MITSUBISHI ELECTRIC

Changes for the Better

AIR CONDITIONING SYSTEMS

CITY MULTI

FULL PRODUCT LINEUP CATALOG



CM23US-S



Mitsubishi Electric's unparalleled air conditioning systems

Mitsubishi Electric is a globally-renowned household name with a solid reputation for excellent products and services. The company was founded under the present name of Mitsubishi Electric in 1921. Since our founding, we have risen to the very pinnacle of the air-conditioning industry and we continue to maintain that position.

We are proud of our achievements in providing some of the most energy-efficient systems on the market.



Contents

Outdoor/Heat Source Units ····· P.4
BC Controllers ····· P.174
Indoor Units ····· P.184
LOSSNAY System ····· P.222
Remote Controllers ····· P.232



Outdoor/Heat Source Units

Mitsubishi Electric offers a wide range of products to meet the air-conditioning needs of various types of buildings.

Air-cooled system

Air cooled

H2i (hyper heating inverter) type

208–230 V/460 V

Y-Series

Cooling or Heating

Heat pump

6–20 ton



P.49

R2-Series

Simultaneous Cooling and Heating

Heat recovery

6–20 ton



P.93

Cold-climate models with the best heating capability in our CITY MULTI lineup

- The rated heating capacity can be achieved at temperatures down to -4°F (-20°C)*.
  * HP72/96 only
- Reliable heating operation is guaranteed at outside temperatures down to -22°F (-30°C).

High efficiency type

208–230 V/460 V

Y-Series

Cooling or Heating

Heat pump

6–36 ton



P.53

R2-Series

Simultaneous Cooling and Heating

Heat recovery

6–36 ton



P.98

High efficiency models that combine energy saving operation and boosted heating performance at low outside temperatures

- Reliable heating operation is guaranteed at outside temperatures down to -13°F (-25°C).
- Both Y-series and R2-series are available in a wide lineup of to 36 tons.

Standard type

208–230 V/460 V

Y-Series

Cooling or Heating

Heat pump

6–36 ton



P.69

R2-Series

Simultaneous Cooling and Heating

Heat recovery

6–28 ton



P.112

575 V

Y-Series

Cooling or Heating

Heat pump

6–30 ton



P.83

R2-Series

Simultaneous Cooling and Heating

Heat recovery

6–24 ton



P.122

Compact type

208–230 V

S-Series

Cooling or Heating Heat pump

H2i

3-4 ton



P.129

Standard

3-5 ton



P.130

Water-cooled system

Water cooled

208–230 V/460 V/575 V

WY-Series

Cooling or Heating

Heat pump

6–30 ton



P.133

WR2-Series

Simultaneous Cooling and Heating

Heat recovery

6–28 ton



P.155

Water-cooled system with VRF features

- Allows heat source units to be installed on separate floors, making it suitable for use in high-rise buildings.
- Installation of heat source units in machine rooms helps maintain the exterior appearance of the building

H2i (hyper heating inverter) type



PUHY HP T/YNU-A1
PURY HP T/YNU-A1

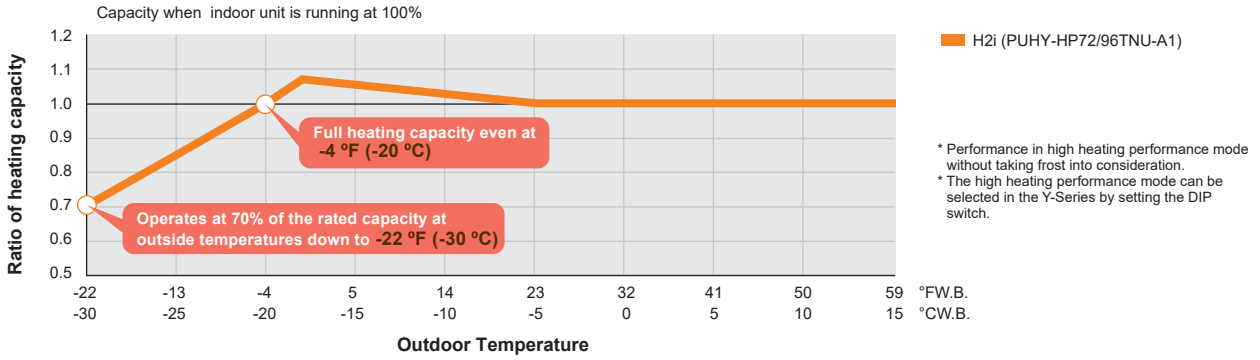
This type can operate at outside temperatures down to -22°F [-30°C] and is available in a wide lineup.

High heating performance

The H2i-type that has large-capacity compressors with an injection function in the suction chamber are capable of performing heating operation at outside temperatures down to -22°F [-30°C]. Selecting the high heating performance mode helps maintain the heating performance at low outside temperatures. The HP72 and 96 models of the H2i-type are capable of achieving the rated capacity even at a temperature of -4°F [-20°C]*.

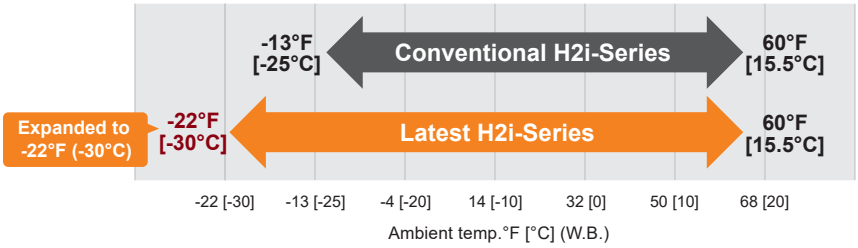
* The HP120 model operates at full heating capacity at temperatures down to 5°F [-15°C].

Heating capacity (high heating performance mode)



Heating operation down to -22°F (-30°C)

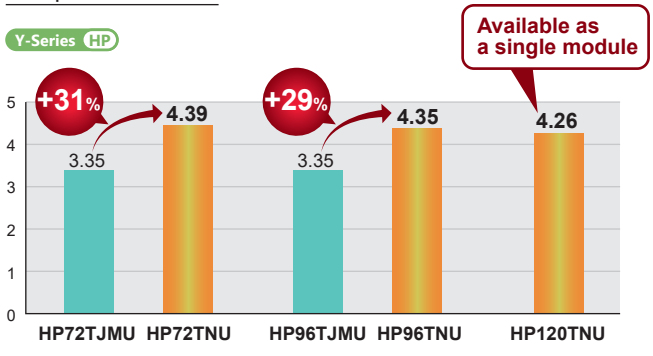
Heating operation is guaranteed at temperatures down to -22°F (-30°C), helping to create comfortable spaces in cold mornings and evenings, and even in harsh climates.



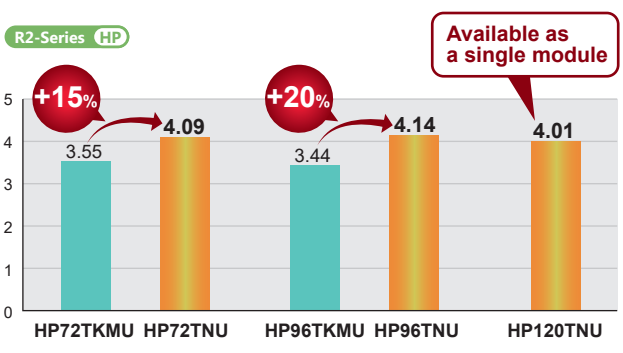
High efficiency and wide line-up

The structural design of the latest model has a 4-face air induction design and improved core components, such as compressor and fan, to deliver significantly improved energy saving performance. The COP of the HP72 model in the Y-Series has improved by 31%.

Comparison of COP



* Measurement condition (Indoor model: Non-ducted)



* Measurement condition (Indoor model: Non-ducted)

Design

To realize high efficiency, the structure of a four-sided heat exchanger is applied to the latest model. The sophisticated appearance can enhance building designs.

Conventional model (T/YKMU)



Latest model (T/YNU)





Panel heaters are equipped as a standard on the side and back for proper drainage in cold climates, ensuring highly reliable heating operation.

* These images show the R2-Series.

Wide line-up

Single modules are available up to HP120 for both the Y and the R2-Series. The combination modules are available in a lineup of to HP240. These units require smaller installation space and provide greater flexibility in the selection of models.

		HP72	HP96	HP120	HP144	HP192	HP240
Conventional model HP-T(Y)KMU-A-H [(R2)] HP-TJMU-A(Y)	R2	L	L	—	L + L	L + L	—
	Y	S	L	—	S + S	L + L	—
Latest model HP-T(Y)NU-A1	R2	L	L	L	L + L	L + L	L + L
	Y	L	L	L	L + L	L + L	L + L

Operation with a single compressor up to HP120

Space Saving Installation with Fewer Modules

When an HP240 system (R2) is required

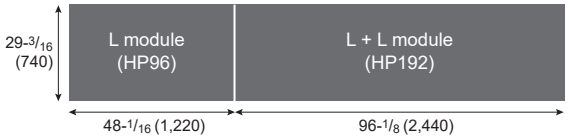
Conventional model (T/YKMU)

HP96 (L module) HP192 (L+L module)



• Footprint

in. (mm)



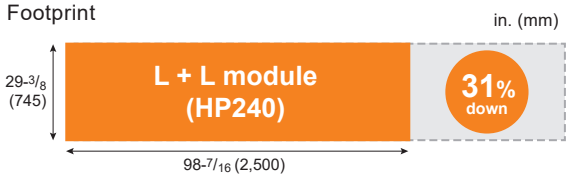
Latest model (T/YNU)

HP240 (L+L module)



• Footprint

in. (mm)



Fewer modules mean a smaller footprint

High efficiency & standard type



PUHY (E)P T/YNU-A1
PURY (E)P T/YNU-A1

* This picture shows a standard type.

The structural design features a 4-face air induction design and improved core components, such as compressor and fan, to deliver significantly improved energy saving performance.

Wide Lineup

A single large capacity module is available for the high efficiency type.
The latest "EXL" module has an extended heat exchanger and the same footprint as the XL module.

Comparison of high efficiency modules

S



L



XL



EXL



Extended HEX

Expanded lineup

Latest single module

Y-Series EP Single

	EP72	EP96	EP120	EP144	EP168	EP192	EP216	EP240
T/YLMU	S	L	XL	XL	XL	—	—	—
T/YNU	S	L	L	L	XL	EXL	EXL	EXL

R2-Series EP Single

	EP72	EP96	EP120	EP144	EP168	EP192	EP216	EP240
T/YKMU	L	L	XL	XL	—	—	—	—
T/YNU	S	L	L	L	XL	EXL	EXL	EXL

Y-Series EP Combination

	EP72	EP96	EP120	EP144	EP168	EP192	EP216	EP240	EP264	EP288	EP312	EP336	EP360	EP384	EP408	EP432
T/YLMU	—	—	—	S+S	S+L	S+XL	L+XL	XL+XL	S+S+XL	S+L+XL	S+XL+XL	L+XL+XL	XL+XL+XL	—	—	—
T/YNU	—	—	—	—	—	L+L	L+L	L+L	S+L+L	S+L+L	S+L+L	L+L+L	L+L+L	L+L+L	L+L+L	L+L+L

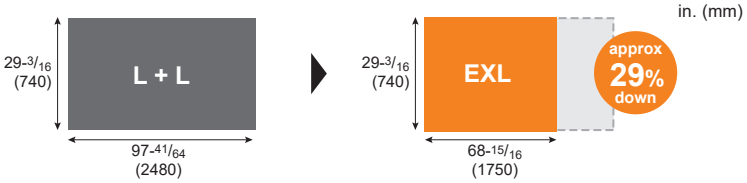
R2-Series EP Combination

	EP72	EP96	EP120	EP144	EP168	EP192	EP216	EP240	EP264	EP288	EP312	EP336	EP384	EP432
T/YKMU	—	—	—	—	L+L	L+L	L+XL	XL+XL	XL+XL	XL+XL	—	—	—	—
T/YNU	—	—	—	—	—	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	EXL+EXL	EXL+EXL

Foot print

EP216 L + L → EXL

in. (mm)



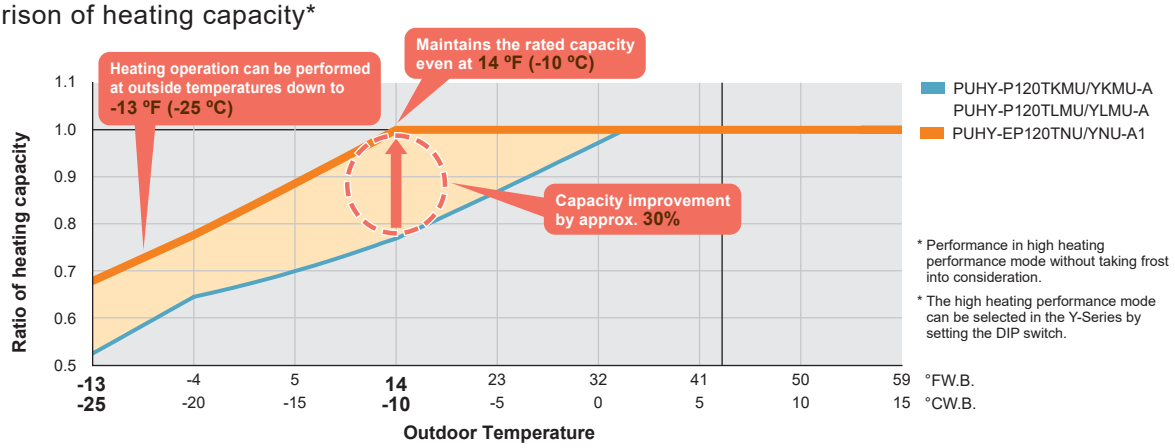
Heating capability

Y-Series EP R2-Series EP

The EP model has a large capacity compressor with an injection function in the suction chamber of the compressor. Capable of performing heating operation at outside temperatures down to -13°F [-25°C], this model achieves the rated heating performance at temperatures down to 14°F [-10°C].

* Excludes the PUHY-EP216, 240T/YNU and PURY-EP192–240, 384, 432T/YNU models.

• Comparison of heating capacity*



* Performance in high heating performance mode without taking frost into consideration.
* The high heating performance mode can be selected in the Y-Series by setting the DIP switch.

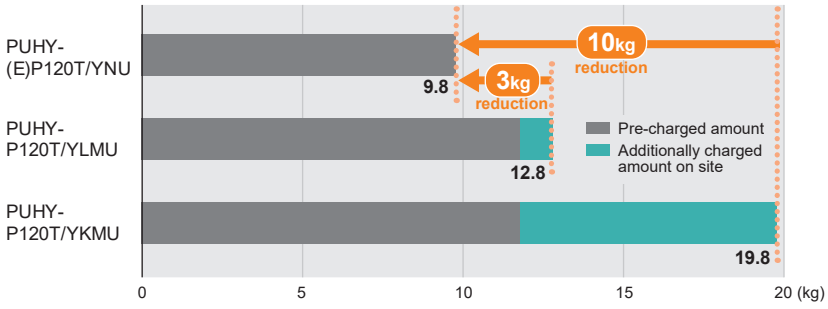
Less refrigerant

Y-Series EP Y-Series P

The four-way suction structure and fan shape have reduced the refrigerant amount by 3kg (PUHY-(E)P120T/YNU) compared to the conventional flat-tube heat exchanger/three-way suction models (PUHY-P120T/YLMU) and by 10kg (PUHY-(E)P120T/YNU) compared to the round-tube heat exchanger/three-way suction models (PUHY-P120T/YKMU).

* Outdoor unit: P120, Indoor unit: 0 unit, Refrigerant piping length: 0 m
* Additional charging is required depending on the installation conditions. Refer to the installation manual for details.

• Comparison of refrigerant amount in 10 ton ((E)P120) models



TNU/YNU model

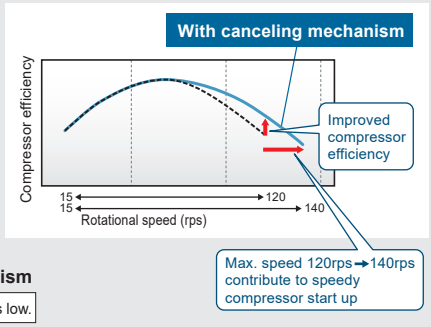
Compressor with centrifugal force canceling mechanism

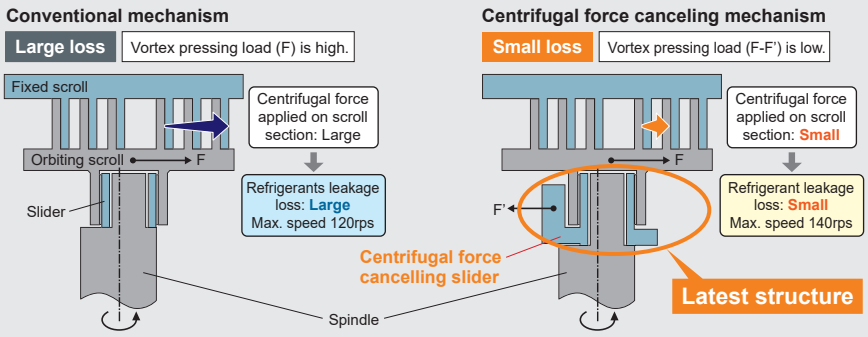
The compressor, known as the heart of the air conditioner, has been developed. A centrifugal force canceling mechanism and a multi-port mechanism have been developed. In addition, we have mounted a high-efficiency motor. The synergetic effect of these latest technologies increases the compressor performance and efficiency, and also helps to improve the performance of the outdoor unit.

Centrifugal force canceling mechanism

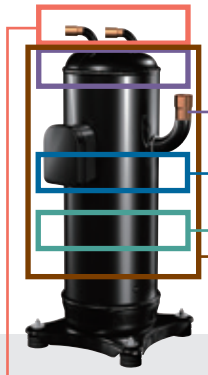
Y-Series HP HP72 | Y-Series EP EP72/96 | Y-Series P P120/144 | R2-Series HP HP72 | R2-Series EP EP72/96 | R2-Series P P120/144

With the latest compressor, a latest structure (centrifugal force canceling 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 mechanism also speeds up the start of operation, and enables operations such as preheat defrost operation and the smooth auto-shift startup mode.





F: Centrifugal force applied on scroll section F': Centrifugal force applied on cancelling slider

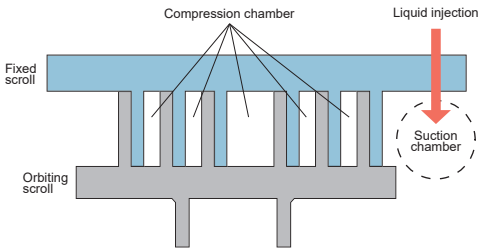


Powerful compressor with suction chamber injection mechanism

Y-Series HP | Y-Series EP | R2-Series HP | R2-Series EP

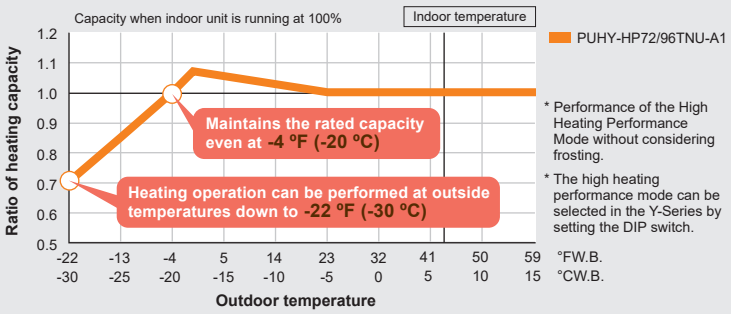
The EP/HP models are equipped with a compressor having a large capacity than that of the P models (except PURY-EP168). They are also equipped with a suction chamber injection mechanism. Owing to this, HP models can perform heating operation even at an outside temperature of -22°F (-30°C), and heating performance at low outside temperatures has been improved so that the rated capacity can be achieved even at an outside temperature of -4°F (-20°C) (HP72/96 models).

• Injection mechanism



This mechanism suppresses the temperature rise of the discharge gas and supports the heating operation at low outside temperatures.

• Heating capacity* in high heating performance mode (HP model)



* Performance of the High Heating Performance Mode without considering frosting.

* The high heating performance mode can be selected in the Y-Series by setting the DIP switch.

Change in refrigerant oil in the compressor

Y-Series HP | R2-Series HP

When conventional H2i-Series are operated at low temperatures below the guaranteed range, the refrigerant oil may become clouded and its circulation may decrease. The latest H2i-Series uses refrigerant oil MEL46EH in place of MEL32. MEL46EH is used in the compressor of the H2i-Series to maintain reliability at low temperatures.
The synergistic effect of the change in refrigerant oil and the use of powerful compressor with a suction chamber injection mechanism expands the temperature range for heating operation down to -22°F (-30°C).

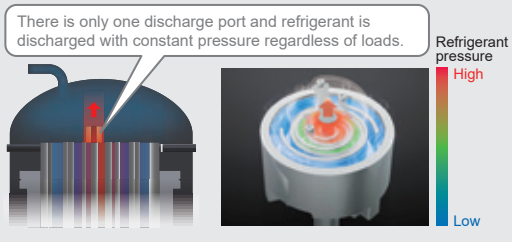
Multi-port mechanism

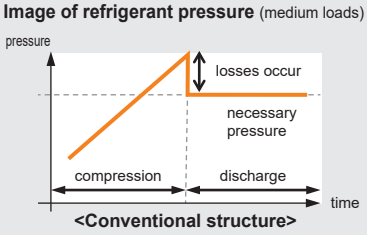
Y-Series HP | Y-Series EP | Y-Series P | R2-Series HP | R2-Series EP | R2-Series P

Efficient partial load operation is realized by avoiding overcompression. With the scroll compressor, the distance of the compression process in the scroll is usually fixed, so over-compression occurs during low loads and low rotation. The latest compressor is equipped with two 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 unnecessary compression, and contributing to efficient partial load operation.

Conventional structure

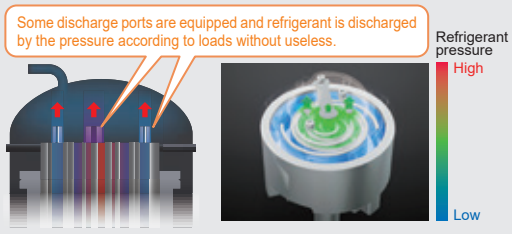
There was only one discharge port in the center and regardless of the air conditioning loads, the refrigerant was compressed up to the center part of scroll, then discharged with constant pressure.
This means that the refrigerant tends to be compressed to higher than necessary pressure during low loads.

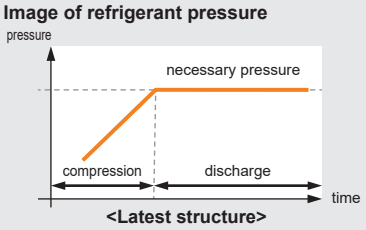




Multi-port structure

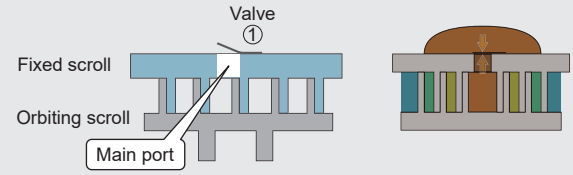
The compressor is equipped with two sub-ports in addition to the discharge port at the center, and it realizes discharge according to air conditioning loads.
The suppression of over-compression contributes to improve the operation efficiency of partial load.





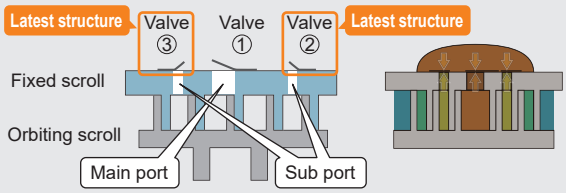
The latest structure, multi-port compressor which equipped with two sub-ports which open and close according to loads, discharges refrigerant from sub-port during the partial load operation.

Conventional structure



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

Multi-port structure



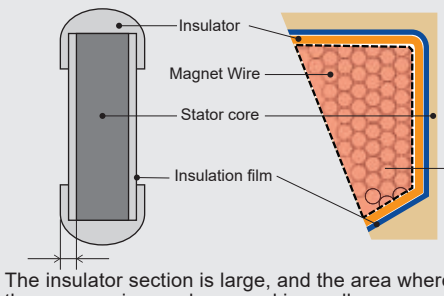
		Operation pattern	
		Partial load	Rating, high pressure difference
Main port	Valve ①	open	open
Sub port	Valve ②	open	close
	Valve ③	open	close

Improved high-efficiency motor

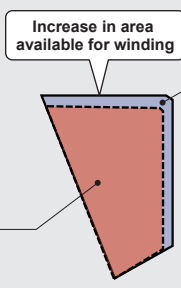
Y-Series HP | Y-Series EP | Y-Series P | R2-Series HP | R2-Series EP | R2-Series P

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

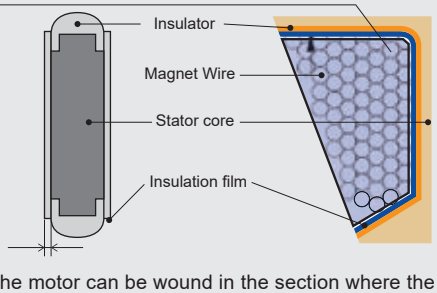
Conventional model (T/YLMU)



The insulator section is large, and the area where the copper wire can be wound is small.



Latest model (T/YNU)



The motor can be wound in the section where the insulator was, and a larger wire diameter can be used.

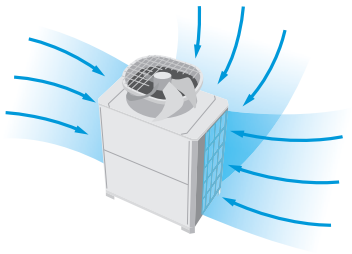
Key components of TNU/YNU model

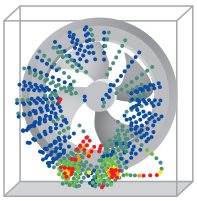
Four-way suction structure

Y-Series HP | Y-Series EP | Y-Series P | R2-Series HP | R2-Series EP | R2-Series P

• Air suction structure

Conventional model (T/YLMU)



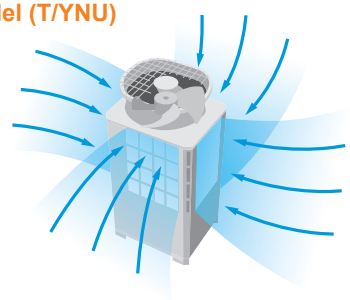


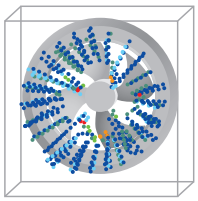
Disturbance
Large
Small

Visualization of air flow of fan

Conventional three-way suction structure has caused a disturbance of air flow in the fan area on the panel side that has no heat exchanger.

Latest model (T/YNU)





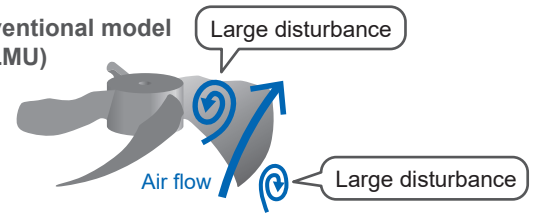
Fan and four-way suction reduce disturbance of air flow

Visualia tion of air flow of fan

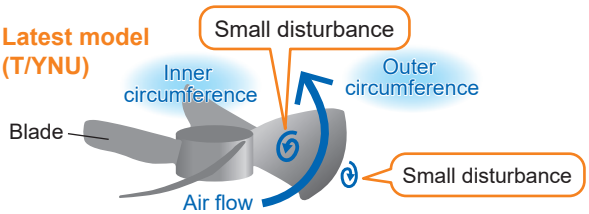
The four-way suction structure allows heat exchange without causing a disturbance of air flow in all directions.

• Fan structure

Conventional model (T/YLMU)



Latest model (T/YNU)



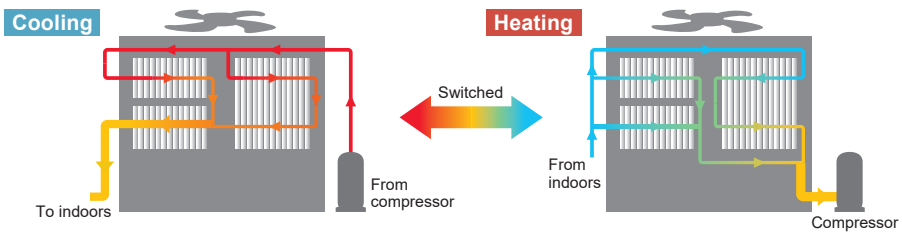
Concave-shaped blade of the propeller fan allows to change the orientation (normal vector) of the blade surface from the outer circumference direction to the inner circumference direction as air flows from upstream to downstream. This enables air to flow along the outer circumference of the blade while reducing a disturbance of air flow that occurs in the upstream and downstream of conventional propeller fans, resulting in reduction of power consumption of the fan motor and air blow noise.
Furthermore, the change of the orientation of the fan blade from the outer circumference direction to the inner circumference direction reduces air leakage from the outer circumference and sends more air to the upstream of the fan.

Adaptive flow control

Y-Series EP (−EP144)

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

Adaptive flow control



- 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. In addition, the drop in heat exchanger capacity for 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), pressure loss in the heat exchanger is reduced, and the evaporator performance is improved.

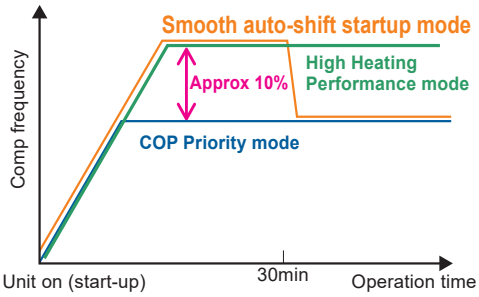
* Increase in evaporator performance is compared to using the original number of cooling paths.

Key functions

Smooth auto-shift startup mode

Y-Series HP | Y-Series EP | Y-Series P | R2-Series HP | R2-Series EP | R2-Series P

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



* Time for preparation for heating is required.
* Each mode is activated when the ambient temperature is below the specified temperature. For factory settings, refer to the Data Book.

Preheat defrost operation

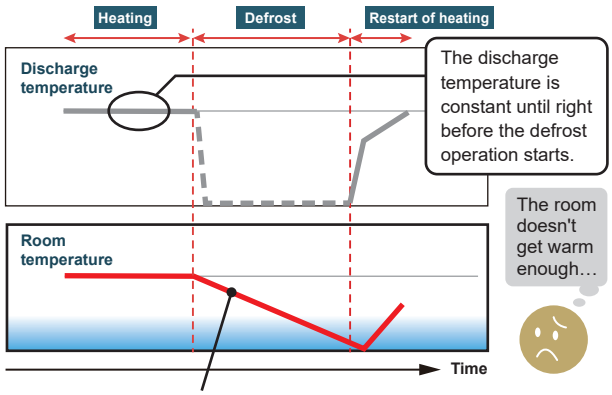
Y-Series HP | Y-Series EP | Y-Series P | R2-Series HP | R2-Series EP | R2-Series P

The 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 defrost operation and prevents room occupants experiencing a chilling sensation.

Preheat defrost ON/OFF

Example Outdoor unit: P168, Indoor temp.: 68°F (20°C), Outdoor temp.: 36°F (2°C) DB/34°F (1°C) WB, Heating load: 100%

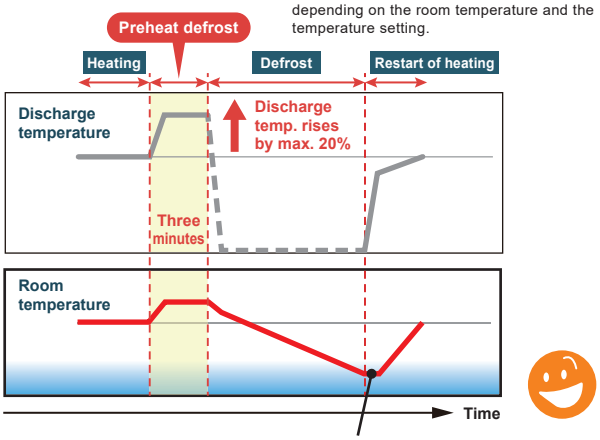
Without preheat defrost



The room temperature drops right after the defrost operation starts.

With preheat defrost

*The following graphs show examples, which may differ from the actual operation depending on the room temperature and the temperature setting.



The room temperature is increased when the defrost operation is started so that the temperature does not drop too low during the defrost operation.

Maintenance data retrieval via USB

Y-Series HP | Y-Series EP | Y-Series P | R2-Series HP | R2-Series EP | R2-Series P

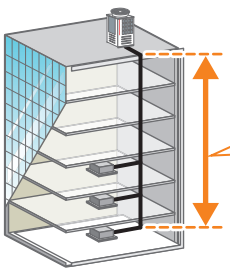
Operation data was retrieved from conventional models using the maintenance tool. On the latest model, the data can be retrieved quickly via USB*1. It is unnecessary to carry the personal computer in which the maintenance tool has been installed, reducing field operation time and improving convenience. Software can be rewritten via USB*2.

