-P YSHM-A	Combination					S+S	S+S	S+S	S+S	S+S						

BENEFIT OF SINGLE MODULE WIDE CAPACITY RANGE

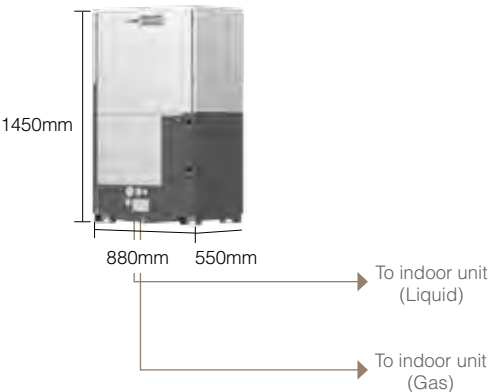
Less piping work

» Capable of covering up to P600 (69kW) with a single module.

P400YHSM (WY/WR2 Series)



P400YLM (WY-WR2 Series)

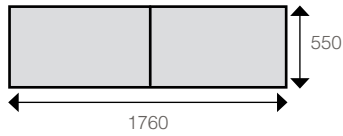


Less footprint

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

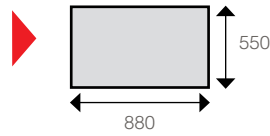
PQHY-P YSHM-A

P400 - P600



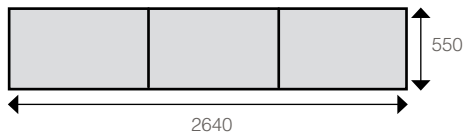
PQHY-P Y(S)LM-A1

P200 - P600



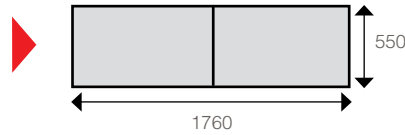
Approx 50% Reduction

EP400-P450



P400 - P900

*P650 is excluded.

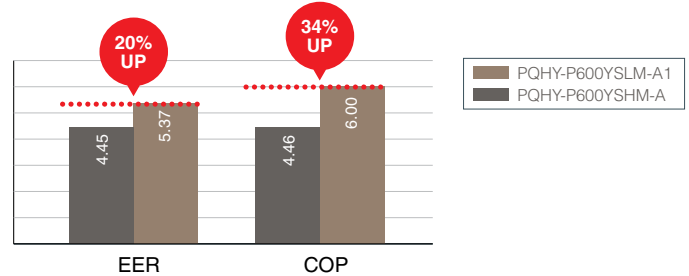
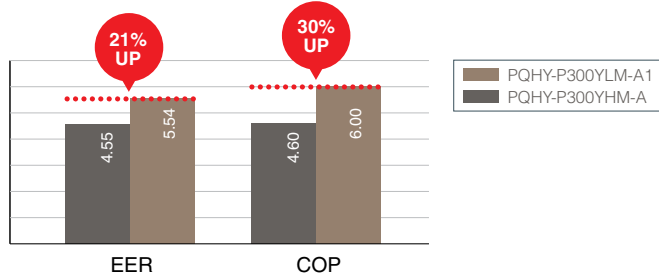


Approx 33% Reduction

All values in mm

HIGH ENERGY EFFICIENCY

High EER and COP as compared to the conventional models



WATER FLOW RATE CONTROL

Improve system energy consumption by reducing the water pump consumption by changing water flow volume during partial load.

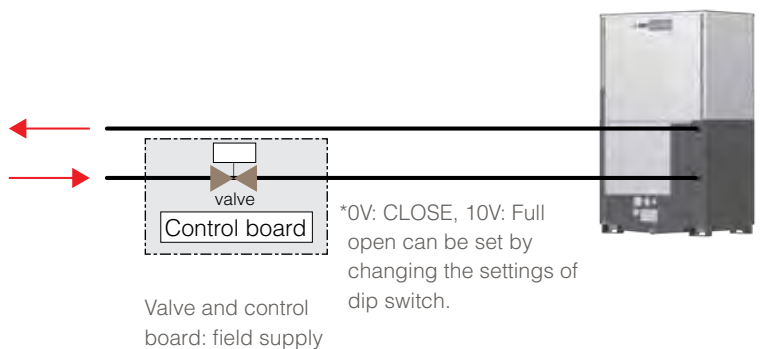
» Control of water flow rate

Control output voltage (0-10V) for adjustment of valve operating [0V: Full open, 10V: close]

Voltage at 0 volt: Even when power down, water will continue to circulate.

» Site control panel for pump interlock is not required.*

*Details refer to the DATA BOOK.

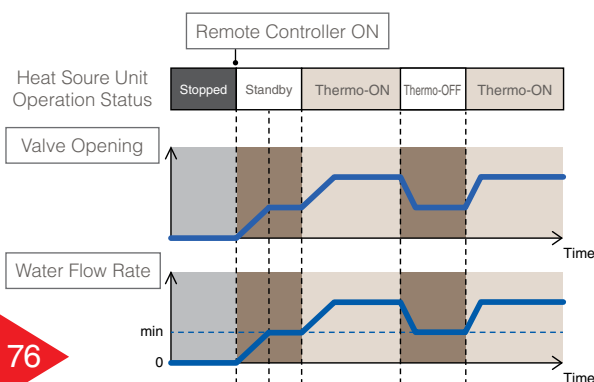


POWER SAVE SETTING (PQHY-P Y(S)LM-A1, PQRY-PY(S)LM-A1)

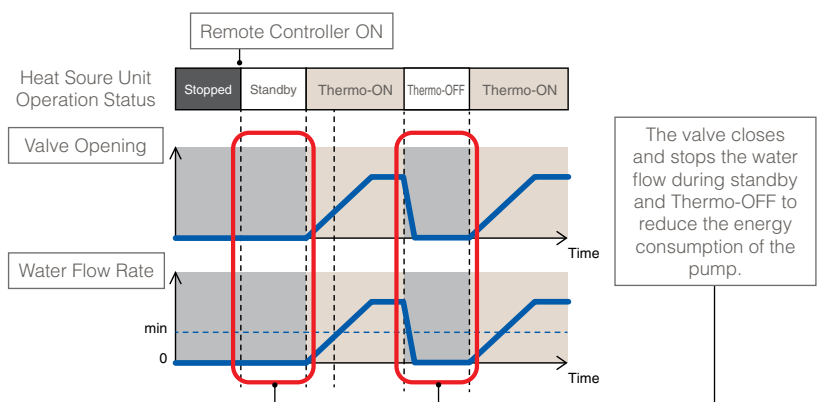
On the previous models (A type), the pump was operated at a constant flow rate during standby and Thermo-OFF.

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.

Standard



Power-save settings for the pump



OPTIONAL PARTS

OUTDOOR UNITS

For PQHY Series

Description	Model	Applicable capacity
Branch Pipe (Joint)	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
	CMY-Y202S-G2	401-650 (Total capacity of indoor unit)
	CMY-Y302S-G2	The first branch of P450-P650 651 or above (Total capacity of indoor unit)
Branch Pipe (Header)	CMY-Y104-G	For 4 branches
	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
Twinning Kit	CMY-Y100VBK3	For PQHY-P400-P600YSLM-A1
	CMY-Y200VBK2	For PQHY-P650-P900YSLM-A1

Description		Model	Applicable capacity
Branch Pipe (Joint)		CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
		CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
Twinning Kit		CMY-Q100CBK2	For PQRY-P400~P600YSLM-A1
		CMY-Q200CBK	For PQRY-P700~P900YSLM-A1
For BC Controller	2-Branch Joint Pipe	CMY-Y102SS-G2	200 or below (Total capacity of indoor unit)
		CMY-Y102LS-G2	201-400 (Total capacity of indoor unit)
	Joint and Reducer	CMY-R201S-G	350 or below (Total capacity of indoor unit)
		CMY-R202S-G	351-300 (Total capacity of indoor unit)
		CMY-R203S-G	601-650 (Total capacity of indoor unit)
		CMY-R204S-G	651-1000 (Total capacity of indoor unit)
		CMY-R205S-G	1001 or above (Total capacity of indoor unit)
		CMY-R101S-G	For P200-P650 Heat Source Unit
		CMY-R102S-G	For P700-P1100 Heat Source Unit
	Reducer	CMY-R301S-G	For CMB-P104, 106, 108, 1012, 1016V-J (When the heat source unit capacity is P200 to P300)
		CMY-R302S-G	For CMB-P104,106,108,1012,1016V-JA (When the heat source unit capacity is P200 to P900)
		CMY-R303S-G	For CMB-P108,1012,1016V-JA and for use with sub BC controller
		CMY-R304S-G	For CMB-P1016V-KA (When the heat source unit capacity is P200 to P1000)
		CMY-R305S-G	For CMB-P1016V-KA and for use with sub BC controller
		CMY-R306S-G	For CMB-P104, 108V-KB
	Branch Pipe (Header)	CMY-R160-J1	Joint for connecting to two nozzles

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series

PQHY-P YLM-A (HEAT PUMP)



Model			PQHY-P200YLM-A	PQHY-P250YLM-A	PQHY-P300YLM-A	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	22.4	28.0	33.5	
		kcal/h	20,000	25,000	30,000	
		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 Cooling	Indoor	W.B.	15.0~24.0°C			
	Calculating Water	C°	10.0~45.0°C			
Heating Capacity (Nominal)*2		kW	25.0	31.5	37.5	
		kcal/h	21,500	27,100	32,300	
		BTU/h	85,300	107,500	128,000	
		Power Input	kW	3.97	5.08	6.25
		Current Input	A	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 Heating	Indoor	D.B.	15.0~27.0°C			
	Calculating Water	C°	10.0~45.0°C			
Indoor Unit Connectable	Total Capacity	50~130% of Heat Source Unit Capacity				
	Model/Quantity	P15~P250/1~17	P15~P250/1~21	P15~P250/1~26		
Sound Pressure Level (Measured in Anechoic 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 >=90m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, Farthest Length >=40m)	
	Gas Pipe	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
Circulating Water	Water Flow Rate	m³/h	5.76			
		L/min	96			
		cfm	3.4			
	Pressure Drop	kPa	24			
	Operating Volume Range	kW	3.0~7.2			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	4.8	6.2	7.7	
External Finish			Galvanised Steel Sheets			
External Dimensions HxWxD		mm	1,100 x 880 x 550			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)			
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection			
	Compressor		Over-Heat Protection			
Refrigerant	Type x Original Charge		R410A x 5.0kg			
Net Weight		kg	174			
Heat Exchanger			Plate Type			
			Water Volume in Plate	L	5.0	
			Water Pressure Max.	MPa	2.0	
Optional Parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104,108,1010-G			

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series

PQHY-P YLM-A (HEAT PUMP)



Model			PQHY-P350YLM-A	PQHY-P400YLM-A	PQHY-P450YLM-A
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz		
Cooling Capacity (Nominal)*1		kW	40.0	45.0	50.0
		kcal/h	35,000	40,000	45,000
		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		5.38
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C		
	Calculating Water	C°	10.0~45.0°C		
Heating Capacity (Nominal)*2		kW	45.0	50.0	56.0
		kcal/h	40,000	45,000	50,000
		BTU/h	153,500	170,600	191,100
	Power Input	kW	7.53	8.37	9.79
	Current Input	A	12.7-12.0-11.6	14.1-13.4-12.9	16.5-15.7-15.1
	COP	kW/kW	5.97		5.72
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C		
	Calculating Water	C°	10.0~45.0°C		
Indoor Unit Connectable	Total Capacity		50~130% of Heat Source Unit Capacity		
	Model/Quantity		P15~P250/1~30	P15~P250/1~34	P15~P250/1~39
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	52		54
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed		
Circulating Water	Water Flow Rate	m³/h	7.20		
		L/min	120		
		cfm	4.4		
	Pressure Drop	kPa	44		
	Operating Volume Range	kW	4.5~11.6		
Compressor	Type		Inverter Scroll Hermetic Compressor		
	Starting Method		Inverter		
	Motor Output	kW	9.5	10.7	11.6
External Finish			Galvanised Steel Sheets		
External Dimensions HxWxD			1,450 x 880 x 550		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)		
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection		
	Compressor		Over-Heat Protection		
Refrigerant	Type x Original Charge		R410A x 6.0kg		
Net Weight		kg	217		
Heat Exchanger			Plate Type		
	Water Volume in Plate	L	5.0		
	Water Pressure Max.	MPa	2.0		
Optional Parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104,108,1010-G		

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series

PQHY-P YLM-A (HEAT PUMP)



Model			PQHY-P500YLM-A	PQHY-P550YLM-A	PQHY-P600YLM-A		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz				
Cooling Capacity (Nominal)*1		kW	56.0	63.0	69.0		
		kcal/h	50,000	55,000	60,000		
		BTU/h	191,100	215,000	235,400		
	Power Input	kW	11.17	12.54	14.49		
	Current Input	A	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 Cooling	Indoor	W.B.	15.0~24.0°C				
	Calculating Water	C°	10.0~45.0°C				
Heating Capacity (Nominal)*2		kW	63.0	69.0	76.5		
		kcal/h	55,000	60,000	65,800		
		BTU/h	215,000	235,400	261,000		
	Power Input	kW	11.43	12.27	14.51		
	Current Input	A	19.2-18.3-17.6	20.7-19.5-18.9	24.4-23.2-22.3		
	COP	kW/kW	5.51	5.62	5.27		
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C				
	Calculating Water	C°	10.0~45.0°C				
Indoor Unit Connectable	Total Capacity		50~130% of Heat Source Unit Capacity				
	Model/Quantity		P15~P250/1~43	P15~P250/2~47	P15~P250/2~50		
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	54	56.5			
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed				
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed				
Circulating Water	Water Flow Rate	m³/h	7.20	11.52			
		L/min	120	192			
		cfm	4.2	6.8			
	Pressure Drop	kPa	44	45			
	Operating Volume Range	kW	4.5~11.6	6.0~14.4			
Compressor	Type		Inverter Scroll Hermetic Compressor				
	Starting Method		Inverter				
	Motor Output	kW	13.0	15.0	16.1		
External Finish			Galvanised Steel Sheets				
External Dimensions HxWxD		mm	1,450 x 880 x 550				
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)				
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection				
	Compressor		Over-Heat Protection				
Refrigerant	Type x Original Charge		R410A x 6.0kg	R410A x 7.11kg			
Net Weight		kg	217	246			
Heat Exchanger			Plate Type				
			Water Volume in Plate	L	5.0	10.0	
			Water Pressure Max.	MPa	2.0		
Optional Parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104,108,1010-G				

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°CDB.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series



PQHY-P YSLM-A (HEAT PUMP)

Model			PQHY-P400YSLM-A		PQHY-P450YSLM-A		PQHY-P500YSLM-A		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0		
		kcal/h	40,000		45,000		50,000		
		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 Cooling	Indoor	W.B.	15.0~24.0°C						
	Calculating Water	C°	10.0~45.0°C						
Heating Capacity (Nominal)*2		kW	50.0		56.0		63.0		
		kcal/h	45,000		50,000		55,000		
		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 Heating	Indoor	D.B.	15.0~27.0°C						
	Calculating Water	C°	10.0~45.0°C						
Indoor Unit Connectable	Total Capacity		50~130% of Heat Source Unit Capacity						
	Model/Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43		
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	49		50		51		
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed						
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PQHY-P200YLM-A	PQHY-P250YLM-A	PQHY-250-YLM-A	PQHY-200YLM-A	PQHY-P250YLM-A	PQHY-P250YLM-A	
Circulating Water	Water Flow Rate	m³/h	5.76 + 5.76						
		L/min	96 + 96						
		cfm	3.4 + 3.4						
	Pressure Drop	kPa	24						
	Operating Volume Range	kW	3.0 +3.0 - 7.2 + 7.2						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	4.8		6.2		4.8		6.2
External Finish			Galvanised Steel Sheets						
External Dimensions HxWxD		mm	1,100 x 880 x 550						
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)						
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection						
	Compressor		Over-Heat Protection						
Refrigerant	Type x Original Charge		R410A x 5.0kg						
Net Weight		kg	174						
Heat Exchanger			Plate Type						
			Water Volume in Plate	L	5.0				
			Water Pressure Max.	MPa	2.0				
Optional Parts			Heat Source Twinning Kit: CMY-Y100BVK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104,108,1010-G						