*1 In the case of OC-IC maximum configuration
*2 USB memory devices conforming to USB2.0 can be used.

Usable in an application with a large vertical separation of up to 370 feet (113 meters)

Y-Series HP | Y-Series EP | Y-Series P
R2-Series HP | R2-Series EP | R2-Series P

A height difference of up to 370 ft (113 m) from the outdoor unit to the indoor unit can be supported with no extra-cost options.
This increases design flexibility and facilitates installation of these units even in high-rise buildings.



Up to 370 ft (113 m)

* Whether the system can be configured with such a height difference varies depending on the model.
* The maximum height difference is 197 ft (60 m) when the outdoor unit is located lower than the indoor unit.
* Requires switch settings.

Compact type

H2i

PUMY-HP NKMU2

- 3-4 ton (P36/42/48)
- 3.5 ton (P42) model is newly added to the lineup.
- The flash injection circuit improves the heating performance at low outside temperatures.



Standard

PUMY-P NKMU4(-BS)

- 3-5 ton (P36/48/60)
- Compact design that allows individual air conditioning in small-scale buildings and stores

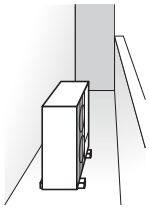


High transportability for installation in narrow spaces

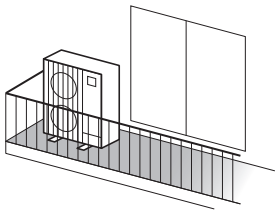
H2i Standard

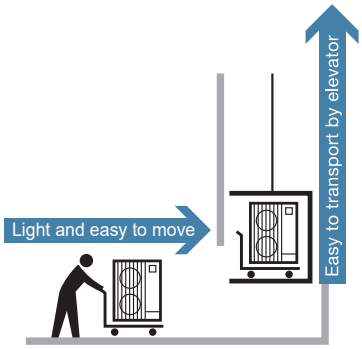
These units are lighter and have greater mobility compared to the top-flow models, allowing for easier transportation and installation.
Smaller depth allows the unit to fit in narrow spaces.

- Small space



- On the balcony



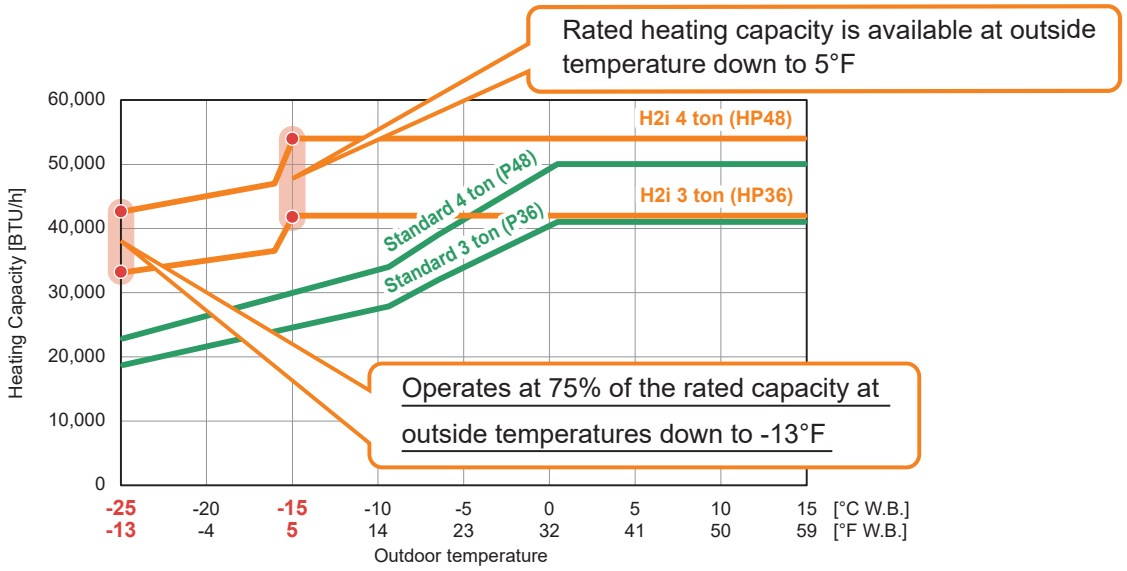


Reliable heating performance

H2i

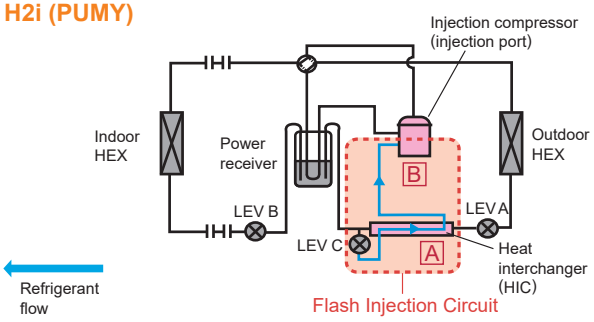
The cold climate type adopts a Flash Injection Circuit to achieve remarkably high heating performance. With this technology, the rated heating performance can be maintained at outside temperatures down to 5°F (-15°C). The guaranteed heating operation range of the heating mode is available down to -13°F (-25°C).

〈Heating capacity comparison of standard and H2i models〉



• Flash Injection Circuit

H2i (PUMY)



The H2i type (PUMY) is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. Without this circuit, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant to maintain the refrigerant circulation volume and compressor operation load, thereby maintaining heating capacity.

A Heat Interchanger (HIC)

HIC cross-sectional view

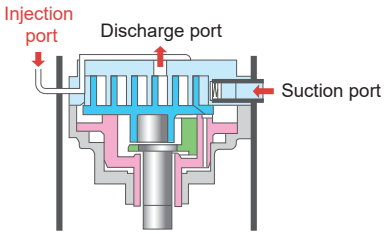


Purpose: Transform liquid refrigerant into liquid-gas state

Effect: Injection circuit increases energy efficiency

The compressor is subjected to a heavy load when compressing liquid refrigerant, and the result is lower operation efficiency. The addition of HIC supports refrigerant heat exchange at two different pressure levels. The heat-exchange process transforms the injected liquid refrigerant into a gas liquid state, thereby decreasing the load on the compressor during the compression process.

B Injection Compressor



Purpose: To increase the volume of refrigerant being circulated

Effect: Improves heating capacity at low outdoor temperatures, and enables higher indoor-air outlet temperature adjustment and higher defrost operation speed

Refrigerant passes from the HIC into the compressor through the injection port. Having two refrigerant inlets makes it possible to raise the volume of refrigerant being circulated when the outdoor temperature is low and at the start of heating operation.

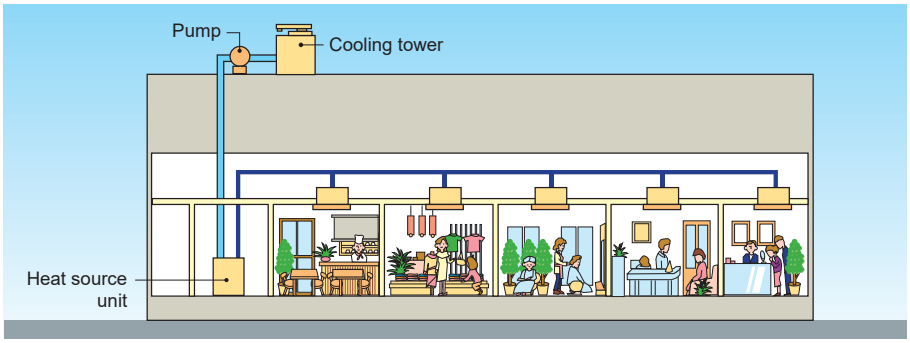
What is Water-Cooled?

A unique system from Mitsubishi Electric



It is possible now to combine the features of VRF with a water circuit using CITY MULTI WY/WR2. In this case, the heat is discharged to a water source rather than to the outside air.
The advantages of a water cooled system are that the water can be delivered at optimized temperatures and volumes, which allows even greater flexibility and increased COP.

Water cooled systems are ideal for use in temperate and cooler climates, since it does not involve heat exchange with the outside air.



Water cooled systems can be used even in buildings that are taller than 164 ft (50 m) by running a main water pipe through each floor.

Any heat source system that can supply heat source water between 50°F–113°F (10°C–45°C) can be used.

Simultaneous heating and cooling operation is possible. (WR2-Series)

Water cooled systems are recommended for use in buildings that have the following heating and cooling needs.

- Buildings that require year-round cooling

  For example,
  - Tenant buildings in which kitchens and offices exist together
  - Buildings in which equipment rooms and offices exist together
- Buildings in which there are large room temperature differences between sunny and unsunny rooms
- Hotels in which there are a lot of individual operation needs

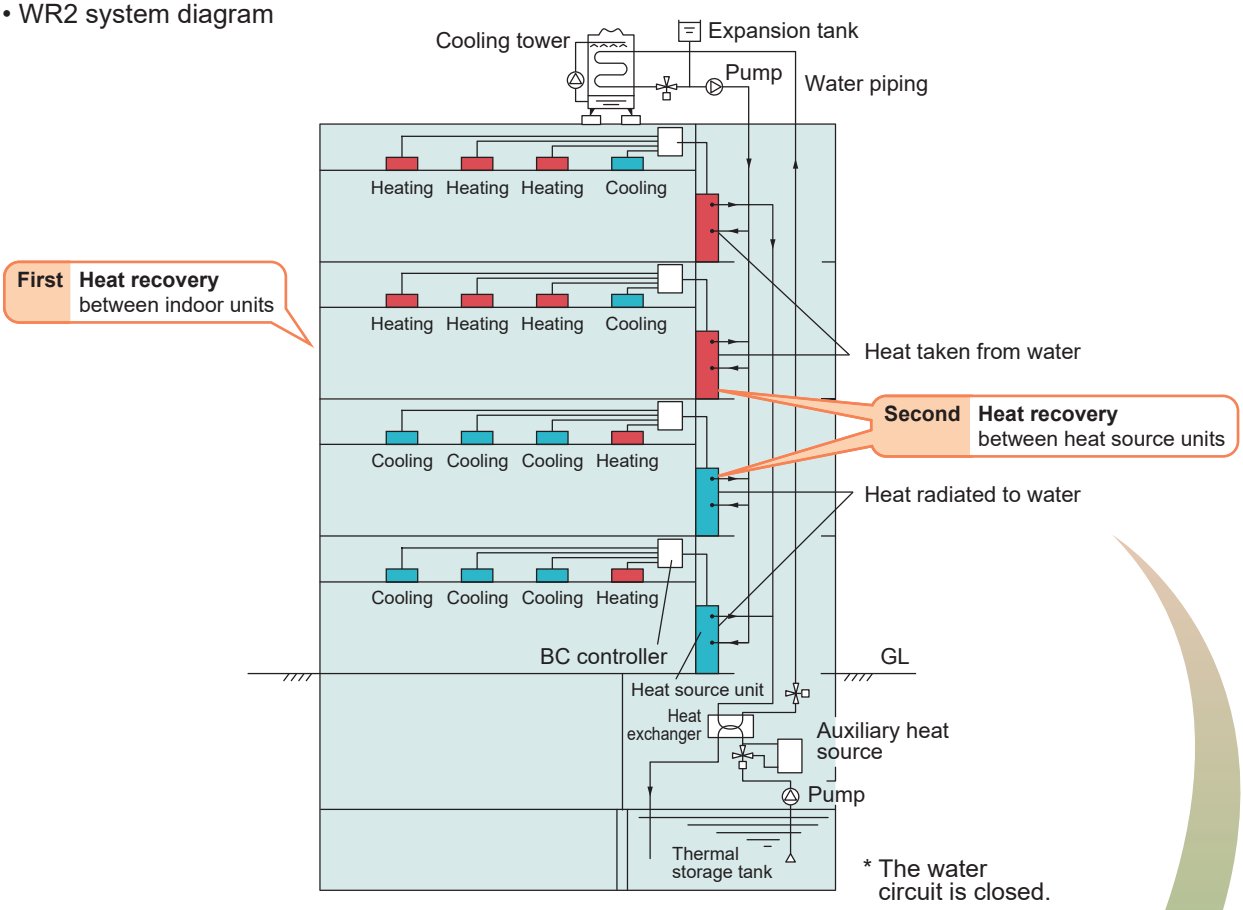
- Installation image



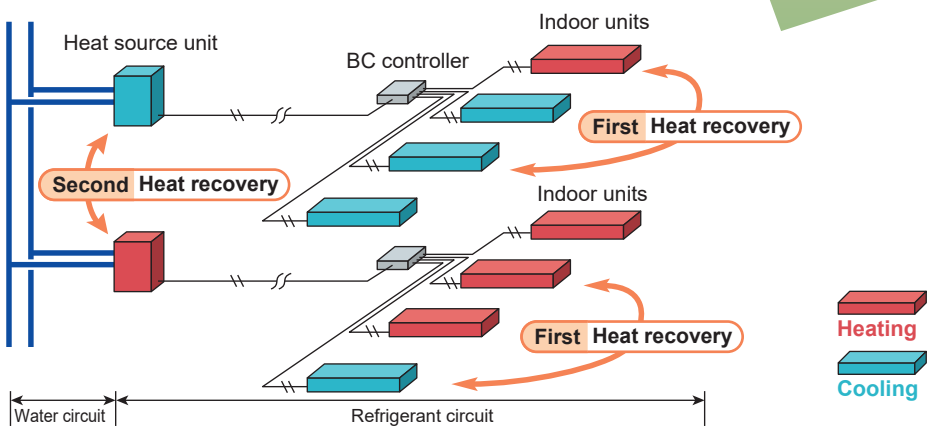
Double heat recovery (WR2-Series)

Mitsubishi Electric now offers double heat recovery operation.
The first heat recovery is within the refrigerant system. Heat is recovered between the indoor units to allow simultaneous cooling and heating operation.
The second heat recovery is within the water loop, where heat is recovered between the PQRY units.
This double heat recovery operation substantially improves energy efficiency and delivers an ideal solution to the requirements of modern office buildings, where some areas require cooling even in winter.

• WR2 system diagram



• Double heat recovery (WR2)



Water-cooled system

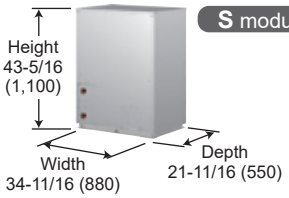


A wide range of capacities are available, from single modules capable of up to P240 and combination modules up to P336.

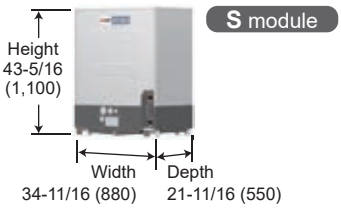
Single or combination module units are available to meet various installation conditions and capacity requirements.

T(Y)HMU-A

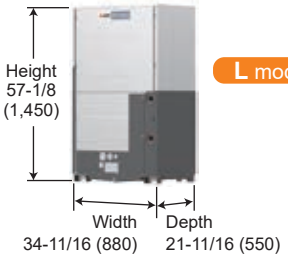
in. (mm)



T(Y)LMU-A2



in. (mm)



<WY-Series>

Single-module units available up to P240

		P72	P96	P120	P144	P168	P192	P216	P240	P264	P288	P312	P336	P360
PQHY-P T(Y)LMU-A2	Single	S	S	S	L	L	L	L	L					
PQHY-P T(Y)HMU-A	Single	S	S	S										
PQHY-P T(Y)SLMU-A2	Combination				S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L
PQHY-P T(Y)SHMU-A	Combination				S+S	S+S	S+S	S+S	S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S

<WR2-Series>

Single-module units available up to P240 | Large capacities up to P336

		P72	P96	P120	P144	P168	P192	P216	P240	P288	P312	P336
PQRY-P T(Y)LMU-A2	Single	S	S	S	L	L	L	L	L			
PQRY-P T(Y)HMU-A	Single	S	S	S								
PQRY-P T(Y)SLMU-A2	Combination				S+S	S+S	S+S	S+S	S+S	L+L	L+L	L+L
PQRY-P T(Y)SHMU-A	Combination				S+S	S+S	S+S	S+S	S+S			

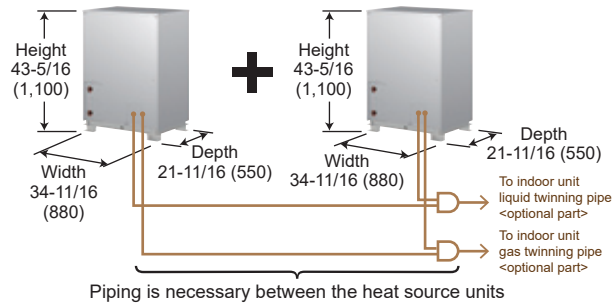
Advantages of single modules in a wide range of capacities

- Less piping

  Capable of covering up to P240 (20 ton) with a single module.

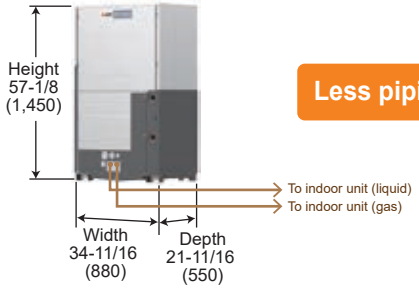
P168TSHMU, YSHMU (WY/WR2-Series)

in. (mm)



P168TLMU, YLMU (WY/WR2-Series)

in. (mm)

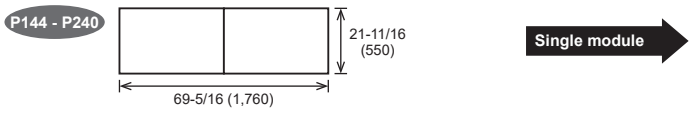


- Less footprint

  Less footprint by the enhanced lineup of single module units.

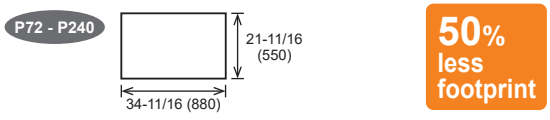
PQHY-P TSHMU-A

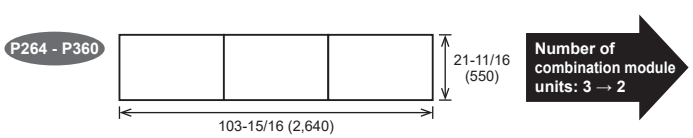
in. (mm)

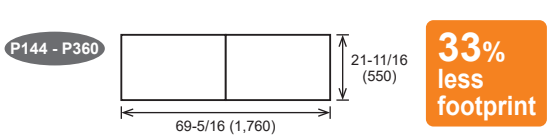


PQHY-P T(S)LMU-A2

in. (mm)





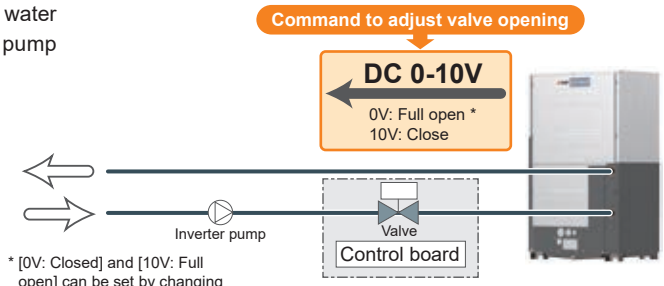


Water flow rate control

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

• Control of water flow rate
Control output voltage (0-10V) to adjust valve opening [0V: Full open,10V: Closed]
Voltage at 0 volt: Even when power is down, water will continue to circulate.

*When using "water flow rate control," the pump needs to be controlled by inverter.
*Pump interlock is required.



* [0V: Closed] and [10V: Full open] can be set by changing the dip switch setting.

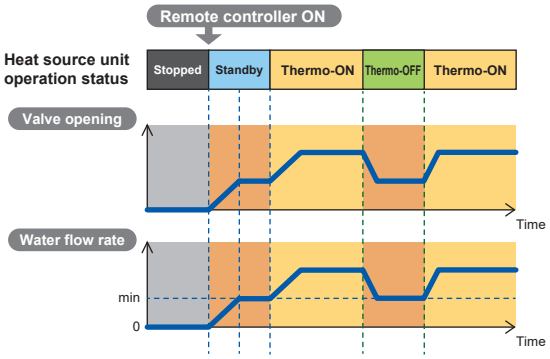
Inverter pump, valve, control board: locally procured

Power-save function

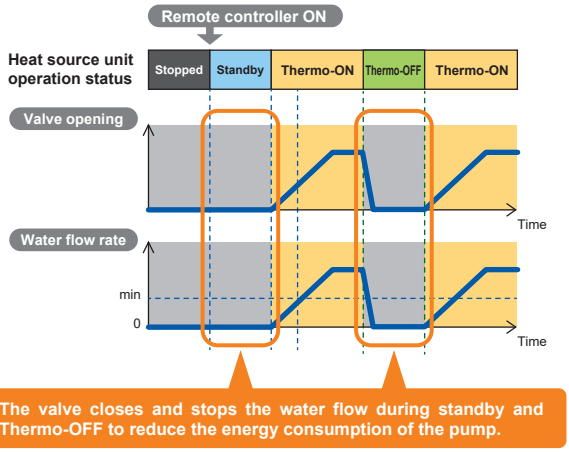
PQHY-P T(S)LMU-A2/Y(S)LMU-A2/Z(S)LMU-B, PQRY-P T(S)LMU-A2/Y(S)LMU-A2/Z(S)LMU-B

In previous models (A type), the pump was operated at a constant flow rate during standby and Thermo-OFF.
In the latest models, the water control valve is closed during standby and Thermo-OFF to reduce the circulating water flow rate and reduce the power consumption of the pump.

Standard



Power-save settings for the pump



FUNCTION TABLE

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

System	Air cooled					
Type	Heat pump				Heat recovery	
Series	H2i Y-Series (Y-Series HP)	Y-Series (High efficiency) (Y-Series EP)	Y-Series (Standard) (Y-Series P)	Y-Series (575V) (Y-Series 575 V)	H2i R2-Series (R2-Series HP)	
Model	PUHY-HP T(Y)NU-A1	PUHY-EP T(Y)NU-A1	PUHY-P T(Y)NU-A1	PUHY-P ZKMU-B	PURY-HP T(Y)NU-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, 85, 100%	50, 60, 70, 85, 100%	
System changeover (for heat pump)	●	●	●	●	–	
Auto mode	–	–	–	–	●	
Dual set point	● *	● *	● *	● *	● *	

► Energy efficiency control

Evaporating temperature control (Fixed temperature control)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	
Evaporating temperature control (Automatic control shifting)	4 patterns	4 patterns	4 patterns	–	4 patterns	
High sensible heat operation (during cooling)	●	●	●	–	●	
Demand control	12 steps	12 steps	12 steps	12 steps	8 steps	
Continuous heating operation during defrost	●	●	●	–	●	
Selectable external static pressure of outdoor unit	0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa	0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa	0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa	0.12 in.WG, 0.24 in.WG/ 30 Pa, 60 Pa	0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa	
Operation at high outside temperatures	126°F (52°C)	126°F (52°C)	126°F (52°C)	115°F (46°C)	126°F (52°C)	

► Maintenance functions

Rotation control	●	●	●	●	●	
Emergency operation mode	●	●	●	●	●	
Pump down function	●	●	●	●	●	
Individual LEV control	●	●	●	●	●	
Snow sensor setting	●	●	●	●	●	

*Should be supported by indoor unit and remote controller.

	Air cooled			Water cooled			
	Heat recovery			Heat pump		Heat recovery	
	R2-Series (High efficiency) R2-Series EP	R2-Series (Standard) R2-Series P	R2-Series (575V) R2-Series 575 V	WY-Series WY-Series	WY-Series (575V) WY-Series 575 V	WR2-Series WR2-Series	WR2-Series (575V) WR2-Series 575 V
	PURY-EP T(Y)NU-A1	PURY-P T(Y)NU-A1	PURY-P ZKMU-B	PQHY-P T(Y)LMU-A2	PQHY-P ZLMU-B	PQRY-P T(Y)LMU-A2	PQRY-P ZLMU-B
							
	●	●	●	●	●	●	●
	50, 60, 70, 85, 100%	50, 60, 70, 85, 100%	50, 85, 100%	50, 100%	50, 100%	50, 100%	50, 100%
	–	–	–	●	●	–	–
	●	●	●	–	–	●	●
	● *	● *	● *	● *	● *	● *	● *
	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)	+43°F (6°C), +48°F (9°C), +57°F (14°C)
	4 patterns	4 patterns	–	4 patterns	4 patterns	4 patterns	4 patterns
	●	●	–	●	●	●	●
	8 steps	8 steps	8 steps	8 steps	8 steps	8 steps	8 steps
	●	●	–	–	–	–	–
	0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa	0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa	0.12 in.WG, 0.24 in.WG/ 30 Pa, 60 Pa	–	–	–	–
	126°F (52°C)	126°F (52°C)	115°F (46°C)	–	–	–	–
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	–	–	–	–

Technologies

Inverter-driven compressor technology

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V


Compressor

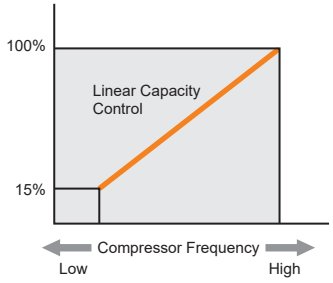
All CITY MULTI compressors are inverter-driven to precisely match the cooling and heating demands of each building.

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

When an inverter-driven system operates 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%, but partial load conditions prevail for the majority of the time. Therefore, it cannot match the annual efficiency of an inverter-driven system.

With its proven single inverter-driven compressor technology, the CITY MULTI series is favored by the industry for its low starting currents (a mere 8 amps for a 16 ton outdoor unit) and smooth transition across the range of compressor frequencies.

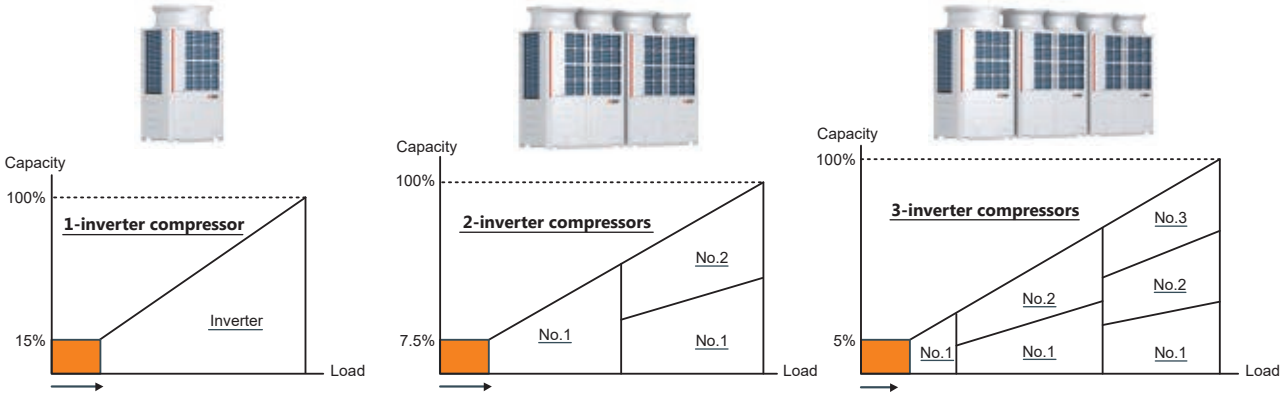
• Heating/Cooling Capacity



* Image

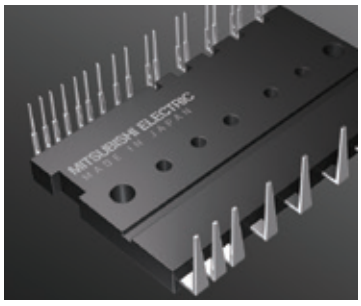
*Values vary depending on actual conditions, such as ambient temperature.

• Stable and Smooth Operation



Intelligent Power Module (IPM) manufactured by Mitsubishi Electric

Y-Series HP *1 | Y-Series P *3 | R2-Series EP *4 | WY-Series *6
Y-Series EP *2 | R2-Series HP *1 | R2-Series P *5 | WR2-Series *7



Power modules manufactured by Mitsubishi Electric are installed in the compressor, 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 that is equipped with a voltage-boosting circuit to raise the output voltage of the inverter and 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 and SEER improvement).

*1 IPM (compressor) is installed in all modules. SiC elements are used in all 460 V modules IPMs.
IPM (fan) is installed in all modules.

*2 IPM (compressor) is installed in 14 to 20 ton (EP168 to EP240) 208-320 V single modules, 8 to 20 ton (EP96 to EP240) 460 V single modules and all 460 V combination modules. SiC elements are used in 14 to 20 ton (EP168 to EP240) single module IPMs.
IPM (fan) is installed in all modules.

*3 IPM (compressor) is installed in 8 to 14 ton (P96 to P168) 460 V single modules and all 460 V combination modules.
IPM (fan) is installed in all modules.

*4 IPM (compressor) is installed in 14 to 20 ton (EP168 to EP240) 208-320 V single modules, 26 to 36 ton (EP312 to EP432) 208-320 V combination modules, 8 to 20 ton (EP96 to EP240) 460 V single module and all 460 V combination modules. SiC elements are used in 14 to 20 ton (EP168 to EP240) 460 V single module and 28 to 36 ton (EP336 to EP432) 460 V combination modules IPMs.
IPM (fan) is installed in all modules.

*5 IPM (compressor) is installed in 8 ton to 14 ton (P96 to P168) 460 V single modules and all 460 V combination modules.
IPM (fan) is installed in all modules.

*6 IPM (compressor) is installed in 18 and 20 ton (P216/P240) 208-230 V single modules, 12 to 20 ton (P144-P240) 460 V single modules and 24 to 30 ton (P288 to P360) 460V combination modules.

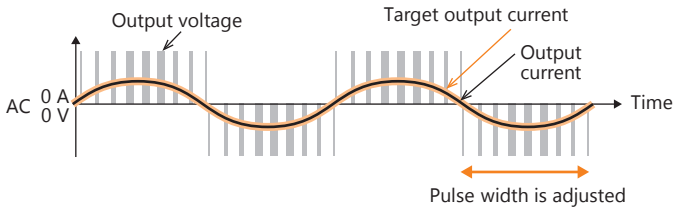
*7 IPM (compressor) is installed in 18 and 20 ton (P216/P240) 208-230 V single modules, 12 to 20 ton (P144-P240) 460 V single modules and 24 to 28 ton (P288 to P336) 460 V combination modules.

PWM control

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

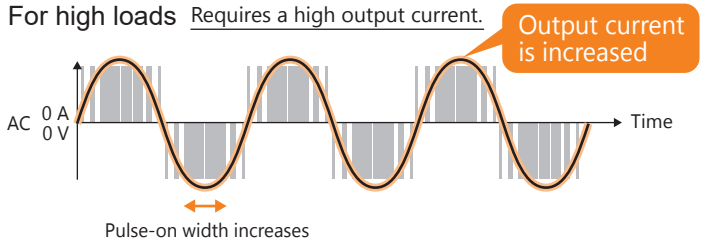
PWM control is used to control the number of motor revolutions according to operational load. It varies the inverter pulse width (electric signal wave occurring over a short period) to control the output.
Optimal control of electrical current is required according to operation.

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



To achieve the target output current, the intervals at which the “pulse” signal is turned on are controlled to adjust the output current.
At low load time, the pulse-on width is minimized to save energy.

• For high loads Requires a high output current.



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

*The number of compressor rotations differs depending on the usage condition.

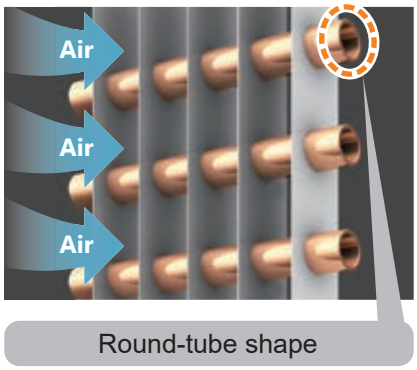
The ability to adjust the pulse range and output current to suit a given load increases the operating range of the unit.