Notes:

*1, *2Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°CDB.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series



PQHY-P YSLM-A (HEAT PUMP)

Model			PQHY-P550YSLM-A		PQHY-P600YSLM-A		PQHY-P700YSLM-A		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	63.0		69.0		80.0		
		kcal/h	55,000		60,000		68,800		
		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 Cooling	Indoor	W.B.	15.0~24.0°C						
	Calculating Water	C°	10.0~45.0°C						
Heating Capacity (Nominal)*2		kW	69.0		76.5		88.0		
		kcal/h	60,000		65,800		75,700		
		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 Heating	Indoor	D.B.	15.0~27.0°C						
	Calculating Water	C°	10.0~45.0°C						
Indoor Unit Connectable	Total Capacity		50~130% of Heat Source Unit Capacity						
	Model/Quantity		P15~P250/2~47		P15~P250/2~50		P15~P250/2~50		
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	55		57		55		
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed						
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PQHY-P300YLM-A	PHY-P250YLM-A	PQHY-P300-YLM-A	PQHY-300YLM-A	PQHY-P350YLM-A	PQHY-P350YLM-A	
Circulating Water	Water Flow Rate	m³/h	5.76 + 5.76				7.20 + 7.20		
		L/min	96 + 96				120 + 120		
		cfm	3.4 + 3.4				4.2 + 4.2		
	Pressure Drop	kPa	24				44		
	Operating Volume Range	kW	3.0 + 3.0 - 7.2 + 7.2				4.5 + 4.5 ~ 11.6 + 11.16		
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.7	6.2	7.7		9.5		
External Finish			Galvanised Steel Sheets						
External Dimensions HxWxD		mm	1,100 x 880 x 550				1,450 x 880 x 550		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)						
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection						
	Compressor		Over-Heat Protection						
Refrigerant	Type x Original Charge		R410A x 5.0kg				R410A x 6.0kg		
Net Weight		kg	174				217		
Heat Exchanger			Plate Type						
	Water Volume in Plate	L	5.0						
	Water Pressure Max.	MPa	2.0						
Optional Parts			Heat Source Twinning Kit: CMY-Y100BVK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104,108,1010-G						

Notes:

*1, *2Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°CDB.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series

PQHY-P YSLM-A (HEAT PUMP)



Model			PQHY-P750YSLM-A		PQHY-P800YSLM-A					
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz							
Cooling Capacity (Nominal)*1		kW	85.0		90.0					
		kcal/h	73,100		77,440					
		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							
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C							
	Calculating Water	C°	10.0~45.0°C							
Heating Capacity (Nominal)*2		kW	95.0		100.0					
		kcal/h	81,700		86,000					
		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							
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C							
	Calculating Water	C°	10.0~45.0°C							
Indoor Unit Connectable	Total Capacity		50~130% of Heat Source Unit Capacity							
	Model/Quantity		P15~P250/2~50							
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	55							
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed							
	Gas Pipe	mm (in.)	34.93 (1-3/8) Brazed							
Set Model										
Model			PQHY-P400YLM-A		PQHY-P350YLM-A		PQHY-P400-YLM-A		PQHY-400YLM-A	
Circulating Water	Water Flow Rate	m³/h	7.20 + 7.20							
		L/min	120 + 120							
		cfm	4.2 + 4.2							
	Pressure Drop	kPa	44							
	Operating Volume Range	kW	4.5 + 4.5 ~ 11.6 + 11.6							
Compressor	Type		Inverter Scroll Hermetic Compressor							
	Starting Method		Inverter							
	Motor Output	kW	10.7	9.5		10.7				
External Finish			Galvanised Steel Sheets							
External Dimensions HxWxD		mm	1,450 x 880 x 550							
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)							
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection							
	Compressor		Over-Heat Protection							
Refrigerant	Type x Original Charge		R410A x 6.0kg							
Net Weight		kg	217							
Heat Exchanger			Plate Type							
	Water Volume in Plate	L	5.0							
	Water Pressure Max.	MPa	2.0							
Optional Parts			Heat Source Twinning Kit: CMY-Y200VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G							

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WY Series

PQHY-P YSLM-A (HEAT PUMP)



Model			PQHY-P850YSLM-A		PQHY-P900YSLM-A			
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	96.0		101.0			
		kcal/h	82,600		86,900			
		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 Cooling	Indoor	W.B.	15.0~24.0°C					
	Calculating Water	C°	10.0~45.0°C					
Heating Capacity (Nominal)*2		kW	108.0		113.0			
		kcal/h	92,900		97,200			
		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 Heating	Indoor	D.B.	15.0~27.0°C					
	Calculating Water	C°	10.0~45.0°C					
Indoor Unit Connectable	Total Capacity		50~130% of Heat Source Unit Capacity					
	Model/Quantity		P15~P250/2~50					
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	56		57			
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	19.05 (3/4) Brazed					
	Gas Pipe	mm (in.)	41.28 (1-5/8) Brazed					
Set Model								
Model			PQHY-P450YLM-A		PQHY-P400YLM-A	PQHY-P450-YLM-A		PQHY-450YLM-A
Circulating Water	Water Flow Rate	m³/h	7.20 + 7.20					
		L/min	120 + 120					
		cfm	4.2 + 4.2					
	Pressure Drop	kPa	44					
	Operating Volume Range	kW	4.5 + 4.5 ~ 11.6 + 11.6					
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	11.6	10.7	11.6			
External Finish			Galvanised Steel Sheets					
External Dimensions HxWxD		mm	1,450 x 880 x 550					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)					
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection					
	Compressor		Over-Heat Protection					
Refrigerant	Type x Original Charge		R410A x 6.0kg					
Net Weight		kg	217					
Heat Exchanger			Plate Type					
	Water Volume in Plate	L	5.0					
	Water Pressure Max.	MPa	2.0					
Optional Parts			Heat Source Twinning Kit: CMY-Y200VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G					

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WR2 Series

PQRY-P YLM-A (HEAT RECOVERY)



Model			PQRY-P200YLM-A	PQRY-P250YLM-A	PQRY-P300YLM-A	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	22.4	28.0	33.5	
		kcal/h	20,000	25,000	30,000	
		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 Cooling	Indoor	W.B.	15.0~24.0°C			
	Calculating Water	C°	10.0~45.0°C			
Heating Capacity (Nominal)*2		kW	25.0	31.5	37.5	
		kcal/h	21,500	27,100	32,300	
		BTU/h	85,300	107,500	128,000	
		Power Input	kW	3.97	5.08	6.25
		Current Input	A	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 Heating	Indoor	D.B.	15.0~27.0°C			
	Calculating Water	C°	10.0~45.0°C			
Indoor Unit Connectable	Total Capacity		50~150% of Heat Source Unit Capacity			
	Model/Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	46	48	54	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
	Gas Pipe	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
Circulating Water	Water Flow Rate	m³/h	5.76			
		L/min	96			
		cfm	3.4			
	Pressure Drop	kPa	24			
	Operating Volume Range	kW	3.0~7.2			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	4.8	6.2	7.7	
External Finish			Galvanised Steel Sheets			
External Dimensions HxWxD		mm	1,100 x 880 x 550			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)			
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection			
	Compressor		Over-Heat Protection			
Refrigerant	Type x Original Charge		R410A x 5.0kg			
Net Weight		kg	172			
Heat Exchanger			Plate Type			
	Water Volume in Plate	L	5.0			
	Water Pressure Max.	MPa	2.0			
Optional Parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC Controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016-G1 Main BC Controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			

Notes:

*1, *2Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WR2 Series

PQRY-P YLM-A (HEAT RECOVERY)



Model			PQRY-P350YLM-A	PQRY-P400YLM-A	PQRY-P450YLM-A
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz		
Cooling Capacity (Nominal)*1	kW		40.0	45.0	50.0
		kcal/h	35,000	40,000	45,000
		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		5.38
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C		
	Calculating Water	C°	10.0~45.0°C		
Heating Capacity (Nominal)*2	kW		45.0	50.0	56.0
		kcal/h	40,000	45,000	50,000
		BTU/h	153,500	170,600	191,100
	Power Input	kW	7.53	8.37	9.79
	Current Input	A	12.7-12.0-11.6	14.1-13.4-12.9	16.5-15.7-15.1
	COP	kW/kW	5.97		5.72
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C		
	Calculating Water	C°	10.0~45.0°C		
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity of Heat Source Unit Capacity		
	Model/Quantity		P15~P250/1~35	P15~P250/1~40	P15~P250/1~45
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	52		54
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	22.2 (7/8) Brazed		
	Gas Pipe	mm (in.)	28.58 (1-1/8) Brazed		
Circulating Water	Water Flow Rate	m³/h	7.20		
		L/min	120		
		cfm	4.2		
	Pressure Drop	kPa	44		
	Operating Volume Range	kW	4.5 ~ 11.6		
Compressor	Type		Inverter Scroll Hermetic Compressor		
	Starting Method		Inverter		
	Motor Output	kW	9.5	10.7	11.6
External Finish			Galvanised Steel Sheets		
External Dimensions HxWxD			1,450 x 880 x 550		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)		
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection		
	Compressor		Over-Heat Protection		
Refrigerant	Type x Original Charge		R410A x 6.0kg		
Net Weight		kg	216		
Heat Exchanger			Plate Type		
	Water Volume in Plate	L	5.0		
	Water Pressure Max.	MPa	2.0		
Optional Parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC Controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC Controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		

Notes:

*1, *2Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WR2 Series



PQR-Y P YLM-A (HEAT RECOVERY)

Model			PQRY-P500YLM-A		PQRY-P550YLM-A		PQRY-P600YLM-A	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz					
Cooling Capacity (Nominal)*1		kW	56.0		63.0		69.0	
		kcal/h	50,000		55,000		60,000	
		BTU/h	191,100		215,000		235,400	
	Power Input	kW	11.17		12.54		14.49	
	Current Input	A	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 Cooling	Indoor	W.B.	15.0~24.0°C					
	Calculating Water	C°	10.0~45.0°C					
Heating Capacity (Nominal)*2		kW	63.0		69.0		76.5	
		kcal/h	55,000		60,000		65,800	
		BTU/h	215,000		235,400		261,000	
	Power Input	kW	11.43		12.27		14.51	
	Current Input	A	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 Heating	Indoor	D.B.	15.0~27.0°C					
	Calculating Water	C°	10.0~45.0°C					
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity of Heat Source Unit Capacity					
	Model/Quantity		P15~P250/1~50		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	54		56.5			
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)			
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed					
Circulating Water	Water Flow Rate	m³/h	7.20		11.52			
		L/min	120		192			
		cfm	4.2		6.8			
	Pressure Drop	kPa	44		45			
	Operating Volume Range	kW	4.5 ~ 11.6		6.0 ~ 14.4			
Compressor	Type		Inverter Scroll Hermetic Compressor					
	Starting Method		Inverter					
	Motor Output	kW	13.0		15.0		16.1	
External Finish			Galvanised Steel Sheets					
External Dimensions HxWxD		mm	1,450 x 880 x 550					
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)					
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection					
	Compressor		Over-Heat Protection					
Refrigerant	Type x Original Charge		R410A x 6.0kg		R410A x 11.7kg			
Net Weight		kg	216		246			
Heat Exchanger			Plate Type					
	Water Volume in Plate	L	5.0		10.0			
	Water Pressure Max.	MPa	2.0					
Optional Parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					

Notes:

*1, *2Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WR2 Series



PQRY-P YSLM-A (HEAT RECOVERY)

Model			PQRY-P400YSLM-A		PQRY-P450YSLM-A		PQRY-P500YSLM-A		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	45.0		50.0		56.0		
		kcal/h	40,000		45,000		50,000		
		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 Cooling	Indoor	W.B.	15.0~24.0°C						
	Calculating Water	C°	10.0~45.0°C						
Heating Capacity (Nominal)*2		kW	50.0		56.0		63.0		
		kcal/h	45,000		50,000		55,000		
		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 Heating	Indoor	D.B.	15.0~27.0°C						
	Calculating Water	C°	10.0~45.0°C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity of Heat Source Unit Capacity						
	Model/Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50		
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	49		50		51		
Refrigerant Piping Diameter	High Pressure	mm (in.)	22.2 (7/8) Brazed						
	Low Pressure	mm (in.)	28.58 (1-1/8) Brazed						
Set Model									
Model			PQHY-P200YLM-A	PQHY-P200YLM-A	PQHY-P250YLM-A	PQHY-P200YLM-A	PQHY-P250YLM-A	PQHY-P250YLM-A	
Circulating Water	Water Flow Rate	m³/h	5.76 + 5.76						
		L/min	96 + 96						
		cfm	3.4 + 3.4						
	Pressure Drop	kPa	24						
	Operating Volume Range	kW	3.0 + 3.0 ~ 7.2 + 7.2						
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	4.8		6.2		4.8		6.2
External Finish			Galvanised Steel Sheets						
External Dimensions HxWxD		mm	1,100 x 880 x 550						
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15MPa (601 psi)						
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection						
	Compressor		Over-Heat Protection						
Refrigerant	Type x Original Charge		R410A x 5.0 kg						
Net Weight		kg	172						
Heat Exchanger			Plate Type						
			Water Volume in Plate	L	5.0				
			Water Pressure Max.	MPa	2.0				
Optional Parts			Heat Source Twinning Kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1						

Notes:

*1, *2Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°CDB.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - R2 Series

PQRY-P YSLM-A (HEAT RECOVERY)



Model			PQRY-P550YSLM-A		PQRY-P600YSLM-A		PQRY-P700YSLM-A		
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz						
Cooling Capacity (Nominal)*1		kW	63.0		69.0		80.0		
		kcal/h	55,000		60,000		68,800		
		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	
Temp. Range of Cooling	EER	kW/kW	5.45		5.37		5.43		
	Indoor	W.B.	15.0~24.0°C						
	Calculating Water	C°	10.0~45.0°C						
Heating Capacity (Nominal)*2		kW	69.0		76.5		88.0		
		kcal/h	60,000		65,800		75,700		
		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	
Temp. Range of Heating	COP	kW/kW	6.10		6.00		5.97		
	Indoor	D.B.	15.0~27.0°C						
	Calculating Water	C°	10.0~45.0°C						
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity of Heat Source Unit Capacity						
	Model/Quantity		P15~P250/2~50						
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	55		57		55		
Refrigerant Piping Diameter	High Pressure	mm	22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)			28.58 (1-1/8) Brazed			
	Low Pressure	mm	28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed	
Set Model									
Model			PQRY-P300YLM-A	PQRY-P250YLM-A	PQRY-P300YLM-A	PQRY-P300YLM-A	PQRY-P350YLM-A	PQRY-P350YLM-A	
Circulating Water	Water Flow Rate	m³/h	5.76 + 5.76						
		L/min	96 + 96			120 + 120			
		cfm	3.4 + 3.4			4.2 + 4.2			
	Pressure Drop	kPa	24				44		
	Operating Volume Range	kW	3.0 + 3.0 ~ 7.2 + 7.2				4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Type		Inverter Scroll Hermetic Compressor						
	Starting Method		Inverter						
	Motor Output	kW	7.7	6.2	7.7		9.5		
External Finish			Galvanised Steel Sheets						
External Dimensions HxWxD		mm	1,100 x 880 x 550				1,450 x 880 x 550		
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)						
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection						
	Compressor		Over-Heat Protection						
Refrigerant	Type x Original Charge		R410A x 5.0 kg				R410A x 6.0 kg		
Net Weight		kg	172				216		
Heat Exchanger			Plate Type						
	Water Volume in Plate	L	5.0						
	Water Pressure Max.	MPa	2.0						
Optional Parts			Heat Source Twinning Kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC Controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1						

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WR2 Series



PQRY-P YSLM-A (HEAT RECOVERY)

Model			PQHY-P750YSLM-A		PQHY-P800YSLM	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	85.0		90.0	
		kcal/h	73,100		77,400	
		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			
Temp. Range of Cooling	Indoor	W.B.	15.0~24.0°C			
	Calculating Water	C°	10.0~45.0°C			
Heating Capacity (Nominal)*2		kW	95.0		100.0	
		kcal/h	81,700		86,000	
		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			
Temp. Range of Heating	Indoor	D.B.	15.0~27.0°C			
	Calculating Water	C°	10.0~45.0°C			
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity of Heat Source Unit Capacity			
	Model/Quantity		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	55			
Refrigerant Piping Diameter	High Pressure	mm	28.58 (1-1/8) Brazed			
	Low Pressure	mm	34.93 (1-3/8) Brazed			
Set Model						
Model			PQRY-P400YLM-A	PQRY-P350YLM-A	PQRY-P400YLM-A	PQRY-P400YLM-A
Circulating Water	Water Flow Rate	m³/h	7.20 + 7.20			
		L/min	120 + 120			
		cfm	4.2 + 4.2			
	Pressure Drop	kPa	44			
	Operating Volume Range	kW	4.5 + 4.5 ~ 11.6 + 11.6			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	10.7	9.5	10.7	
External Finish			Galvanised Steel Sheets			
External Dimensions HxWxD		mm	1,450 x 880 x 550			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection			
	Compressor		Over-Heat Protection			
Refrigerant	Type x Original Charge		R410A x 6.0 kg			
Net Weight		kg	216			
Heat Exchanger			Plate Type			
	Water Volume in Plate	L	5.0			
	Water Pressure Max.	MPa	2.0			
Optional Parts			Heat Source Twinning Kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC Controller: CMB-P1016V-HA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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

SPECIFICATIONS

HEAT SOURCE UNIT - WR2 Series

PQRY-P YSLM-A (HEAT RECOVERY)



Model			PQRY-P850YSLM-A		PQRY-P900YSLM-A	
Power Source			3-Phase 4-Wire 380-400-415 V 50/60 Hz			
Cooling Capacity (Nominal)*1		kW	96.0		101.0	
		kcal/h	82,600		86,900	
		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 Cooling	Indoor	W.B.	15.0~24.0°C			
	Calculating Water	C°	10.0~45.0°C			
Heating Capacity (Nominal)*2		kW	108.0		113.0	
		kcal/h	92,900		97,200	
		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 Heating	Indoor	D.B.	15.0~27.0°C			
	Calculating Water	C°	10.0~45.0°C			
Indoor Unit Connectable	Total Capacity		50~150% of Outdoor Unit Capacity of Heat Source Unit Capacity			
	Model/Quantity		P15~P250/2~50			
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	56		57	
Refrigerant Piping Diameter	High Pressure	mm (in.)	28.58 (1-1/8) Brazed			
	Low Pressure	mm (in.)	41.28 (1-5/8) Brazed			
Set Model						
Model			PQRY-P450YLM-A	PQRY-P400YLM-A	PQRY-P450YLM-A	PQRY-P450YLM-A
Circulating Water	Water Flow Rate	m³/h	7.20 + 7.20			
		L/min	120 + 120			
		cfm	4.2 + 4.2			
	Pressure Drop	kPa	44			
	Operating Volume Range	kW	4.5 + 4.5 ~ 11.6 + 11.6			
Compressor	Type		Inverter Scroll Hermetic Compressor			
	Starting Method		Inverter			
	Motor Output	kW	11.6	10.7	11.6	
External Finish			Galvanised Steel Sheets			
External Dimensions HxWxD		mm	1,450 x 880 x 550			
Protection Devices	High Pressure Protection		High Pressure Sensor, High Pressure Switch at 4.15 MPa (601 psi)			
	Inverter Circuit (COMP.)		Over-Heat Protection, Over-Current Protection			
	Compressor		Over-Heat Protection			
Refrigerant	Type x Original Charge		R410A x 6.0 kg			
Net Weight		kg	216			
Heat Exchanger			Plate Type			
			Water Volume in Plate	L	5.0	
			Water Pressure Max.	MPa	2.0	
Optional Parts			Heat Source Twinning Kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC Controller: CMB-P1016V-HA1 Sub-BC Controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			

Notes:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference
Cooling	27°C DB/19°C WB	35°C DB/24°C WB	7.5m	0m
Heating	20°C DB	7°C DB/6°C WB		

*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

*The ambient relative humidity of the heat source unit needs to be kept below 80%.

*The heat source unit should not be installed outdoors.

*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.

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

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



Advanced Energy-saving Technologies

S (HEAT PUMP) SERIES

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



PUMY-SP



The PUMY-SP series allows the connection of multiple indoor units to a single outdoor unit. Choose from City Multi indoor units using the standard branch pipework, M-S-P series indoor units via a multi split system branch box, or a combination of both for selection convenience.

PUMY-SP SERIES LINEUP

Unit Dimension: (w) 1050 x (d) 330 (+25) x (h) 981 mm

PUMY-SP80V/YKMD **NEW**

Cooling Capacity: 9.0kW
Cooling Efficiency-EER: 4.27/AEER: 3.35
Heating Capacity: 10.0kW
Heating Efficiency-COP: 4.41/ACOP: 3.62

PUMY-SP125V/YKMD

Cooling Capacity: 14.0kW
Cooling Efficiency-EER: 3.65/AEER: 3.29
Heating Capacity: 16.0kW
Heating Efficiency-COP: 4.10/ACOP: 3.56

PUMY-SP112V/YKMD

Cooling Capacity: 12.5kW
Cooling Efficiency-EER: 4.03/AEER: 3.31
Heating Capacity: 14.0kW
Heating Efficiency-COP: 4.42/ACOP: 3.72



PUMY-SP140V/YKMD

Cooling Capacity: 15.5kW
Cooling Efficiency-EER: 3.54/AEER: 3.40
Heating Capacity: 16.5kW
Heating Efficiency-COP: 4.10/ACOP: 3.55



FEATURES

- » Heating & Cooling
- » Inverter Technology
- » Increased Fan Opening
- » Inflexed Fan
- » Light Weight
- » Compact 980mm Height
- » Design Flexibility
- » Flexible Connection
- » Energy Efficient
- » Demand Response Capable
- » Quiet Mode*
- » Guaranteed Operating Range
Cooling at -5°C ~ 52°C
Heating at -20°C ~ 15°C



Wi-Fi Connectable
Optional upgrade adapter required per indoor unit.

PUMY-P



PUMY-P series condensing units allow the selection of a suitable model indoor unit for the living environment, while maintaining extended pipe runs to allow convenient location for the condensing unit.

PUMY-P SERIES LINEUP

Unit Dimension: (w) 1050 x (d) 330 (+25) x (h) 1338 mm

PUMY-P112V/YKMD

Cooling Capacity: 12.5kW
Cooling Efficiency-EER: 4.48/AEER: 4.13(V) 4.07(Y)
Heating Capacity: 14.0kW
Heating Efficiency-COP: 4.47/ACOP: 4.20(V) 4.14(Y)

PUMY-P125V/YKMD

Cooling Capacity: 14.0kW
Cooling Efficiency-EER: 4.05/AEER: 3.76(V) 3.71(Y)
Heating Capacity: 16.0kW
Heating Efficiency-COP: 4.28/ACOP: 4.03 (V) 3.99 (Y)



PUMY-P140V/YKMD

Cooling Capacity: 15.5kW
Cooling Efficiency-EER: 3.43/AEER: 3.22(V) 3.19(Y)
Heating Capacity: 18.0kW
Heating Efficiency-COP: 4.03/ACOP: 3.81(V) 3.78(Y)

PUMY-P200YKMD **NEW**







Cooling Capacity: 22.4kW
Cooling Efficiency-EER: 3.60/AEER: 3.17
Heating Capacity: 25.0kW
Heating Efficiency-COP: 4.17/ACOP: 3.78














FEATURES

- » Heating & Cooling
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- » Flexible Connection
- » Energy Efficient
- » Demand Response Capable
- » Quiet Mode*
- » Guaranteed Operating Range
Cooling at -5°C ~ 52°C
Heating at -20°C ~ 15°C

COMPATIBLE INDOOR UNIT RANGE*

TYPE		MODEL NAME	MODEL
Ceiling Cassette	4-way Airflow	PLFY-P-VEM-E	
		PLFY-P-VFM-E	
	2-way Airflow	PLFY-P-VLMD-E	
	1-way Airflow	PMFY-P-VBM-E	
Ceiling Concealed		PEFY-P-VMR-L	
		PEFY-P-VMS1(L)-E	
		PEFY-P-VMHS-E	
		PEFY-P-VMA-E	
		PEFY-P-VMX	
	Fresh Air Intake	PEFY-P-VMH-E-F	
Ceiling Suspended		PCFY-P-VKM-E	
Wall Mounted		PKFY-P-VLM-E	
		PKFY-P-VKM-E	
Floor Standing / Floor Mounted Concealed		PFFY-P-VKM-E2	
		PFFY-P-VLEM-E	
		PFFY-P-VLRM-E PFFY-P-VLRMM-E	

*Connectible indoor unit varies depending on capacity.

TYPE	SERIES	MODEL NAME	MODEL
Wall Mounted	LN Series	MSZ-LN	
	EF Series	MSZ-EF	
	G Series	MSZ-GE	
	AP Series	MSZ-AP	
Floor Standing		MFZ-KJ	
4-way Cassette	PLA-M		
	SLZ-KF		
1-way Cassette	MLZ-KP		
Ceiling Concealed	SEZ-KD		
	PEAD-M		
Ceiling Suspended	PCA-M		

MIXED SYSTEM

QTY	Model	80			112		125		140		200
Branch Box 1 Unit	City Multi	5	4	2	5	4	5		5		5
	Branch Box	2	3	4	4	5	5		5		5
Branch Box 2 Units	City Multi	3	2	-	3	2	3	2	3	2	3
	Branch Box	3	4	-	5	6	6	7	7	8	8

Branch Box Features



PAC-MK33BC



PAC-MK53BC

Flexible Installation Indoor

The branch box can be installed in the ceiling, thus improving appearance. Maintenance is also easier through access to the circuit board and other inner parts by simply removing the controller cover, compared to the previous model.

Flexible Installation Outdoor*¹

The branch box can be installed outdoors by using the optional cover*² for outdoor installation. Eliminating the need for a special maintenance hole in the ceiling.

*¹ Not suitable in corrosive environments or near coastal areas.

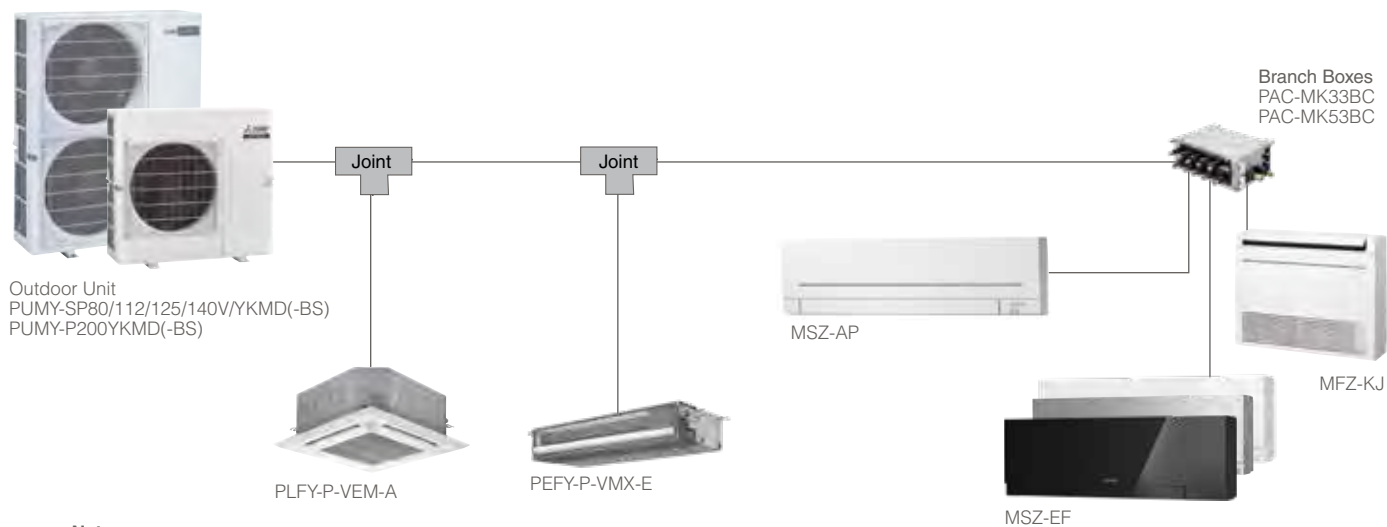
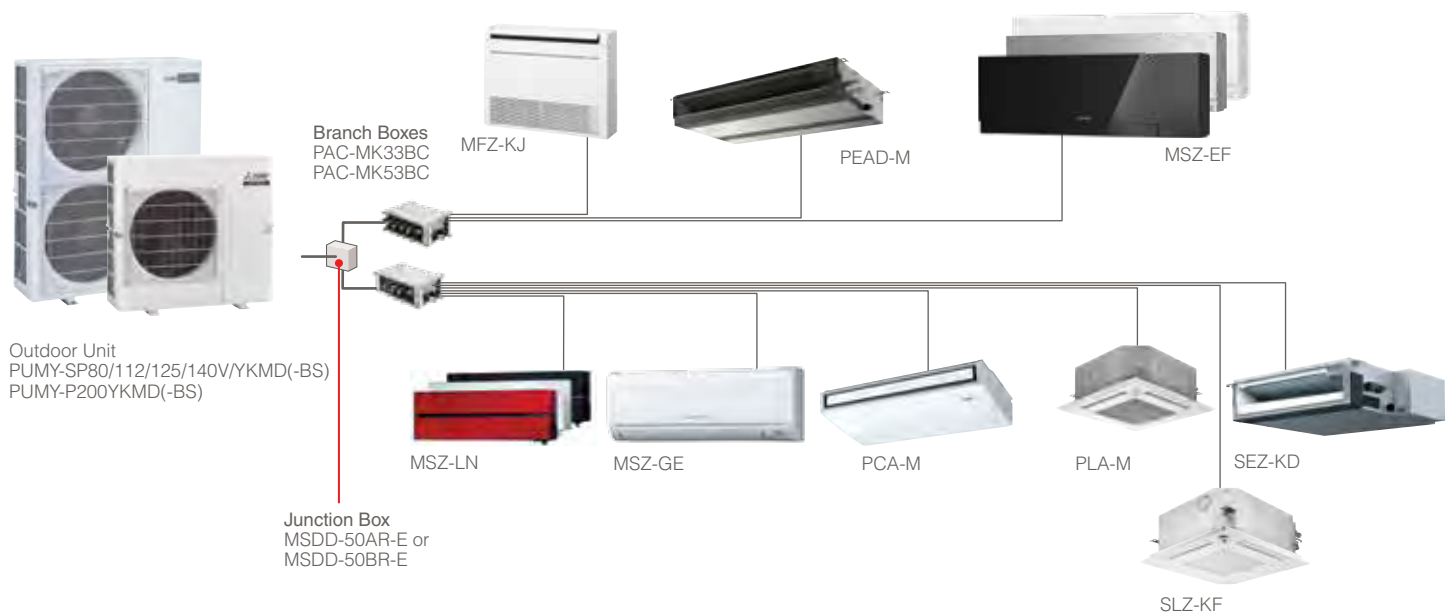
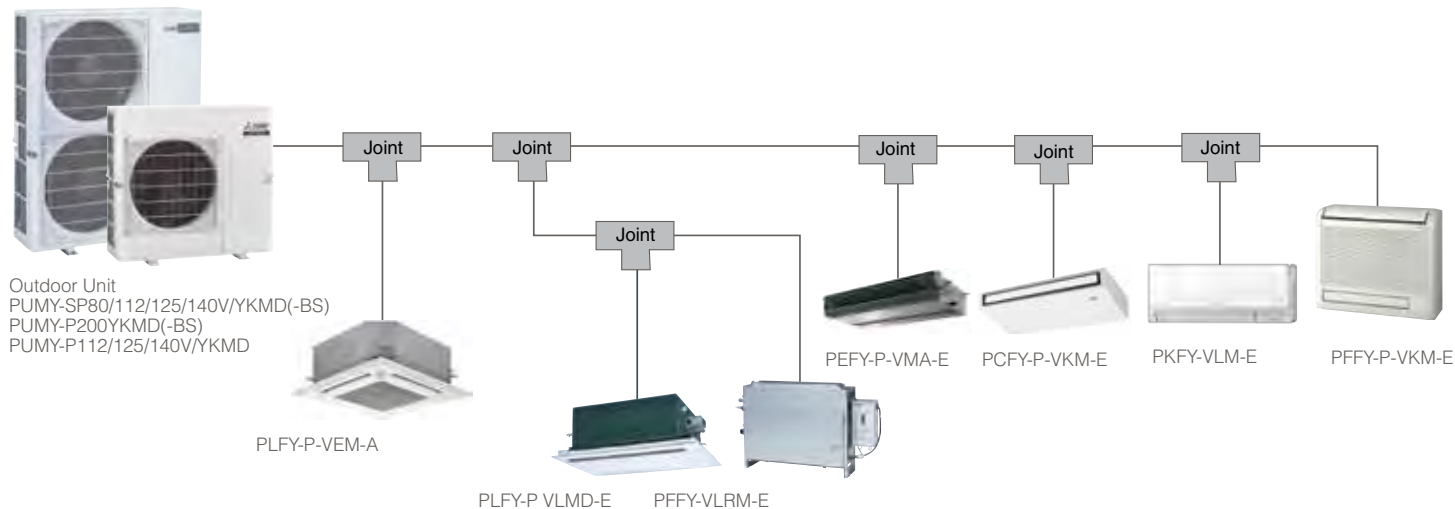
*² PAC-AK350CVR-E