Flat-tube heat exchanger

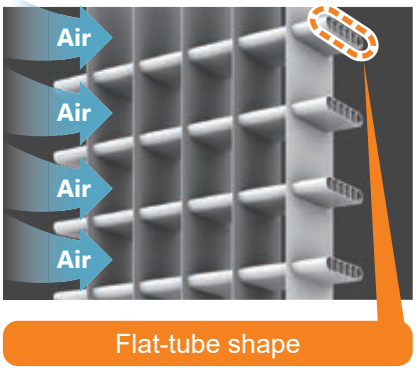
Y-Series EP | R2-Series EP

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

• Round-tube heat exchanger



• Flat-tube heat exchanger



(Illustration)

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

220% increase in surface area (compared to the round-tube)

Heat Inter-Changer (HIC) circuit

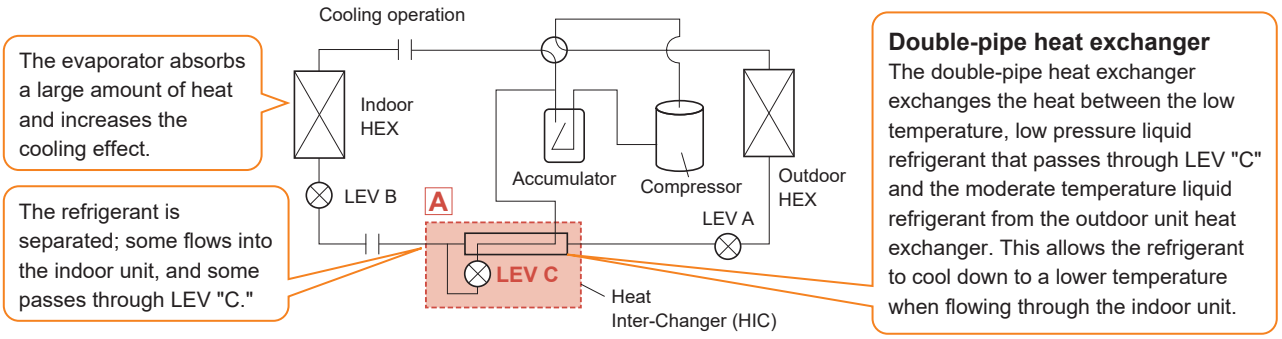
Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

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

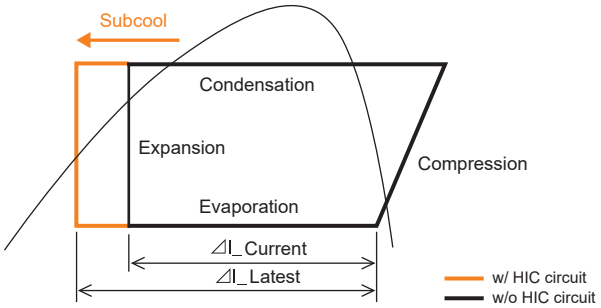
HIC mechanism (an example of Y-series)

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

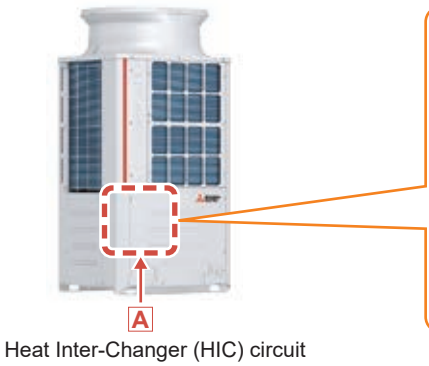
• HIC circuit diagram



• HIC circuit effect (Image using a Mollier diagram)

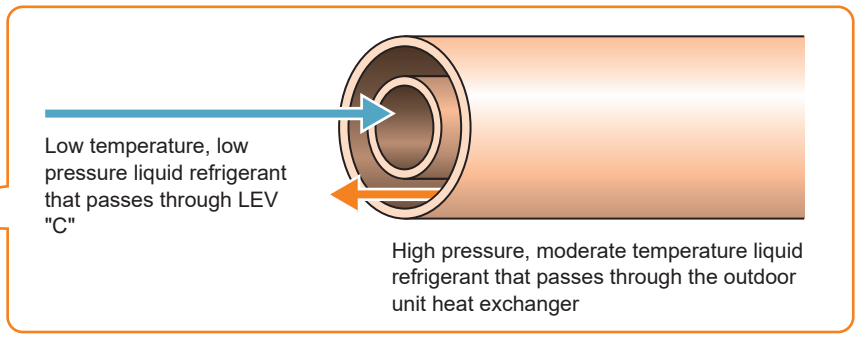


• HIC circuit
(Double-pipe heat exchanger)



Heat Inter-Changer (HIC) circuit

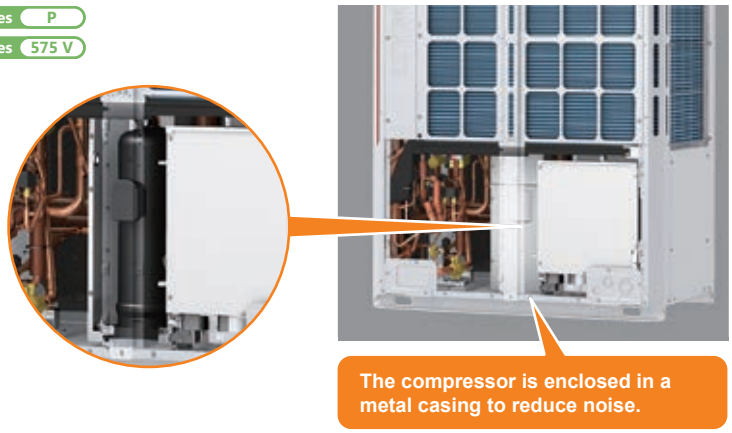
• Double-pipe heat exchanger cross section
(High-performance grooved pipe)



Metal compressor enclosure

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V

The compressor is enclosed in a metal casing to reduce noise.
In some models, a sound absorbing material is applied to the metal casing to further reduce noise.



Functions

COP priority mode

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

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

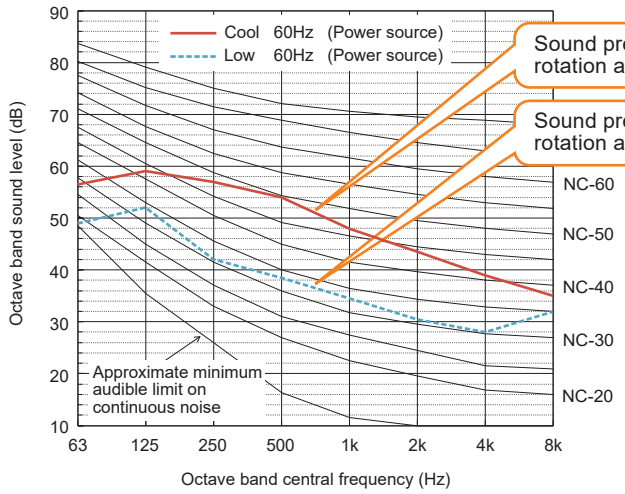
Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

This mode reduces noise by limiting the compressor frequency and the number of rotations of the outdoor fan.
The user can select a preferred level.

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

• Examples of sound pressure level in low noise mode (PUHY-P72T(Y)NU-A1 <cooling>)

Sound level of PUHY-P72T(Y)NU-A1(-BS)



		Octave band central frequency (Hz)								
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard Cooling	60Hz	56.5	59.0	57.0	54.0	48.0	43.5	39.0	35.0	58.0
Low noise mode	60Hz	49.0	52.0	42.0	38.5	34.5	30.5	28.0	32.0	42.0

When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

System changeover (for heat pumps)

Y-Series HP | Y-Series P | WY-Series
Y-Series EP | Y-Series 575 V | WY-Series 575 V

Normal switching between cooling and heating

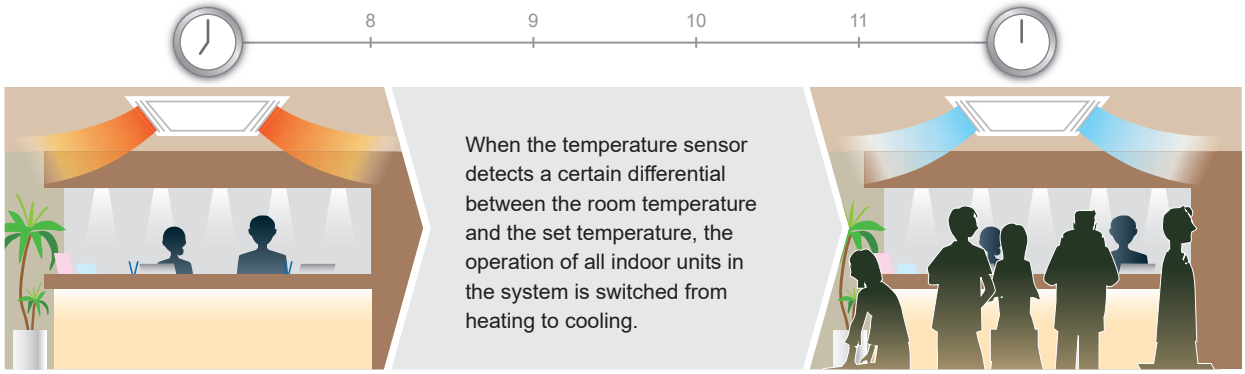
With CITY MULTI's switchable cooling/heating models, in order to switch from cooling to heating, the operation mode of all indoor units performing cooling operation needs to be switched manually.

Using system changeover to switch between cooling and heating

Depending on the dip switch settings, the operation mode of all indoor units can be automatically switched 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 the specific indoor unit and the room temperature.

• Suitable situations

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



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

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

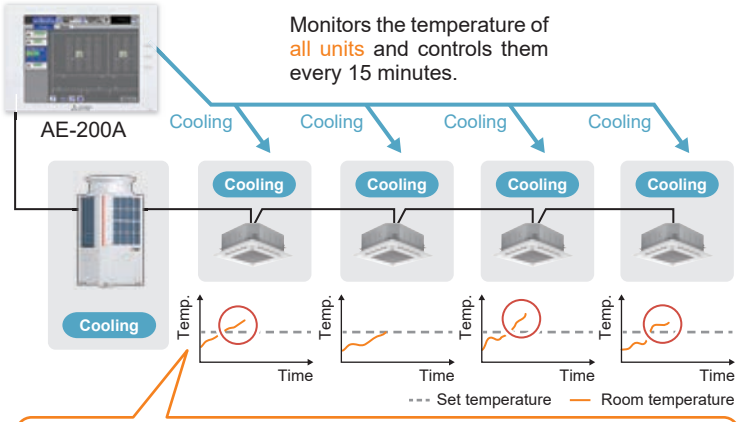
(1) Averaging

Operation mode (cooling or heating) is 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

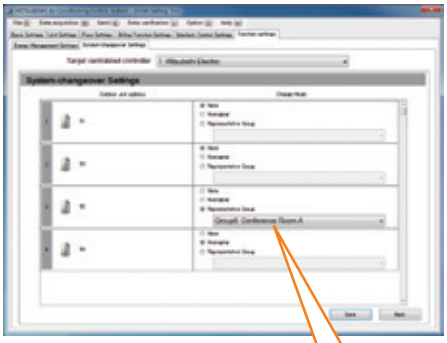
Operation mode (cooling or heating) is switched based on the temperature difference between the set temperature and the room temperature of the representative group.

• Image of the averaging method



If the room temperature is higher on average than the set temperature, AE-200A 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 the AE-200A



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

*To use system changeover, Initial Setting Tool Ver.1.61 or later is required.

Dual set point

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

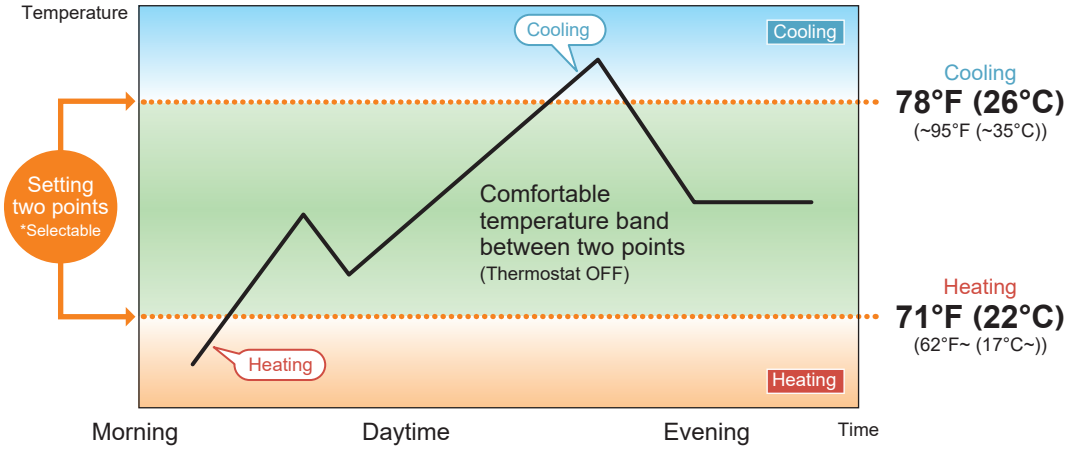
Normally, the desired room temperature is set to the same value for cooling and heating. However, the dual set point function allows different temperatures to be set for cooling and heating. When operation switches from cooling to heating or vice versa, the preset temperature changes accordingly.

Setting dual set points in Auto mode on R2 and WR2 models improves energy efficiency, compared to setting a single set point.

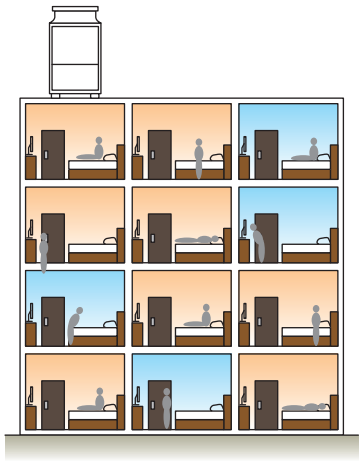
When the operation mode is set to Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit will automatically operate in either the cooling or heating mode and keep the room temperature within the preset range.
The outdoor unit does not operate in the comfortable temperature 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 are compatible with the function.

• Operation pattern in Auto (dual set point) mode

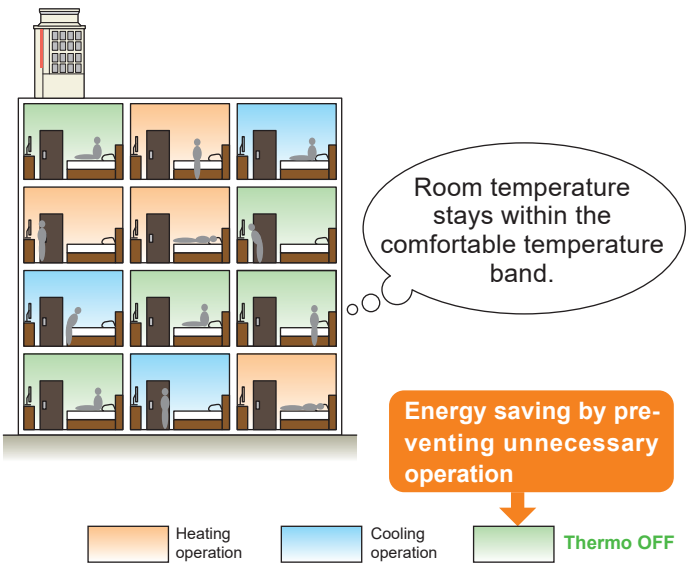


Auto mode with single set point



Auto mode with dual set point

Thermo OFF status is energy saving as the refrigerant stops circulating.



*For details of the installation restrictions, refer to the DATABOOK.

Evaporating temperature control (during cooling)

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V* | R2-Series EP | R2-Series 575 V* | WY-Series 575 V | WR2-Series 575 V

* Fixed temperature control only

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

Normal mode

The evaporating temperature is kept constant regardless of the load. Even at low loads, the normal evaporating temperature does not change, and energy loss is generated during partial load operation.

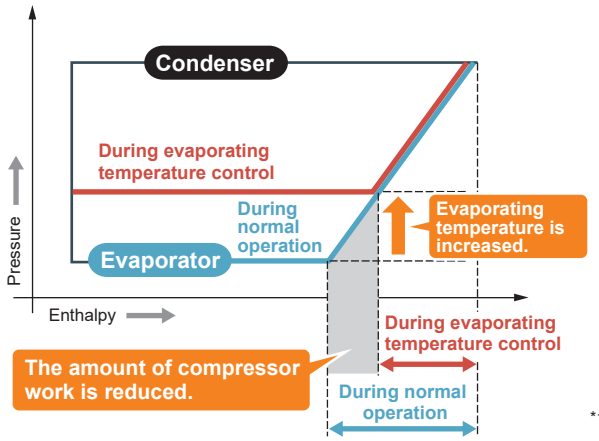
Smart evaporating temperature control mode

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

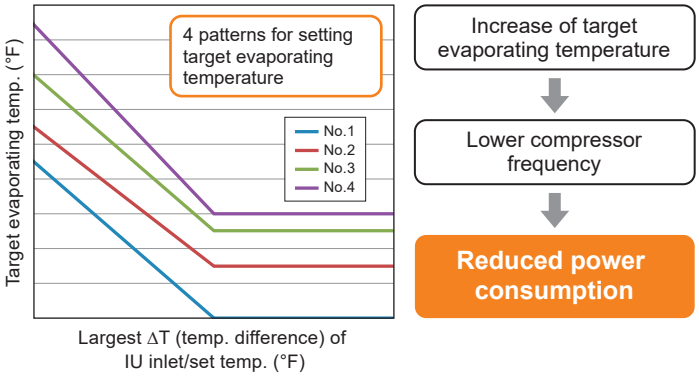
1. The evaporating temperature is controlled to be constant regardless of the ΔT. It is set to a value that is higher than the normal evaporating temperature.
2. The evaporating temperature is controlled in accordance with the ΔT. It can be selected from 4 control patterns.

* 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 be used simultaneously.

1 Image of evaporating temperature control (Fixed temperature control)



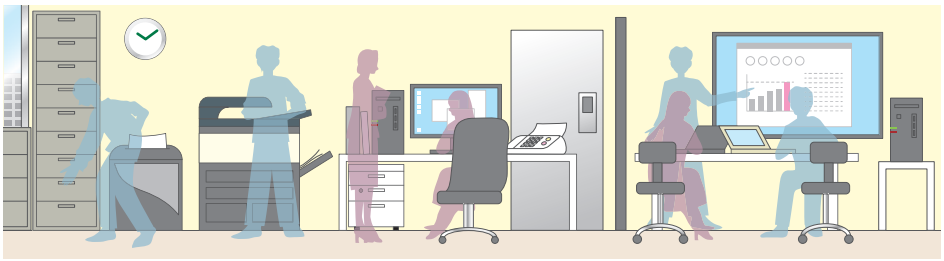
2 Image of evaporating temperature control (Automatic control in 4 patterns)



*1 To change the evaporating temperature setting, the setting of the dip switch on the outdoor unit needs to be changed.

*2 When the difference between the indoor unit air-intake temperature and the actual temperature exceeds 33°F (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
- During low load times when air conditioners are used for cooling (such as during the morning)

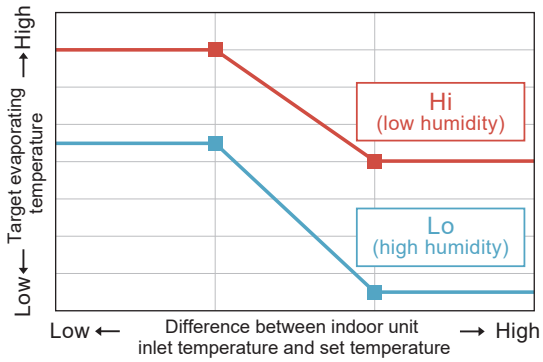


High sensible heat operation (during cooling)

Y-Series HP | Y-Series P | R2-Series EP | WY-Series | WR2-Series
Y-Series EP | R2-Series HP | R2-Series P | WY-Series 575 V | WR2-Series 575 V

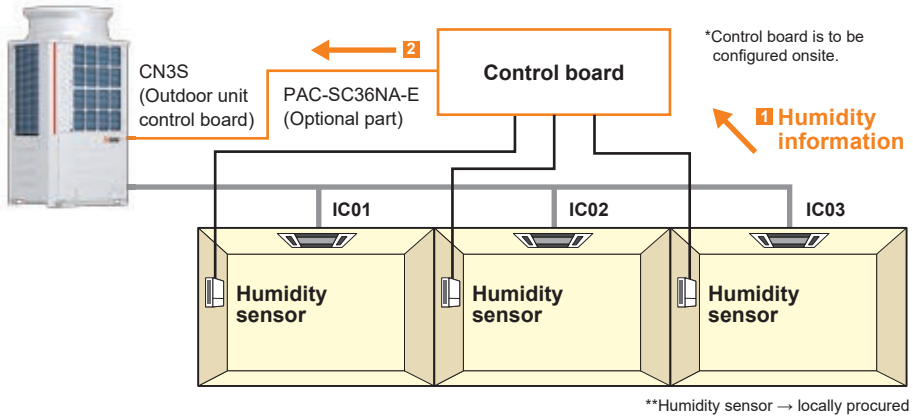
Evaporating temperature is controlled according to room temperature and humidity.

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



In high sensible heat operation mode, air conditioners consume less energy, thereby realiz ng cost savings.
With the installation of a locally-procured humidity sensor, 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 normal operation temperature to a high evaporating temperature to realiz energy savings.

• Image of installation of locally-procured humidity sensors



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.

• Temperature and humidity conditions

	Comfort level in room	Zone	Status of outdoor unit	Evaporating temperature control
Comfortable temperature and humidity High sensible heat operation	Comfortable	Humidity / Comfortable zone / Temperature	Comfortable and energy-saving operation even at low compressor rotating speed	Temperature of indoor unit refrigerant is kept high Hi Lo Low ← Target evaporating temperature → High Low ← Difference between indoor unit inlet temperature and set temperature → High
High humidity	A little humid	Humidity / Comfortable zone / Temperature	Compressor rotates at medium speed to reduce humidity	Temperature of indoor unit refrigerant is slightly reduced. Hi Lo Low ← Target evaporating temperature → High Low ← Difference between indoor unit inlet temperature and set temperature → High
High temperature and humidity	Uncomfortable	Humidity / Comfortable zone / Temperature	Compressor rotates at high speed to reduce temperature and humidity	Temperature of indoor unit refrigerant is greatly reduced. Hi Lo Low ← Target evaporating temperature → High Low ← Difference between indoor unit inlet temperature and set temperature → High

Demand control

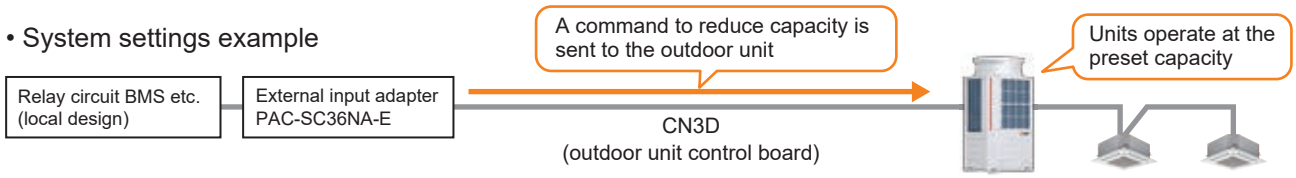
Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

This function reduces the capacity of the outdoor unit by way of the external input to the outdoor unit.
The used 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 made to operate in capacity-save mode by receiving external signals.

• System settings example



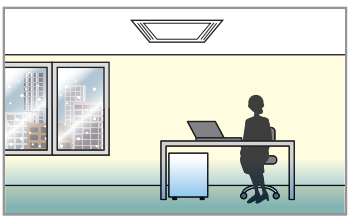
Continuous heating operation

Y-Series HP | Y-Series P | R2-Series EP
Y-Series EP | R2-Series HP | 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 without stopping the heating operation.
Reducing the stoppage time of the heating operation suppresses drop in room temperature.
Use the dip switch on the outdoor unit to switch between the continuous heating operation method and conventional defrosting method.

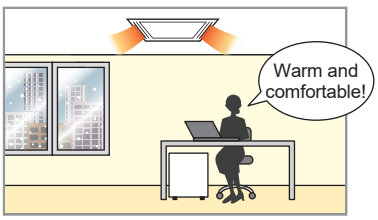
* Heating capacity drops during continuous heating operation.

Conventional defrosting operation



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

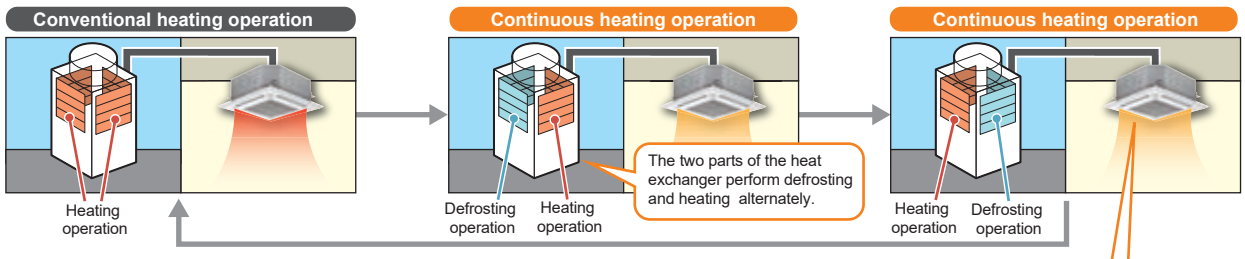
Continuous heating operation



You can enjoy a comfortable environment that is continuously heated.

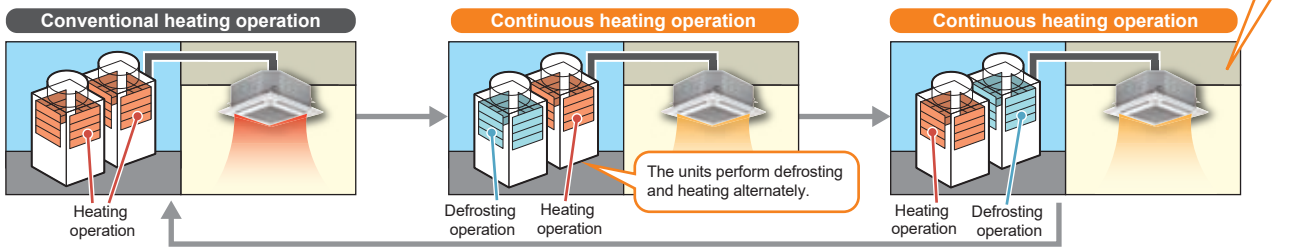
• Image of continuous heating operation (single unit)

The heat exchanger of the outdoor unit is divided into two parts. Even when defrosting is necessary, one part of the heat exchanger continues the heating operation.



• Image of continuous heating operation (combination)

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

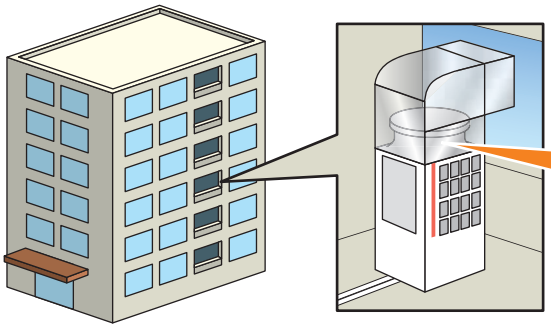


Selectable external static pressure of the outdoor unit

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V

The static pressure specification for the outdoor unit can be selected (0 in.WG, 0.12 in.WG, 0.24 in.WG, 0.32 in.WG/0.30, 60, 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.
* Noise level and power consumption vary depending on the static pressure setting.
* For details of the installation restrictions, refer to the DATABOOK.



Long exhaust hoods can be connected.
This facilitates installation of the unit on each floor of a high-rise building or on balconies.

Maximum external static pressure
0.24 in.WG (80 Pa) (local setting)

* PUHY-HP-T(S)NU/Y(S)NU-A1
  PUHY-(E)P-T(S)NU/Y(S)NU-A1
  PURY-HP-T(S)NU/Y(S)NU-A1
  PURY-(E)P-T(S)NU/Y(S)NU-A1

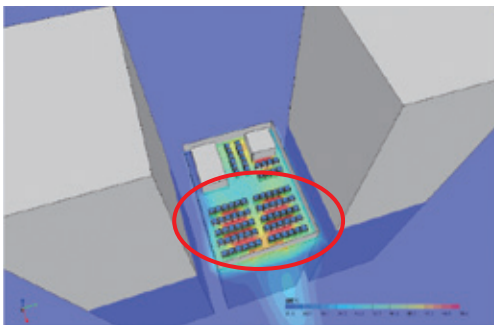
Operation at high outside temperatures

Y-Series HP | Y-Series P | R2-Series EP
Y-Series EP | R2-Series HP | R2-Series P

In built-up areas where the passage of air is blocked, the warm air that is discharged from the outdoor units may cause high temperatures around the units. YNW has an expanded guaranteed operation range of up to 125°F (52°C), so it can be used reliably even if the outdoor air temperature rises abnormally during the hot summer daytime.

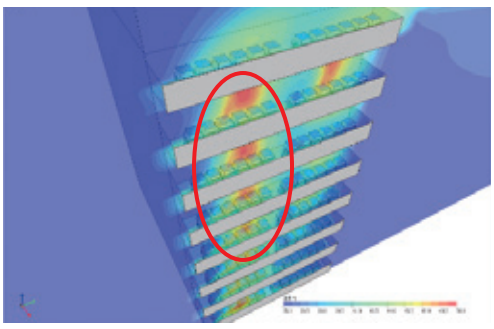
Example of flow analysis Conditions: Outdoor air temperature = 95°F (35°C) (DB), Room temperature = 80°F (27°C) (DB)

Built-up area with buildings and outdoor units



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

Installation on each floor a high-rise building



When the outdoor units are installed on the balconies, the high temperature air discharged from the units may be trapped in the balcony.

• Models for use in outside temperatures of up to 125°F (52°C)



PUHY-HP-T(S)NU/Y(S)NU-A1
PUHY-(E)P-T(S)NU/Y(S)NU-A1
PURY-HP-T(S)NU/Y(S)NU-A1
PURY-(E)P-T(S)NU/Y(S)NU-A1

* These images show the standard Y type.

Rotation control

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

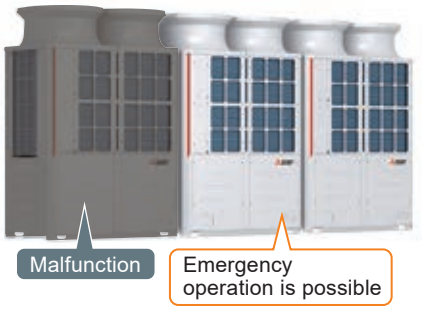
With the combination model, the outdoor units operate alternately. This reduces operating load and leads to a longer service life.



Emergency operation mode

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

Emergency operation is possible with an indoor unit remote control. With the combination model, if one outdoor unit malfunctions, the other outdoor units temporary performs emergency operation.



Rest assured in case of unit failure



Emergency operation can be performed easily with a local remote controller.

Pump down function

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P | WY-Series | WR2-Series
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V | WY-Series 575 V | WR2-Series 575 V

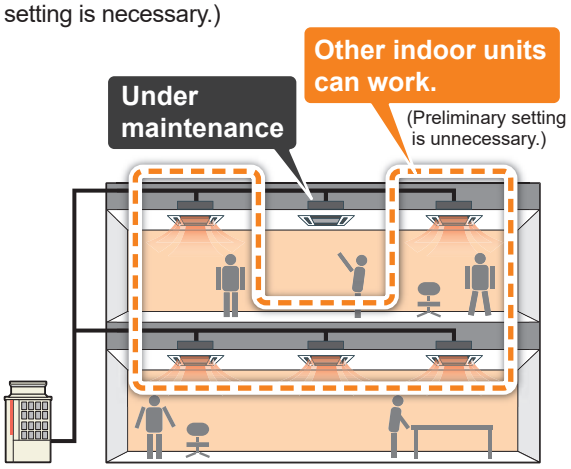
This function collects the refrigerant that remains in the indoor unit and the outdoor unit piping when the refrigerant piping needs to be removed, such as when the air conditioner is relocated.
This function can also be used to stop the operation of the indoor unit and return the refrigerant to the 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 designed and prepared on site.

Individual LEV control

Y-Series HP | R2-Series HP | WY-Series
Y-Series EP | R2-Series EP | WY-Series 575 V
Y-Series P | R2-Series P | WR2-Series
Y-Series 575 V | R2-Series 575 V | WR2-Series 575 V

Even if one of the indoor units stops for repair, the LEV of the indoor unit can be closed so that the other indoor units can continue to operate. (No preliminary setting is necessary.)



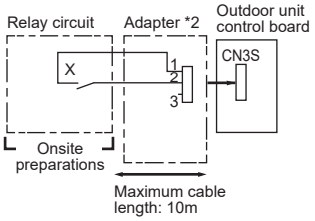
Snow sensor setting

Y-Series HP | Y-Series P | R2-Series HP | R2-Series P
Y-Series EP | Y-Series 575 V | R2-Series EP | R2-Series 575 V

When a snow buildup signal is received from the snow sensor (procured locally), or when ambient temperature drops below 41ºF (5ºC) (detected with TH7), the outdoor unit is automatically switched to ventilation operation. This activates the outdoor unit fan to prevent snow from building up on the unit.

• Snow sensor setting example

Snow sensor (CN3S)



X: Relay Contact rating voltage >= 15VDC
Contact rating current >= 0.1A
Minimum applicable load =< 1mA at DC

*2. Optional part: PAC-SC36NA-E or locally procured product
Snow sensor: The outdoor fan runs when X is closed in stop mode.

System	Air cooled											
Type	Heat pump											
Model name	H2i Y-Series 208-230 V						H2i Y-Series 460 V					
	PUHY-HP TNU-A1			PUHY-HP TSNU-A1			PUHY-HP YNU-A1			PUHY-HP YSNU-A1		
Model	 size L						 size L					
ton \ modules / BTU/h	S	L	XL	S	L	XL	S	L	XL	S	L	XL
6	72K P72		72K						72K			
8	96K P96		96K						96K			
10	120K P120		120K						120K			
12	144K P144					72K 72K						72K 72K	
14	168K P168											
16	192K P192					96K 96K						96K 96K	
18	216K P216											
20	240K P240					120K 120K						120K 120K	

*The box numbers in the table indicate the BTU/h, and the combination of L modules.