Notes:

PUMY-P112/125/140 V/YKMD are not compatible with Branch Box, therefore M/S/P Series indoor units are not connectable.

PUMY SUMMARY

Installation with both City Multi indoor units via T-Piece and Multi-Split indoor units via branchbox.



Notes:

PUMY-P112/125/140 V/YKMD are not compatible with Branch Box, therefore M/S/P Series indoor units are not connectable.

*Connectible indoor unit varies depending on capacity.

SPECIFICATIONS

OUTDOOR UNIT - S Series



PUMY-SP VKMD-A(-BS)

SERIES			PUMY-SP (Single Fan)											
Model			PUMY-SP80VKMD-A		PUMY-SP80YKMD-A		PUMY-SP112VKMD-A		PUMY-SP112YKMD-A		PUMY-SP125VKMD-A		PUMY-SP125YKMD-A	
Power Source			VKMD: 1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz YKMD: 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz											
Cooling Capacity (Nominal)*1		kW	9.0				12.5				14.0			
	Power Input	kW	2.11				3.10				3.84			
	Current Input	A	9.79 - 9.36 - 8.97	3.37 - 3.21 - 3.09		14.38 - 13.75 - 13.18	4.96 - 4.71 - 4.54		17.81 - 17.04 - 16.33	6.14 - 5.83 - 5.62				
	EER	kW	4.27				4.03				3.65			
	AEER	kW	3.35				3.31				3.29 *3			
Temperature Range of Cooling	Indoor	W.B	15.0 ~ 24.0 °C											
	Outdoor	D.B	-5.0 ~ 52.0 °C *3 *4 *5											
Heating Capacity (Nominal)*2		kW	10.0				14.0				16.0			
	Power Input	kW	2.27				3.17				3.90			
	Current Input	A	10.53 - 10.07 - 9.65	3.63 - 3.45 - 3.32		14.70 - 14.06 - 13.48	5.07 - 4.82 - 4.64		18.09 - 17.30 - 16.58	6.24 - 5.93 - 5.71				
	COP	kW	4.41				4.42				4.10			
	ACOP	kW	3.62				3.72				3.56			
Temperature Range of Heating	Indoor	W.B	15 ~ 27 °C											
	Outdoor	D.B	-20 ~ 15 °C											
Indoor Unit Connectable	Total Capacity		50% to 130% of Outdoor Unit Capacity											
	Model/Quantity		P10-P100/9				P15-P140/9				P15-P140/10			
Sound Pressure Level (measured in anechoic room)		dB	51/54				52/54				53/56			
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8) Flare											
	Gas Pipe	mm (in.)	15.88 (5/8) Flare											
Fan	Type x Quantity		Propeller Fan x 1											
	Airflow Rate	m³/min	75				77				83			
		L/s	1250				1283				1383			
		cfm	2649				2719				2931			
	Control, Driving Mechanism		DC Control											
	Motor Output		kW		0.20 x 1									
Compressor	Type x Quantity		Twin Rotary Hermetic Compressor x 1											
	Manufacturer		Mitsubishi Electric Corporation											
	Starting Method		Inverter											
	Motor Output	kW	2.1				3.1				3.5			
	Lubricant		FV50S (1.4 litre)											
External Finish			Galvanised Steel Sheet Munsell No. 3Y 7.8/1.1											
External Dimension (H x W x D)		mm	981 x 1,050 x 330 (+25)											
Protection Devices	High Pressure Protection		High Pressure Switch											
	Inverter Circuit (COMP./FAN)		Overcurrent Detection, Overheat detection (Heat Sink Thermistor)											
	Compressor		Compressor Thermistor, Overcurrent Detection											
	Fan Motor		Overheating, Voltage Protection											
Refrigerant	Type x Original Charge		R410A x 3.5 kg											
	Control		Electronic Expansion Valve											
Net Weight		kg	93 *5 *6				94 *7		93 *6		94 *7			
Heat Exchanger			Cross Fin and Copper Tube											
HIC Circuit (HIC: Heat Inter-Changer)			HIC Circuit											
Defrosting Method			Reversed Refrigerant Circuit											
Drawing	External		RK01J091											
	Wiring		BH79N194		BH79N195		BH79N194		BH79N195		BH79N194		BH79N195	
Standard Attachment	Document		Installation Manual											
	Accessory		Grounded Lead Wire											
Optional Parts			Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E											

Remarks:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference	External Static Pressure (Outdoor Unit)
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m	0Pa
Heating	20°C DB	7°C DB/6°C WB			

*3 MEPS Part load.

*4 10 to 52.; when connecting following models: PKFY-P15/20/25VBM, PKFY-

P10/15/20/25/32VLM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM, and M series, S series, and P series type indoor unit with branch box, M series type indoor unit with connection kit.

*5 -15 to 52.; when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *4.

*6 94 (207), for PUMY-SP80/112/125/140VKMD.TH-A-BS.*6 93, for PUMY-SP112/125/140VKMD.TH-A-BS.

Notes:

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

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

*7 95 (209), for PUMY-SP112/125/140YKMD.TH-A-BS.

*8 When connecting 7 indoor units via branch box, connectable citymulti indoor units are 3; connecting 8 indoor units via branch box, connectable citymulti indoor units are 2.

SPECIFICATIONS

OUTDOOR UNIT - S Series

PUMY-P VKM-A(-BS)



SERIES			PUMY-SP (Single Fan)		PUMY-P (Twin Fan)
Model			PUMY-SP140VKMD-A	PUMY-SP140YKMD-A	PUMY-P200YKMD-A
Power Source			VKMD: 1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz YKMD: 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz		
Cooling Capacity (Nominal)*1		kW	15.5		22.4
	Power Input	kW	4.38		6.22
	Current Input	A	20.32 - 19.43 - 18.62	7.00 - 6.65 - 6.41	10.16 - 9.65 - 9.30
	EER	kW	3.54		3.60
	AEER	kW	3.40 *3		3.17
Temperature Range of Cooling	Indoor	W.B	15.0 ~ 24.0 °C		
	Outdoor	D.B	-5.0 ~ 52.0°C *4 *5		
Heating Capacity (Nominal)*2		kW	16.5	16.5	25.0
	Power Input	kW	4.02		6.00
	Current Input	A	18.65 - 17.83 - 17.09	6.24 - 5.93 - 5.71	9.80 - 9.31 - 8.98
	COP	kW	4.10		4.17
	ACOP	kW	3.55		3.78
Temperature Range of Heating	Indoor	W.B	15 ~ 27 °C		
	Outdoor	D.B	-20 ~ 15 °C		
Indoor Unit Connectable	Total Capacity		50% to 130% of Outdoor Unit Capacity		
	Model/Quantity		P15-P140/12		P15-P200/12
Sound Pressure Level (measured in anechoic room)		dB	54/56		57/61
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8) Flare *8		
	Gas Pipe	mm (in.)	15.88 (5/8) Flare		19.05 (3/4) Flare
Fan	Type x Quantity		Propeller Fan x 1		Propeller Fan x 2
	Airflow Rate	m³/min	83	120	134
		L/s	1,383	2,000	2,233
		cfm	2,931	4,237	4,732
	Control, Driving Mechanism		DC Control		
	Motor Output	kW	0.20 x 1		0.20 + 0.20
Compressor	Type x Quantity		Twin Rotary Hermetic Compressor x 1		Scroll Hermetic Compressor x 1
	Manufacturer		Mitsubishi Electric Corporation		
	Starting Method		Inverter		
	Motor Output	kW	3.7		5.3
External Finish			Galvanised Steel Sheet Munsell No. 3Y 7.8/1.1		
External Dimension (H x W x D)		mm	981 x 1,050 x 330 (+25)		1,338 x 1,050 x 330 (+25)
Protection Devices	High Pressure Protection		High Pressure Switch		
	Inverter Circuit (COMP./FAN)		Overcurrent Detection, Overheat Detection (Heat Sink Thermistor)		
	Compressor		Compressor Thermistor, Overcurrent Detection		
	Fan Motor		Overheating, Voltage Protection		
Refrigerant	Type x Original Charge		R410A x 4.8kg		R410A x 7.3kg
	Control		Electronic Expansion Valve		Linear Expansion Valve
Net Weight		kg	93 *6	94 *7	138 *9
Heat Exchanger			Cross Fin and Copper Tube		
HIC Circuit (HIC: Heat Inter-Changer)			HIC Circuit		
Defrosting Method			Reversed Refrigerant Circuit		
Drawing	External		RK01J091		RK01J635
	Wiring		BH79N194	BH79N195	VG79J111
Standard Attachment	Document		Installation Manual		
	Accessory		Ground Lead Wire		Ground Lead Wire x 1
Optional Parts			Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E		

Remarks:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference	External Static Pressure (Outdoor Unit)
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m	0Pa
Heating	20°C DB	7°C DB/6°C WB			

*3 MEPS Part load.

*4 10 to 52°; when connecting following models: PKFY-P15/20/25VBM, PKFY-P10/15/20/25/32VLM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM, and M series, S series, and P series type indoor unit with branch box, M series type indoor unit with connection kit.

*5 -15 to 52°; when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *4.

*6 94 (207), for PUMY-SP80/112/125/140VKMD.TH-A-BS.*6 93, for PUMY-SP112/125/140VKMD.TH-A-BS.

*7 95 (209), for PUMY-SP112/125/140YKMD.TH-A-BS.

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

*9 139(306), for PUMY-P200YKMD-A-BS.

SPECIFICATIONS

OUTDOOR UNIT - S Series

PUMY-P YKM-A(-BS)



Series			PUMY-P (Twin Fan)					
Model			PUMY-P112VKMD-A	PUMY-P112YKMD-A	PUMY-P125VKMD-A	PUMY-P125YKMD-A	PUMY-P140VKMD-A	PUMY-P140YKMD-A
Power Source			VKMD: 1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz YKMD: 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz					
Cooling Capacity (Nominal)*1		kW	12.5		14.0		15.5	
	Power Input	kW	2.79		3.46		4.52	
	Current Input	A	12.32	4.24	15.27	5.26	19.95	6.87
	EER	kW	4.48		4.05		3.43	
	AEER	kW	4.13	4.07	3.76	3.71	3.22	3.19
Temperature Range of Cooling	Indoor	W.B	15.0 ~ 24.0 °C					
	Outdoor	D.B	-5.0 ~ 46.0°C	-5.0 ~ 52.0 °C *4	-5.0 ~ 46.0°C	-5.0 ~ 52.0 °C *4	-5.0 ~ 46.0°C	-5.0 ~ 52.0 °C *4
Heating Capacity (Nominal)*2		kW	14.0		16.0		18.0	
	Power Input	kW	3.13		3.74		4.47	
	Current Input	A	13.82	4.76	16.51	5.68	19.73	6.79
	COP	kW	4.47		4.28		4.03	
	ACOP	kW	4.20	4.14	4.03	3.99	3.81	3.78
Temperature Range of Heating	Indoor	W.B	15 ~ 27 °C					
	Outdoor	D.B	-20 ~ 15 °C					
Indoor Unit Connectable	Total Capacity		50% to 130% of Outdoor Unit Capacity					
	Model/Quantity		15 - 125/9		15 - 140/10		15 - 140/12	
Sound Pressure Level (measured in anechoic room)		dB	49/51		50/52		51/54	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8) Flare *3					
	Gas Pipe	mm (in.)	15.88 (5/8) Flare					
Fan	Type x Quantity		Propeller Fan x 2					
	Airflow Rate	m³/min	110				120	
		L/s	1,833				2,000	
		cfm	3,884				4,237	
	Control, Driving Mechanism		DC Control					
	Motor Output	kW	0.06 + 0.06					
Compressor	Type x Quantity		Scroll Hermetic Compressor x 1					
	Manufacturer		Mitsubishi Electric Corporation					
	Starting Method		Inverter					
	Motor Output	kW	3.0		3.5		4.0	
	Lubricant		FV50S (2.3 litre)					
External Finish			Galvanised Steel Sheet Munsell No. 3Y 7.8/1.1					
External Dimension (H x W x D)		mm	1,338 x 1,050 x 330 (+25)					
Protection Devices	High Pressure Protection		High Pressure Switch					
	Inverter Circuit (COMP/FAN)		Overcurrent Detection, Overheat Detection (Heat Sink Thermistor)					
	Compressor		Compressor Thermistor, Overcurrent Detection					
	Fan Motor		Overheating, Voltage Protection					
Refrigerant	Type x Original Charge		R410A x 4.8kg					
	Control		Electronic Expansion Valve					
Net Weight		kg	123	125	123	125	123	125
Heat Exchanger			Cross Fin and Copper Tube					
HIC Circuit (HIC: Heat Inter-Changer)			HIC Circuit					
Defrosting Method			Reversed Refrigerant Circuit					
Drawing	External		BK01N346	BK01N339	BK01N346	BK01N339	BK01N346	BK01N339
	Wiring		BH78B813	BH78B814	BH78B813	BH78B814	BH78B813	BH78B814
Standard Attachment	Document		Installation Manual					
	Accessory		Grounded Lead Wire					
Optional Parts			Joint: CMY-Y62-G-F Header: CMY-Y64/68-G-F					

Remarks:

*1, *2 Nominal conditions.

	Indoor	Outdoor	Pipe Length	Level Difference	External Static Pressure (Outdoor Unit)
Cooling	27°C DB/19°C WB	35°C DB	7.5m	0m	0Pa
Heating	20°C DB	7°C DB/6°C WB			

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

*4 10 to 52°C, when connecting following models: PKFY-P15/20/25VBM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM type indoor unit; and M-Series, S-Series and P-Series type indoor unit.

Notes:

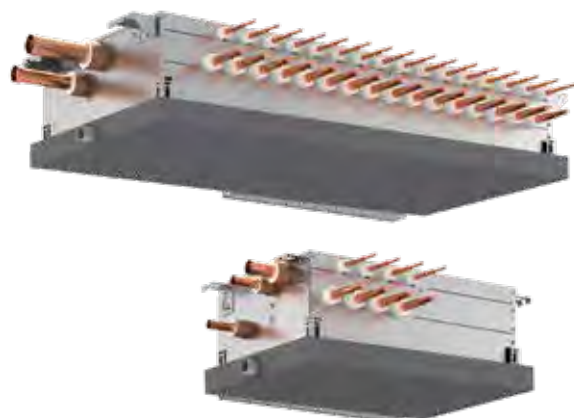
1. Due to continuing improvement, above specifications may be subject to change without notice.



The Secret of CITY MULTI Heat Recovery System Lies in the BC Controller

FOR R2 AND WR2 SERIES

The BC Controller houses a liquid/refrigerant separator, allowing the outdoor/heat source unit to deliver a mixture (2-phase) of hot gas for heating and liquid refrigerant for cooling, all through the same pipe. Three pipe systems allocate a pipe to each of these phases. When this mixture arrives at the BC Controller, it is separated and the correct phase delivered to each indoor unit depending on the individual requirement of either heating or cooling.



1 The capacity requirement of the system controls the compressor frequency, and the mode of heat exchanger operation.

2 R2/WR2 Refrigerant Circuit

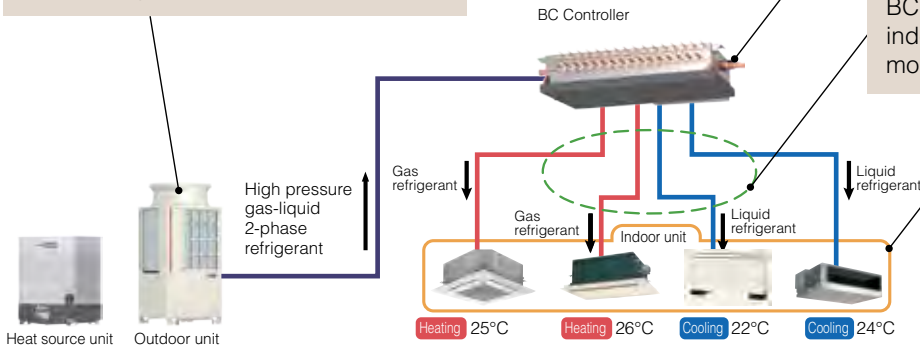
2-phase Gas-liquid refrigerant from outdoor unit is separated into gas and liquid refrigerant by the gas-liquid separator in BC Controller.

BC Controller divides refrigerant to each indoor unit according to the operation mode of each indoor unit.

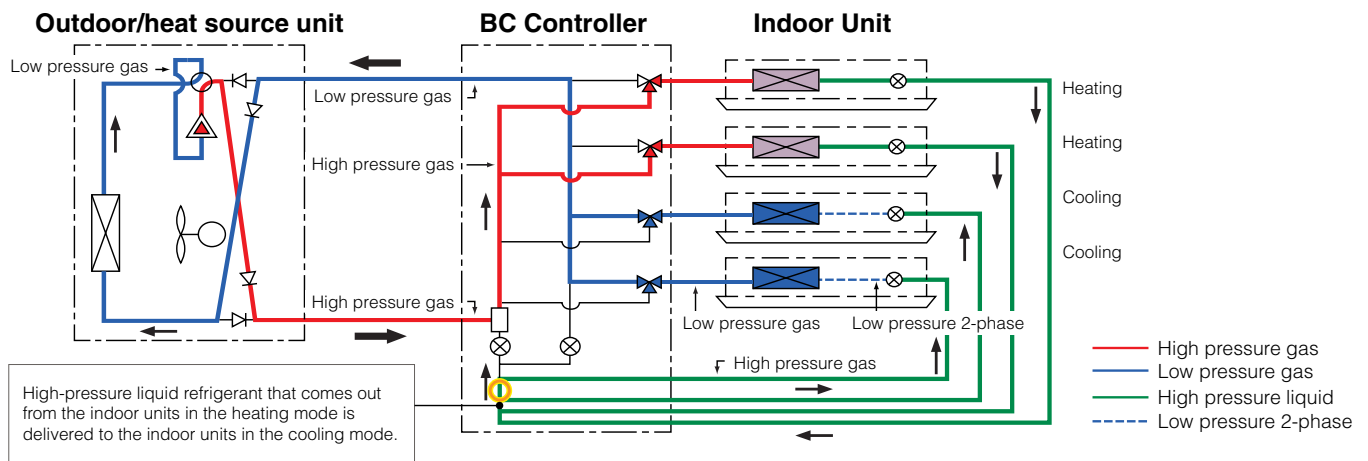
3 The LEV adjust the refrigerant flow by temperature difference between inlet and outlet.

Meet the demand of
--- cooling / heating flexibly.

Heating = gas refrigerant
Cooling = liquid refrigerant



Total heat recovery operation



BC Controller

Sub-BC controller connections increased

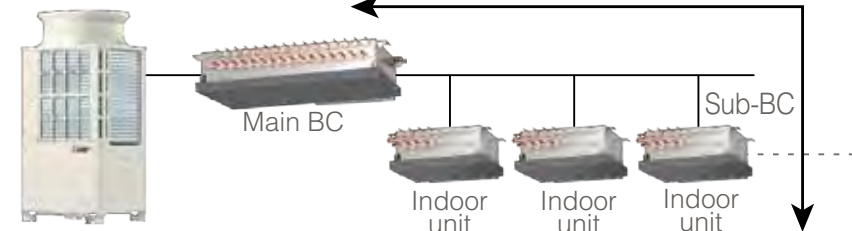
Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design. The line-branching method enables the creation of system designs that use less refrigerant.

Previous model



Only 2 sub-BC controller connections

Current model



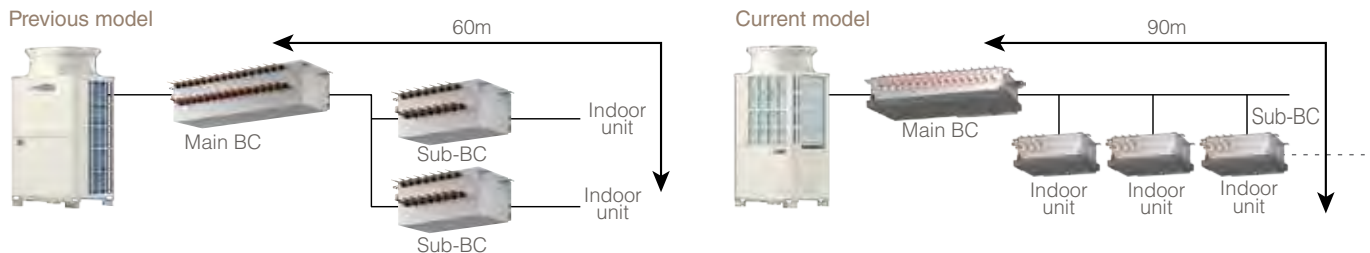
Connect up to 11 sub-BC controllers

OTHER FEATURES

Greater flexibility in refrigerant piping design

The piping length from the central BC controller to indoor units has been increased from 60m to 90m, providing greater flexibility in piping design.

*Sub-BC controllers should be used when piping length is 60m or more.



Main BC controller with increased connection capacity

The connection capacity of the main BC controller has been increased compared to previous controllers, allowing system designs with fewer units. The KA type which can be connected to units up to 124kW has been added to the product lineup to handle outdoor units with increased capacities.

Previous model

Type	Outdoor Unit Capacity
G	~40kW
GA	~73kW
HA	~101kW

Type	Total Indoor Unit Capacity
GB/HB (sub)	~40kW
Sub-BC (total)	~50kW

Current model

Type	Outdoor Unit Capacity
J	~40kW
JA	~101kW
KA	~124kW

Type	Total Indoor Unit Capacity
KB (sub)	~40kW
Sub-BC (total)	No limits

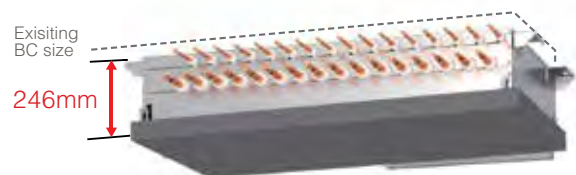
The JA type can handle up to the conventional GA and HA ranges

The KA type can be connected to units up to 124kW, has been added to the product lineup to handle outdoor units with increased capacities.

Reduced height

With an average lower height of 40.5mm compared to previous sub-BC controllers, the new design can be installed in ceilings with limited space.

* Servicing space is required.

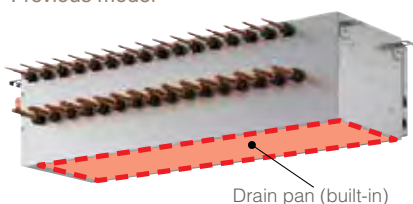


Reduction in height size

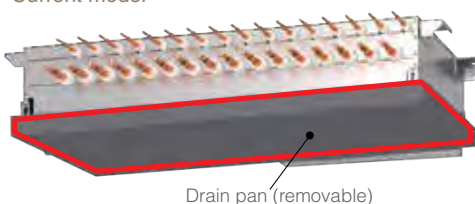
Improved accessibility to lower surface and serviceability

Previously, the drain pan on existing models were built into the bottom and could be removed. The drain pan of the new model is installed on the lower surface like a cover, making it easily removable for service from below. Serviceability is therefore improved compared to conventional units, which need to be serviced from the side.

Previous model



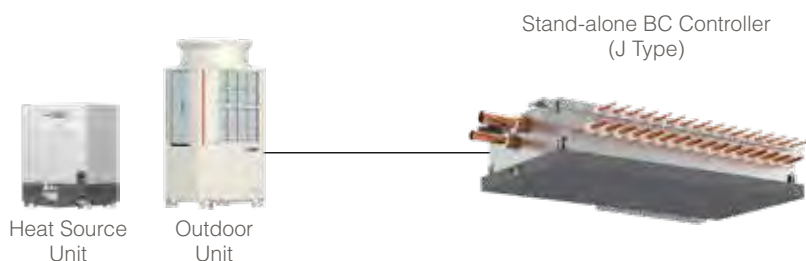
Current model



LINEUP OF BC CONTROLLERS

The BC controller lineup includes the J type (used alone), the JA and KA types (used as a main-BC controller), and the KB type (used as a sub-BC controller).

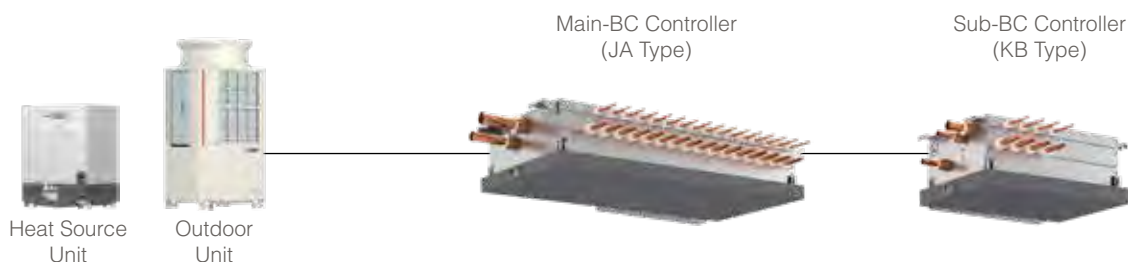
System with a single BC Controller



Stand-alone Type (J Type)

Model	CMB-P104V-JA	CMB-P106V-J	CMB-P108V-J	CMB-P1012V-J	CMB-P1016V-J
Number of Branches	4	6	8	12	16
Connectable Outdoor/Heat Source Unit Capacity	P200 to P350				

System with a multiple BC Controllers



Main BC Controller (JA and KA Types)

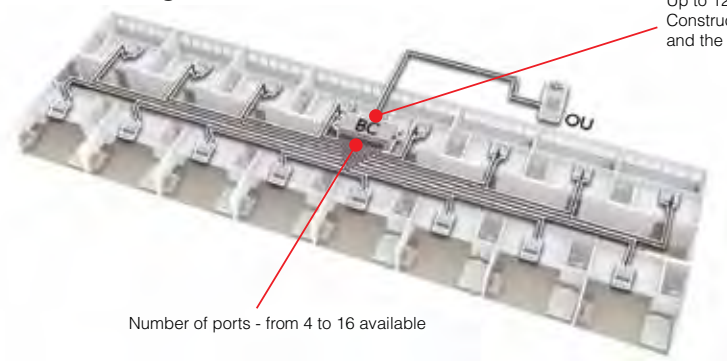
Model	CMB-P108V-JA	CMB-P1012V-JA	CMB-P1016V-JA	CMB-P1016V-KA
Number of Branches	8	12	16	16
Connectable Outdoor/Heat Source Unit Capacity	P200 to P900			P200 to P1100

Sub-BC Controller (KB Type)

Model	CMB-P104V-KB	CMB-P108V-KB
Number of Branches		12
Connectable Main-BC Controller	CMB-P108/1012/1016V-JA, CMB-P1016V-KA	

BC CONTROLLER DESIGN CAN BE SELECTED FROM VARIOUS PATTERNS DEPENDING ON USE

Pattern using multi-branch main BC controller



Up to 124kW can be connected to one main BC controller. Construction is easier as the number of piping connections and the suspension work can be reduced.