System	Air cooled													
Type	Heat pump													
Model name	Y-Series High efficiency 208-230 V							Y-Series High efficiency 460 V						
	PUHY-EP TNU-A1(-BS)				PUHY-EP TSNU-A1(-BS)			PUHY-EP YNU-A1(-BS)				PUHY-EP YSNU-A1(-BS)		
Model	 size S  size L  size XL  size EXL							 size S  size L  size XL  size EXL						
ton	modules / BTU/h	S	L	XL	EXL	S	L	XL	S	L	XL	EXL	S	L	XL
6	72K P72	72K							72K						
8	96K P96		96K							96K					
10	120K P120		120K							120K					
12	144K P144		144K							144K					
14	168K P168			168K							168K				
16	192K P192				192K		96K 96K					192K		96K 96K	
18	216K P216				216K		96K 120K					216K		96K 120K	
20	240K P240				240K		120K 120K					240K		120K 120K	
22	264K P264					72K	96K 96K						72K	96K 96K	
24	288K P288					72K	96K 120K						72K	96K 120K	
26	312K P312					72K	120K 120K						72K	120K 120K	
28	336K P336						96K 120K 120K							96K 120K 120K	
30	360K P360						120K 120K 120K							120K 120K 120K	
32	384K P384						120K 120K 144K							120K 120K 144K	
34	408K P408						120K 144K 144K							120K 144K 144K	
36	432K P432						144K 144K 144K							144K 144K 144K	

*The box numbers in the table indicate the BTU/h, and the combination of S, L, XL, and EXL modules.

System		Air cooled											
Type		Heat pump											
Model name		Y-Series Standard 208-230 V						Y-Series Standard 460 V					
		PUHY-P TNU-A1(-BS)			PUHY-P TSNU-A1(-BS)			PUHY-P YNU-A1(-BS)			PUHY-P YSNU-A1(-BS)		
Model		 size S size L size XL						 size S size L size XL					
ton	modules / BTU/h	S	L	XL	S	L	XL	S	L	XL	S	L	XL
6	72K P72	72K						72K					
8	96K P96		96K						96K				
10	120K P120		120K						120K				
12	144K P144		144K						144K				
14	168K P168												
16	192K P192					96K 96K						96K 96K	
18	216K P216					96K 120K						96K 120K	
20	240K P240					120K 120K						120K 120K	
22	264K P264				72K	96K 96K					72K	96K 96K	
24	288K P288				72K	96K 120K					72K	96K 120K	
26	312K P312				72K	120K 120K					72K	120K 120K	
28	336K P336					96K 120K 120K						96K 120K 120K	
30	360K P360					120K 120K 120K						120K 120K 120K	
32	384K P384					120K 120K 144K						120K 120K 144K	
34	408K P408					120K 144K 144K						120K 144K 144K	
36	432K P432					144K 144K 144K						144K 144K 144K	

*The box numbers in the table indicate the BTU/h, and the combination of S, L, and XL modules.

System	Air cooled					
Type	Heat pump					
Model name	Y-Series Standard 575V					
	PUHY-P ZKMU-B(-BS)			PUHY-P ZSKMU-B(-BS)		
Model	 size S  size L  size XL					
ton / modules / BTU/h	S	L	XL	S	L	XL
6	72K P72	72K					
8	96K P96		96K				
10	120K P120			120K			
12	144K P144			144K			
14	168K P168				72K	96K	
16	192K P192				72K		120K
18	216K P216					96K	120K
20	240K P240						120K 120K
22	264K P264				72K 72K		120K
24	288K P288				72K	96K	120K
26	312K P312				72K		120K 120K
28	336K P336					96K	120K 120K
30	360K P360						120K 120K 120K

*The box numbers in the table indicate the BTU/h, and the combination of S, L, and XL modules.

System	Air cooled											
Type	Heat recovery											
Model name	H2i R2-Series 208-230 V						H2i R2-Series 460 V					
	PURY-HP TNU-A1			PURY-HP TSNU-A1			PURY-HP YNU-A1			PURY-HP YSNU-A1		
Model	 size L						 size L					
ton	modules / BTU/h	S	L	XL	S	L	XL	S	L	XL	S	L	XL
6	72K P72		72K						72K				
8	96K P96		96K						96K				
10	120K P120		120K						120K				
12	144K P144					72K 72K						72K 72K	
14	168K P168												
16	192K P192					96K 96K						96K 96K	
18	216K P216												
20	240K P240					120K 120K						120K 120K	

*The box numbers in the table indicate the BTU/h, and the combination of S, L, and XL modules.

System	Air cooled															
Type	Heat recovery															
Model name	R2-Series High efficiency 208-230 V								R2-Series High efficiency 460 V							
	PURY-EP TNU-A1(-BS)				PURY-EP TSNU-A1(-BS)				PURY-EP YNU-A1(-BS)				PURY-EP YSNU-A1(-BS)			
Model	 size S size L size XL size EXL								 size S size L size XL size EXL							
ton	modules / BTU/h	S	L	XL	EXL	S	L	XL	EXL	S	L	XL	EXL	S	L	XL	EXL
6	72K P72	72K								72K							
8	96K P96		96K								96K						
10	120K P120		120K								120K						
12	144K P144		144K								144K						
14	168K P168			168K								168K					
16	192K P192				192K		96K 96K						192K		96K 96K		
18	216K P216				216K		96K 120K						216K		96K 120K		
20	240K P240				240K		120K 120K						240K		120K 120K		
22	264K P264						120K 144K								120K 144K		
24	288K P288						144K 144K								144K 144K		
26	312K P312						144K	168K							144K	168K	
28	336K P336							168K 168K								168K 168K	
32	384K P384								192K 192K								192K 192K
36	432K P432								216K 216K								216K 216K

*The box numbers in the table indicate the BTU/h, and the combination of S, L, XL, and EXL modules.

System	Air cooled											
Type	Heat recovery											
Model name	R2-Series Standard 208-230 V						R2-Series Standard 460 V					
	PURY-P TNU-A1(-BS)			PURY-P TSNU-A1(-BS)			PURY-P YNU-A1(-BS)			PURY-P YSNU-A1(-BS)		
Model	 size S size L size XL						 size S size L size XL					
ton	modules / BTU/h	S	L	XL	S	L	XL	S	L	XL	S	L	XL
6	72K P72	72K						72K					
8	96K P96		96K						96K				
10	120K P120		120K						120K				
12	144K P144		144K						144K				
14	168K P168			168K						168K			
16	192K P192					96K 96K						96K 96K	
18	216K P216					96K 120K						96K 120K	
20	240K P240					120K 120K						120K 120K	
22	264K P264					120K 144K						120K 144K	
24	288K P288					144K 144K						144K 144K	
26	312K P312					144K	168K					144K	168K
28	336K P336						168K 168K						168K 168K

*The box numbers in the table indicate the BTU/h, and the combination of S, L, and XL modules.

System	Air cooled					
Type	Heat recovery					
Model name	R2-Series Standard 575V					
	PURY-P ZKMU-B(-BS)			PURY-P ZSKMU-B(-BS)		
Model	 size S  size L  size XL					
ton \ modules / BTU/h	S	L	XL	S	L	XL
6 — 72K P72	72K					
8 — 96K P96		96K				
10 — 120K P120			120K			
12 — 144K P144			144K			
14 — 168K P168				72K	96K	
16 — 192K P192					96K 96K	
18 — 216K P216					96K	120K
20 — 240K P240						120K 120K
22 — 264K P264						120K 144K
24 — 288K P288						144K 144K

*The box numbers in the table indicate the BTU/h, and the combination of S, L, and XL modules.

System		Air cooled	
Type		Heat pump	
Model name		S-Series H2i 208-230V	S-Series 208-230V
		PUMY-HP NKMU2	PUMY-P NKMU4(-BS)
Model			
ton	BTU/h		
3	36K P36	36K	36K
3.5	42K P42	42K	
4	48K P48	48K	48K
5	60K P60		60K

System		Water cooled							
Type		Heat pump							
Model name		WY-Series 208-230 V				WY-Series 460 V			
		PQHY-P TLMU-A2		PQHY-TSLMU-A2		PQHY-P YLMU-A2		PQHY-YSLMU-A2	
Model		 size S  size L				 size S  size L			
ton	modules / BTU/h	S	L	S	L	S	L	S	L
6	72K P72	72K				72K			
8	96K P96	96K				96K			
10	120K P120	120K				120K			
12	144K P144		144K	72K 72K			144K	72K 72K	
14	168K P168		168K	72K 96K			168K	72K 96K	
16	192K P192		192K	96K 96K			192K	96K 96K	
18	216K P216		216K	96K 120K			216K	96K 120K	
20	240K P240		240K	120K 120K			240K	120K 120K	
22	264K P264								
24	288K P288				144K 144K				144K 144K
26	312K P312				144K 168K				144K 168K
28	336K P336				168K 168K				168K 168K
30	360K P360				168K 192K				168K 192K

*The box numbers in the table indicate the BTU/h, and the combination of S and L modules.

System		Water cooled			
Type		Heat pump			
Model name		WY-Series 575 V			
		PQHY-P ZLMU-B		PQHY-ZSLMU-B	
Model		 size S		size L	
ton	modules / BTU/h	S	L	S	L
6	72K P72	72K			
8	96K P96	96K			
10	120K P120	120K			
12	144K P144		144K	72K 72K	
14	168K P168		168K	72K 96K	
16	192K P192		192K	96K 96K	
18	216K P216			96K 120K	
20	240K P240			120K 120K	
22	264K P264				
24	288K P288				144K 144K
26	312K P312				144K 168K
28	336K P336				168K 168K
30	360K P360				168K 192K

*The box numbers in the table indicate the BTU/h, and the combination of S and L modules.

System		Water cooled							
Type		Heat recovery							
Model name		WR2-Series 208-230V				WR2-Series 460V			
		PQRY-P TLMU-A2		PQRY-P TSLMU-A2		PQRY-P YLMU-A2		PQRY-P YSLMU-A2	
Model		 size S  size L				 size S  size L			
ton	modules / BTU/h	S	L	S	L	S	L	S	L
6	72K P72	72K				72K			
8	96K P96	96K				96K			
10	120K P120	120K				120K			
12	144K P144		144K	72K 72K			144K	72K 72K	
14	168K P168		168K	72K 96K			168K	72K 96K	
16	192K P192		192K	96K 96K			192K	96K 96K	
18	216K P216		216K	96K 120K			216K	96K 120K	
20	240K P240		240K	120K 120K			240K	120K 120K	
22	264K P264								
24	288K P288				144K 144K				144K 144K
26	312K P312				144K 168K				144K 168K
28	336K P336				168K 168K				168K 168K

*The box numbers in the table indicate the BTU/h, and the combination of S and L modules.

System		Water cooled			
Type		Heat pump			
Model name		WR2-Series 575V			
		PQRY-P ZLMU-B		PQRY-P ZSLMU-B	
Model		 size S		size L	
ton	modules / BTU/h	S	L	S	L
6	72K P72	72K			
8	96K P96	96K			
10	120K P120	120K			
12	144K P144		144K	72K 72K	
14	168K P168		168K	72K 96K	
16	192K P192		192K	96K 96K	
18	216K P216			96K 120K	
20	240K P240			120K 120K	
22	264K P264				
24	288K P288				144K 144K
26	312K P312				144K 168K
28	336K P336				168K 168K

*The box numbers in the table indicate the BTU/h, and the combination of S and L modules.

Y-Series

Cooling or Heating Heat pump

- Optional parts P.48
- Specifications

460V 208-230V	H2i	PUHY-HP T(Y)NU-A1(-BS)	P.49 - P.52
	High efficiency	PUHY-EP T(Y)NU-A1(-BS)	P.53 - P.68
	Standard	PUHY-P T(Y)NU-A1(-BS)	P.69 - P.82
575V	Standard	PUHY-P ZKMU-B(-BS)	P.83 - P.89

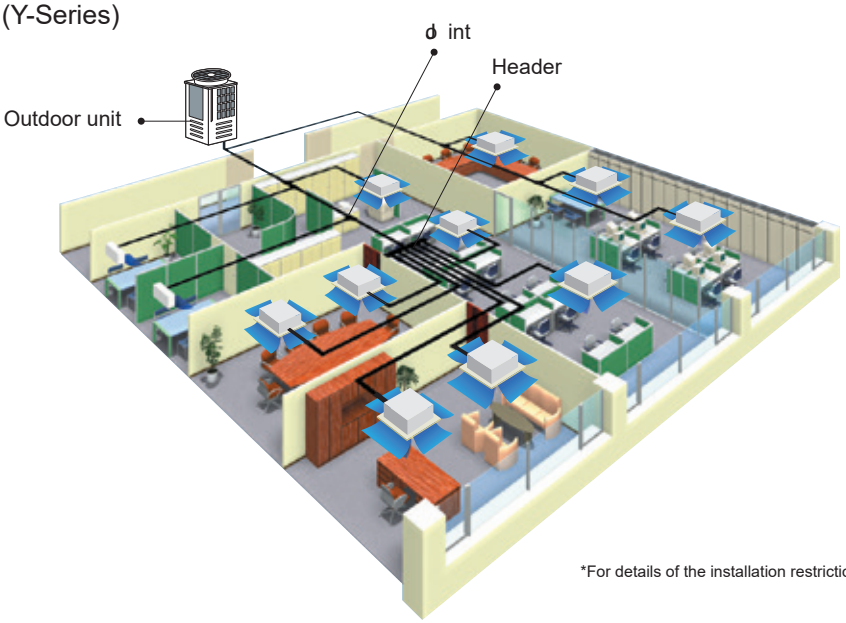


*This image shows the standard type.

A two-pipe zoned system designed for heat pump operation

The CITY MULTI Y-Series (for large applications) makes use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all ø nes. The compact outdoor unit utiliz s an inverter-driven compressor for effective energy use.
With a wide lineup of indoor units connected to a flexible piping system, the CITY MULTI Series can be configured to suit diverse applications. Up to 50 (Y-Series) indoor units can be connected with up to 130% connected capacity to maximiz engineering design options. This feature allows easy air conditioning in each area with convenient individual controllers.

• Installation image (Y-Series)

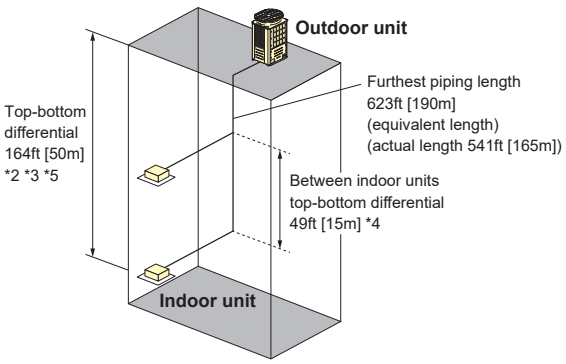


*For details of the installation restrictions, refer to the DATABOOK.

• System Pipe Lengths [HP72−HP240 T(S)NU/Y(S)NU]
[(E)P72−(E)P432 T(S)NU/Y(S)NU]
[P72−P360 Z(S)KMU]

Refrigerant Piping Lengths	Maximum feet [Meters]
Total length	3,280 [1,000]
Maximum allowable length	541 (623 equivalent) [165 (190)]
Farthest indoor from first branch	131 [40]*1

Vertical differentials between units	Maximum feet [Meters]
Indoor/outdoor (outdoor higher)	164 [50]*2
Indoor/outdoor (outdoor lower)	131 [40]*3
Indoor/indoor	49 [15]*4



*1 295ft [90m] is available. When the piping length exceeds 131ft [40m], use one siz larger liquid pipe starting with the section of piping where 131ft [40m] is exceeded and all piping after that point.
*2 370ft [113m] is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
*3 196ft [60m] is available depending on the model and installation conditions. For more detailed information, contact your local distributor.
*4 98ft[30m] is available. If the height difference between indoor units exceeds 49ft [15m] (but does not exceed 98ft [30m]), use one siz larger pipes for indoor unit liquid pipes.
*5 When the outdoor unit is installed below the indoor unit, top-bottom differential is 131ft [40m].

Optional parts

• For H2i, High efficiency, Standard

Description	Model	Remarks
Panel heater kit *1	PAC-PH01EHYU-E	For S module
	PAC-PH02EHYU-E	For L module
	PAC-PH03EHYU-E	For XL module
Twinning kit	CMY-Y100CBK3	For PUHY-(E)P192-(E)P240T/YSNU-A1, PUHY-HP144T/YSNU-A1
	CMY-Y300CBK2	For PUHY-(E)P264-(E)P432T/YSNU-A1, PUHY-HP192-HP240T/YSNU-A1
Branch pipe (Joint)	CMY-Y102SS-G2	72 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	73-144 (Total capacity of indoor unit)
	CMY-Y202S-G2	145-240 (Total capacity of indoor unit)
	CMY-Y302S-G2	241-above (Total capacity of indoor unit)
Branch pipe (Header)	CMY-Y104C-G	For 4 branches
	CMY-Y108C-G	For 8 branches
	CMY-Y1010C-G	For 10 branches
Fin Guard *2	PAC-FG01S-E	For side surfaces of HP model (a set of two pieces)
	PAC-FG02B-E	For rear surface of HP model (a set of two pieces)

*1. If there is a risk that the drain water will freeze inside the outdoor unit, the installation of a panel heater is recommended. The HP models come equipped with panel heaters. For details, refer to the installation manual for the panel heater.
*2. P/EP models come equipped with fin guard.

• For Standard (575V)

Description	Model	Remarks	
Twinning kit	CMY-Y100CBK3	For P168−P240 ZSKMU-B	
Branch pipe (Joint)	CMY-Y102SS-G2	72 or below (Total capacity of indoor unit)	
	CMY-Y102LS-G2	73−144 (Total capacity of indoor unit)	The 1st branch of P72−P144ZKMU-B
	CMY-Y202S-G2	145−240 (Total capacity of indoor unit)	The 1st branch of P168−P240ZSKMU-B
	CMY-Y302S-G2	241 or above (Total capacity of indoor unit)	The 1st branch of P264−P360ZSKMU-B
Branch pipe (Header)	CMY-Y104C-G	For 4 branches	
	CMY-Y108C-G	For 8 branches	
	CMY-Y1010C-G	For 10 branches	

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

OUTDOOR UNIT
Y-Series H2i (208-230V)
PUHY-HP TNU-A1



► Specifications

Outdoor Model			PUHY-HP72TNU-A1		PUHY-HP96TNU-A1		PUHY-HP120TNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		120,000	
		kW	21.1		28.1		35.2	
	Power input	kW	5.39		6.23		8.53	
(208-230)	Current input	A	16.6-15.0		19.2-17.3		26.3-23.7	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	5.44	5.59	7.25	7.19	10.13	9.72
(208-230)	Current input	A	16.7-15.1	17.2-15.5	22.3-20.2	22.1-20.0	31.2-28.2	29.9-27.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
		kW	23.4		31.7		39.6	
	Power input	kW	5.33		7.33		9.63	
(208-230)	Current input	A	16.4-14.8		22.6-20.4		29.7-26.8	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	4.83	5.04	6.65	6.86	8.55	9.17
(208-230)	Current input	A	14.8-13.4	15.5-14.0	20.5-18.5	21.1-19.1	26.3-23.8	28.2-25.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*3	dB <A>	74.0/76.0		76.0 / 77.5		79.5/80.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	55-49		63-57		66-60	
Maximum Overcurrent Protection		A	90-80		100-90		110-100	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6700 / 6700		7400 / 7400		7750 / 7750	
		m^3 / min	190 / 190		210 / 210		220 / 220	
	*3	L / s	3170 / 3170		3500 / 3500		3670 / 3670	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.8		4.5		6.5	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 × 48-7/8 × 29-3/16		71-5/8 × 48-7/8 × 29-3/16		71-5/8 × 48-7/8 × 29-3/16	
		mm	1818 × 1240 × 740		1818 × 1240 × 740		1818 × 1240 × 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A × 21 lbs + 9 oz (9.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
	Control		LEV and HIC circuit		LEV and HIC circuit		LEV and HIC circuit	
Net weight		lbs (kg)	609 (276)		653 (296)		655 (297)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series H2i (208-230V)
PUHY-HP TSNU-A1



► Specifications

Outdoor Model			PUHY-HP144TSNU-A1		PUHY-HP192TSNU-A1		PUHY-HP240TSNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	144,000		192,000		240,000	
		kW	42.2		56.3		70.3	
	Power input	kW	12.20		13.79		19.37	
(208-230)	Current input	A	37.6-34.0		42.5-38.4		59.7-54.0	
(Rated)		BTU / h	138,000		184,000		230,000	
		kW	40.4		53.9		67.4	
	Power input	kW	11.73	12.34	15.79	15.27	22.50	20.35
(208-230)	Current input	A	36.1-32.7	38.0-34.4	48.6-44.0	47.0-42.5	69.3-62.7	62.7-56.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	160,000		215,000		270,000	
		kW	46.9		63.0		79.1	
	Power input	kW	11.70		15.91		21.38	
(208-230)	Current input	A	36.0-32.6		49.0-44.3		65.9-59.6	
(Rated)		BTU / h	152,000		206,000		258,000	
		kW	44.5		60.4		75.6	
	Power input	kW	10.50	10.99	14.39	14.79	19.52	19.76
(208-230)	Current input	A	32.3-29.2	33.8-30.6	44.3-40.1	45.6-41.2	60.2-54.4	60.9-55.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~48		P04~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	77.5/79.5		78.5/81.0		83.0/84.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PUHY-HP72TNU-A1	PUHY-HP72TNU-A1	PUHY-HP96TNU-A1	PUHY-HP96TNU-A1	PUHY-HP120TNU-A1	PUHY-HP120TNU-A1
Minimum Circuit Ampacity		A	55-49	55-49	63-57	63-57	66-60	66-60
Maximum Overcurrent Protection		A	90-80	90-80	100-90	100-90	110-100	110-100
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6700 / 6700	6700 / 6700	7400 / 7400	7400 / 7400	7750 / 7750	7750 / 7750
		m^3 / min	190 / 190	190 / 190	210 / 210	210 / 210	220 / 220	220 / 220
	*3	L / s	3170 / 3170	3170 / 3170	3500 / 3500	3500 / 3500	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.8	3.8	4.5	4.5	6.5	6.5
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A × 21 lbs + 9 oz (9.8 kg)	R410A × 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
	Control		LEV and HIC circuit		LEV and HIC circuit		LEV and HIC circuit	
Net weight		lbs (kg)	609 (276)	609 (276)	653 (296)	653 (296)	655 (297)	655 (297)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series H2i (460V)
PUHY-HP YNU-A1



► Specifications

Outdoor Model			PUHY-HP72YNU-A1		PUHY-HP96YNU-A1		PUHY-HP120YNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	72,000		96,000		120,000	
		kW	21.1		28.1		35.2	
	Power input	kW	5.39		6.23		8.53	
(460)	Current input	A	7.5		8.6		11.8	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	5.44	5.59	7.25	7.19	10.13	9.72
(460)	Current input	A	7.5	7.7	10.1	10.0	14.1	13.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	80,000		108,000		135,000	
		kW	23.4		31.7		39.6	
	Power input	kW	5.33		7.33		9.63	
(460)	Current input	A	7.4		10.2		13.4	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	4.83	5.04	6.65	6.86	8.55	9.17
(460)	Current input	A	6.7	7.0	9.2	9.5	11.9	12.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room) *3		dB <A>	74.0/76.0		76.0 / 77.5		79.5/80.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	25		29		35	
Maximum Overcurrent Protection		A	40		45		50	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6700 / 6700		7400 / 7400		7750 / 7750	
		m^3 / min	190 / 190		210 / 210		220 / 220	
	*3	L / s	3170 / 3170		3500 / 3500		3670 / 3670	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.8		4.5		6.5	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 × 48-7/8 × 29-3/16		71-5/8 × 48-7/8 × 29-3/16		71-5/8 × 48-7/8 × 29-3/16	
		mm	1818 × 1240 × 740		1818 × 1240 × 740		1818 × 1240 × 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
	Control		LEV and HIC circuit		LEV and HIC circuit		LEV and HIC circuit	
Net weight		lbs (kg)	644 (292)		688 (312)		691 (313)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series H2i (460V)
PUHY-HP YSNU-A1