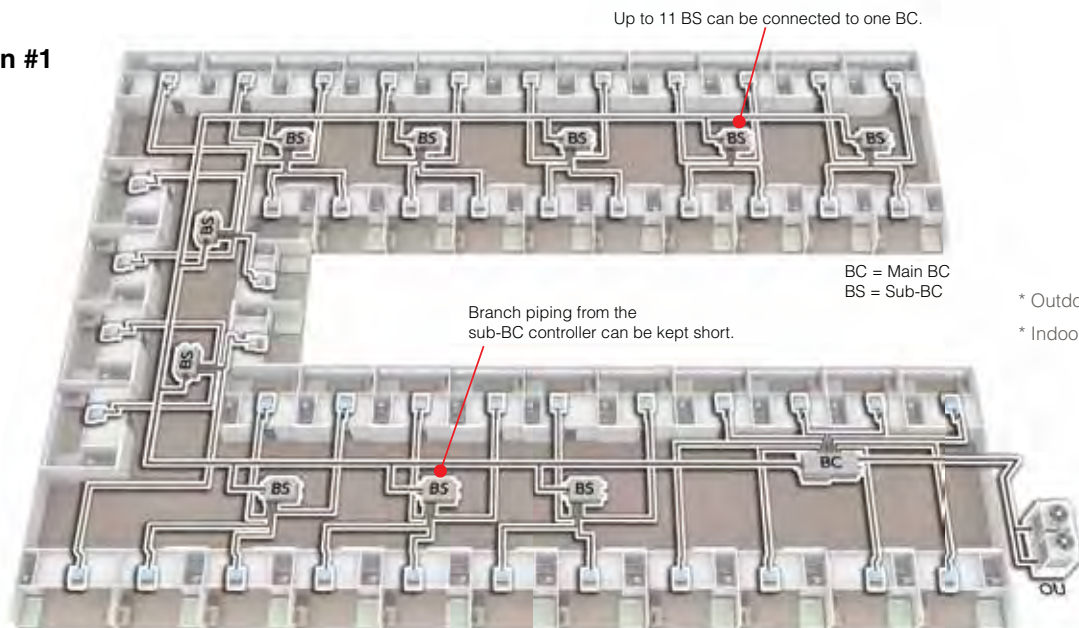


The line-branching method with a main BC controller and sub-BC controllers

The number of sub-BC controllers that can be connected has been increased from 2 to 11, and sub-BC controllers can now be installed closer to the indoor units, thus reducing both the total branch length compared to conventional models and the amount of refrigerant used.

- » Low number of piping connections, even across many rooms.
- » Low amount of refrigerant required.

Installation #1



BC = Main BC
BS = Sub-BC

- * Outdoor unit: 101kW
- * Indoor units: P25 x 48 units

COMPARISON OF PIPING DESIGN FOR 48 ROOMS

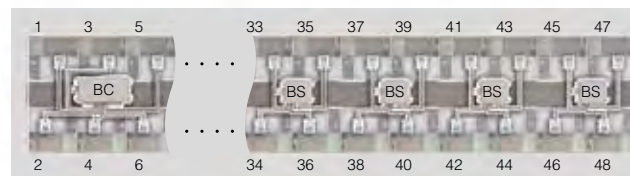
Previous model



Branch piping from sub-BC controller is long.

*The 16 branch BC controller is an older model and is not possible in this design.

Current model



The sub-BC controller can be installed near the indoor units, so that the branch piping can be greatly reduced. This also reduces the length of system piping, enabling using less refrigerant design.

Overall branch piping length reduced



Refrigerant amount reduced by 20%*

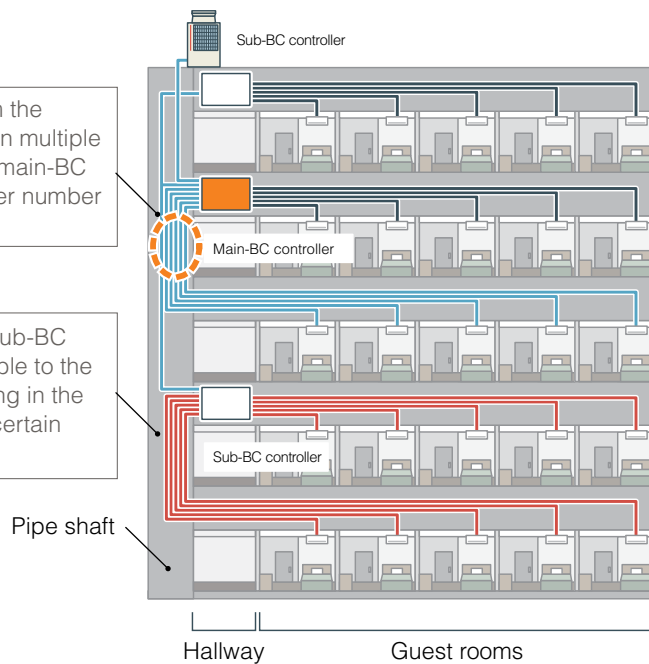
- * BC controllers: Existing HA + HB
(16-branch) x 2 units
- New JA + KB (4-branch) x 10 units

Installation #2

Conventional model

Connecting the pipes from the air conditioners installed on multiple levels of floors to a single main-BC controller requires a greater number of pipes.

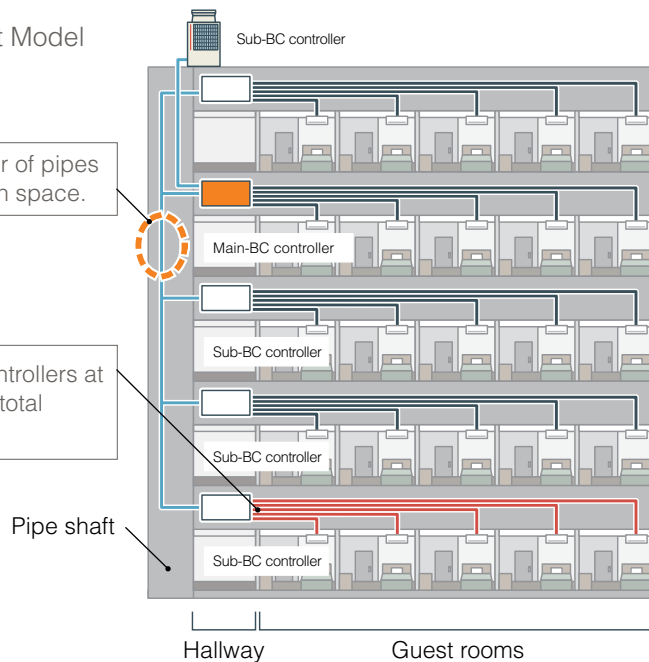
Originally, only up to two sub-BC controllers were connectable to the main-BC controller, resulting in the need for longer piping in certain applications.



Installation #2 | Current Model

The need for fewer number of pipes requires smaller installation space.

Installation of sub-BC controllers at each floor level reduced total piping length.

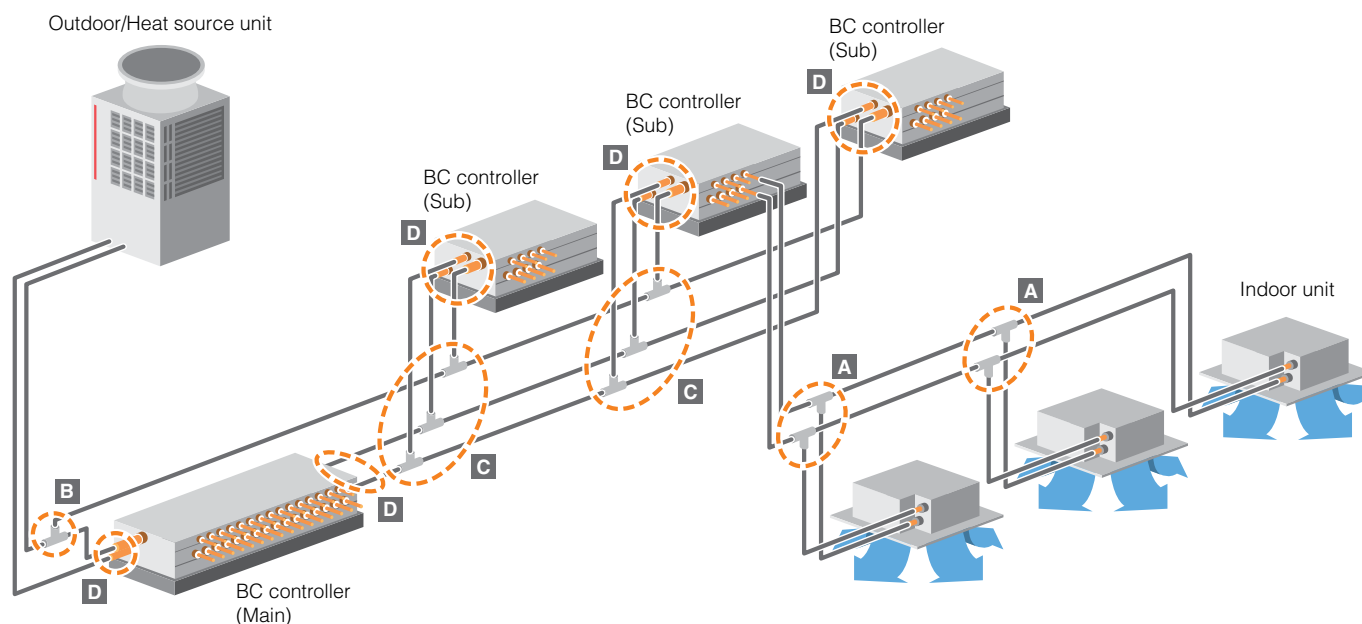


Refrigerant amount reduced by 20%*

- * Outdoor unit: 56kW
- * Indoor units: P20 x 25 units
- * BC controllers: Existing GA + HB (16-branch) x 2 units
New JA + KB (8-branch) x 4 units

OUTDOOR UNITS

For BC CONTROLLERS



A	Branch Joint	Between BC and Indoor Units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: - P200
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P201 - P250
B	Low Pressure Pipe Joint	Between Outdoor Units and Sub BC	CMY-R101S-G	Outdoor unit capacity: P200 - P650
			CMY-R102S-G	Outdoor unit capacity: P700 - P1100
C	Branch Joint	Between Main BC and Sub BC	CMY-R201S-G	Total down-stream indoor unit capacity: - P350
			CMY-R202S-G	Total down-stream indoor unit capacity: P351 - P600
			CMY-R203S-G	Total down-stream indoor unit capacity: P601-P650
			CMY-R204S-G	Total down-stream indoor unit capacity: P651 - P1000
			CMY-R205-G	Total down-stream indoor unit capacity: P1001
D	Reducer	Between Outdoor Units and BC	CMY-R301S-G	For J type (Outdoor unit capacity: P200 - P300)
			CMY-R302S-G	For JA type (Outdoor unit capacity: P200 - P900)
			CMY-R304S-G	For KA type (When using the Sub BC Controller)
		Between Main BC and Sub BC	CMY-R303S-G	For JA type (When using the Sub BC Controller)
			CMY-R305S-G	For KA type (When using the Sub BC Controller)
			CMY-R306S-G	For KB type
Branch Pipe (Header)			CMY-R160-J1	Joint for connecting to two nozzles

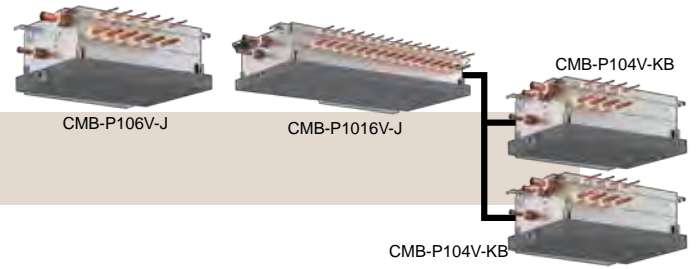
*1 Main BC Controller has two ports for Sub BC Controller. Low pressure pipe has to be branched from the outdoor unit. ("B" in the figure)

*2 Items "B" and "C" are not necessary when J-type BC Controller is used.

SPECIFICATIONS

BC CONTROLLER

CMB-P-V-J/JA/KA/KB



Model				CMB-P104V-J	CMB-P106V-J	CMB-P108V-J	CMB-P1012V-J	CMB-P106V-J								
Number of Branches				4		6		8		12		16				
Power Source				1-Phase 220-230-240 V												
Power Input	kW	50Hz	Cooling	0.067/0.076/0.085		0.097/0.110/0.123		0.127/0.144/0.161		0.186/0.211/0.236		0.246/0.279/0.312				
			Heating	0.030/0.034/0.038		0.045/0.051/0.057		0.060/0.068/0.076		0.090/0.102/0.114		0.119/0.135/0.151				
		60Hz	Cooling	0.054/0.061/0.067		0.078/0.088/0.097		0.102/0.115/0.127		0.150/0.168/0.186		0.198/0.222/0.246				
			Heating	0.024/0.027/0.030		0.036/0.041/0.045		0.048/0.054/0.060		0.072/0.081/0.090		0.096/0.108/0.119				
Current	kW	50Hz	Cooling	0.31/0.34/0.36		0.45/0.48/0.52		0.58/0.63/0.68		0.85/0.92/0.99		1.12/1.22/1.30				
			Heating	0.14/0.15/0.16		0.21/0.23/0.24		0.28/0.30/0.32		0.42/0.44/0.48		0.55/0.59/0.63				
		60Hz	Cooling	0.25/0.27/0.28		0.36/0.39/0.41		0.47/0.50/0.53		0.69/0.74/0.78		0.90/0.97/1.03				
			Heating	0.11/0.12/0.13		0.17/0.18/0.19		0.22/0.24/0.25		0.33/0.36/0.38		0.44/0.47/0.50				
External Finish				Galvanised Steel Plate (Lower Part Drain Pan: Pre-Coated Galvanised Sheets + Powder Coating)												
Indoor Unit Capacity Connectable to 1 Branch *12				Model P80 or Smaller. (Use Optional Joint Pipe combing 2 branches when the total unit capacity exceeds P81.)												
Connectable Outdoor/Heat Source Unit Capacity				P200 to P350												
Height		mm		246												
Weight		mm		596					911		1,135					
Depth		mm		495					639							
Refrigerant Piping Diameter	To Outdoor/Heat Source Unit			Connectable Unit Capacity												
				P200			P250/P300				P350 *13					
				High Pressure Pipe			15.88 (5/8) Brazed				19.05 (3/4) Brazed			19.05 (3/4) Brazed or 22.2 (7/8) Brazed		
				Low Pressure Pipe			19.05 (3/4) Brazed				22.2 (7/8) Brazed			28.58 (1-1/8) Brazed		
	To Indoor Unit	Liquid Pipe			Indoor Unit Model 50 or Smaller 6.35 (1/4) Brazed Bigger than 50 9.52 (3/8) Brazed											
		Gas Pipe			Indoor Unit Model 50 or Smaller 12.7 (1/2) Brazed Bigger than 50 15.88 (5/8) Brazed. (19.05, 22.2 with Optional Joint Pipe Used.) (19.05, 22.2 with Optional Joint Pipe Used.)											
		Drain Pipe			mm O.D. 32											
Net Weight		kg		23		27		31		46		56				
Sound Power Level (Measured in Anechoic Room)		dB <A>	Rated Operation	56 (When P200 Outdoor/Heat Source Unit is Connected, 57 (P250), 59 (P350))												
			Defrost	71												
Sound Pressure Level (Measured in Anechoic Room)		dB <A>	Rated Operation	38 (When P200 Outdoor/Heat Source Unit is Connected, 39 (P250), 40 (P350))												
			Defrost	53												
Accessories				Drain Connection Pipe, Washer, Tie Band												
Model				CMB-P108V-JA				CMB-P1012V-JA				CMB-P1016V-JA				
Number of Branches				8				12				16				
Power Source				1-Phase 220-230-240 V												
Power Input	kW	50Hz	Cooling	0.127/0.144/0.161				0.186/0.211/0.236				0.246/0.279/0.312				
			Heating	0.060/0.068/0.076				0.090/0.102/0.114				0.119/0.135/0.151				
		60Hz	Cooling	0.102/0.115/0.127				0.150/0.168/0.186				0.198/0.222/0.246				
			Heating	0.048/0.054/0.060				0.072/0.081/0.090				0.096/0.108/0.119				
Current	kW	50Hz	Cooling	0.58/0.63/0.68				0.85/0.92/0.99				1.12/1.22/1.30				
			Heating	0.28/0.30/0.32				0.42/0.44/0.48				0.55/0.59/0.63				
		60Hz	Cooling	0.47/0.50/0.53				0.69/0.74/0.78				0.90/0.97/1.03				
			Heating	0.22/0.24/0.25				0.33/0.36/0.38				0.44/0.47/0.50				
External Finish				Galvanised Steel Plate (Lower Part Drain Pan: Pre-Coated Galvanised Sheets + Powder Coating)												
Indoor Unit Capacity Connectable to 1 Branch *12				Model P80 or Smaller (Use Optional Joint Pipe combing 2 branches when the total unit capacity exceeds P81.)												
Connectable Outdoor/Heat Source Unit Capacity				P200 to P900												
Height		mm		246												
Weight		mm		911				1,135								
Depth		mm		639												
Refrigerant Piping Diameter	To Outdoor/Heat Source Unit			Connectable Unit Capacity												
				P200	P250/P300	P350*13	P400 to P500	P550*13	P600*13	P650	P700 to P800	P850 to P900				
				High Pressure Pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 or 22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 or 28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed					
				Low Pressure Pipe	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed			28.58 or 34.93 (1-3/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed			
	To Indoor Unit	Liquid Pipe			Indoor Unit Model 50 or Smaller 6.35 (1/4) Brazed Bigger than 50 9.52 (3/8) Brazed											
		Gas Pipe			Indoor Unit Model 50 or Smaller 12.7 (1/2) Brazed Bigger than 50 15.88 (5/8) Brazed (19.05, 22.2 with Optional Joint Pipe Used.)											
	To other BC controller			Total Down-Stream Indoor Unit Capacity												
				to P200	P201 to P300	P301 to 350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above				
				High Pressure Pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed				34.93 (1-3/8) Brazed		
				Low Pressure Pipe	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed				34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed				
				Liquid Pipe	9.52 (3/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		19.05 (3/4) Brazed					

Model			CMB-P108V-JA	CMB-P1012V-JA	CMB-P1016V-JA
Drain Pipe	mm		O.D. 32 (1-1/4)		
Net Weight	kg		45	55	63
Sound Power Level (Measured in Anechoic Room)	dB <A>	Rated Operation	62 (When P250 Outdoor/Heat Source Unit is Connected,65(P450), 68 (P700), 69 (P900)		
		Defrost	74		
Sound Power Level (Measured in Anechoic Room)	dB <A>	Rated Operation	44 (When P250 Outdoor/Heat Source Unit is Connected, 47 (P450), 50 (P700), 51 (P900)		
		Defrost	56		
Accessories			Drain Connection Pipe, Washer, Tie Band		

Combination chart of BC Controller for R2 Series (YNW)

	P200-P350	P400-P900	P950-P1100
CMB-P VJ	✓	N/A	N/A
CMB-P V-JA	✓	✓	N/A
CMB-P V-KA	✓	✓	✓
CMB-P V-KB (Sub)	CMB-P108/1012/1016V-JA, CMB-P1016V-KA		

Model				CMB-P1016V-KA									
Number of Branches				16									
Power Source				1-Phase 220-230-240 V									
Power Input	kW	50Hz	Cooling	0.246/0.279/0.312									
			Heating	0.119/0.135/0.151									
		60Hz	Cooling	0.198/0.222/0.246									
			Heating	0.096/0.108/0.119									
Current	kW	50Hz	Cooling	1.12/1.22/1.30									
			Heating	0.55/0.59/0.63									
		60Hz	Cooling	0.90/0.97/1.03									
			Heating	0.44/0.47/0.50									
External Finish				Galvanised Steel Plate (Lower Part Drain Pan: Pre-Coated Galvanised Sheets + Powder Coating)									
Indoor Unit Capacity Connectable to 1 Branch *12				Model P80 or Smaller (Use Optional Joint Pipe combing 2 branches when the total unit capacity exceeds P81.)									
Connectable Outdoor/Heat Source Unit Capacity				P200 to P1100									
Height		mm		246									
Weight		mm		1,135									
Depth		mm		639									
Refrigerant Piping Diameter	To Outdoor/Heat Source Unit			Connectable Unit Capacity									
				P200	P250/P300	P350*13	P400 to P500	P550*13	P600*13	P650	P700 to P800	P850 to P900	P1050 to P1100
				High Pressure Pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 or 22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed
	To Indoor Unit	Low Pressure Pipe (Brazed)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed		28.58 or 34.93 (1-3/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed			
		Liquid Pipe	Indoor Unit Model 50 or Smaller 6.35 (1/4) Brazed Bigger than 50 9.52 (3/8) Brazed										
	Gas Pipe	Indoor Unit Model 50 or Smaller 12.7 (1/2) Brazed Bigger than 50 15.88 (5/8) Brazed (19.05, 22.2 with Optional Joint Pipe Used.)											
	To other BC controller			Total Down-Stream Indoor Unit Capacity									
				to P200	P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above	
				High Pressure Pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed
				Low Pressure Pipe	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed				34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed	
Liquid Pipe			9.52 (3/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		19.05 (3/4) Brazed				
Drain Pipe		mm		O.D. 32 (1-1/4)									
Net Weight		kg		65									
Sound Power Level (Measured in Anechoic Room)	dB <A>	Rated Operation		56 (When P300 Outdoor/Heat Source Unit is Connected, 61 (P550), 63 (P800), 66 (P1100))									
		Defrost		73									
Sound Pressure Level (Measured in Anechoic Room)	dB <A>	Rated Operation		38 (When P300 Outdoor/Heat Source Unit is Connected, 43 (P550), 45(P800), 48 (P1100))									
		Defrost		55									
Accessories				Drain Connection Pipe, Washer, Tie Band									

Notes:

- Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
- The equipment is for R410A refrigerant.
- Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
- Sound pressure/power level differs depending on the connected outdoor/heat source unit capacity or operation condition. The sound pressure/power level at the Rated Operation is the value of the cooling mode.
- The sound pressure/power level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
- The Sound Pressure Level values were obtained at the location below 1.5m from the unit.
- The solenoid valve switching sound is 56 dB regardless of the unit model.
- Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decreases a little.)
- Refrigerant Piping Diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
- This unit is not designed for outside installations.
- When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
- For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.
- When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- Can't use singleness. (MAIN BC CONTROLLER is necessary).

SPECIFICATIONS

Model				CMB-P104V-KB *14*15									
Number of Branches				4									
Power Source				1-Phase 220-230-240 V									
Power Input	kW	50Hz	Cooling	0.060/0.068/0.076									
			Heating	0.030/0.034/0.038									
		60Hz	Cooling	0.048/0.054/0.060									
			Heating	0.024/0.027/0.030									
Current	kW	50Hz	Cooling	0.28/0.30/0.32									
			Heating	0.14/0.15/0.16									
		60Hz	Cooling	0.22/0.24/0.25									
			Heating	0.11/0.12/0.13									
External Finish				Galvanised Steel Plate (Lower Part Drain Pan: Pre-Coated Galvanised Sheets + Powder Coating)									
The Maximum Number of Connectable Sub-BC Controllers				11									
The Maximum Connectable Capacity of Indoor Units				P350 for each									
Connectable Main BC controller				CMB-P108/1012/1016V-JA, CMB-P1016V-KA									
Height		mm		246									
Weight		mm		596									
Depth		mm		495									
Refrigerant piping diameter	To Indoor Unit	Liquid Pipe		Indoor Unit Model 50 or Smaller 6.35 (1/4) Brazed Bigger than 50 9.52 (3/8) Brazed									
		Gas Pipe		Indoor Unit Model 50 or Smaller 12.7 (1/2) Brazed Bigger than 50 15.88 (5/8) Brazed (19.05, 22.2 with Optional Joint Pipe Used.)									
	To other BC controller		Total Down-Stream Indoor Unit Capacity										
			to P200	P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above		
			High Pressure Pipe		15.88 (5/8) Brazed	19.05 Brazed		22.2 Brazed		28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed
			Low Pressure Pipe		19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed				34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed	
Liquid Pipe		9.52 (3/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		19.05 (3/4) Brazed					
Drain Pipe		mm		O.D. 32 (1-1/4)									
Net Weight		kg		21									
Sound Power Level (Measured in Anechoic Room)	dB <A>	Rated Operation		56 (When P200 Outdoor/Heat Source Unit is Connected, 57 (P250), 59 (P350)									
		Defrost		73									
Sound Pressure Level (Measured in Anechoic Room)	dB <A>	Rated Operation		38 (When P200 Outdoor/Heat Source Unit is Connected, 39 (P250), 40 (P250), 40 (P350)									
		Defrost		53									
Accessories				Drain Connection Pipe, Washer, Tie Band									




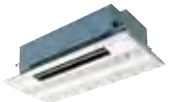


Notes:







- Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
- The equipment is for R410A refrigerant.
- Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
- Sound pressure/power level differs depending on the connected outdoor/heat source unit capacity or operation condition. The sound pressure/power level at the Rated Operation is the value of the cooling mode.
- The sound pressure/power level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
- The Sound Pressure Level values were obtained at the location below 1.5m from the unit.
- The solenoid valve switching sound is 56 dB regardless of the unit model.
- Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decreases a little.)
- Refrigerant Piping Diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
- This unit is not designed for outside installations.
- When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
- For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.
- When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- Can't use singleness. (MAIN BC CONTROLLER is necessary).








Indoor Units

A modern office interior featuring white desks, computers, and large windows with blinds. The room is brightly lit by natural light and recessed ceiling lights. A long, low-profile indoor unit is mounted on the wall above the windows. The desks are equipped with monitors, keyboards, and mice. Black office chairs are positioned at the desks. A potted plant is visible on the left side of the frame.

Lineup of Indoor Units

Type		Ceiling Cassette Type				Ceiling Concealed Type	
Model		PLFY-P VEM-A 4-Way Air Flow	PLFY-P VFM-E1 4-Way Air Flow	PLFY-P VLMD-E 2-Way Air Flow	PMFY-P VBM-E 1-Way Air Flow	PEFY-P VMR-E-L/R Low Noise Type	PEFY-P VMS1(L)-E Compact Depth Type
							
Line Up	P15		•				•
	P20		•	•	•	•	•
	P25		•	•	•	•	•
	P32	•	•	•	•	•	•
	P40	•	•	•	•		•
	P50	•	•	•			•
	P63	•		•			•
	P80	•		•			
	P100	•		•			
	P125	•		•			

Type		Ceiling Concealed Type					
Model		PEFY-P VMX(L)-E(1) Compact Depth Type	PEFY-P VMA(L)-E Medium Static Pressure Type	PEFY-P VMA3-E Medium Static Pressure Type	PEFY-P VMHS-E High Static Pressure Type	PEFY-P VMHS-E-F Fresh Air Intake Type	PEFY-P VMH-E-F Fresh Air Intake
							
Line Up	P15	•					
	P20	•	•	•			
	P25	•	•				
	P32	•	•				
	P40	•	•		•		
	P50	•	•		•		
	P63	•	•		•		
	P71		•		•		
	P80		•		•		•
	P100		•		•		
	P125		•		•	•	
	P140		•		•		•
	P200				•	•	•
	P250				•	•	•

Type		Ceiling Suspended Type	Wall Mounted Type			Floor Standing/Floor Mounted Concealed Type		
Model		PCFY-P VKM-E	PKFY-P VLM-E	PKFY-P VLM-E	PKFY-P VKM-E	PFFY-P VKM-E2	PFFY-P VLEM-E	PFFY-P VLRM-E PFFY-P VLRRM-E
								
Line Up	P15		•					
	P20		•			•	•	•
	P25		•			•	•	•
	P32		•			•	•	•
	P40	•		•		•		•
	P50			•			•	•
	P63	•			•		•	•
	P100	•			•			
	P125	•						



Provide Comfort to All Corners of the Room

CEILING CASSETTE TYPE | 4-WAY AIRFLOW TYPE

Ceiling cassette air conditioning systems are an ideal option to air condition rooms where there is no available walls to mount a split system or where there is limited ceiling space for a ducted system. Its whisper quiet operation is ideal for master bedrooms, living rooms and other single room residential or commercial uses.

PLFY-P VEM-A

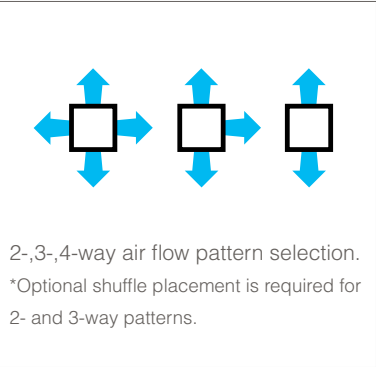
4-WAY AIRFLOW TYPE



OPTIMUM AIRFLOW

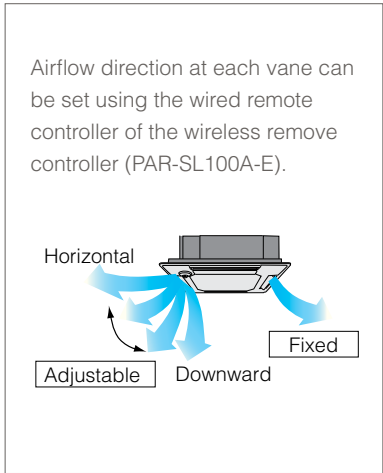
2-,3-,4-way airflow pattern selection

Three outlet options to choose from: bi-directional, three-way, and four-way to suit different types of installation. Select, for example, four-directional for installation in the center of the room and three-directional for installation in the corner.

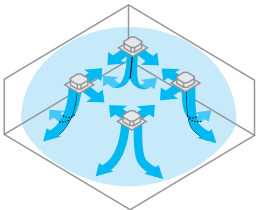


Individual vane angle settings

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



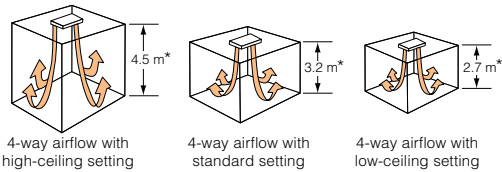
2-, 3-, 4-way airflow pattern selection

Individual vane angle settings

The combination of individual vane setting, which enables the optimal outlet setting for each room layout, and the wide airflow function works 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 optimise the breezy sensation felt throughout the room.



*P100

Model	P20-P80			P100/P125		
	High-ceiling setting	Standard setting	Low-ceiling setting	High-ceiling setting	Standard setting	Low-ceiling setting
4-way	3.5m	2.7	2.5m	4.5m	3.2m	2.7m
3-way	3.5m	3.0m	2.7m	4.5m	3.6m	3.0m
2-way	3.5m	3.3m	3.0m	4.5m	4.0m	3.3m

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



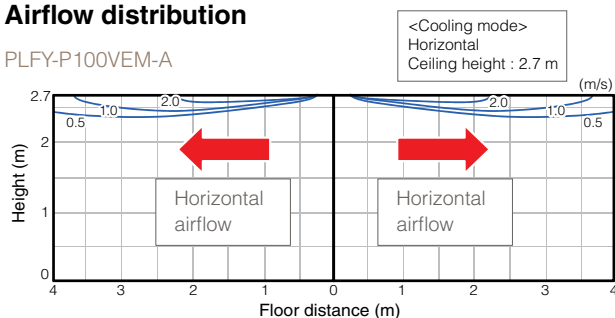
When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable and comfortable heating/cooling operation.

HORIZONTAL AIRFLOW

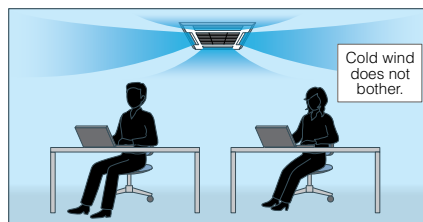
Air supply is horizontally fed into the space to reduce the feeling of cold draft suitable for offices and restaurants.