► Specifications

Outdoor Model				PUHY-HP144YSNU-A1		PUHY-HP192YSNU-A1		PUHY-HP240YSNU-A1	
Indoor Model				Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source				3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)		*1	BTU / h	144,000		192,000		230,000	
			kW	42.2		56.3		67.4	
	Power input		kW	12.20		13.79		19.37	
(460)	Current input		A	17.0		19.2		27.0	
(Rated)			BTU / h	138,000		184,000		230,000	
			kW	40.4		53.9		67.4	
	Power input		kW	11.73	12.34	15.79	15.27	22.50	20.35
(460)	Current input		A	16.3	17.2	22.0	21.2	31.3	28.3
Temp. range of cooling	Indoor		W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor		D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)		*2	BTU / h	160,000		215,000		270,000	
			kW	46.9		63.0		79.1	
	Power input		kW	11.70		15.91		21.38	
(460)	Current input		A	16.3		22.1		29.8	
(Rated)			BTU / h	152,000		206,000		258,000	
			kW	44.5		60.4		75.6	
	Power input		kW	10.50	10.99	14.39	14.79	19.52	19.76
(460)	Current input		A	14.6	15.3	20.0	20.6	27.2	27.5
Temp. range of heating	Indoor		D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor		W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity			50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity			P04~P96/1~36		P04~P96/1~48		P04~P96/2~50	
Sound power level (measured in anechoic room)		*3	dB <A>	77.5/79.5		79.5 / 81.0		83.0/84.0	
Refrigerant piping diameter	Liquid pipe		in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe		in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model				PUHY-HP72YNU-A1	PUHY-HP72YNU-A1	PUHY-HP96YNU-A1	PUHY-HP96YNU-A1	PUHY-HP120YNU-A1	PUHY-HP120YNU-A1
Minimum Circuit Ampacity			A	25	25	29	29	35	35
Maximum Overcurrent Protection			A	40	40	45	45	50	50
FAN	Type x Quantity			Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate		cfm	6700 / 6700	6700 / 6700	7400 / 7400	7400 / 7400	7750 / 7750	7750 / 7750
			m^3 / min	190 / 190	190 / 190	210 / 210	210 / 210	220 / 220	220 / 220
		*3	L / s	3170 / 3170	3170 / 3170	3500 / 3500	3500 / 3500	3670 / 3670	3670 / 3670
	Control, Driving mechanism			Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output		kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.			0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity			Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method			Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output		kW	3.8	3.8	4.5	4.5	6.5	6.5
	Case heater		kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish				Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D			in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
			mm	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740	1818 x 1240 x 740
Protection devices	High pressure protection			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)			Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor			-	-	-	-	-	-
Refrigerant	Type x original charge			R410A × 21 lbs + 9 oz (9.8 kg)	R410A × 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
	Control			LEV and HIC circuit		LEV and HIC circuit		LEV and HIC circuit	
Net weight			lbs (kg)	644 (292)	644 (292)	688 (312)	688 (312)	691 (313)	691 (313)
Heat exchanger				Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe		in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe		in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts				Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP72TNU-A1 (-BS)		PUHY-EP96TNU-A1 (-BS)		PUHY-EP120TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		115,000	
	*1	kW	21.1		28.1		33.7	
	Power input	kW	4.58		6.12		8.19	
(208-230)	Current input	A	14.1-12.7		18.8-17.0		25.2-22.8	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	4.94	5.45	7.36	7.45	10.41	10.38
(208-230)	Current input	A	15.2-13.7	16.8-15.2	22.6-20.5	22.9-20.7	32.1-29.0	32.0-28.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
	Power input	kW	5.21		7.26		9.63	
(208-230)	Current input	A	16.0-14.5		22.3-20.2		29.7-26.8	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	4.63	5.01	6.59	6.79	8.66	9.06
(208-230)	Current input	A	14.2-12.9	15.4-13.9	20.3-18.3	20.9-18.9	26.7-24.1	27.9-25.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*3	dB <A>	74.5 / 76.0		75.0/77.5		79.5 / 81.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	32-29		44-40		55-49	
Maximum Overcurrent Protection		A	50-45		70-60		90-80	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6000 / 6000		6700 / 6700		7750 / 7750	
		m^3 / min	170 / 170		190 / 190		220 / 220	
	*3	L / s	2830 / 2830		3170 / 3170		3670 / 3670	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.6		5.4		7.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)		R410A x 21 lbs + 9 oz (9.8 kg)		R410A x 21 lbs + 9 oz (9.8 kg)	
Net weight		lbs (kg)	512 (232)		622 (282)		633 (287)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP144TNU-A1 (-BS)		PUHY-EP168TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000	
	*1	kW	42.2		49.2	
	Power input	kW	10.63		13.53	
(208-230)	Current input	A	32.7-29.6		41.7-37.7	
(Rated)		BTU / h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	12.72	12.70	15.65	15.33
(208-230)	Current input	A	39.2-35.4	39.1-35.4	48.2-43.6	47.2-42.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000	
	*2	kW	46.9		55.1	
	Power input	kW	11.84		13.95	
(208-230)	Current input	A	36.5-33.0		43.0-38.9	
(Rated)		BTU / h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	10.74	11.02	12.29	13.17
(208-230)	Current input	A	33.1-29.9	33.9-30.7	37.9-34.2	40.6-36.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42	
Sound power level (measured in anechoic room)	*3	dB <A>	84.0 / 83.5		81.0 / 80.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	60-60		70-67	
Maximum Overcurrent Protection		A	100-100		110-110	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	9200 / 9200		11650 / 10600	
		m^3 / min	260 / 260		330 / 300	
	*3	L / s	4330 / 4330		5500 / 5000	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.92+0.92	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.3		11.2	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	680 (308)		761 (345)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP192TNU-A1 (-BS)		PUHY-EP216TNU-A1 (-BS)		PUHY-EP240TNU-A1(-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
	Power input	kW	16.66		18.33		21.35	
(208-230)	Current input	A	51.3-46.4		56.5-51.1		65.8-59.5	
(Rated)		BTU / h	184,000		206,000		214,000	
		kW	53.9		60.4		62.7	
	Power input	kW	17.64	17.44	20.56	20.13	21.36	20.89
(208-230)	Current input	A	54.4-49.2	53.7-48.6	63.4-57.3	62.0-56.1	65.8-59.5	64.4-58.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	215,000		243,000		250,000	
	*2	kW	63.0		71.2		73.3	
	Power input	kW	16.38		20.00		21.44	
(208-230)	Current input	A	50.5-45.6		61.6-55.7		66.1-59.7	
(Rated)		BTU / h	204,000		232,000		240,000	
		kW	59.8		68.0		70.3	
	Power input	kW	14.35	15.55	17.79	18.92	19.61	19.96
(208-230)	Current input	A	44.2-40.0	47.9-43.3	54.8-49.6	58.3-52.7	60.4-54.6	61.5-55.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	88.0 / 86.5		88.0 / 86.5		91.5 / 87.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity		A	80-74		88-80		88-85	
Maximum Overcurrent Protection		A	125-125		150-125		150-125	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	14100 / 13750		14100 / 13750		14100 / 13750	
		m^3 / min	400 / 390		400 / 390		400 / 390	
	*3	L / s	6670 / 6500		6670 / 6500		6670 / 6500	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92		0.92+0.92		0.92+0.92	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	13.2		15.8		17	
	Case heater	kW	0.048		0.048		0.048	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,750 x 740		1,818 x 1,750 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A × 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight		lbs (kg)	874 (396)		874 (396)		874 (396)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 The sound pressure level measured by the conventional method in JIS for reference purpose.
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP192TSNU-A1 (-BS)		PUHY-EP216TSNU-A1 (-BS)		PUHY-EP240TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
(208-230)	Power input	kW	13.57		15.70		18.60	
(208-230)	Current input	A	41.8-37.8		48.4-43.7		57.3-51.8	
(Rated)		BTU / h	184,000		206,000		230,000	
(Rated)		kW	53.9		60.4		67.4	
(208-230)	Power input	kW	15.92	15.83	18.31	18.94	22.73	21.79
(208-230)	Current input	A	49.0-44.4	48.8-44.1	56.4-51.0	58.4-52.8	70.1-63.3	67.2-60.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	216,000		243,000		270,000	
	*2	kW	63.3		71.2		79.1	
(208-230)	Power input	kW	15.74		18.18		21.39	
(208-230)	Current input	A	48.5-43.9		56.0-50.7		65.9-59.6	
(Rated)		BTU / h	206,000		232,000		258,000	
(Rated)		kW	60.4		68.0		75.6	
(208-230)	Power input	kW	14.24	14.62	16.39	16.94	19.79	19.52
(208-230)	Current input	A	43.9-39.7	45.0-40.7	50.5-45.7	52.2-47.2	61.0-55.1	60.2-54.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	78.5/81.0		81.0 / 83.0		83.0 / 84.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-EP96TNU-A1 (-BS)	PUHY-EP96TNU-A1 (-BS)	PUHY-EP96TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	44-40	44-40	44-40	55-49	55-49	55-49
Maximum Overcurrent Protection		A	70-60	70-60	70-60	90-80	90-80	90-80
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6700 / 6700	6700 / 6700	6700 / 6700	7750 / 7750	7750 / 7750	7750 / 7750
		m^3 / min	190 / 190	190 / 190	190 / 190	220 / 220	220 / 220	220 / 220
	*3	L / s	3170 / 3170	3170 / 3170	3170 / 3170	3670 / 3670	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	5.4	7.4	7.4	7.4
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	622 (282)	622 (282)	622 (282)	633 (287)	633 (287)	633 (287)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP264TSNU-A1 (-BS)		PUHY-EP288TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	264,000		288,000	
	*1	kW	77.4		84.4	
	Power input	kW	19.61		21.79	
(208-230)	Current input	A	60.4-54.6		67.2-60.7	
(Rated)		BTU / h	252,000		276,000	
		kW	73.9		80.9	
	Power input	kW	21.78	21.27	25.44	24.64
(208-230)	Current input	A	67.1-60.7	65.5-59.3	78.4-70.9	75.9-68.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	296,000		323,000	
	*2	kW	86.8		94.7	
	Power input	kW	22.13		24.54	
(208-230)	Current input	A	68.2-61.7		75.6-68.4	
(Rated)		BTU / h	282,000		308,000	
		kW	82.6		90.3	
	Power input	kW	20.49	20.21	22.60	22.57
(208-230)	Current input	A	63.1-57.1	62.3-56.3	69.7-63.0	69.6-62.9
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	80.0 / 82.0		82.0/83.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-EP72TNU-A1 (-BS)	PUHY-EP96TNU-A1 (-BS)	PUHY-EP96TNU-A1 (-BS)	PUHY-EP72TNU-A1 (-BS)	PUHY-EP96TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	32-29	44-40	44-40	32-29	44-40	55-49
Maximum Overcurrent Protection		A	50-45	70-60	70-60	50-45	70-60	90-80
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	6700 / 6700	6700 / 6700	6000 / 6000	6700 / 6700	7750 / 7750
		m^3 / min	170 / 170	190 / 190	190 / 190	170 / 170	190 / 190	220 / 220
	*3	L / s	2830 / 2830	3170 / 3170	3170 / 3170	2830 / 2830	3170 / 3170	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.92	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.6	5.4	5.4	3.6	5.4	7.4
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	512 (232)	622 (282)	622 (282)	512 (232)	622 (282)	633 (287)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP312TSNU-A1 (-BS)		PUHY-EP336TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	312,000		336,000	
	*1	kW	91.4		98.5	
	Power input	kW	24.33		26.34	
(208-230)	Current input	A	75.0-67.8		81.2-73.4	
(Rated)		BTU / h	298,000		320,000	
		kW	87.3		93.8	
	Power input	kW	29.62	27.65	31.40	29.39
(208-230)	Current input	A	91.3-82.6	85.2-77.1	96.8-87.5	90.6-81.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	350,000		378,000	
	*2	kW	102.6		110.8	
	Power input	kW	27.37		30.01	
(208-230)	Current input	A	84.4-76.3		92.5-83.7	
(Rated)		BTU / h	334,000		360,000	
		kW	97.9		105.5	
	Power input	kW	25.35	25.02	28.07	26.99
(208-230)	Current input	A	78.1-70.7	77.1-69.7	86.5-78.2	83.2-75.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	83.5 / 85.0		83.5 / 85.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-EP72TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP96TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	32-29	55-49	55-49	44-40	55-49	55-49
Maximum Overcurrent Protection		A	50-45	90-80	90-80	70-60	90-80	90-80
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	7750 / 7750	7750 / 7750	6700 / 6700	7750 / 7750	7750 / 7750
		m^3 / min	170 / 170	220 / 220	220 / 220	190 / 190	220 / 220	220 / 220
	*3	L / s	2830 / 2830	3670 / 3670	3670 / 3670	3170 / 3170	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.6	7.4	7.4	5.4	7.4	7.4
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	512 (232)	633 (287)	633 (287)	622 (282)	633 (287)	633 (287)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP360TSNU-A1 (-BS)		PUHY-EP384TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	360,000		384,000	
	*1	kW	105.5		112.5	
	Power input	kW	28.67		31.41	
(208-230)	Current input	A	88.4-79.9		96.8-87.6	
(Rated)		BTU / h	344,000		364,000	
		kW	100.8		106.7	
	Power input	kW	34.73	32.89	38.77	35.47
(208-230)	Current input	A	107.1-96.8	101.4-91.7	119.5-108.1	109.3-98.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	405,000		430,000	
	*2	kW	118.7		126.0	
	Power input	kW	32.65		35.13	
(208-230)	Current input	A	100.6-91.0		108.3-97.9	
(Rated)		BTU / h	386,000		410,000	
		kW	113.1		120.2	
	Power input	kW	30.33	29.59	32.96	31.88
(208-230)	Current input	A	93.5-84.5	91.2-82.5	101.6-91.9	98.3-88.9
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	84.5 / 86.0		86.5 / 87.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP144TNU-A1 (-BS)
Minimum Circuit Ampacity		A	55-49	55-49	55-49	55-49	55-49	60-60
Maximum Overcurrent Protection		A	90-80	90-80	90-80	90-80	90-80	100-100
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	9200 / 9200
		m^3 / min	220 / 220	220 / 220	220 / 220	220 / 220	220 / 220	260 / 260
	*3	L / s	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	7.4	7.4	7.4	7.4	9.3
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	633 (287)	633 (287)	633 (287)	633 (287)	633 (287)	680 (308)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (208-230V)
PUHY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP408TSNU-A1 (-BS)		PUHY-EP432TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	408,000		432,000	
	*1	kW	119.6		126.6	
	Power input	kW	34.31		37.39	
(208-230)	Current input	A	105.8-95.6		115.3-104.2	
(Rated)		BTU / h	390,000		410,000	
		kW	114.3		120.2	
	Power input	kW	41.87	38.28	44.00	40.19
(208-230)	Current input	A	129.1-116.7	118.0-106.7	135.7-122.7	123.9-112.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	455,000		480,000	
	*2	kW	133.4		140.7	
	Power input	kW	37.71		40.45	
(208-230)	Current input	A	116.3-105.1		124.7-112.8	
(Rated)		BTU / h	430,000		455,000	
		kW	126.0		133.4	
	Power input	kW	35.33	33.88	38.29	36.46
(208-230)	Current input	A	108.9-98.5	104.4-94.4	118.0-106.7	112.4-101.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/3~50		P04~P96/3~50	
Sound power level (measured in anechoic room)	*3	dB <A>	88.0 / 88.0		89.0 / 88.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-EP120TNU-A1 (-BS)	PUHY-EP144TNU-A1 (-BS)	PUHY-EP144TNU-A1 (-BS)	PUHY-EP144TNU-A1 (-BS)	PUHY-EP144TNU-A1 (-BS)	PUHY-EP144TNU-A1 (-BS)
Minimum Circuit Ampacity		A	55-49	60-60	60-60	60-60	60-60	60-60
Maximum Overcurrent Protection		A	90-80	100-100	100-100	100-100	100-100	100-100
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200
		m^3 / min	220 / 220	260 / 260	260 / 260	260 / 260	260 / 260	260 / 260
	*3	L / s	3670 / 3670	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	9.3	9.3	9.3	9.3	9.3
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	633 (287)	680 (308)	680 (308)	680 (308)	680 (308)	680 (308)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP72YNU-A1 (-BS)		PUHY-EP96YNU-A1 (-BS)		PUHY-EP120YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		120,000	
	*1	kW	21.1		28.1		35.2	
	Power input	kW	4.58		6.12		8.19	
(460)	Current input	A	6.3		8.5		11.4	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	4.94	5.45	7.36	7.45	10.41	10.38
(460)	Current input	A	6.8	7.6	10.2	10.3	14.5	14.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
	Power input	kW	5.21		7.26		9.63	
(460)	Current input	A	7.2		10.1		13.4	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	4.63	5.01	6.59	6.79	8.66	9.06
(460)	Current input	A	6.4	6.9	9.1	9.4	12.0	12.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*3	dB <A>	74.5 / 76.0		75.0/77.5		79.5 / 81.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	14		20		25	
Maximum Overcurrent Protection		A	20		30		40	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6000 / 6000		6700 / 6700		7750 / 7750	
		m^3 / min	170 / 170		190 / 190		220 / 220	
	*3	L / s	2830 / 2830		3170 / 3170		3670 / 3670	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.6		5.4		7.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)		R410A x 21 lbs + 9 oz (9.8 kg)		R410A x 21 lbs + 9 oz (9.8 kg)	
Net weight		lbs (kg)	545 (247)		657 (298)		668 (303)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP144YNU-A1 (-BS)		PUHY-EP168YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000	
	*1	kW	42.2		49.2	
	Power input	kW	10.63		13.53	
(460)	Current input	A	14.8		18.8	
(Rated)		BTU / h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	12.72	12.70	15.65	15.33
(460)	Current input	A	17.7	17.7	21.8	21.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000	
	*2	kW	46.9		55.1	
	Power input	kW	11.84		13.95	
(460)	Current input	A	16.5		19.4	
(Rated)		BTU / h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	10.74	11.02	12.29	13.17
(460)	Current input	A	14.9	15.3	17.1	18.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42	
Sound power level (measured in anechoic room)	*3	dB <A>	84.0 / 83.5		81.0 / 80.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	33		34	
Maximum Overcurrent Protection		A	50		50	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	9200 / 9200		11650 / 10600	
		m^3 / min	260 / 260		330 / 300	
	*3	L / s	4330 / 4330		5500 / 5000	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.92+0.92	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.3		11.2	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	715 (324)		794 (360)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS/102LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP192YNU-A1 (-BS)		PUHY-EP216YNU-A1 (-BS)		PUHY-EP240YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
	Power input	kW	16.66		18.33		21.35	
(460)	Current input	A	23.2		25.5		29.7	
(Rated)		BTU / h	184,000		206,000		214,000	
		kW	53.9		60.4		62.7	
	Power input	kW	17.64	17.44	20.56	20.13	21.36	20.89
(460)	Current input	A	24.6	24.3	28.6	28.0	29.7	29.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	215,000		243,000		250,000	
	*2	kW	63.0		71.2		73.3	
	Power input	kW	16.38		20.00		21.44	
(460)	Current input	A	22.8		27.8		29.8	
(Rated)		BTU / h	204,000		232,000		240,000	
		kW	59.8		68.0		70.3	
	Power input	kW	14.35	15.55	17.79	18.92	19.61	19.96
(460)	Current input	A	20.0	21.6	24.8	26.3	27.3	27.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	88.0 / 86.5		88.0 / 86.5		91.5 / 87.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity		A	37		40		41	
Maximum Overcurrent Protection		A	60		60		70	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	14100 / 13750		14100 / 13750		14100 / 13750	
		m^3 / min	400 / 390		400 / 390		400 / 390	
	*3	L / s	6670 / 6500		6670 / 6500		6670 / 6500	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92		0.92+0.92		0.92+0.92	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	13.2		15.8		17	
	Case heater	kW	0.045		0.048		0.048	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,750 x 740		1,818 x 1,750 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A × 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight		lbs (kg)	904 (410)		904 (410)		904 (410)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 The sound pressure level measured by the conventional method in JIS for reference purpose.
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP192YSNU-A1 (-BS)		PUHY-EP216YSNU-A1 (-BS)		PUHY-EP240YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	192,000		216,000		240,000	
(Nominal) *1		kW	56.3		63.3		70.3	
	Power input	kW	13.57		15.70		18.60	
(460)	Current input	A	18.9		21.8		25.9	
(Rated)		BTU / h	184,000		206,000		230,000	
		kW	53.9		60.4		67.4	
	Power input	kW	15.92	15.83	18.31	18.94	22.73	21.79
(460)	Current input	A	22.2	22.0	25.5	26.4	31.6	30.3
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity *2		BTU / h	216,000		243,000		270,000	
(Nominal) *2		kW	63.3		71.2		79.1	
	Power input	kW	15.74		18.18		21.39	
(460)	Current input	A	21.9		25.3		29.8	
(Rated)		BTU / h	206,000		232,000		258,000	
		kW	60.4		68.0		75.6	
	Power input	kW	14.24	14.62	16.39	16.94	19.79	19.52
(460)	Current input	A	19.8	20.3	22.8	23.6	27.5	27.2
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
connectable	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	78.5/81.0		81.0 / 83.0		83.0 / 84.5	
Refrigerant	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
piping diameter	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-EP96YNU-A1 (-BS)	PUHY-EP96YNU-A1 (-BS)	PUHY-EP96YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	20	20	20	25	25	25
Maximum Overcurrent Protection		A	30	30	30	40	40	40
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6700 / 6700	6700 / 6700	6700 / 6700	7750 / 7750	7750 / 7750	7750 / 7750
		m^3 / min	190 / 190	190 / 190	190 / 190	220 / 220	220 / 220	220 / 220
	*3	L / s	3170 / 3170	3170 / 3170	3170 / 3170	3670 / 3670	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	5.4	7.4	7.4	7.4
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	657 (298)	657 (298)	657 (298)	668 (303)	668 (303)	668 (303)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
and distributor	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP264YSNU-A1 (-BS)		PUHY-EP288YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	264,000		288,000	
	*1	kW	77.4		84.4	
	Power input	kW	19.61		21.79	
	(460) Current input	A	27.3		30.3	
(Rated)		BTU / h	252,000		276,000	
		kW	73.9		80.9	
	Power input	kW	21.78	21.27	25.44	24.64
	(460) Current input	A	30.3	29.6	35.4	34.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	296,000		323,000	
	*2	kW	86.8		94.7	
	Power input	kW	22.13		24.54	
	(460) Current input	A	30.8		34.2	
(Rated)		BTU / h	282,000		308,000	
		kW	82.6		90.3	
	Power input	kW	20.49	20.21	22.60	22.57
	(460) Current input	A	28.5	28.1	31.5	31.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	80.0 / 82.0		82.0/83.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-EP72YNU-A1 (-BS)	PUHY-EP96YNU-A1 (-BS)	PUHY-EP96YNU-A1 (-BS)	PUHY-EP72YNU-A1 (-BS)	PUHY-EP96YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	14	20	20	14	20	25
Maximum Overcurrent Protection		A	20	30	30	20	30	40
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	6700 / 6700	6700 / 6700	6000 / 6000	6700 / 6700	7750 / 7750
		m^3 / min	170 / 170	190 / 190	190 / 190	170 / 170	190 / 190	220 / 220
	*3	L / s	2830 / 2830	3170 / 3170	3170 / 3170	2830 / 2830	3170 / 3170	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.92	0.46+0.46	0.46+0.46
	*4 External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.6	5.4	5.4	3.6	5.4	7.4
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 920 x 740	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A × 21 lbs + 9 oz (9.8kg)	R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	545 (247)	657 (298)	657 (298)	545 (247)	657 (298)	668 (303)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP312YSNU-A1 (-BS)		PUHY-EP336YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	312,000		336,000	
	*1	kW	91.4		98.5	
	Power input	kW	24.33		26.34	
	(460) Current input	A	33.9		36.7	
(Rated)		BTU / h	298,000		320,000	
		kW	87.3		93.8	
	Power input	kW	29.62	27.65	31.40	29.39
	(460) Current input	A	41.3	38.5	43.7	40.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	350,000		378,000	
	*2	kW	102.6		110.8	
	Power input	kW	27.37		30.01	
	(460) Current input	A	38.1		41.8	
(Rated)		BTU / h	334,000		360,000	
		kW	97.9		105.5	
	Power input	kW	25.35	25.02	28.07	26.99
	(460) Current input	A	35.3	34.8	39.1	37.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	83.5 / 85.0		83.5 / 85.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-EP72YNU-A1 (-BS)	PUHY-EP120YNU-A1(-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP96YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	14	25	25	20	25	25
Maximum Overcurrent Protection		A	20	40	40	30	40	40
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	7750 / 7750	7750 / 7750	6700 / 6700	7750 / 7750	7750 / 7750
		m^3 / min	170 / 170	220 / 220	220 / 220	190 / 190	220 / 220	220 / 220
	*3	L / s	2830 / 2830	3670 / 3670	3670 / 3670	3170 / 3170	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.6	7.4	7.4	5.4	7.4	7.4
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	545 (247)	668 (303)	668 (303)	657 (298)	668 (303)	668 (303)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP360YSNU-A1 (-BS)		PUHY-EP384YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	360,000		384,000	
	*1	kW	105.5		112.5	
	Power input	kW	28.67		31.41	
	(460) Current input	A	39.9		43.8	
(Rated)		BTU / h	344,000		364,000	
		kW	100.8		106.7	
	Power input	kW	34.73	32.89	38.77	35.47
	(460) Current input	A	48.4	45.8	54.0	49.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	405,000		430,000	
	*2	kW	118.7		126.0	
	Power input	kW	32.65		35.13	
	(460) Current input	A	45.5		48.9	
(Rated)		BTU / h	386,000		410,000	
		kW	113.1		120.2	
	Power input	kW	30.33	29.59	32.96	31.88
	(460) Current input	A	42.2	41.2	45.9	44.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	84.5 / 86.0		86.5 / 87.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP120YNU-A1 (-BS)	PUHY-EP144YNU-A1 (-BS)
Minimum Circuit Ampacity		A	25	25	25	25	25	33
Maximum Overcurrent Protection		A	40	40	40	40	40	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	9200 / 9200
		m^3 / min	220 / 220	220 / 220	220 / 220	220 / 220	220 / 220	260 / 260
	*3	L / s	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	7.4	7.4	7.4	7.4	9.3
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	668 (303)	668 (303)	668 (303)	668 (303)	668 (303)	715 (324)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series High efficiency (460V)
PUHY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-EP408YSNU-A1 (-BS)		PUHY-EP432YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	408,000		432,000	
	*1	kW	119.6		126.6	
	Power input	kW	34.31		37.39	
	(460) Current input	A	47.8		52.1	
	(Rated)	BTU / h	390,000		410,000	
		kW	114.3		120.2	
	Power input	kW	41.87	38.28	44.00	40.19
	(460) Current input	A	58.3	53.3	61.3	56.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	455,000		480,000	
	*2	kW	133.4		140.7	
	Power input	kW	37.71		40.45	
	(460) Current input	A	52.5		56.4	
	(Rated)	BTU / h	430,000		455,000	
		kW	126.0		133.4	
	Power input	kW	35.33	33.88	38.29	36.46
	(460) Current input	A	49.2	47.2	53.3	50.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/3~50		P04~P96/3~50	
Sound power level (measured in anechoic room)	*3	dB <A>	88.0 / 88.0		89.0 / 88.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-EP120YNU-A1 (-BS)	PUHY-EP144YNU-A1 (-BS)	PUHY-EP144YNU-A1 (-BS)	PUHY-EP144YNU-A1 (-BS)	PUHY-EP144YNU-A1 (-BS)	PUHY-EP144YNU-A1 (-BS)
Minimum Circuit Ampacity		A	25	33	33	33	33	33
Maximum Overcurrent Protection		A	40	50	50	50	50	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200
		m^3 / min	220 / 220	260 / 260	260 / 260	260 / 260	260 / 260	260 / 260
	*3	L / s	3670 / 3670	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4	9.3	9.3	9.3	9.3	9.3
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	668 (303)	715 (324)	715 (324)	715 (324)	715 (324)	715 (324)
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P72TNU-A1 (-BS)		PUHY-P96TNU-A1 (-BS)		PUHY-P120TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		120,000	
	*1	kW	21.1		28.1		35.2	
Power input		kW	5.02		6.46		8.88	
(208-230) Current input		A	15.4-14.0		19.9-18.0		27.3-24.7	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
Power input		kW	5.66	6.13	7.82	7.93	10.91	10.80
(208-230) Current input		A	17.4-15.7	18.9-17.0	24.1-21.8	24.4-22.1	33.6-30.4	33.3-30.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
Power input		kW	5.42		7.37		9.97	
(208-230) Current input		A	16.7-15.1		22.7-20.5		30.7-27.8	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
Power input		kW	4.89	5.13	6.67	6.90	9.01	9.33
(208-230) Current input		A	15.0-13.6	15.8-14.3	20.5-18.6	21.2-19.2	27.7-25.1	28.7-26.0
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*4	dB <A>	74.5 / 76.5		75.5/77.5		80.0/81.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	29-26		40-36		50-46	
Maximum Overcurrent Protection		A	45-40		60-50		80-70	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6000 / 6000		6700 / 6700		7750 / 7750	
		m^3 / min	170 / 170		190 / 190		220 / 220	
	*4	L / s	2830 / 2830		3170 / 3170		3670 / 3670	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.8		5.5		7.7	
	Case heater	kW	0.035		0.035		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)		R410A x 21 lbs + 9 oz (9.8 kg)		R410A x 21 lbs + 9 oz (9.8 kg)	
Net weight		lbs (kg)	470 (213)		580 (263)		605 (274)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P144TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000	
	*1	kW	42.2	
	Power input	kW	11.08	
(208-230)	Current input	A	34.1-30.9	
(Rated)		BTU / h	138,000	
		kW	40.4	
	Power input	kW	12.84	13.36
(208-230)	Current input	A	39.6-35.8	41.2-37.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000	
	*2	kW	46.9	
	Power input	kW	12.21	
(208-230)	Current input	A	37.6-34.0	
(Rated)		BTU / h	152,000	
		kW	44.5	
	Power input	kW	11.06	11.39
(208-230)	Current input	A	34.1-30.8	35.1-31.7
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36	
Sound power level (measured in anechoic room)	*4	dB <A>	83.0/84.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	60-55	
Maximum Overcurrent Protection		A	100-90	
FAN	Type x Quantity		Propeller fan x 2	
	Airflow rate	cfm	9200 / 9200	
		m^3 / min	260 / 260	
	*4	L / s	4330 / 4330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	
*5	External static press.		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	
	Motor output	kW	9.6	
	Case heater	kW	0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 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	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	649 (294)	
Heat exchanger			Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/102LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P192TSNU-A1 (-BS)		PUHY-P216TSNU-A1 (-BS)		PUHY-P240TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
	Power input	kW	14.29		16.78		19.97	
(208-230)	Current input	A	44.0-39.8		51.7-46.8		61.5-55.6	
(Rated)		BTU / h	184,000		206,000		230,000	
		kW	53.9		60.4		67.4	
	Power input	kW	16.97	16.93	19.19	19.93	22.95	22.48
(208-230)	Current input	A	52.3-47.3	52.2-47.2	59.1-53.5	61.4-55.5	70.7-64.0	69.3-62.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	216,000		243,000		270,000	
	*2	kW	63.3		71.2		79.1	
	Power input	kW	15.95		18.63		22.12	
(208-230)	Current input	A	49.1-44.4		57.4-51.9		68.2-61.6	
(Rated)		BTU / h	206,000		232,000		258,000	
		kW	60.4		68.0		75.6	
	Power input	kW	14.43	14.83	16.82	17.36	20.58	20.07
(208-230)	Current input	A	44.5-40.2	45.7-41.3	51.8-46.9	53.5-48.4	63.4-57.4	61.8-55.9
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	79.0/81.0		81.5/83.0		83.5/84.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PUHY-P96TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	40-36	40-36	40-36	50-46	50-46	50-46
Maximum Overcurrent Protection		A	60-50	60-50	60-50	80-70	80-70	80-70
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6700 / 6700	6700 / 6700	6700 / 6700	7750 / 7750	7750 / 7750	7750 / 7750
		m^3 / min	190 / 190	190 / 190	190 / 190	220 / 220	220 / 220	220 / 220
	*4	L / s	3170 / 3170	3170 / 3170	3170 / 3170	3670 / 3670	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	5.5	7.7	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	580 (263)	580 (263)	580 (263)	605 (274)	605 (274)	605 (274)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P264TSNU-A1 (-BS)		PUHY-P288TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	264,000		288,000	
	*1	kW	77.4		84.4	
	Power input	kW	20.69		23.21	
(208-230)	Current input	A	63.8-57.7		71.5-64.7	
(Rated)		BTU / h	252,000		276,000	
		kW	73.9		80.9	
	Power input	kW	23.45	23.16	26.97	26.14
(208-230)	Current input	A	72.3-65.4	71.4-64.5	83.1-75.2	80.6-72.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	296,000		323,000	
	*2	kW	86.8		94.7	
	Power input	kW	22.63		25.23	
(208-230)	Current input	A	69.7-63.1		77.8-70.3	
(Rated)		BTU / h	282,000		308,000	
		kW	82.6		90.3	
	Power input	kW	21.04	20.58	23.40	23.05
(208-230)	Current input	A	64.8-58.6	63.4-57.4	72.1-65.2	71.0-64.2
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	80.0/82.0		82.5/84.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-P72TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)	PUHY-P72TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	29-26	40-36	40-36	29-26	40-36	50-46
Maximum Overcurrent Protection		A	45-40	60-50	60-50	45-40	60-50	80-70
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	6700 / 6700	6700 / 6700	6000 / 6000	6700 / 6700	7750 / 7750
		m^3 / min	170 / 170	190 / 190	190 / 190	170 / 170	190 / 190	220 / 220
	*4	L / s	2830 / 2830	3170 / 3170	3170 / 3170	2830 / 2830	3170 / 3170	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.92	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.8	5.5	5.5	3.8	5.5	7.7
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	470 (213)	580 (263)	580 (263)	470 (213)	580 (263)	605 (274)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P312TSNU-A1 (-BS)		PUHY-P336TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	312,000		336,000	
	*1	kW	91.4		98.5	
	Power input	kW	25.98		27.77	
(208-230)	Current input	A	80.1-72.4		85.6-77.4	
(Rated)		BTU / h	298,000		320,000	
		kW	87.3		93.8	
	Power input	kW	30.88	29.10	32.73	30.92
(208-230)	Current input	A	95.2-86.1	89.7-81.1	100.9-91.2	95.3-86.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	350,000		378,000	
	*2	kW	102.6		110.8	
	Power input	kW	28.28		30.84	
(208-230)	Current input	A	87.2-78.8		95.1-86.0	
(Rated)		BTU / h	334,000		360,000	
		kW	97.9		105.5	
	Power input	kW	26.42	25.64	28.95	27.66
(208-230)	Current input	A	81.4-73.6	79.0-71.5	89.2-80.7	85.3-77.1
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room) *4		dB <A>	84.0/85.0		84.0/85.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P72TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	29-26	50-46	50-46	40-36	50-46	50-46
Maximum Overcurrent Protection		A	45-40	80-70	80-70	60-50	80-70	80-70
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	7750 / 7750	7750 / 7750	6700 / 6700	7750 / 7750	7750 / 7750
		m^3 / min	170 / 170	220 / 220	220 / 220	190 / 190	220 / 220	220 / 220
	*4	L / s	2830 / 2830	3670 / 3670	3670 / 3670	3170 / 3170	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.8	7.7	7.7	5.5	7.7	7.7
	Case heater	kW	0.035	0.045	0.045	0.035	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	470 (213)	605 (274)	605 (274)	580 (263)	605 (274)	605 (274)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P360TSNU-A1 (-BS)		PUHY-P384TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	360,000		384,000	
	*1	kW	105.5		112.5	
	Power input	kW	30.67		33.18	
(208-230)	Current input	A	94.5-85.5		102.3-92.5	
(Rated)		BTU / h	344,000		364,000	
		kW	100.8		106.7	
	Power input	kW	35.86	33.94	39.21	36.23
(208-230)	Current input	A	110.5-100.0	104.6-94.6	120.9-109.3	111.7-101.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	405,000		430,000	
	*2	kW	118.7		126.0	
	Power input	kW	33.78		36.26	
(208-230)	Current input	A	104.1-94.2		111.8-101.1	
(Rated)		BTU / h	386,000		410,000	
		kW	113.1		120.2	
	Power input	kW	31.57	30.43	34.14	32.80
(208-230)	Current input	A	97.3-88.0	93.8-84.8	105.2-95.2	101.1-91.4
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	85.0/86.0		86.5/87.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P120TNU-A1 (-BS)	PUHY-P144TNU-A1(-BS)
Minimum Circuit Ampacity		A	50-46	50-46	50-46	50-46	50-46	60-55
Maximum Overcurrent Protection		A	80-70	80-70	80-70	80-70	80-70	100-90
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	9200 / 9200
		m^3 / min	220 / 220	220 / 220	220 / 220	220 / 220	220 / 220	260 / 260
	*4	L / s	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	7.7	7.7	7.7	7.7	9.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A × 23 lbs + 12 oz (10.8kg)
Net weight		lbs (kg)	605 (274)	605 (274)	605 (274)	605 (274)	605 (274)	649 (294)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (208-230V)
PUHY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P408TSNU-A1 (-BS)		PUHY-P432TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	408,000		432,000	
	*1	kW	119.6		126.6	
	Power input	kW	35.79		38.31	
(208-230)	Current input	A	110.3-99.8		118.1-106.8	
(Rated)		BTU / h	390,000		410,000	
		kW	114.3		120.2	
	Power input	kW	41.87	38.69	44.00	40.62
(208-230)	Current input	A	129.1-116.7	119.3-107.9	135.7-122.7	125.2-113.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	455,000		480,000	
	*2	kW	133.4		140.7	
	Power input	kW	38.94		41.66	
(208-230)	Current input	A	120.0-108.6		128.4-116.1	
(Rated)		BTU / h	430,000		455,000	
		kW	126.0		133.4	
	Power input	kW	36.50	34.97	39.35	37.55
(208-230)	Current input	A	112.5-101.8	107.8-97.5	121.3-109.7	115.8-104.7
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/3~50		P04~P96/3~50	
Sound power level (measured in anechoic room)	*4	dB <A>	87.0/88.0		88.0/89.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P120TNU-A1 (-BS)	PUHY-P144TNU-A1(-BS)	PUHY-P144TNU-A1(-BS)	PUHY-P144TNU-A1(-BS)	PUHY-P144TNU-A1(-BS)	PUHY-P144TNU-A1(-BS)
Minimum Circuit Ampacity		A	50-46	60-55	60-55	60-55	60-55	60-55
Maximum Overcurrent Protection		A	80-70	100-90	100-90	100-90	100-90	100-90
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200
		m^3 / min	220 / 220	260 / 260	260 / 260	260 / 260	260 / 260	260 / 260
	*4	L / s	3670 / 3670	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	9.6	9.6	9.6	9.6	9.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	605 (274)	649 (294)	649 (294)	649 (294)	649 (294)	649 (294)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YNU-A1(-BS)



► Specifications

Outdoor Model				PUHY-P72YNU-A1 (-BS)		PUHY-P96YNU-A1 (-BS)		PUHY-P120YNU-A1 (-BS)	
Indoor Model				Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source				3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)		*1	BTU / h	72,000		96,000		120,000	
		*1	kW	21.1		28.1		35.2	
	Power input		kW	5.02		6.46		8.88	
(460)	Current input		A	7.0		9.0		12.3	
(Rated)			BTU / h	69,000		92,000		115,000	
			kW	20.2		27.0		33.7	
	Power input		kW	5.66	6.13	7.82	7.93	10.91	10.80
(460)	Current input		A	7.8	8.5	10.9	11.0	15.2	15.0
Temp. range of cooling	Indoor		W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor		D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)		*2	BTU / h	80,000		108,000		135,000	
		*2	kW	23.4		31.7		39.6	
	Power input		kW	5.42		7.37		9.97	
(460)	Current input		A	7.5		10.2		13.9	
(Rated)			BTU / h	76,000		103,000		129,000	
			kW	22.3		30.2		37.8	
	Power input		kW	4.89	5.13	6.67	6.90	9.01	9.33
(460)	Current input		A	6.8	7.1	9.3	9.6	12.5	13.0
Temp. range of heating	Indoor	*3	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	*3	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity			50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity			P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)		*4	dB <A>	74.5 / 76.5		75.5/77.5		80.0/81.0	
Refrigerant piping diameter	Liquid pipe		in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
	Gas pipe		in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity			A	13		18		25	
Maximum Overcurrent Protection			A	20		25		40	
FAN	Type x Quantity			Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate		cfm	6000 / 6000		6700 / 6700		7750 / 7750	
			m^3 / min	170 / 170		190 / 190		220 / 220	
		*4	L / s	2830 / 2830		3170 / 3170		3670 / 3670	
	Control, Driving mechanism			Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output		kW	0.92		0.46+0.46		0.46+0.46	
*5	External static press.			0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity			Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method			Inverter		Inverter		Inverter	
	Motor output		kW	3.8		5.5		7.7	
	Case heater		kW	0.035		0.035		0.045	
External finish				Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D			in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
			mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)			Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor			-		-		-	
Refrigerant	Type x original charge			R410A x 14 lbs + 5 oz (6.5 kg)		R410A x 21 lbs + 9 oz (9.8 kg)		R410A x 21 lbs + 9 oz (9.8 kg)	
Net weight			lbs (kg)	503 (228)		616 (279)		640 (290)	
Heat exchanger				Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts				joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P144YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000	
	*1	kW	42.2	
	Power input	kW	11.08	
(460)	Current input	A	15.4	
(Rated)		BTU / h	138,000	
		kW	40.4	
	Power input	kW	12.84	13.36
(460)	Current input	A	17.9	18.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000	
	*2	kW	46.9	
	Power input	kW	12.21	
(460)	Current input	A	17.0	
(Rated)		BTU / h	152,000	
		kW	44.5	
	Power input	kW	11.06	11.39
(460)	Current input	A	15.4	15.8
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36	
Sound power level (measured in anechoic room) *4		dB <A>	83.0/84.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	27	
Maximum Overcurrent Protection		A	45	
FAN	Type x Quantity		Propeller fan x 2	
	Airflow rate	cfm	9200 / 9200	
		m^3 / min	260 / 260	
	*4	L / s	4330 / 4330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	
*5	External static press.		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	
	Motor output	kW	9.6	
	Case heater	kW	0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 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	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	684 (310)	
Heat exchanger			Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/102LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P192YSNU-A1 (-BS)		PUHY-P216YSNU-A1 (-BS)		PUHY-P240YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
	Power input	kW	14.29		16.78		19.97	
(460)	Current input	A	19.9		23.4		27.8	
(Rated)		BTU / h	184,000		206,000		230,000	
		kW	53.9		60.4		67.4	
	Power input	kW	16.97	16.93	19.19	19.93	22.95	22.48
(460)	Current input	A	23.6	23.6	26.7	27.7	32.0	31.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	216,000		243,000		270,000	
	*2	kW	63.3		71.2		79.1	
	Power input	kW	15.95		18.63		22.12	
(460)	Current input	A	22.2		25.9		30.8	
(Rated)		BTU / h	206,000		232,000		258,000	
		kW	60.4		68.0		75.6	
	Power input	kW	14.43	14.83	16.82	17.36	20.58	20.07
(460)	Current input	A	20.1	20.6	23.4	24.2	28.7	27.9
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	79.0/81.0		81.5/83.0		83.5/84.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PUHY-P96YNU-A1 (-BS)	PUHY-P96YNU-A1 (-BS)	PUHY-P96YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	18	18	18	25	25	25
Maximum Overcurrent Protection		A	25	25	25	40	40	40
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6700 / 6700	6700 / 6700	6700 / 6700	7750 / 7750	7750 / 7750	7750 / 7750
		m^3 / min	190 / 190	190 / 190	190 / 190	220 / 220	220 / 220	220 / 220
	*4	L / s	3170 / 3170	3170 / 3170	3170 / 3170	3670 / 3670	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	5.5	7.7	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection		Over-heat protection , Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	616 (279)	616 (279)	616 (279)	640 (290)	640 (290)	640 (290)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P264YSNU-A1 (-BS)		PUHY-P288YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	264,000		288,000	
	*1	kW	77.4		84.4	
	Power input	kW	20.69		23.21	
(460)	Current input	A	28.8		32.3	
(Rated)		BTU / h	252,000		276,000	
		kW	73.9		80.9	
	Power input	kW	23.45	23.16	26.97	26.14
(460)	Current input	A	32.7	32.2	37.6	36.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	296,000		323,000	
	*2	kW	86.8		94.7	
	Power input	kW	22.63		25.23	
(460)	Current input	A	31.5		35.1	
(Rated)		BTU / h	282,000		308,000	
		kW	82.6		90.3	
	Power input	kW	21.04	20.58	23.40	23.05
(460)	Current input	A	29.3	28.7	32.6	32.1
Temp. range of heating	*3 Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	80.0/82.0		82.5/84.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-P72YNU-A1 (-BS)	PUHY-P96YNU-A1 (-BS)	PUHY-P96YNU-A1 (-BS)	PUHY-P72YNU-A1 (-BS)	PUHY-P96YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	13	18	18	13	18	25
Maximum Overcurrent Protection		A	20	25	25	20	25	40
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	6700 / 6700	6700 / 6700	6000 / 6000	6700 / 6700	7750 / 7750
		m^3 / min	170 / 170	190 / 190	190 / 190	170 / 170	190 / 190	220 / 220
	*4	L / s	2830 / 2830	3170 / 3170	3170 / 3170	2830 / 2830	3170 / 3170	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.92	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.8	5.5	5.5	3.8	5.5	7.7
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	503 (228)	616 (279)	616 (279)	503 (228)	616 (279)	640 (290)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed			3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed			7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P312YSNU-A1 (-BS)		PUHY-P336YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	312,000		336,000	
	*1	kW	91.4		98.5	
	Power input	kW	25.98		27.77	
(460)	Current input	A	36.2		38.7	
(Rated)		BTU / h	298,000		320,000	
		kW	87.3		93.8	
	Power input	kW	30.88	29.10	32.73	30.92
(460)	Current input	A	43.0	40.5	45.6	43.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	350,000		378,000	
	*2	kW	102.6		110.8	
	Power input	kW	28.28		30.84	
(460)	Current input	A	39.4		43.0	
(Rated)		BTU / h	334,000		360,000	
		kW	97.9		105.5	
	Power input	kW	26.42	25.64	28.95	27.66
(460)	Current input	A	36.8	35.7	40.3	38.5
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	84.0/85.0		84.0/85.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P72YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P96YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	13	25	25	18	25	25
Maximum Overcurrent Protection		A	20	40	40	25	40	40
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6000 / 6000	7750 / 7750	7750 / 7750	6700 / 6700	7750 / 7750	7750 / 7750
		m^3 / min	170 / 170	220 / 220	220 / 220	190 / 190	220 / 220	220 / 220
	*4	L / s	2830 / 2830	3670 / 3670	3670 / 3670	3170 / 3170	3670 / 3670	3670 / 3670
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	3.8	7.7	7.7	5.5	7.7	7.7
	Case heater	kW	0.035	0.045	0.045	0.035	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 920 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight		lbs (kg)	503 (228)	640 (290)	640 (290)	616 (279)	640 (290)	640 (290)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P360YSNU-A1 (-BS)		PUHY-P384YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	360,000		384,000	
	*1	kW	105.5		112.5	
	Power input	kW	30.67		33.18	
(460)	Current input	A	42.7		46.2	
(Rated)		BTU / h	344,000		364,000	
		kW	100.8		106.7	
	Power input	kW	35.86	33.94	39.21	36.23
(460)	Current input	A	50.0	47.3	54.6	50.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	405,000		430,000	
	*2	kW	118.7		126.0	
	Power input	kW	33.78		36.26	
(460)	Current input	A	47.1		50.5	
(Rated)		BTU / h	386,000		410,000	
		kW	113.1		120.2	
	Power input	kW	31.57	30.43	34.14	32.80
(460)	Current input	A	44.0	42.4	47.6	45.7
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	85.0/86.0		86.5/87.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P120YNU-A1 (-BS)	PUHY-P144YNU-A1 (-BS)
Minimum Circuit Ampacity		A	25	25	25	25	25	27
Maximum Overcurrent Protection		A	40	40	40	40	40	45
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	7750 / 7750	9200 / 9200
		m^3 / min	220 / 220	220 / 220	220 / 220	220 / 220	220 / 220	260 / 260
	*4	L / s	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	3670 / 3670	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	7.7	7.7	7.7	7.7	9.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	640 (290)	640 (290)	640 (290)	640 (290)	640 (290)	684 (310)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series Standard (460V)
PUHY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PUHY-P408YSNU-A1 (-BS)		PUHY-P432YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	408,000		432,000	
	*1	kW	119.6		126.6	
	Power input	kW	35.79		38.31	
(460)	Current input	A	49.9		53.4	
(Rated)		BTU / h	390,000		410,000	
		kW	114.3		120.2	
	Power input	kW	41.87	38.69	44.00	40.62
(460)	Current input	A	58.3	53.9	61.3	56.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	455,000		480,000	
	*2	kW	133.4		140.7	
	Power input	kW	38.94		41.66	
(460)	Current input	A	54.3		58.0	
(Rated)		BTU / h	430,000		455,000	
		kW	126.0		133.4	
	Power input	kW	36.50	34.97	39.35	37.55
(460)	Current input	A	50.9	48.7	54.8	52.3
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P04~P96/3~50		P04~P96/3~50	
Sound power level (measured in anechoic room)	*4	dB <A>	87.0/88.0		88.0/89.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P120YNU-A1 (-BS)	PUHY-P144YNU-A1 (-BS)	PUHY-P144YNU-A1 (-BS)	PUHY-P144YNU-A1 (-BS)	PUHY-P144YNU-A1 (-BS)	PUHY-P144YNU-A1 (-BS)
Minimum Circuit Ampacity		A	25	27	27	27	27	27
Maximum Overcurrent Protection		A	40	45	45	45	45	45
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7750 / 7750	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200	9200 / 9200
		m^3 / min	220 / 220	260 / 260	260 / 260	260 / 260	260 / 260	260 / 260
	*4	L / s	3670 / 3670	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330	4330 / 4330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	9.6	9.6	9.6	9.6	9.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>		
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection , Over-current protection			Over-heat protection , Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	640 (290)	684 (310)	684 (310)	684 (310)	684 (310)	684 (310)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P72ZKMU-B (-BS)		PUHY-P96ZKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	72,000		96,000	
(Nominal)	*1	kW	21.1		28.1	
	Power input	kW	4.77		6.74	
(575)	Current input	A	5.3		7.5	
(Rated)		BTU/h	69,000		92,000	
		kW	20.2		27.0	
	Power input	kW	5.47	5.39	7.49	7.44
(575)	Current input	A	6.1	6.0	8.3	8.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity	*2	BTU/h	80,000		108,000	
(Nominal)	*2	kW	23.4		31.7	
	Power input	kW	5.63		7.78	
(575)	Current input	A	6.2		8.6	
(Rated)		BTU/h	76,000		103,000	
		kW	22.3		30.2	
	Power input	kW	5.54	5.47	7.79	7.41
(575)	Current input	A	6.1	6.1	8.6	8.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P72/1~18		P04~P96/1~24	
Sound pressure level (measured in anechoic room)		dB <A>	79.0		81.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	11		15	
Maximum Overcurrent Protection		A	15		25	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Airflow rate	cfm	6,200		6,700	
		m^3/min	175		190	
		L/s	2,920		3,170	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.92	
*3	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.6 x 1		6.9 x 1	
	Case heater	kW	0.035		0.035	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32		64-31/32 x 48-1/16 x 29-5/32	
		mm	1,650 x 920 x 740		1,650 x 1,220 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 25 lbs + 6 oz (11.5 kg)	
Net weight		lbs (kg)	490 (222)		563 (255)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P120ZKMU-B (-BS)		PUHY-P144ZKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	120,000		144,000	
(Nominal)	*1	kW	35.2		42.2	
	Power input	kW	8.48		11.02	
(575)	Current input	A	9.4		12.2	
(Rated)		BTU/h	115,000		138,000	
		kW	33.7		40.4	
	Power input	kW	10.12	9.72	13.76	13.49
(575)	Current input	A	11.2	10.8	15.3	15.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity	*2	BTU/h	135,000		160,000	
(Nominal)	*2	kW	39.6		46.9	
	Power input	kW	10.09		12.65	
(575)	Current input	A	11.2		14.1	
(Rated)		BTU/h	129,000		152,000	
		kW	37.8		44.5	
	Power input	kW	9.44	9.56	11.58	11.79
(575)	Current input	A	10.5	10.6	12.9	13.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P96/1~30		P04~P96/1~36	
Sound pressure level (measured in anechoic room)		dB <A>	79.5		81.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)		1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	19		21	
Maximum Overcurrent Protection		A	30		30	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	11,300		11,300	
		m^3/min	320		320	
		L/s	5,330		5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92 ×2		0.92 ×2	
*3	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.2 x 1		10.8 x 1	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 68-29/32 x 29-5/32		64-31/32 x 68-29/32 x 29-5/32	
		mm	1,650 x 1,750 x 740		1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight		lbs (kg)	748 (339)		748 (339)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P168ZSKMU-B (-BS)		PUHY-P192ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	168,000		192,000	
(Nominal)	*1	kW	49.2		56.3	
	Power input	kW	12.81		14.56	
(575)	Current input	A	14.2		16.2	
(Rated)		BTU/h	160,000		184,000	
		kW	46.9		53.9	
	Power input	kW	13.84	13.63	17.13	16.12
(575)	Current input	A	15.4	15.2	19.1	17.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity	*2	BTU/h	188,000		215,000	
(Nominal)	*2	kW	55.1		63.0	
	Power input	kW	14.54		17.16	
(575)	Current input	A	16.2		19.1	
(Rated)		BTU/h	179,000		205,000	
		kW	52.5		60.1	
	Power input	kW	13.29	13.53	15.88	15.78
(575)	Current input	A	14.8	15.0	17.7	17.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	83.5		82.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PUHY-P72ZKMU-B (-BS)	PUHY-P96ZKMU-B (-BS)	PUHY-P72ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)
Minimum Circuit Ampacity		A	11	15	11	19
Maximum Overcurrent Protection		A	15	25	15	30
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Airflow rate	cfm	6,200	6,700	6,200	11,300
		m^3/min	175	190	175	320
		L/s	2,920	3,170	2,920	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	0.92	0.92	0.92 ×2
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6 x 1	6.9 x 1	5.6 x 1	8.2 x 1
	Case heater	kW	0.035	0.035	0.035	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 36-1/4 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32
		mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-	-	-	-
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	490 (222)	563 (255)	490 (222)	748 (339)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2,CMY-Y202/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P216ZSKMU-B (-BS)		PUHY-P240ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	216,000		240,000	
(Nominal)	*1	kW	63.3		70.3	
	Power input	kW	16.91		18.67	
(575)	Current input	A	18.8		20.8	
(Rated)		BTU/h	206,000		230,000	
		kW	60.4		67.4	
	Power input	kW	18.31	18.39	22.26	20.34
(575)	Current input	A	20.4	20.5	24.8	22.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity	*2	BTU/h	243,000		270,000	
(Nominal)	*2	kW	71.2		79.1	
	Power input	kW	19.69		22.14	
(575)	Current input	A	21.9		24.7	
(Rated)		BTU/h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	18.61	17.69	20.82	20.07
(575)	Current input	A	20.7	19.7	23.2	22.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	84.0		82.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PUHY-P96ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)
Minimum Circuit Ampacity		A	15	19	19	19
Maximum Overcurrent Protection		A	20	30	30	30
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6,700	11,300	11,300	11,300
		m^3/min	190	320	320	320
		L/s	3,170	5,330	5,330	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	0.92 ×2	0.92 ×2	0.92 ×2
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.9 x 1	8.2 x 1	8.2 x 1	8.2 x 1
	Case heater	kW	0.035	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32
		mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over -heat protection, Over-current protection	
	Fan motor		-	-	-	-
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	563 (255)	748 (339)	748 (339)	748 (339)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2,CMY-Y202/302S-G2 Header: CMY-Y104/108/1010C-G		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2,CMY-Y202/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P264ZSKMU-B (-BS)		PUHY-P288ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	264,000		288,000	
(Nominal)	*1	kW	77.4		84.4	
	Power input	kW	20.50		22.57	
(575)	Current input	A	22.8		25.1	
(Rated)		BTU/h	252,000		276,000	
		kW	73.9		80.9	
	Power input	kW	23.01	21.46	25.68	23.94
(575)	Current input	A	25.6	23.9	28.6	26.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity	*2	BTU/h	295,000		323,000	
(Nominal)	*2	kW	86.5		94.7	
	Power input	kW	23.80		26.12	
(575)	Current input	A	26.5		29.1	
(Rated)		BTU/h	281,000		308,000	
		kW	82.4		90.3	
	Power input	kW	22.27	21.73	24.66	23.70
(575)	Current input	A	24.8	24.2	27.5	26.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	84.0		85.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-P72ZKMU-B (-BS)	PUHY-P72ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P72ZKMU-B (-BS)	PUHY-P96ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)
Minimum Circuit Ampacity		A	11	11	19	11	15	19
Maximum Overcurrent Protection		A	15	15	30	15	25	30
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Airflow rate	cfm	6,200	6,200	11,300	6,200	6,700	11,300
		m^3/min	175	175	320	175	190	320
		L/s	2,920	2,920	5,330	2,920	3,170	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.92	0.92 ×2	0.92	0.92	0.92 ×2
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	8.2	5.6	6.9	8.2
	Case heater	kW	0.035	0.035	0.045	0.035	0.035	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32	64-31/32 x 36-1/4 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 36-1/4 x 29-5/32	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32
		mm	1,650 x 920 x 740	1,650 x 920 x 740	1,650 x 1,750 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over -heat protection, Over-current protection			Over -heat protection, Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	490 (222)	490 (222)	748 (339)	490 (222)	563 (255)	748 (339)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2,CMY-Y202/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2,CMY-Y202/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P312ZSKMU-B (-BS)		PUHY-P336ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	312,000		336,000	
(Nominal)	*1	kW	91.4		98.5	
	Power input	kW	24.32		26.78	
(575)	Current input	A	27.1		29.8	
(Rated)		BTU/h	298,000		320,000	
		kW	87.3		93.8	
	Power input	kW	29.32	26.09	31.08	28.26
(575)	Current input	A	32.7	29.1	34.6	31.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity	*2	BTU/h	350,000		378,000	
(Nominal)	*2	kW	102.6		110.8	
	Power input	kW	28.41		31.66	
(575)	Current input	A	31.6		35.3	
(Rated)		BTU/h	334,000		361,000	
		kW	97.9		105.8	
	Power input	kW	26.72	25.97	30.33	28.45
(575)	Current input	A	29.8	28.9	33.8	31.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	84.5		85.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P72ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P96ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)
Minimum Circuit Ampacity		A	11	19	19	15	19	19
Maximum Overcurrent Protection		A	15	30	30	20	30	30
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6,200	11,300	11,300	6,700	11,300	11,300
		m^3/min	175	320	320	190	320	320
		L/s	2,920	5,330	5,330	3,170	5,330	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92	0.92 ×2	0.92 ×2	0.92	0.92 ×2	0.92 ×2
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	8.2	8.2	6.9	8.2	8.2
	Case heater	kW	-	-	-	0.035	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32
		mm	1,650 x 920 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over -heat protection, Over-current protection			Over -heat protection, Over-current protection		
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	490 (222)	748 (339)	748 (339)	563 (255)	748 (339)	748 (339)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
Y-Series (575V)
PUHY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PUHY-P360ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity *1		BTU/h	360,000	
(Nominal) *1		kW	105.5	
	Power input	kW	29.11	
(575)	Current input	A	32.4	
(Rated)		BTU/h	344,000	
		kW	100.8	
	Power input	kW	33.32	30.68
(575)	Current input	A	37.1	34.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity *2		BTU/h	405,000	
(Nominal) *2		kW	118.7	
	Power input	kW	34.50	
(575)	Current input	A	38.4	
(Rated)		BTU/h	387,000	
		kW	113.4	
	Power input	kW	32.60	31.52
(575)	Current input	A	36.3	35.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	84.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed	

Set Model

Model			PUHY-P120ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)	PUHY-P120ZKMU-B (-BS)
Minimum Circuit Ampacity		A	19	19	19
Maximum Overcurrent Protection		A	30	30	30
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	11,300	11,300	11,300
		m^3/min	320	320	320
		L/s	5,330	5,330	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92 ×2	0.92 ×2	0.92 ×2
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	8.2	8.2	8.2
	Case heater	kW	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension H x W x D		in.	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32
		mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over -heat protection, Over-current protection	Over -heat protection, Over-current protection	Over -heat protection, Over-current protection
	Fan motor		-	-	-
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	748 (339)	748 (339)	748 (339)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

R2-Series

Simultaneous Cooling and Heating Heat recovery

- Optional parts P.92
- Specifications
  - 460V 208-230V
    - H2i — PURY-HP T(Y)NU-A1(-BS) ..... P.93 - P.97
    - High efficiency — PURY-EP T(Y)NU-A1(-BS) ..... P.98 - P.111
    - Standard — PURY-P T(Y)NU-A1(-BS) ..... P.112 - P.121
  - 575V
    - Standard — PURY-P ZKMU-B(-BS) ..... P.122 - P.126
- BC controllers ..... P.174 - P.183



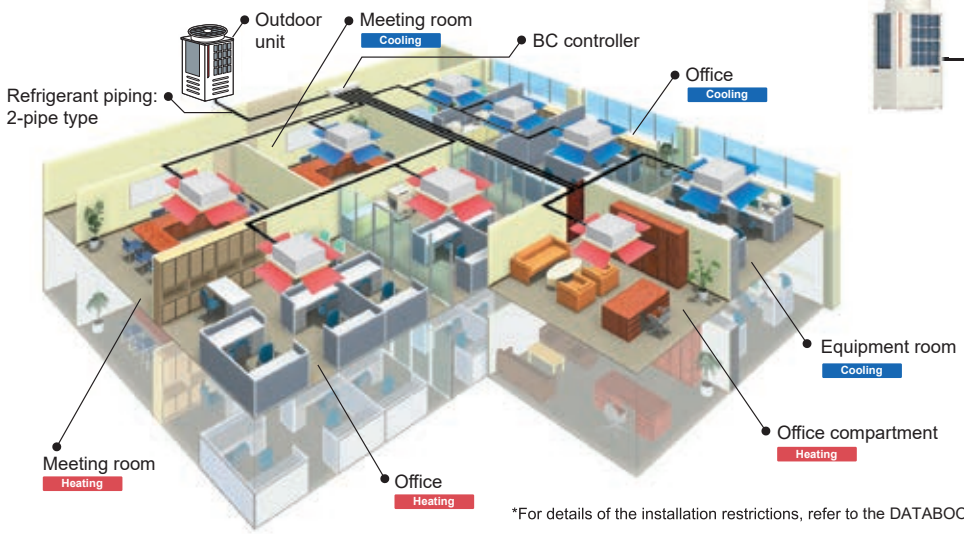
*This image shows the standard type.

The world's first* two-pipe system that simultaneously cools and heats

*As of 1992 (according to our in-house survey)

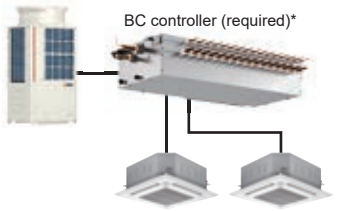
The CITY MULTI R2-Series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. It is the technological heart of the CITY MULTI R2-Series. It houses a liquid and gas separator, allowing the outdoor unit to deliver a mixture of hot gas for heating and liquid for cooling, all through the same pipe.
This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.

• Installation image (R2-Series)



*For details of the installation restrictions, refer to the DATABOOK.

• System example



*R2-Series systems require the use of a BC controller.

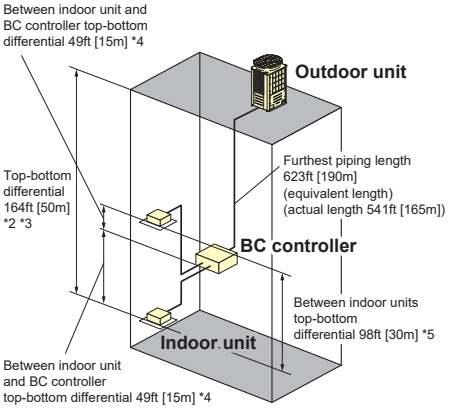
• System Pipe Lengths

[HP72–HP240 T(S)NU/Y(S)NU]
[(E)P72–(E)P432 T(S)NU/Y(S)NU]
[P72–P288 Z(S)KMU]

Refrigerant Piping Lengths	Maximum feet [Meters]
Total piping length	
(E)P72–96TNU/YNU/ZKMU, HP72–96TNU/YNU	1,804 [550]
(E)P120–168TNU/YNU/ZKMU, HP120–144T(S)NU/Y(S)NU	1,968 [600]
(E)P192TSNU/YSNU/ZSKMU, EP192–240TNU/YNU, HP192TSNU/YSNU	2,460 [750]
(E)P216–240TSNU/YSNU/ZSKMU, HP240TSNU/YSNU	2,624 [800]
(E)P264–336TSNU/YSNU, P264–288ZSKMU	3,116 [950]
Maximum allowable length	541 (623 equivalent) [165 (190)]
Maximum length between outdoor and single/main BC controller	360 [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	131–295 [40-90]

Vertical differentials between units	Maximum feet [Meters]
Indoor/outdoor (outdoor higher)	164 [50]*3
Indoor/outdoor (outdoor lower)	131 [40]*3
Indoor/BC controller (single/main)	49 [15]*4
*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.	
Indoor/indoor	98 [30]*5
Main BC Controller/Sub-BC Controller	49 [15]

*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 131ft [40m].
*3 Depending on the model and installation conditions, top-bottom differential 370ft [113m] (o/u above) and 196ft [60m] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.
*4 Distance of Indoor sized P72, P96 from BC must be less than 32ft [10m], if any.
*5 Distance of Indoor sized P72, P96 from BC must be less than 65ft [20m], if any.



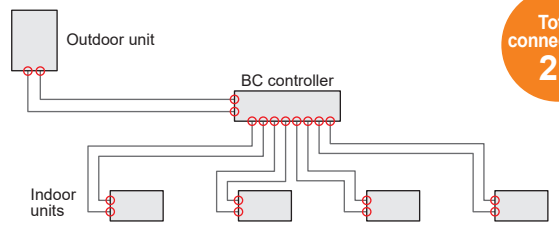
Benefits of the R2 system

Unique to Mitsubishi Electric, our heat recovery technology uses just two pipes, as opposed to the market conventional three. Our R2 system, designed for effective simultaneous heating and cooling, offers substantial savings on installation and annual running costs.

Mitsubishi Electric 2-pipe R2 system: less piping/connections compared to a 3-pipe system

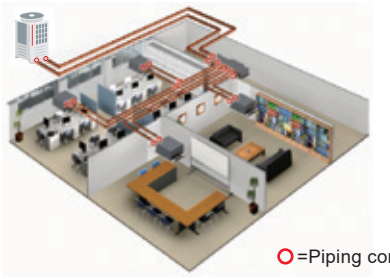
• Comparison example of piping connections

2 pipes **CITY MULTI R2**



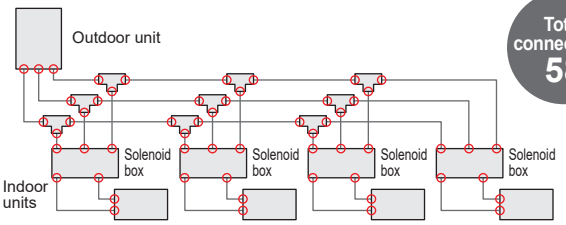
Total connections 20

Drastically reduces the amount of piping



○=Piping connections

3 pipes



Total connections 58



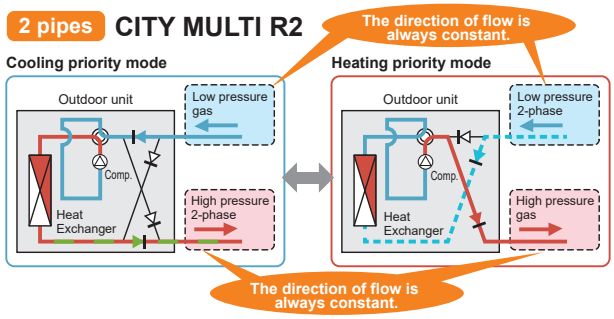
○=Piping connections

Cooling/heating modes can be switched without stopping operation

When cooling/heating mode switches

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

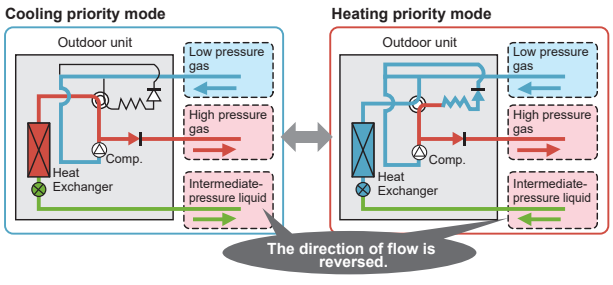
2 pipes **CITY MULTI R2**



When cooling/heating mode switches

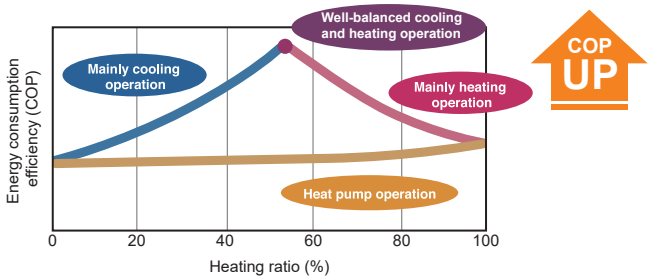
- Compressor shuts down.
- All indoor units stop for a few minutes.

3 pipes



Heat recovery operation for greater energy savings

• COP of the heat recovery system



COP of the heat recovery system

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

Optional parts

• For H2i, High efficiency, Standard

Description			Model	Remarks
Panel heater kit *1			PAC-PH01EHYU-E	For S module
			PAC-PH02EHYU-E	For L module
			PAC-PH03EHYU-E	For XL module
Twinning kit			CMY-R100NCBK	For PURY-HP144T/YSNU-A1
			CMY-R200NCBK	For PURY-(E)P192-(E)P240T/YSNU-A1, PURY-HP192-HP240T/YSNU-A1
			CMY-R300NCBK	For PURY-P264-P336T/YSNU-A1, PURY-EP264-EP432T/YSNU-A1
For BC controller	Branch pipe (Joint)	Between BC controller and indoor units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: -P72
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P73-P96
	Joint and reducer	Between Main BC controller and Sub BC controller *Not necessary when J2 type BC controller is used.	CMY-R201S-G	Total down-stream indoor unit capacity: -P126
			CMY-R202S-G	Total down-stream indoor unit capacity: P127-P216
			CMY-R203S-G	Total down-stream indoor unit capacity: P217-P234
			CMY-R204S-G	Total down-stream indoor unit capacity: P235-P360
			CMY-R205S-G	Total down-stream indoor unit capacity: P361-
	Reducer	Between outdoor units and BC controller	CMY-R301S-G	For J2 type (Outdoor unit capacity: P72-P120)
			CMY-R302S-G1	For JA2 type (Outdoor unit capacity: P72-P336)
			CMY-R304S-G1	For KA2 type (Outdoor unit capacity: P72-P432)
		Between Main BC controller and Sub BC controller	CMY-R303S-G1	For JA2 type (When using the Sub BC controller)
			CMY-R305S-G1	For KA2 type (When using the Sub BC controller)
			CMY-R306S-G	For KB2 type
	Joint pipe kit		CMY-R160-J2	Joint for connecting two nozzles
Fin Guard *2			PAC-FG01S-E	For side surfaces of HP model (a set of two pieces)
			PAC-FG02B-E	For rear surface of HP model (a set of two pieces)

*1. If there is a risk that the drain water will freeze inside the outdoor unit, the installation of a panel heater is recommended. The HP models are standard equipped with panel heaters. For details, refer to the installation manual for the panel heater.
*2. P/EP models are standard equipped with fin guard.