Airflow distribution

PLFY-P100VEM-A



Horizontal airflow



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.

Previous model



Current model



Increased space for plumbing work

The top and bottom positions of the liquid 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.

Previous model

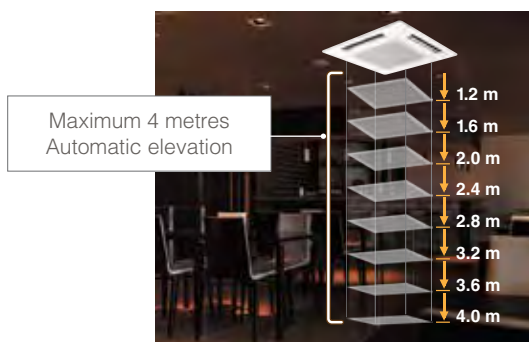


Current model



EASY CLEANING

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



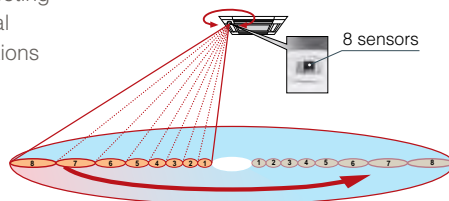
IT TERMINAL

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

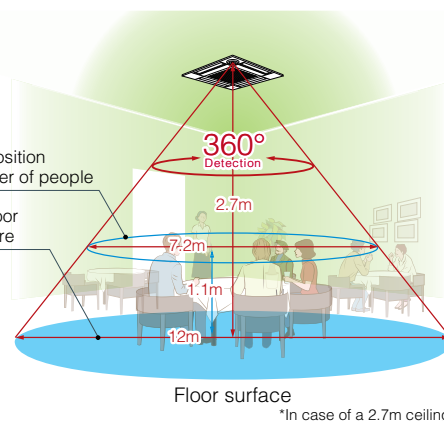
3D i-SEE SENSOR

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 position and number of people
Detects floor temperature



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 60 minutes, 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

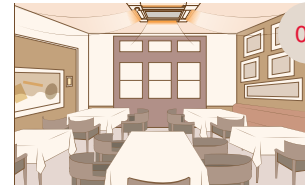
When the room remains unoccupied for a preset period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10 minutes, ranging from 60 to 180 minutes.

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

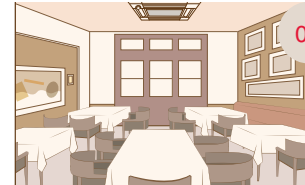
Room occupancy energy save mode



No occupancy energy save mode



No occupancy Auto-OFF mode



*PAR-33MAA is required for each setting.

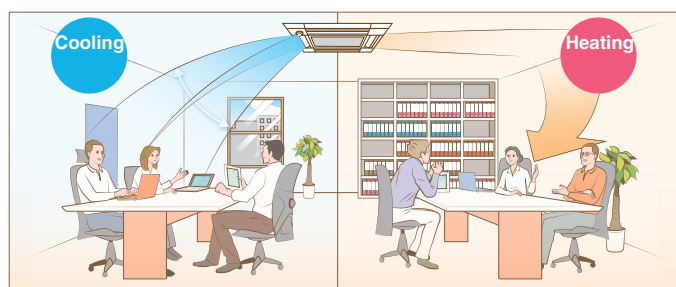
Seasonal airflow

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 preset 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.



Direct/indirect setting

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.



SPECIFICATIONS

INDOOR UNIT - CEILING CASSETTE TYPE



PLFY-P VEM-A / 4-Way Airflow

Model			PLFY-P32VEM-A	PLFY-P40VEM-A	PLFY-P50VEM-A	PLFY-P63VEM-A	PLFY-P80VEM-A	PLFY-P100VEM-A	PLFY-P125VEM-A
Power Source			1-phase 220/230/240V 50Hz, 220/230V 60Hz						
Cooling Capacity*1		kW	3.6	4.5	5.6	7.1	9.0	11.2	14.0
		BTU/h	12,300	15,400	19,100	24,200	30,700	38,200	47,800
Heating Capacity*2		kW	4.0	5.0	6.3	8.0	10.0	12.5	16.0
		BTU/h	13,600	17,100	21,500	27,300	34,100	42,700	54,600
Power Consumption	Cooling	kW	0.03				0.05	0.07	0.11
	Heating	kW	0.03				0.05	0.07	0.11
Current	Cooling	A	0.32			0.36	0.50	0.67	1.06
	Heating	A	0.25			0.29	0.43	0.60	0.99
External Finish (Munsell No.)		Unit	Galvanised Steel Sheet						
		Panel	MUNSELL (1.0Y/9.2/0.2)						
Dimension H x W x D	Unit	mm	258 x 840 x 840					298x840x840	
	Panel	mm	40 x 950 x 950						
Net Weight	Unit	kg	19			21		24	
	Panel	kg	5						
Heat Exchanger			Micro Slit Fin (Aluminum Fin and Copper Tube)						
Fan	Type x Quantity		Turbo Fan x 1						
	Air Flow Rate *2 (Lo-Mid2-Mid1-Hi)	m³/min	13-14-16-17		13-14-16-19	15-16-17-19	15-18-20-23	20-23-26-29	24-26-30-35
		L/s	217-233-267-283	217-233-267-300	217-233-267-317	250-267-283-317	250-300-333-383	333-383-433-483	400-433-500-583
		cfm	459-494-565-600	459-494-565-636	459-494-565-671	530-565-600-671	530-636-706-812	706-812-918-1024	847-918-1060-1236
External Static Pressure	Pa	0							
Motor	Type		DC Motor						
	Output	kW	0.050					0.120	
Air Filter			PP Honeycomb						
Refrigerant Pipe Diameter	Gas (Flare)	mm (in.)	ø12.7 (ø1/2)			ø15.88 (ø5/8)			
	Liquid (Flare)	mm (in.)	ø6.35 (ø1/4)			ø9.52 (ø3/8)			
Field Drain Pipe Diameter		mm (in.)	O.D. 32 (1-1/4)						
Sound Pressure Level *2 *3 (Low-Mid2-Mid1-Hi)		dB(A)	26-27-29-31	26-27-29-31	26-27-29-31	28-29-30-32	28-31-34-37	34-37-39-41	35-39-42-45

OPTIONAL PARTS

INDOOR UNITS

For PLFY-P VEM-A / 4-Way Airflow

Description	Model	Applicable Capacity
Branch Pipe (2 Branch)	CMY-Y62-G-E	P32, P40, P50, P63, P80, P100, P125
Header	CMY-Y64-G-E	P32, P40, P50, P63, P80, P100, P125
Header	CMY-Y68-G-E	P32, P40, P50, P63, P80, P100, P125
Drain Socket	PAC-SG61DS-E	P32, P40, P50, P63, P80, P100, P125
Centralised Drain Pan	PAC-SH97DP-E	P32, P40, P50, P63, P80, P100, P125
Port Connector (Ø9.52 → Ø12.7)	PAC-SG73RJ-E	P32, P40, P50, P63, P80, P100, P125
3RUW & RQQHFWRU (Ø15.88 → Ø19.05)	PAC-SG75RJ-E	P32, P40, P50, P63, P80, P100, P125
Air Outlet Guide	PAC-SJ37SP-E	P32, P40, P50, P63, P80, P100, P125

Notes:

*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.

*1. Nominal cooling conditions

Indoor: 27°CDB./19°CWB., Outdoor: 35°CDB.

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

*2. Nominal heating conditions

Indoor: 20°CDB., Outdoor: 7°CDB./6°CWB.

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

PLFY-P VFM-E

4-WAY AIRFLOW TYPE

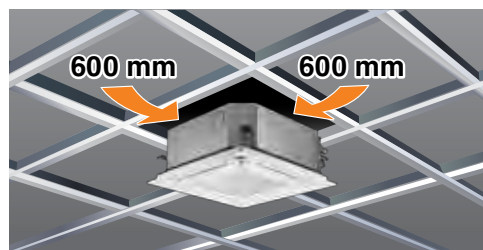


Size which perfectly fits to grid system ceiling (600 mm × 600 mm). Possible to blow in 4-way direction even though it is a compact size.

BEAUTIFUL SQUARE DESIGN

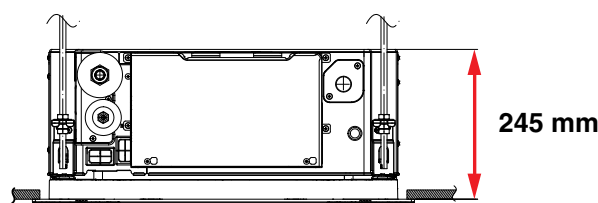
The straight square design matches 2 × 2 (600 mm × 600 mm) ceiling construction specifications.

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 245MM

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.)

COMPACT AND LIGHT-WEIGHT DESIGN

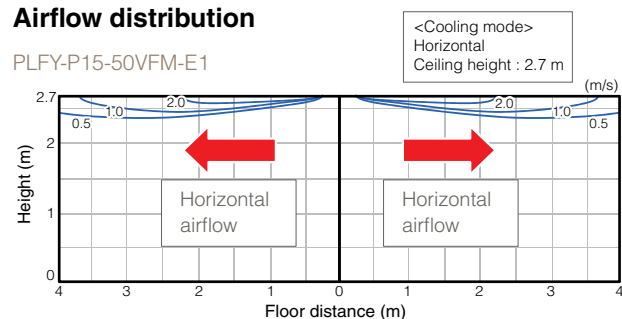
The panel weighs 3 kg, and the unit's body weighs 14 kg (P15, P20 and P25 models) or 15 kg (P32, P40 and P50 models).

HORIZONTAL AIRFLOW

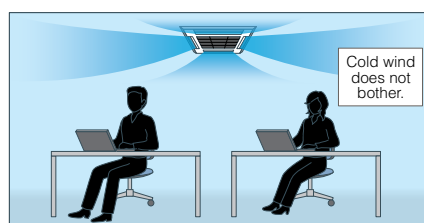
Air supply is horizontally fed into the space to reduce the feeling of cold draft. The ideal airflow for offices and restaurants.

Airflow distribution

PLFY-P15-50VFM-E1



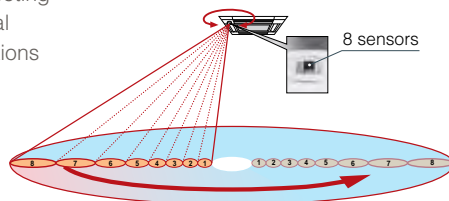
Horizontal airflow



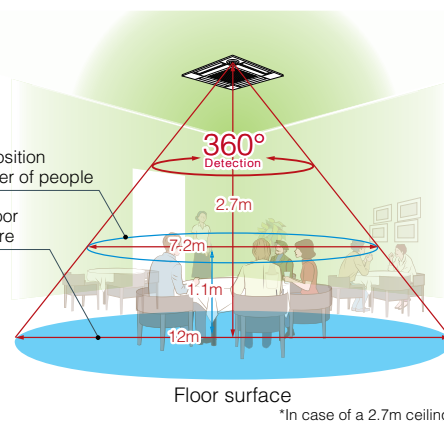
3D i-SEE SENSOR

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 position and number of people
Detects floor temperature



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 60 minutes, 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

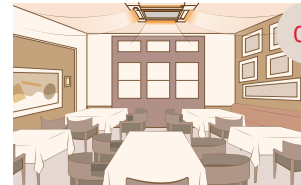
When the room remains unoccupied for a preset period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10 minutes, ranging from 60 to 180 minutes.

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

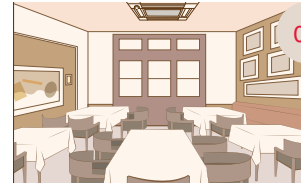
Room occupancy energy save mode



No occupancy energy save mode



No occupancy Auto-OFF mode



*PAR-33MAA is required for each setting.

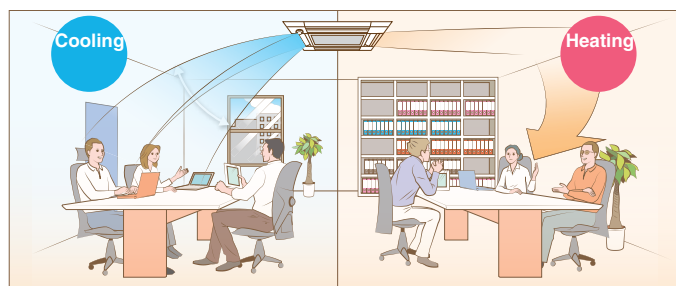
Seasonal airflow

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 preset 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.



Direct/indirect setting

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.



SPECIFICATIONS

INDOOR UNIT - CEILING CASSETTE TYPE



PLFY-P VFM-E1 / 4-Way Airflow

Model			PLFY-P15VFM-E1	PLFY-P20VFM-E1	PLFY-P25VFM-E1	PLFY-P32VFM-E1	PLFY-P40VFM-E1	PLFY-P50VFM-E1
Power Source			1-Phase 220-240V 50Hz / 220V 60Hz					
Cooling Capacity*1		kW	1.7	2.2	2.8	3.6	4.5	5.6
		BTU/h	5,800	7,500	9,600	12,300	15,400	19,100
Heating Capacity (Nominal)*1		kW	1.9	2.5	3.2	4.0	5.0	6.3
		BTU/h	6,500	8,500	10,900	13,600	17,100	21,500
Power Consumption	Cooling	kW	0.02	0.02	0.02	0.02	0.03	0.04
	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 Finish (Munsell No.)		Unit	Galvanised Steel Sheet					
		Panel	MUNSELL (1.0Y/9.2/0.2)					
Dimension H x W x D	Unit	mm	208 x 570 x 570					
	Panel	mm	10 x 625 x 625					
Net Weight	Unit	kg	14			15		
	Panel	kg	3					
Heat Exchanger			Cross Fin (Aluminum Fin and Copper Tube)					
Fan	Type x Quantity		Turbo Fan x 1					
	Air Flow Rate (Lo-Mid-Hi)	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
		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 Static Pressure	Pa	0					
Motor	Type		DC Motor					
	Output	kW	0.05					
Air Filter			PP Honeycomb Fabric (Long Life Type)					
Refrigerant Pipe Diameter	Gas (Flare)	mm (in.)	ø12.7 (ø1/2)					
	Liquid (Flare)	mm (in.)	ø6.35 (ø1/4)					
Field Drain Pipe Diameter		mm (in.)	O.D. 32 (1-1/4) (PVC Pipe VP-25 Connectable)					
Sound Pressure Level *2 (Lo-Mid-Hi)		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 DB/19°C WB, Outdoor 35°C DB

Heating : Indoor 20°C DB, Outdoor 7°C DB/6°C WB

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

OPTIONAL PARTS

INDOOR UNITS

For PLFY-P VFM-E1 / 4-Way Airflow

Description	Model	Applicable Capacity
i-See Sensor Corner Panel	PAC-SF1ME-E	P15, P20, P32, P40, P50
Wireless Signal Receiver	Par-SF9FA-E	P15, P20, P32, P40, P50

PANEL & PANEL CORNER

INDOOR UNITS

For PLFY-P VFM-E1 / 4-Way Airflow

		With Signal Receiver	With 3D i-See Sensor	With Wireless Remote Controller
Panel	SLP-2FA			
	SLP-2FAL	✓		
	SLP-2FAE		✓	
	SLP-2FALE	✓	✓	
	SLP-2FALM	✓		✓
	SLP-2FALME	✓	✓	✓
Corner Panel	PAR-SF9FA-E	✓		
	PAC-SF1ME-E		✓	