• For Standard (575V)

Description			Model	Remarks
Twinning kit			CMY-R100CBK2	For PURY-P168-192ZSKMU-B
			CMY-R100XLCBK	For PURY-P216-288ZSKMU-B
For BC controller	Branch pipe (Joint)	Between BC controller and indoor units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: -P72
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P73-P96
	Joint and reducer	Between Main BC controller and Sub BC controller *Not necessary when J2 type BC controller is used.	CMY-R201S-G	Total down-stream indoor unit capacity: -P126
			CMY-R202S-G	Total down-stream indoor unit capacity: P127-P216
			CMY-R203S-G	Total down-stream indoor unit capacity: P217-P234
			CMY-R204S-G	Total down-stream indoor unit capacity: P235-P360
			CMY-R205S-G	Total down-stream indoor unit capacity: P361-
	Reducer	Between outdoor units and BC controller	CMY-R301S-G	For J2 type (Outdoor unit capacity: P72-P120)
			CMY-R302S-G1	For JA2 type (Outdoor unit capacity: P72-P336)
			CMY-R304S-G1	For KA2 type (Outdoor unit capacity: P72-P432)
		Between Main BC controller and Sub BC controller	CMY-R303S-G1	For JA2 type (When using the Sub BC controller)
			CMY-R305S-G1	For KA2 type (When using the Sub BC controller)
			CMY-R306S-G	For KB2 type
	Joint pipe kit		CMY-R160-J2	Joint for connecting two nozzles

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

OUTDOOR UNIT
R2-Series H2i (208-230V)
PURY-HP TNU-A1



► Specifications

Outdoor Model			PURY-HP72TNU-A1		PURY-HP96TNU-A1		PURY-HP120TNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	72,000		96,000		120,000	
		kW	21.1		28.1		35.2	
	Power input	kW	5.22		6.50		8.82	
(208-230)	Current input	A	16.0-14.5		20.0-18.1		27.2-24.6	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	5.45	5.55	7.35	7.45	10.40	10.45
(208-230)	Current input	A	16.8-15.2	17.1-15.4	22.6-20.5	22.9-20.7	32.0-29.0	32.2-29.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	80,000		108,000		135,000	
		kW	23.4		31.7		39.6	
	Power input	kW	5.66		7.58		10.07	
(208-230)	Current input	A	17.4-15.7		23.3-21.1		31.0-28.0	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	5.12	5.36	6.93	7.02	9.01	9.50
(208-230)	Current input	A	15.7-14.2	16.5-14.9	21.3-19.3	21.6-19.5	27.7-25.1	29.2-26.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room) *3		dB <A>	75.5/77.0		79.0/80.0		84.5/85.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	55-49		66-60		66-60	
Maximum Overcurrent Protection		A	90-80		110-100		110-100	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	7,400		8,300		9,550	
		m^3 / min	210		235		270	
		L / s	3,500		3,920		4,500	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.0		5.6		7.8	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	602 (273)		653 (296)		653 (296)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,301,306S-G,CMY-R302,303, 304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series H2i (208-230V)
PURY-HP TSNU-A1



► Specifications

Outdoor Model			PURY-HP144TSNU-A1		PURY-HP192TSNU-A1		PURY-HP240TSNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	144,000		192,000		240,000	
		kW	42.2		56.3		70.3	
	Power input	kW	11.92		14.53		20.08	
(208-230)	Current input	A	36.7-33.2		44.8-40.5		61.9-56.0	
(Rated)		BTU / h	138,000		184,000		230,000	
		kW	40.4		53.9		67.4	
	Power input	kW	11.65	12.10	16.05	16.15	22.45	22.60
(208-230)	Current input	A	35.9-32.4	37.3-33.7	49.5-44.7	49.8-45.0	69.2-62.6	69.7-63.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	160,000		215,000		270,000	
		kW	46.9		63.0		79.1	
	Power input	kW	12.50		16.49		22.45	
(208-230)	Current input	A	38.5-34.8		50.8-45.9		69.2-62.6	
(Rated)		BTU / h	152,000		206,000		258,000	
		kW	44.5		60.4		75.6	
	Power input	kW	11.22	11.75	15.04	15.20	20.65	20.55
(208-230)	Current input	A	34.6-31.2	36.2-32.7	46.3-41.9	46.8-42.3	63.6-57.5	63.3-57.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~48		P04~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	78.5/80.0		82.0/83.0		87.5/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PURY-HP72TNU-A1	PURY-HP72TNU-A1	PURY-HP96TNU-A1	PURY-HP96TNU-A1	PURY-HP120TNU-A1	PURY-HP120TNU-A1
Minimum Circuit Ampacity		A	55-49	55-49	66-60	66-60	66-60	66-60
Maximum Overcurrent Protection		A	90-80	90-80	110-100	110-100	110-100	110-100
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,400	7,400	8,300	8,300	9,550	9,550
		m^3 / min	210	210	235	235	270	270
		L / s	3,500	3,500	3,920	3,920	4,500	4,500
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.0	4.0	5.6	5.6	7.8	7.8
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	602 (273)	602 (273)	653 (296)	653 (296)	653 (296)	653 (296)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R100NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series H2i (460V)
PURY-HP YNU-A1



► Specifications

Outdoor Model			PURY-HP72YNU-A1		PURY-HP96YNU-A1		PURY-HP120YNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	72,000		96,000		120,000	
		kW	21.1		28.1		35.2	
	Power input	kW	5.22		6.50		8.82	
(460)	Current input	A	7.2		9.0		12.3	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	5.45	5.55	7.35	7.45	10.40	10.45
(460)	Current input	A	7.6	7.7	10.2	10.3	14.5	14.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	80,000		108,000		135,000	
		kW	23.4		31.7		39.6	
	Power input	kW	5.66		7.58		10.07	
(460)	Current input	A	7.8		10.5		14.0	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	5.12	5.36	6.93	7.02	9.01	9.50
(460)	Current input	A	7.1	7.4	9.6	9.7	12.5	13.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room) *3		dB <A>	75.5/77.0		79.0/80.0		84.5/85.5	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	25		30		35	
Maximum Overcurrent Protection		A	40		50		50	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	7,400		8,300		9,550	
		m^3 / min	210		235		270	
		L / s	3,500		3,920		4,500	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.0		5.6		7.8	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		638 (289)		-		-	
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	638 (289)		688 (312)		688 (312)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,301,306S-G,CMY-R302,303,304, 305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series H2i (460V)
PURY-HP YSNU-A1



► Specifications

Outdoor Model			PURY-HP144YSNU-A1		PURY-HP192YSNU-A1	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	144,000		192,000	
		kW	42.2		56.3	
	Power input	kW	11.92		14.53	
(460)	Current input	A	16.6		20.2	
(Rated)		BTU / h	138,000		184,000	
		kW	40.4		53.9	
	Power input	kW	11.65	12.10	16.05	16.15
(460)	Current input	A	16.2	16.8	22.3	22.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	160,000		215,000	
		kW	46.9		63.0	
	Power input	kW	12.50		16.49	
(460)	Current input	A	17.4		22.9	
(Rated)		BTU / h	152,000		206,000	
		kW	44.5		60.4	
	Power input	kW	11.22	11.75	15.04	15.20
(460)	Current input	A	15.6	16.3	20.9	21.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)		-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~48	
Sound power level (measured in anechoic room) *3		dB <A>	78.5/80.0		82.0/83.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PURY-HP72YNU-A1	PURY-HP72YNU-A1	PURY-HP96YNU-A1	PURY-HP96YNU-A1
Minimum Circuit Ampacity		A	25	25	30	30
Maximum Overcurrent Protection		A	40	40	50	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,400	7,400	8,300	8,300
		m^3 / min	210	210	235	235
		L / s	3,500	3,500	3,920	3,920
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.0	4.0	5.6	5.6
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	638 (289)	638 (289)	688 (312)	688 (312)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Outdoor Twinning kit: CMY-R100NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series H2i (460V)
PURY-HP YSNU-A1



► Specifications

Outdoor Model			PURY-HP240YSNU-A1	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	240,000	
		kW	70.3	
	Power input	kW	20.08	
(460)	Current input	A	28.0	
(Rated)		BTU / h	230,000	
		kW	67.4	
	Power input	kW	22.45	22.60
(460)	Current input	A	31.3	31.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	270,000	
		kW	79.1	
	Power input	kW	22.45	
(460)	Current input	A	31.3	
(Rated)		BTU / h	258,000	
		kW	75.6	
	Power input	kW	20.65	20.55
(460)	Current input	A	28.7	28.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-22~60°F (-30~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	87.5/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed	

Set Model

Model			PURY-HP120YNU-A1	PURY-HP120YNU-A1
Minimum Circuit Ampacity		A	35	35
Maximum Overcurrent Protection		A	50	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	9,550	9,550
		m^3 / min	270	270
		L / s	4,500	4,500
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter
	Motor output	kW	7.8	7.8
	Case heater	kW	0.045	0.045
External finish			Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 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	
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	688 (312)	688 (312)
Heat exchanger			Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	95°F D.B. (35°C D.B.)
Heating	70°F D.B. (21.1°C D.B.)	47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* The outdoor unit may make more noise when operating in low outside air temperature.
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP72TNU-A1 (-BS)		PURY-EP96TNU-A1 (-BS)		PURY-EP120TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	72,000		96,000		120,000	
(Nominal)	*1	kW	21.1		28.1		35.2	
	Power input	kW	4.44		6.11		8.43	
(208-230)	Current input	A	13.6-12.3		18.8-17.0		25.9-23.5	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	5.40	5.45	7.36	7.40	10.55	10.45
(208-230)	Current input	A	16.6-15.0	16.8-15.2	22.6-20.5	22.8-20.6	32.5-29.4	32.2-29.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity	*2	BTU / h	80,000		108,000		135,000	
(Nominal)	*2	kW	23.4		31.7		39.6	
	Power input	kW	5.43		7.40		9.89	
(208-230)	Current input	A	16.7-15.1		22.8-20.6		30.5-27.5	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	4.77	5.28	6.72	6.90	8.95	9.22
(208-230)	Current input	A	14.7-13.3	16.2-14.7	20.7-18.7	21.2-19.2	27.6-24.9	28.4-25.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*3	dB <A>	75.5/77.0		77.5/79.0		80.5/80.5	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	33-30		44-40		56-55	
Maximum Overcurrent Protection		A	50-50		70-60		90-90	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6,000		7,400		8,300	
		m^3 / min	170		210		235	
		L / s	2,830		3,500		3,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.8		5.5		7.6	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 11 lbs + 7 oz (5.2 kg)		R410A x 17 lbs + 10 oz (8.0 kg)		R410A x 17 lbs + 10 oz (8.0 kg)	
Net weight		lbs (kg)	519 (235)		613 (278)		622 (282)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP144TNU-A1 (-BS)		PURY-EP168TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000	
	*1	kW	42.2		49.2	
	Power input	kW	11.03		13.99	
(208-230)	Current input	A	34.0-30.7		43.1-39.0	
(Rated)		BTU / h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	13.30	13.10	15.40	15.30
(208-230)	Current input	A	41.0-37.0	40.4-36.5	47.4-42.9	47.1-42.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000	
	*2	kW	46.9		55.1	
	Power input	kW	12.34		15.17	
(208-230)	Current input	A	38.0-34.4		46.7-42.3	
(Rated)		BTU / h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	11.08	11.60	13.23	14.42
(208-230)	Current input	A	34.1-30.9	35.7-32.3	40.8-36.9	44.4-40.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42	
Sound power level (measured in anechoic room)	*3	dB <A>	85.5/85.5		81.5/85.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	60-60		70-70	
Maximum Overcurrent Protection		A	100-100		110-110	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	9,550		14,850	
		m^3 / min	270		420	
		L / s	4,500		7,000	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.92+0.92	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.8		12.2	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	680 (308)		777 (352)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP192TNU-A1 (-BS)		PURY-EP216TNU-A1 (-BS)		PURY-EP240TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	192,000		216,000		224,000	
(Nominal)	*1	kW	56.3		63.3		65.7	
	Power input	kW	15.65		18.66		21.39	
(208-230)	Current input	A	48.2-43.6		57.5-52.0		65.9-59.6	
(Rated)		BTU / h	184,000		206,000		214,000	
		kW	53.9		60.4		62.7	
	Power input	kW	17.55	17.25	20.50	20.35	21.60	21.00
(208-230)	Current input	A	54.1-48.9	53.2-48.1	63.2-57.1	62.7-56.7	66.6-60.2	64.7-58.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity	*2	BTU / h	215,000		243,000		250,000	
(Nominal)	*2	kW	63.0		71.2		73.3	
	Power input	kW	17.54		20.43		21.79	
(208-230)	Current input	A	54.0-48.9		63.0-56.9		67.2-60.7	
(Rated)		BTU / h	204,000		232,000		240,000	
		kW	59.8		68.0		70.3	
	Power input	kW	15.37	16.34	18.22	19.25	19.96	20.20
(208-230)	Current input	A	47.4-42.8	50.3-45.5	56.1-50.8	59.3-53.6	61.5-55.6	62.2-56.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	83.5/85.0		86.0/86.5		88.0/87.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity		A	80-75		88-85		88-88	
Maximum Overcurrent Protection		A	125-125		150-150		150-150	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	13,050		14,100		14,500	
		m^3 / min	370		400		410	
		L / s	6,170		6,670		6,830	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92		0.92+0.92		0.92+0.92	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	13.2		15.8		17.0	
	Case heater	kW	0.048		0.048		0.048	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,750 x 740		1,818 x 1,750 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight		lbs (kg)	887 (402)		887 (402)		887 (402)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 The sound pressure level measured by the conventional method in JIS for reference purpose.

*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP192TSNU-A1 (-BS)		PURY-EP216TSNU-A1 (-BS)		PURY-EP240TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
	Power input	kW	13.60		16.06		19.17	
(208-230)	Current input	A	41.9-37.9		49.5-44.7		59.1-53.4	
(Rated)		BTU / h	184,000		206,000		230,000	
		kW	53.9		60.4		67.4	
	Power input	kW	15.80	15.90	19.00	19.10	22.35	22.60
(208-230)	Current input	A	48.7-44.0	49.0-44.3	58.5-52.9	58.9-53.2	68.9-62.3	69.7-63.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	215,000		243,000		270,000	
	*2	kW	63.0		71.2		79.1	
	Power input	kW	16.02		18.67		22.03	
(208-230)	Current input	A	49.4-44.6		57.5-52.0		67.9-61.4	
(Rated)		BTU / h	204,000		232,000		258,000	
		kW	59.8		68.0		75.6	
	Power input	kW	14.46	14.75	16.91	17.32	20.52	19.90
(208-230)	Current input	A	44.5-40.3	45.4-41.1	52.1-47.1	53.4-48.3	63.2-57.2	61.3-55.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	80.5/82.0		82.0/83.0		83.0/83.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PURY-EP96TNU-A1 (-BS)	PURY-EP96TNU-A1 (-BS)	PURY-EP96TNU-A1 (-BS)	PURY-EP120TNU-A1 (-BS)	PURY-EP120TNU-A1 (-BS)	PURY-EP120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	44-40	44-40	44-40	56-55	56-55	56-55
Maximum Overcurrent Protection		A	70-60	70-60	70-60	90-90	90-90	90-90
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,400	7,400	7,400	8,300	8,300	8,300
		m^3 / min	210	210	210	235	235	235
		L / s	3,500	3,500	3,500	3,920	3,920	3,920
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	5.5	7.6	7.6	7.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)
Net weight		lbs (kg)	613 (278)	613 (278)	613 (278)	622 (282)	622 (282)	622 (282)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMYR201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

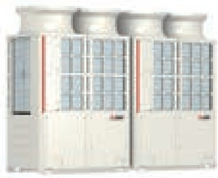
Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TSNU-A1(-BS)




▸ Specifications

Outdoor Model				PURY-EP264TSNU-A1 (-BS)		PURY-EP288TSNU-A1 (-BS)		PURY-EP312TSNU-A1 (-BS)	
Indoor Model				Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity		*1	BTU / h	264,000		288,000		312,000	
(Nominal)		*1	kW	77.4		84.4		91.4	
		Power input	kW	21.86		24.83		27.98	
	(208-230)	Current input	A	67.4-60.9		76.5-69.2		86.2-78.0	
	(Rated)		BTU / h	252,000		276,000		298,000	
			kW	73.9		80.9		87.3	
		Power input	kW	25.30	25.43	28.60	28.45	30.80	30.68
	(208-230)	Current input	A	78.0-70.5	78.4-70.9	88.2-79.7	87.7-79.3	94.9-85.9	94.6-85.5
Temp. range of cooling		Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
		Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity		*2	BTU / h	295,000		323,000		350,000	
(Nominal)		*2	kW	86.5		94.7		102.6	
		Power input	kW	24.56		27.30		30.53	
	(208-230)	Current input	A	75.7-68.5		84.1-76.1		94.1-85.1	
	(Rated)		BTU / h	280,000		304,000		334,000	
			kW	82.1		89.1		97.9	
		Power input	kW	22.65	22.30	25.15	25.05	28.35	27.78
	(208-230)	Current input	A	69.8-63.1	68.7-62.1	77.5-70.1	77.2-69.8	87.4-79.0	85.6-77.4
Temp. range of heating		Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
		Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable		Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
		Model / Quantity		P04~P96/2~50		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)		*3	dB <A>	87.0/87.0		88.5/88.5		87.0/88.5	
Refrigerant piping diameter		High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
		Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	
Set Model									
Model				PURY-EP144TNU-A1 (-BS)	PURY-EP120TNU-A1 (-BS)	PURY-EP144TNU-A1 (-BS)	PURY-EP144TNU-A1 (-BS)	PURY-EP144TNU-A1 (-BS)	PURY-EP168TNU-A1 (-BS)
Minimum Circuit Ampacity			A	60-60	56-55	60-60	60-60	60-60	70-70
Maximum Overcurrent Protection			A	100-100	90-90	100-100	100-100	100-100	110-110
FAN		Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
		Airflow rate	cfm	9,550	8,300	9,550	9,550	9,550	14,850
			m^3 / min	270	235	270	270	270	420
			L / s	4,500	3,920	4,500	4,500	4,500	7,000
		Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
		Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.92+0.92
	*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor		Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
		Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
		Motor output	kW	9.8	7.6	9.8	9.8	9.8	12.2
		Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish				Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D			in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
			mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,750 x 740
Protection devices		High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
		Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
		Fan motor		-	-	-	-	-	-
Refrigerant		Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight			lbs (kg)	680 (308)	622 (282)	680 (308)	680 (308)	680 (308)	777 (352)
Heat exchanger				Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor		High pressure	in. (mm)	7/8 (22.2) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
		Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts				Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP336TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	336,000	
(Nominal) *1		kW	98.5	
	Power input	kW	31.43	
(208-230)	Current input	A	96.9-87.6	
(Rated)		BTU / h	320,000	
		kW	93.8	
	Power input	kW	33.45	33.32
(208-230)	Current input	A	103.1-93.2	102.7-92.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity *2		BTU / h	378,000	
(Nominal) *2		kW	110.8	
	Power input	kW	33.55	
(208-230)	Current input	A	103.4-93.5	
(Rated)		BTU / h	360,000	
		kW	105.5	
	Power input	kW	31.30	30.20
(208-230)	Current input	A	96.5-87.2	93.1-84.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	84.5/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed	

Set Model

Model			PURY-EP168TNU-A1 (-BS)	PURY-EP168TNU-A1 (-BS)
Minimum Circuit Ampacity		A	70-70	70-70
Maximum Overcurrent Protection		A	110-110	110-110
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850	14,850
		m^3 / min	420	420
		L / s	7,000	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92+0.92	0.92+0.92
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter
	Motor output	kW	12.2	12.2
	Case heater	kW	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	777 (352)	777 (352)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (208-230V)
PURY-EP TSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP384TSNU-A1 (-BS)		PURY-EP432TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	384,000		432,000	
	*1	kW	112.5		126.6	
	Power input	kW	36.62		42.36	
(208-230)	Current input	A	112.9-102.1		130.6-118.1	
(Rated)		BTU / h	364,000		410,000	
		kW	106.7		120.2	
	Power input	kW	39.05	38.27	44.40	43.98
(208-230)	Current input	A	120.4-108.9	118.0-106.7	136.9-123.8	135.6-122.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	430,000		480,000	
	*2	kW	126.0		140.7	
	Power input	kW	38.66		43.14	
(208-230)	Current input	A	119.2-107.8		133.0-120.3	
(Rated)		BTU / h	410,000		455,000	
		kW	120.2		133.4	
	Power input	kW	36.47	34.75	40.70	38.90
(208-230)	Current input	A	112.4-101.7	107.1-96.9	125.5-113.5	119.9-108.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	86.5/89.0		89.0/89.0	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PURY-EP192TNU-A1 (-BS)	PURY-EP192TNU-A1 (-BS)	PURY-EP216TNU-A1 (-BS)	PURY-EP216TNU-A1 (-BS)
Minimum Circuit Ampacity		A	80-75	80-75	88-85	88-85
Maximum Overcurrent Protection		A	125-125	125-125	150-150	150-150
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	13,050	13,050	14,100	14,100
		m^3 / min	370	370	400	400
		L / s	6,170	6,170	6,670	6,670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	0.92+0.92	0.92+0.92	0.92+0.92
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	13.2	13.2	15.8	15.8
	Case heater	kW	0.048	0.048	0.048	0.048
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,750 x 740	1,818 x 1,750 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	Over-current protection
	Fan motor		-	-	-	-
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	887 (402)	887 (402)	887 (402)	887 (402)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP72YNU-A1 (-BS)		PURY-EP96YNU-A1 (-BS)		PURY-EP120YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		120,000	
	*1	kW	21.1		28.1		35.2	
(460)	Power input	kW	4.44		6.11		8.43	
(460)	Current input	A	6.1		8.5		11.7	
(Rated)		BTU / h	69,000		92,000		115,000	
(Rated)		kW	20.2		27.0		33.7	
(460)	Power input	kW	5.40	5.45	7.36	7.40	10.55	10.45
(460)	Current input	A	7.5	7.6	10.2	10.3	14.7	14.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
(460)	Power input	kW	5.43		7.40		9.89	
(460)	Current input	A	7.5		10.3		13.7	
(Rated)		BTU / h	76,000		103,000		129,000	
(Rated)		kW	22.3		30.2		37.8	
(460)	Power input	kW	4.77	5.28	6.72	6.90	13.30	9.22
(460)	Current input	A	6.6	7.3	9.3	9.6	12.4	12.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*3	dB <A>	75.5/77.0		77.5/79.0		80.0/80.5	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	14		20		26	
Maximum Overcurrent Protection		A	20		30		40	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6,000		7,400		8,300	
		m^3 / min	170		210		235	
		L / s	2,830		3,500		3,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	3.8		5.5		7.6	
	Case heater	kW	0.045		0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 11 lbs + 7 oz (5.2 kg)		R410A x 17 lbs + 10 oz (8.0 kg)		R410A x 17 lbs + 10 oz (8.0 kg)	
Net weight		lbs (kg)	552 (250)		649 (294)		657 (298)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,301,306S-G,CMY-R302,303, 304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP144YNU-A1 (-BS)		PURY-EP168YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000	
	*1	kW	42.2		49.2	
	Power input	kW	11.03		13.99	
(460)	Current input	A	15.3		19.5	
(Rated)		BTU / h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	13.30	13.10	15.40	15.30
(460)	Current input	A	18.5	18.2	21.4	21.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000	
	*2	kW	46.9		55.1	
	Power input	kW	12.34		15.17	
(460)	Current input	A	17.2		21.1	
(Rated)		BTU / h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	11.08	11.60	13.23	14.42
(460)	Current input	A	15.4	16.1	18.4	20.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42	
Sound power level (measured in anechoic room)	*3	dB <A>	85.5/85.5		81.5/85.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	34		26	
Maximum Overcurrent Protection		A	50		40	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	9,550		14,850	
		m^3 / min	270		420	
		L / s	4,500		7,000	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.92+0.92	
*4	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.8		12.2	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	715 (324)		807 (366)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YNU-A1(-BS)



▸ Specifications

Outdoor Model			PURY-EP192YNU-A1 (-BS)		PURY-EP216YNU-A1 (-BS)		PURY-EP240YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		224,000	
	*1	kW	56.3		63.3		65.7	
	Power input	kW	15.65		18.66		21.39	
(460)	Current input	A	21.8		26.0		29.8	
(Rated)		BTU / h	184,000		206,000		214,000	
		kW	53.9		60.4		62.7	
	Power input	kW	17.55	17.25	20.50	20.35	21.60	21.00
(460)	Current input	A	24.4	24.0	28.5	28.3	30.1	29.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	215,000		243,000		250,000	
	*2	kW	63.0		71.2		73.3	
	Power input	kW	17.54		20.43		21.79	
(460)	Current input	A	24.4		28.4		30.3	
(Rated)		BTU / h	204,000		232,000		240,000	
		kW	59.8		68.0		70.3	
	Power input	kW	15.37	16.34	18.22	19.25	19.96	20.20
(460)	Current input	A	21.4	22.7	25.4	26.8	27.8	28.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	83.5/85.0		86.0/86.5		88.0/87.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity		A	38		41		41	
Maximum Overcurrent Protection		A	60		70		70	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	13,050		14,100		14,500	
		m^3 / min	370		400		410	
		L / s	6,170		6,670		6,830	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92		0.92+0.92		0.92+0.92	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	13.2		15.8		17.0	
	Case heater	kW	0.048		0.048		0.048	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,750 x 740		1,818 x 1,750 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight		lbs (kg)	918 (416)		918 (416)		918 (416)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 The sound pressure level measured by the conventional method in JIS for reference purpose.
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP192YSNU-A1 (-BS)		PURY-EP216YSNU-A1 (-BS)		PURY-EP240YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	192,000		216,000		240,000	
	*1	kW	56.3		63.3		70.3	
	Power input	kW	13.60		16.06		19.17	
(460)	Current input	A	18.9		22.3		26.7	
(Rated)		BTU / h	184,000		206,000		230,000	
		kW	53.9		60.4		67.4	
	Power input	kW	15.80	15.90	19.00	19.10	22.35	22.60
(460)	Current input	A	22.0	22.1	26.4	26.6	31.1	31.5
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	215,000		243,000		270,000	
	*2	kW	63.0		71.2		79.1	
	Power input	kW	16.02		18.67		22.03	
(460)	Current input	A	22.3		26.0		30.7	
(Rated)		BTU / h	204,000		232,000		258,000	
		kW	59.8		68.0		75.6	
	Power input	kW	14.46	14.75	16.91	17.32	20.52	19.90
(460)	Current input	A	20.1	20.5	23.5	24.1	28.6	27.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	80.5/82.0		82.0/83.0		83.0/83.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PURY-EP96YNU-A1 (-BS)	PURY-EP96YNU-A1 (-BS)	PURY-EP96YNU-A1 (-BS)	PURY-EP120YNU-A1 (-BS)	PURY-EP120YNU-A1 (-BS)	PURY-EP120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	20	20	20	26	26	26
Maximum Overcurrent Protection		A	30	30	30	40	40	40
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,400	7,400	7,400	8,300	8,300	8,300
		m^3 / min	210	210	210	235	235	235
		L / s	3,500	3,500	3,500	3,920	3,920	3,920
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	5.5	7.6	7.6	7.6
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)
Net weight		lbs (kg)	649 (294)	649 (294)	649 (294)	657 (298)	657 (298)	657 (298)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode

*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP264YSNU-A1 (-BS)		PURY-EP288YSNU-A1 (-BS)		PURY-EP312YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	264,000		288,000		312,000	
	*1	kW	77.4		84.4		91.4	
	Power input	kW	21.86		24.83		27.98	
(460)	Current input	A	30.4		34.6		39.0	
(Rated)		BTU / h	252,000		276,000		298,000	
		kW	73.9		80.9		87.3	
	Power input	kW	25.30	25.43	28.60	28.45	30.80	30.68
(460)	Current input	A	35.2	35.4	39.8	39.6	42.9	42.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	295,000		323,000		350,000	
	*2	kW	86.5		94.7		102.6	
	Power input	kW	24.56		27.30		30.53	
(460)	Current input	A	34.2		38.0		42.5	
(Rated)		BTU / h	280,000		304,000		334,000	
		kW	82.1		89.1		97.9	
	Power input	kW	22.65	22.30	25.15	25.05	28.35	27.78
(460)	Current input	A	31.5	31.0	35.0	34.9	39.5	38.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	87.0/87.0		88.5/88.5		87.0/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	
Set Model								
Model			**PURY-EP120YNU-A1 (-BS)**	**PURY-EP144YNU-A1 (-BS)**	**PURY-EP144YNU-A1 (-BS)**	**PURY-EP144YNU-A1 (-BS)**	**PURY-EP144YNU-A1 (-BS)**	**PURY-EP168YNU-A1 (-BS)**
Minimum Circuit Ampacity		A	26	34	34	34	34	35
Maximum Overcurrent Protection		A	40	50	50	50	50	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	8,300	9,550	9,550	9,550	9,550	14,850
		m^3 / min	235	270	270	270	270	420
		L / s	3,920	4,500	4,500	4,500	4,500	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.92+0.92
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.6	9.8	9.8	9.8	9.8	12.2
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	657 (298)	715 (324)	715 (324)	715 (324)	715 (324)	807 (366)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP336YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	336,000	
	*1	kW	98.5	
	Power input	kW	31.43	
(460)	Current input	A	43.8	
(Rated)		BTU / h	320,000	
		kW	93.8	
	Power input	kW	33.45	33.32
(460)	Current input	A	46.6	46.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	378,000	
	*2	kW	110.8	
	Power input	kW	33.55	
(460)	Current input	A	46.7	
(Rated)		BTU / h	360,000	
		kW	105.5	
	Power input	kW	31.30	30.20
(460)	Current input	A	43.6	42.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	84.5/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed	

Set Model				
Model			**PURY-EP168YNU-A1 (-BS)**	**PURY-EP168YNU-A1 (-BS)**
Minimum Circuit Ampacity		A	35	35
Maximum Overcurrent Protection		A	50	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850	14,850
		m^3 / min	420	420
		L / s	7,000	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92+0.92	0.92+0.92
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter
	Motor output	kW	12.2	12.2
	Case heater	kW	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	807 (366)	807 (366)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series High efficiency (460V)
PURY-EP YSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-EP384YSNU-A1 (-BS)		PURY-EP432YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	384,000		432,000	
	*1	kW	112.5		126.6	
	Power input	kW	36.62		42.36	
(460)	Current input	A	51.0		59.0	
(Rated)		BTU / h	364,000		410,000	
		kW	106.7		120.2	
	Power input	kW	39.05	38.27	44.40	43.98
(460)	Current input	A	54.4	53.3	61.9	61.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	430,000		480,000	
	*2	kW	126.0		140.7	
	Power input	kW	38.66		43.14	
(460)	Current input	A	53.9		60.1	
(Rated)		BTU / h	410,000		455,000	
		kW	120.2		133.4	
	Power input	kW	36.47	34.75	40.70	38.90
(460)	Current input	A	50.8	48.4	56.7	54.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*3	dB <A>	86.5/89.0		89.0/89.0	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PURY-EP192YNU-A1 (-BS)	PURY-EP192YNU-A1 (-BS)	PURY-EP216YNU-A1 (-BS)	PURY-EP216YNU-A1 (-BS)
Minimum Circuit Ampacity		A	38	38	41	41
Maximum Overcurrent Protection		A	60	60	70	70
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	13,050	13,050	14,100	14,100
		m^3 / min	370	370	400	400
		L / s	6,170	6,170	6,670	6,670
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	0.92+0.92	0.92+0.92	0.92+0.92
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	13.2	13.2	15.8	15.8
	Case heater	kW	0.048	0.048	0.048	0.048
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,750 x 740	1,818 x 1,750 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	Over-current protection
	Fan motor		-	-	-	-
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	918 (416)	918 (416)	918 (416)	918 (416)
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Nominal cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 Cooling mode / Heating mode
*4 The sound pressure level measured by the conventional method in JIS for reference purpose.
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (208-230V)
PURY-P TNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P72TNU-A1 (-BS)		PURY-P96TNU-A1 (-BS)		PURY-P120TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		120,000	
	*1	kW	21.1		28.1		35.2	
(208-230)	Power input	kW	4.62		6.50		8.82	
(208-230)	Current input	A	14.2-12.8		20.0-18.1		27.2-24.6	
(Rated)		BTU / h	69,000		92,000		115,000	
(Rated)		kW	20.2		27.0		33.7	
(208-230)	Power input	kW	5.54	5.69	7.70	7.83	10.82	10.91
(208-230)	Current input	A	17.0-15.4	17.5-15.8	23.7-21.4	24.1-21.8	33.3-30.1	33.6-30.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
(208-230)	Power input	kW	5.66		7.58		10.07	
(208-230)	Current input	A	17.4-15.7		23.3-21.1		31.0-28.0	
(Rated)		BTU / h	76,000		103,000		129,000	
(Rated)		kW	22.3		30.2		37.8	
(208-230)	Power input	kW	5.12	5.36	6.93	7.01	9.01	9.50
(208-230)	Current input	A	15.7-14.2	16.5-14.9	21.3-19.3	21.6-19.5	27.7-25.1	29.2-26.4
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*4	dB <A>	75.5/77.0		77.5/79.0		80.0/80.5	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	30-27		40-37		50-46	
Maximum Overcurrent Protection		A	50-45		60-50		80-70	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6,000		7,400		8,300	
		m^3 / min	170		210		235	
		L / s	2,830		3,500		3,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.0		5.6		7.8	
	Case heater	kW	0.035		0.035		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 11 lbs + 7 oz (5.2 kg)		R410A x 17 lbs + 10 oz (8.0 kg)		R410A x 17 lbs + 10 oz (8.0 kg)	
Net weight		lbs (kg)	483 (219)		576 (261)		598 (271)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,301,306S-G,CMY-R302,303, 304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (208-230V)
PURY-P TNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P144TNU-A1 (-BS)		PURY-P168TNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000	
	*1	kW	42.2		49.2	
	Power input	kW	11.74		14.99	
(208-230)	Current input	A	36.2-32.7		46.2-41.8	
(Rated)		BTU / h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	13.36	13.36	15.56	15.66
(208-230)	Current input	A	41.2-37.2	41.2-37.2	47.9-43.3	48.2-43.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000	
	*2	kW	46.9		55.1	
	Power input	kW	12.49		15.16	
(208-230)	Current input	A	38.5-34.8		46.7-42.2	
(Rated)		BTU / h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	11.14	11.82	13.23	14.43
(208-230)	Current input	A	34.3-31.0	36.4-32.9	40.8-36.9	44.5-40.2
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42	
Sound power level (measured in anechoic room)	*4	dB <A>	85.5/85.5		81.5/85.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	60-55		66-64	
Maximum Overcurrent Protection		A	100-90		110-100	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	9,550		14,850	
		m^3 / min	270		420	
		L / s	4,500		7,000	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.92+0.92	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.9		12.2	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	646 (293)		739 (335)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (208-230V)
PURY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P192TSNU-A1 (-BS)		PURY-P216TSNU-A1 (-BS)		PURY-P240TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	192,000		216,000		240,000	
(Nominal) *1		kW	56.3		63.3		70.3	
	Power input	kW	14.44		16.85		20.08	
(208-230)	Current input	A	44.5-40.2		51.9-46.9		61.9-56.0	
(Rated)		BTU / h	184,000		206,000		230,000	
		kW	53.9		60.4		67.4	
	Power input	kW	16.75	16.70	19.55	19.70	22.93	22.68
(208-230)	Current input	A	51.6-46.7	51.5-46.5	60.2-54.5	60.7-54.9	70.7-63.9	69.9-63.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity *2		BTU / h	215,000		243,000		270,000	
(Nominal) *2		kW	63.0		71.2		79.1	
	Power input	kW	16.40		19.05		22.45	
(208-230)	Current input	A	50.5-45.7		58.7-53.1		69.2-62.6	
(Rated)		BTU / h	204,000		232,000		258,000	
		kW	59.8		68.0		75.6	
	Power input	kW	14.88	15.04	17.23	17.68	20.64	20.58
(208-230)	Current input	A	45.8-41.5	46.3-41.9	53.1-48.0	54.5-49.3	63.6-57.5	63.4-57.4
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room) *4		dB <A>	80.5/82.0		82.0/83.0		83.0/83.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Set Model								
Model			PURY-P96TNU-A1 (-BS)	PURY-P96TNU-A1 (-BS)	PURY-P96TNU-A1 (-BS)	PURY-P120TNU-A1 (-BS)	PURY-P120TNU-A1 (-BS)	PURY-P120TNU-A1 (-BS)
Minimum Circuit Ampacity		A	40-37	40-37	40-37	50-46	50-46	50-46
Maximum Overcurrent Protection		A	60-50	60-50	60-50	80-70	80-70	80-70
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,400	7,400	7,400	8,300	8,300	8,300
		m^3 / min	210	210	210	235	235	235
		L / s	3,500	3,500	3,500	3,920	3,920	3,920
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	5.6	7.8	7.8	7.8
	Case heater	kW	0.035	0.035	0.035	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)
Net weight		lbs (kg)	576 (261)	576 (261)	576 (261)	598 (271)	598 (271)	598 (271)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (208-230V)
PURY-P TSNU-A1(-BS)




► Specifications

Outdoor Model			PURY-P264TSNU-A1 (-BS)		PURY-P288TSNU-A1 (-BS)		PURY-P312TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	264,000		288,000		312,000	
	*1	kW	77.4		84.4		91.4	
	Power input	kW	23.14		26.47		29.80	
(208-230)	Current input	A	71.3-64.5		81.6-73.8		91.9-83.1	
(Rated)		BTU / h	252,000		276,000		298,000	
		kW	73.9		80.9		87.3	
	Power input	kW	26.01	25.85	29.07	28.99	31.42	31.71
(208-230)	Current input	A	80.2-72.5	79.7-72.0	89.6-81.0	89.4-80.8	96.9-87.6	97.7-88.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	295,000		323,000		350,000	
	*2	kW	86.5		94.7		102.6	
	Power input	kW	24.99		27.65		30.75	
(208-230)	Current input	A	77.0-69.7		85.2-77.1		94.8-85.7	
(Rated)		BTU / h	280,000		304,000		334,000	
		kW	82.1		89.1		97.9	
	Power input	kW	22.82	22.88	25.30	25.52	28.50	28.10
(208-230)	Current input	A	70.3-63.6	70.5-63.8	78.0-70.5	78.7-71.1	87.8-79.4	86.6-78.3
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	87.0/87.0		88.5/88.5		87.0/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	
Set Model								
Model			**PURY-P120TNU-A1 (-BS)**	**PURY-P144TNU-A1 (-BS)**	**PURY-P144TNU-A1 (-BS)**	**PURY-P144TNU-A1 (-BS)**	**PURY-P144TNU-A1 (-BS)**	**PURY-P168TNU-A1 (-BS)**
Minimum Circuit Ampacity		A	50-46	60-55	60-55	60-55	60-55	66-64
Maximum Overcurrent Protection		A	80-70	100-90	100-90	100-90	100-90	110-100
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	8,300	9,550	9,550	9,550	9,550	14,850
		m^3 / min	235	270	270	270	270	420
		L / s	3,920	4,500	4,500	4,500	4,500	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.92+0.92
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.8	9.9	9.9	9.9	9.9	12.2
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	598 (271)	646 (293)	646 (293)	646 (293)	646 (293)	739 (335)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (208-230V)
PURY-P TSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P336TSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal) *1		BTU / h	336,000	
		kW	98.5	
(208-230)	Power input	kW	33.76	
	Current input	A	104.1-94.1	
(Rated)		BTU / h	320,000	
		kW	93.8	
(208-230)	Power input	kW	33.80	34.53
	Current input	A	104.2-94.2	106.4-96.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity *2 (Nominal) *2		BTU / h	378,000	
		kW	110.8	
(208-230)	Power input	kW	33.66	
	Current input	A	103.8-93.8	
(Rated)		BTU / h	360,000	
		kW	105.5	
(208-230)	Power input	kW	31.30	30.34
	Current input	A	96.5-87.2	93.5-84.6
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room) *4		dB <A>	84.5/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed	

Set Model

Model			PURY-P168TNU-A1 (-BS)	PURY-P168TNU-A1 (-BS)
Minimum Circuit Ampacity		A	66-64	66-64
Maximum Overcurrent Protection		A	110-100	110-100
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850	14,850
		m^3 / min	420	420
		L / s	7,000	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92+0.92	0.92+0.92
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter
	Motor output	kW	12.2	12.2
	Case heater	kW	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	739 (335)	739 (335)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (460V)
PURY-P YNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P72YNU-A1 (-BS)		PURY-P96YNU-A1 (-BS)		PURY-P120YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		120,000	
	*1	kW	21.1		28.1		35.2	
	Power input	kW	4.62		6.50		8.82	
(460)	Current input	A	6.4		9.0		12.3	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	5.54	5.69	7.70	7.83	10.82	10.91
(460)	Current input	A	7.7	7.9	10.7	10.9	15.0	15.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
	Power input	kW	5.66		7.58		10.07	
(460)	Current input	A	7.8		10.5		14.0	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	5.12	5.36	6.93	7.01	9.01	9.50
(460)	Current input	A	7.1	7.4	9.6	9.7	12.5	13.2
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound power level (measured in anechoic room)	*4	dB <A>	75.5/77.0		77.5/79.0		80.0/80.5	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	14		19		25	
Maximum Overcurrent Protection		A	20		30		40	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6,000		7,400		8,300	
		m^3 / min	170		210		235	
		L / s	2,830		3,500		3,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.46+0.46		0.46+0.46	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.0		5.6		7.8	
	Case heater	kW	0.035		0.035		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 36-1/4 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 48-7/8 x 29-3/16	
		mm	1,818 x 920 x 740		1,818 x 1,240 x 740		1,818 x 1,240 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 11 lbs + 7 oz (5.2 kg)		R410A x 17 lbs + 10 oz (8.0 kg)		R410A x 17 lbs + 10 oz (8.0 kg)	
Net weight		lbs (kg)	516 (234)		611 (277)		633 (287)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,301,306S-G,CMY-R302,303, 304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (460V)
PURY-P YNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P144YNU-A1 (-BS)		PURY-P168YNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	144,000		168,000	
(Nominal) *1		kW	42.2		49.2	
	Power input	kW	11.74		14.99	
(460)	Current input	A	16.3		20.9	
(Rated)		BTU / h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	13.36	13.36	15.56	15.66
(460)	Current input	A	18.6	18.6	21.6	21.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity *2		BTU / h	160,000		188,000	
(Nominal) *2		kW	46.9		55.1	
	Power input	kW	12.49		15.16	
(460)	Current input	A	17.4		21.1	
(Rated)		BTU / h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	11.14	11.82	13.23	14.43
(460)	Current input	A	15.5	16.4	18.4	20.1
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42	
Sound power level (measured in anechoic room) *4		dB <A>	85.5/85.5		81.5/85.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	28		32	
Maximum Overcurrent Protection		A	45		50	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	9,550		14,850	
		m^3 / min	270		420	
		L / s	4,500		7,000	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46		0.92+0.92	
*5	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.9		12.2	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16		71-5/8 x 68-15/16 x 29-3/16	
		mm	1,818 x 1,240 x 740		1,818 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight		lbs (kg)	682 (309)		774 (351)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (460V)
PURY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P192YSNU-A1 (-BS)		PURY-P216YSNU-A1 (-BS)		PURY-P240YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal) *1		BTU / h	192,000		216,000		240,000	
Cooling capacity (Nominal) *1		kW	56.3		63.3		70.3	
(460)	Power input	kW	14.44		16.85		20.08	
(460)	Current input	A	20.1		23.4		28.0	
(Rated)		BTU / h	184,000		206,000		230,000	
(Rated)		kW	53.9		60.4		67.4	
(Rated) (460)	Power input	kW	16.75	16.70	19.55	19.70	22.93	22.68
(Rated) (460)	Current input	A	23.3	23.2	27.2	27.4	31.9	31.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
Temp. range of cooling	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity (Nominal) *2		BTU / h	215,000		243,000		270,000	
Heating capacity (Nominal) *2		kW	63.0		71.2		79.1	
(460)	Power input	kW	16.40		19.05		22.45	
(460)	Current input	A	22.8		26.5		31.3	
(Rated)		BTU / h	204,000		232,000		258,000	
(Rated)		kW	59.8		68.0		75.6	
(Rated) (460)	Power input	kW	14.88	15.04	17.23	17.68	20.64	20.58
(Rated) (460)	Current input	A	20.7	20.9	24.0	24.6	28.7	28.7
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
Temp. range of heating *3	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
Indoor unit connectable	Model / Quantity		P04~P96/1~48		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room) *4		dB <A>	80.5/82.0		82.0/83.0		83.0/83.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
Refrigerant piping diameter	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PURY-P96YNU-A1 (-BS)	PURY-P96YNU-A1 (-BS)	PURY-P96YNU-A1 (-BS)	PURY-P120YNU-A1 (-BS)	PURY-P120YNU-A1 (-BS)	PURY-P120YNU-A1 (-BS)
Minimum Circuit Ampacity		A	19	19	19	25	25	25
Maximum Overcurrent Protection		A	30	30	30	40	40	40
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
FAN	Airflow rate	cfm	7,400	7,400	7,400	8,300	8,300	8,300
FAN	Airflow rate	m^3 / min	210	210	210	235	235	235
FAN	Airflow rate	L / s	3,500	3,500	3,500	3,920	3,920	3,920
FAN	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
FAN	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46
FAN *5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
Compressor	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Compressor	Motor output	kW	5.6	5.6	5.6	7.8	7.8	7.8
Compressor	Case heater	kW	0.035	0.035	0.035	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
External dimension H x W x D		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
Protection devices	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
Protection devices	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)
Net weight		lbs (kg)	611 (277)	611 (277)	611 (277)	633 (287)	633 (287)	633 (287)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
Pipe between unit and distributor	Low pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (460V)
PURY-P YSNU-A1(-BS)




► Specifications

Outdoor Model			PURY-P264YSNU-A1 (-BS)		PURY-P288YSNU-A1 (-BS)		PURY-P312YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	264,000		288,000		312,000	
(Nominal) *1		kW	77.4		84.4		91.4	
	Power input	kW	23.14		26.47		29.80	
(460)	Current input	A	32.2		36.9		41.5	
(Rated)		BTU / h	252,000		276,000		298,000	
		kW	73.9		80.9		87.3	
	Power input	kW	26.01	25.85	29.07	28.99	31.42	31.71
(460)	Current input	A	36.2	36.0	40.5	40.4	43.8	44.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)		23~126°F (-5~52°C)		23~126°F (-5~52°C)	
Heating capacity *2		BTU / h	295,000		323,000		350,000	
(Nominal) *2		kW	86.5		94.7		102.6	
	Power input	kW	24.99		27.65		30.75	
(460)	Current input	A	34.8		38.5		42.8	
(Rated)		BTU / h	280,000		304,000		334,000	
		kW	82.1		89.1		97.9	
	Power input	kW	22.82	22.88	25.30	25.52	28.50	28.10
(460)	Current input	A	31.8	31.9	35.2	35.5	39.7	39.1
Temp. range of heating *3	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)		-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50		P04~P96/2~50	
Sound power level (measured in anechoic room) *4		dB <A>	87.0/87.0		88.5/88.5		87.0/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PURY-P120YNU-A1 (-BS)	PURY-P144YNU-A1 (-BS)	PURY-P144YNU-A1 (-BS)	PURY-P144YNU-A1 (-BS)	PURY-P144YNU-A1 (-BS)	PURY-P168YNU-A1 (-BS)
Minimum Circuit Ampacity		A	25	28	28	28	28	32
Maximum Overcurrent Protection		A	40	45	45	45	45	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	8,300	9,550	9,550	9,550	9,550	14,850
		m^3 / min	235	270	270	270	270	420
		L / s	3,920	4,500	4,500	4,500	4,500	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.46+0.46	0.92+0.92
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.8	9.9	9.9	9.9	9.9	12.2
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	633 (287)	682 (309)	682 (309)	682 (309)	682 (309)	774 (351)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203, 204,205,306S-G,CMY-R302,303, 304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series Standard (460V)
PURY-P YSNU-A1(-BS)



► Specifications

Outdoor Model			PURY-P336YSNU-A1 (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	336,000	
	*1	kW	98.5	
(460)	Power input	kW	33.76	
(460)	Current input	A	47.0	
(Rated)		BTU / h	320,000	
		kW	93.8	
(460)	Power input	kW	33.80	34.53
(460)	Current input	A	47.1	48.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2	BTU / h	378,000	
	*2	kW	110.8	
(460)	Power input	kW	33.66	
(460)	Current input	A	46.9	
(Rated)		BTU / h	360,000	
		kW	105.5	
(460)	Power input	kW	31.30	30.34
(460)	Current input	A	43.6	42.3
Temp. range of heating	*3 Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model / Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room)	*4	dB <A>	84.5/88.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed	

Set Model

Model			PURY-P168YNU-A1 (-BS)	PURY-P168YNU-A1 (-BS)
Minimum Circuit Ampacity		A	32	32
Maximum Overcurrent Protection		A	50	50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850	14,850
		m^3 / min	420	420
		L / s	7,000	7,000
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92+0.92	0.92+0.92
*5	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter
	Motor output	kW	12.2	12.2
	Case heater	kW	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 68-15/16 x 29-3/16
		mm	1,818 x 1,750 x 740	1,818 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight		lbs (kg)	774 (351)	774 (351)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
*4 Cooling mode / Heating mode
*5 External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
* Due to continuing improvement, above specifications may be subject to change without notice.

OUTDOOR UNIT
R2-Series (575V)
PURY-P ZKMU-B(-BS)



► Specifications

Outdoor Model			PURY-P72ZKMU-B (-BS)		PURY-P96ZKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity *1		BTU/h	72,000		96,000	
(Nominal) *1		kW	21.1		28.1	
	Power input	kW	5.11		7.06	
(575)	Current input	A	5.7		7.8	
(Rated)		BTU/h	69,000		92,000	
		kW	20.2		27.0	
	Power input	kW	5.81	5.74	8.05	8.00
(575)	Current input	A	6.4	6.4	8.9	8.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity *2		BTU/h	80,000		108,000	
(Nominal) *2		kW	23.4		31.7	
	Power input	kW	5.89		8.85	
(575)	Current input	A	6.5		9.8	
(Rated)		BTU/h	76,000		103,000	
		kW	22.3		30.2	
	Power input	kW	5.83	5.87	8.34	7.96
(575)	Current input	A	6.5	6.5	9.3	8.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P04~P96/1~18		P04~P96/1~24	
Sound pressure level (measured in anechoic room)		dB <A>	81.0		81.5	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	11		15	
Maximum Overcurrent Protection		A	15		25	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Airflow rate	cfm	6,550		6,550	
		m^3/min	185		185	
		L/s	3,080		3,080	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.92	
*3	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	4.7		6.6	
	Case heater	kW	0.035		0.035	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	65 x 36-1/4 x 29-3/16		65 x 48-1/16 x 29-3/16	
		mm	1,650 x 920 x 740		1,650 x 1,220 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 21 lbs (9.5 kg)		R410A x 22 lbs + 12 oz (10.3 kg)	
Net weight		lbs (kg)	508 (230)		567 (257)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
R2-Series (575V)
PURY-P ZKMU-B(-BS)



► Specifications

Outdoor Model			PURY-P120ZKMU-B (-BS)		PURY-P144ZKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	120,000		144,000	
	*1	kW	35.2		42.2	
(575)	Power input	kW	8.62		11.13	
(575)	Current input	A	9.6		12.4	
(Rated)		BTU/h	115000		138,000	
		kW	33.7		40.4	
(575)	Power input	kW	10.55	10.64	13.90	13.62
(575)	Current input	A	11.7	11.8	15.5	15.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	135,000		160,000	
	*2	kW	39.6		46.9	
(575)	Power input	kW	10.84		12.86	
(575)	Current input	A	12.0		14.3	
(Rated)		BTU/h	129,000		152,000	
		kW	37.8		44.5	
(575)	Power input	kW	10.40	10.25	12.03	11.98
(575)	Current input	A	11.6	11.4	13.4	13.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P04~P96/1~30		P04~P96/1~36	
Sound pressure level (measured in anechoic room)		dB <A>	83.0		83.5	
Refrigerant piping diameter	High pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	21		23	
Maximum Overcurrent Protection		A	30		35	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	11,300		11,300	
		m^3/min	320		320	
		L/s	5,330		5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92		0.92+0.92	
*3	External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.2		9.5	
	Case heater	kW	0.045		0.045	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	65 x 68-15/16 x 29-3/16		65 x 68-15/16 x 29-3/16	
		mm	1,650 x 1,750 x 740		1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight		lbs (kg)	770(349)		770(349)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
R2-Series (575V)
PURY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PURY-P168ZSKMU-B (-BS)		PURY-P192ZSKMU-B (-BS)		PURY-P216ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	168,000		192,000		216,000	
	*1	kW	49.2		56.3		63.3	
	Power input	kW	13.66		15.92		17.74	
(575)	Current input	A	15.2		17.7		19.7	
(Rated)		BTU/h	160,000		184,000		206,000	
		kW	46.9		53.9		60.4	
	Power input	kW	14.46	14.42	17.15	17.11	19.99	19.56
(575)	Current input	A	16.1	16.0	19.1	19.0	22.3	21.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	188,000		215,000		243,000	
	*2	kW	55.1		63.0		71.2	
	Power input	kW	15.42		17.79		20.61	
(575)	Current input	A	17.2		19.8		22.9	
(Rated)		BTU/h	179,000		205,000		232,000	
		kW	52.5		60.1		68.0	
	Power input	kW	14.09	14.58	16.74	16.26	19.55	18.72
(575)	Current input	A	15.7	16.2	18.6	18.1	21.8	20.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P04~P96/1~42		P04~P96/1~48		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	84.5		84.5		85.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PURY-P72ZKMU-B (-BS)	PURY-P96ZKMU-B (-BS)	PURY-P96ZKMU-B (-BS)	PURY-P96ZKMU-B (-BS)	PURY-P96ZKMU-B (-BS)	PURY-P120ZKMU-B (-BS)
Minimum Circuit Ampacity		A	11	15	15	15	15	21
Maximum Overcurrent Protection		A	15	25	25	25	25	30
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2
	Airflow rate	cfm	6,550	6,550	6,550	6,550	6,550	11,300
		m^3/min	185	185	185	185	185	320
		L/s	3,080	3,080	3,080	3,080	3,080	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	0.92	0.92	0.92	0.92	0.92+0.92
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.7	6.6	6.6	6.6	6.6	8.2
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	65 x 36-1/4 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 48-1/16 x 29-3/16	65 x 68-15/16 x 29-3/16
		mm	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 21 lbs (9.5 kg)	R410A x 22 lbs + 12 oz (10.3 kg)	R410A x 22 lbs + 12 oz (10.3 kg)	R410A x 22 lbs + 12 oz (10.3 kg)	R410A x 22 lbs + 12 oz (10.3 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	508 (230)	567 (257)	567 (257)	567 (257)	567 (257)	770(349)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			Outdoor Twinning kit: CMY-R100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
R2-Series (575V)
PURY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PURY-P240ZSKMU-B (-BS)		PURY-P264ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	240,000		264,000	
	*1	kW	70.3		77.4	
(575)	Power input	kW	19.62		22.69	
(575)	Current input	A	21.8		25.3	
(Rated)		BTU/h	230,000		252,000	
		kW	67.4		73.9	
(575)	Power input	kW	23.28	22.32	26.33	25.26
(575)	Current input	A	25.9	24.9	29.3	28.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	270,000		295,000	
	*2	kW	79.1		86.5	
(575)	Power input	kW	23.55		25.94	
(575)	Current input	A	26.2		28.9	
(Rated)		BTU/h	258,000		281,000	
		kW	75.6		82.4	
(575)	Power input	kW	22.14	21.63	24.62	23.65
(575)	Current input	A	24.7	24.1	27.4	26.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	86.0		86.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PURY-P120ZKMU-B (-BS)	PURY-P120ZKMU-B (-BS)	PURY-P120ZKMU-B (-BS)	PURY-P144ZKMU-B (-BS)
Minimum Circuit Ampacity		A	21	21	21	23
Maximum Overcurrent Protection		A	30	30	30	35
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	11,300	11,300	11,300	11,300
		m^3/min	320	320	320	320
		L/s	5,330	5,330	5,330	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	0.92+0.92	0.92+0.92	0.92+0.92
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	8.2	8.2	8.2	9.5
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
		mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Fan motor		-	-	-	-
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	770(349)	770(349)	770(349)	770(349)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

OUTDOOR UNIT
R2-Series (575V)
PURY-P ZSKMU-B(-BS)



► Specifications

Outdoor Model			PURY-P288ZSKMU-B (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	288,000	
	*1	kW	84.4	
(575)	Power input	kW	25.23	
(575)	Current input	A	28.1	
(Rated)		BTU/h	276,000	
		kW	80.9	
(575)	Power input	kW	30.15	28.59
(575)	Current input	A	33.6	31.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	323,000	
	*2	kW	94.7	
(575)	Power input	kW	28.13	
(575)	Current input	A	31.3	
(Rated)		BTU/h	304,000	
		kW	89.1	
(575)	Power input	kW	26.85	25.60
(575)	Current input	A	29.9	28.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	86.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed	

Set Model

Model			PURY-P144ZKMU-B (-BS)	PURY-P144ZKMU-B (-BS)
Minimum Circuit Ampacity		A	23	23
Maximum Overcurrent Protection		A	35	35
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	11,300	11,300
		m^3/min	320	320
		L/s	5,330	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	0.92+0.92
*3	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter
	Motor output	kW	9.5	9.5
	Case heater	kW	0.045	0.045
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in.	65 x 68-15/16 x 29-3/16	65 x 68-15/16 x 29-3/16
		mm	1,650 x 1,750 x 740	1,650 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	
	Fan motor		-	-
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Net weight		lbs (kg)	770(349)	770(349)
Heat exchanger			Salt-resistant cross fin & copper tube	
Optional parts			Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Outdoor
Cooling	80ºF D.B./67ºF W.B. (26.7ºC D.B./19.4ºC W.B.)	95ºF D.B. (35ºC D.B.)
Heating	70ºF D.B. (21.1ºC D.B.)	47ºF D.B./43ºF W.B. (8.3ºC D.B./6.1ºC W.B.)

*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

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

* The data presented is based on a specific combination.

S-Series

Cooling or Heating Heat pump

• Optional parts ····· P.128
• Specifications H2i PUMY-HP NKMU2(-BS) ····· P.129
Standard PUMY-P NKMU4(-BS) ····· P.130



Cooling/heating changeover system with horizontal airflow for small offices and stores

The CITY MULTI S-Series (for small applications) makes use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all ø nes. The compact outdoor unit utiliz s R410A refrigerant and an inverter-driven compressor for effective energy use.
With a wide lineup of indoor units connected to a flexible piping system, the CITY MULTI Series can be configured to suit diverse applications. Thanks to the individual operation of up to 12 units* and a group change function, the CITY MULTI S-Series can flexibly accommodate layout changes in stores and offices.

*For P48/60 and HP42/48 models

• Small offices

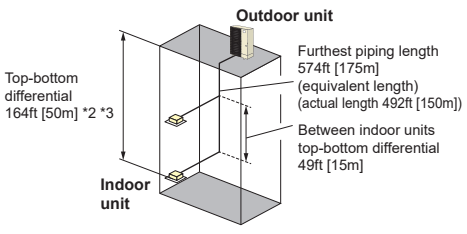


• System Pipe Lengths

[HP36/42/48NKMU2, P36/48NKMU4]

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

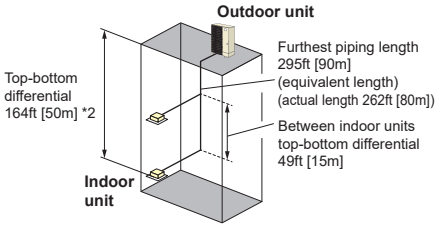
Vertical differentials between units	Maximum feet [Meters]
Indoor/outdoor (outdoor higher)	164 [50]
Indoor/outdoor (outdoor lower)	131 [40] *3
Indoor/indoor	49 [15]



[P60NKMU4]

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

Vertical differentials between units	Maximum feet [Meters]
Indoor/outdoor (outdoor higher)	164 [50]
Indoor/outdoor (outdoor lower)	131 [40]
Indoor/indoor	49 [15]



*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 98ft [30m].
*2 When the outdoor unit is installed below the indoor unit, top-bottom differential is 131ft [40m].
*3 When PKFY-P04/06/08/12NLMU, PFFY-P06/08/12NEMU, or PFFY-P06/08/12NRMU is included, use within 98ft [30m].

Optional parts

• For S-Series

Description	Model	Remarks
Joint	CMY-Y62-G-E	For PUMY-HP NKMU2, PUMY-P NKMU4(-BS)
Header	CMY-Y64-G-E	For PUMY-HP NKMU2, PUMY-P NKMU4(-BS)
	CMY-Y68-G-E	For PUMY-HP NKMU2, PUMY-P NKMU4(-BS)

OUTDOOR UNIT
S-Series H2i
PUMY-HP NKMU2



► Specifications

Service Ref.			PUMY-HP36NKMU2			PUMY-HP42NKMU2			PUMY-HP48NKMU2		
Indoor type			Non-Ducted	Mix	Ducted	Non-Ducted	Mix	Ducted	Non-Ducted	Mix	Ducted
Cooling	Capacity Rated *1	Btu/h	36,000	36,000	36,000	42,000	42,000	42,000	48,000	48,000	48,000
	Rated power consumption *1	W	2,400	2,740	3,190	3,135	3,500	3,965	3,665	4,090	4,615
	Current input(208/230V)	A	11.7/10.6	13.4/12.1	15.6/14.1	15.3/13.8	17.1/15.4	19.4/17.5	17.9/16.2	20.0/18.1	22.5/20.4
	EER2	Btu/h/W	15.00	13.15	11.30	13.40	12.00	10.60	13.10	11.75	10.40
	SEER2	-	23.00	19.30	15.60	21.50	18.85	14.70	23.00	18.85	14.70
Heating	Capacity Rated 47°F *1	Btu/h	42,000	42,000	42,000	48,000	48,000	48,000	54,000	54,000	54,000
	Capacity Max. 17°F *2	Btu/h	42,000	42,000	42,000	48,000	48,000	48,000	54,000	54,000	54,000
	Capacity Max. 5°F	Btu/h	38,500	38,500	38,500	44,000	44,000	44,000	47,000	47,000	47,000
	Rated power consumption 47°F *1	W	3,080	3,330	3,620	3,435	3,805	4,265	3,960	4,400	4,950
	Current input (208/230V)	A	15.0/13.6	16.3/14.7	17.7/16.0	16.8/15.2	18.6/16.8	20.8/18.8	19.3/17.5	21.5/19.4	24.2/21.8
	COP 47°F *1	W/W	4.00	3.70	3.40	4.10	3.70	3.30	4.00	3.60	3.20
	HSPF2 IV/V	-	12.00/10.65	10.95/9.70	9.90/8.80	11.10/9.80	10.10/9.30	9.10/8.80	11.50/9.80	10.15/9.05	8.80/8.30
Power supply			1-phase 208/230 V, 60 Hz								
Breaker Size/Maximum over current protection			40 A/80 A (When power is supplied separately) 45 A/86 A (When power is supplied from the outdoor unit)								
Minimum circuit ampacity			45 A (When power is supplied separately) 51 A (When power is supplied from the outdoor unit)								
Indoor unit connectable	Total capacity		50 to 130% of outdoor unit capacity								
	Model/Quantity *3	CITY MULTI	04 - 36/11			04 - 54/12			04 - 54/12		
Sound pressure level (measured in anechoic room)		dB <A>	49/53			50/54			51/54		
Refrigerant piping diameter	Liquid pipe	inch (mm)	3/8 (ø9.52)								
	Gas pipe	inch (mm)	5/8 (ø15.88)								
Fan	Type × Quantity		Propeller fan × 2								
	Airflow rate	m^3/min	110								
		L/s	1,834								
		cfm	3,885								
	Control, Driving mechanism		DC control								
	Motor output	kW	0.074 × 2								
	External static press.		0								
Compressor	Type × Quantity		Scroll hermetic compressor x 1								
	Manufacture		Mitsubishi Electric Corporation								
	Starting method		Inverter								
	Motor output	kW	2.8			2.9			3.4		
	Case heater	kW	0								
	Lubricant		FV50S 78oz. (2.3L)								
External finish			Galvanized Steel Sheet <Munsell 3Y 7.8/ 1.1>								
External dimension H × W × D		mm	1,338 × 1,050 × 330 (+25)								
		inch	52-11/16 × 41-11/32 × 13 (+1)								
Protection devices	High pressure protection		High pressure switch								
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heat sink thermistor)								
	Compressor protection		Compressor thermo, Overcurrent detection								
	Fan motor protection		Overheating/Voltage protection								
Refrigerant	Type × original charge		R410A 10 lbs. 9 oz. (4.8kg)								
	Control		Linear Expansion Valve								
Net weight		lb (kg)	278 (126)								
Heat exchanger			Cross fin and tube								
HIC circuit (HIC: Heat Inter-Changer)			HIC circuit								
Defrosting method			Reversed refrigerant circuit								
Guaranteed operation range		(Cooling)	D.B 23 to 115°F [D.B.-5 to 46°C] *4*5*6								
		(Heating)	D.B. -13 to 70°F [D.B. -25 to 21°C]								

*1 Rating conditions Cooling Indoor : D.B. 80°F/W.B. 67 °F [D.B.26.7°C/W.B. 19.4°C]
Outdoor : D.B. 95°F [D.B. 35.0°C]
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 47°F/W.B. 43°F [D.B. 8.3°C/W.B. 6.1°C]

*2 Conditions Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 17°F/W.B. 15°F [D.B. -8.3°C/W.B. -9.4°C]

*3 It cannot be connected mixed CITY MULTI indoor unit and branch box indoor unit.

*4 D.B. 5 to 115°F [D.B. -15 to 46°C], when an optional Air Outlet Guide is installed.
However, this condition does not apply to the indoor units listed in *5.

*5 50 to 115°F (10 to 46°C) D.B.: When connecting PKFY-P04/06/08/12NLMU, PFFY-P06/08/12NEMU, and PFFY-P06/08/12NRMU type indoor unit.

*6 When the temperature is below D.B. 50°F [D.B. 10°C] with branch box system, noise could potentially occur.

Note:Refer to the indoor unit's servise manual for the indoor units specifications.

OUTDOOR UNIT
S-Series Standard
PUMY-P NKMU4(-BS)



► Specifications

Service Ref.			PUMY-P36NKMU4			PUMY-P48NKMU4			PUMY-P60NKMU4		
Indoor type			Non-Ducted	Mix	Ducted	Non-Ducted	Mix	Ducted	Non-Ducted	Mix	Ducted
Cooling	Capacity Rated *1	Btu/h	36,000	36,000	36,000	48,000	48,000	48,000	60,000	60,000	60,000
	Rated power consumption *1	W	2,400	2,740	3,190	3,665	4,090	4,615	4,515	5,065	5,770
	Current input(208/230V)	A	11.7/10.6	13.4/12.1	15.6/14.1	17.9/16.2	20.0/18.1	22.5/20.4	21.9/19.8	24.6/22.3	28.0/25.4
	EER2	Btu/h/W	15.00	13.15	11.30	13.10	11.75	10.40	13.30	11.85	10.40
	SEER2	-	23.00	19.30	15.60	23.00	18.85	14.70	20.00	17.75	15.50
Heating	Capacity Rated 47°F *1	Btu/h	41,000	41,000	41,000	50,000	50,000	50,000	66,000	66,000	66,000
	Capacity Max. 17°F *2	Btu/h	36,000	36,000	36,000	43,000	43,000	43,000	65,000	65,000	65,000
	Capacity Max. 5°F	Btu/h	29,000	29,000	29,000	35,400	35,400	35,400	46,500	46,500	46,500
	Rated power consumption 47°F *1	W	3,005	3,250	3,535	3,665	4,075	4,580	4,720	5,175	5,690
	Current input (208/230V)	A	14.7/13.3	15.9/14.3	17.3/15.6	17.9/16.2	19.9/18.0	22.4/20.2	22.9/20.7	25.2/22.8	27.7/25.0
	COP 47°F *1	W/W	4.00	3.70	3.40	4.00	3.60	3.20	4.10	3.74	3.40
	HSPF2 IV/V	-	11.00/8.75	9.80/8.05	8.60/7.40	10.40/8.35	9.35/7.90	8.30/7.50	10.50/8.65	9.55/8.05	8.60/7.45
Power supply			1-phase 208/230 V, 60 Hz								
Breaker Size/Maximum over current protection			30 A/64 A (When power is supplied separately) 40 A/70 A (When power is supplied from the outdoor unit)						40 A/80 A (When power is supplied separately) 50 A/90 A (When power is supplied from the outdoor unit)		
Minimum circuit ampacity			36 A (When power is supplied separately) 42 A (When power is supplied from the outdoor unit)						45 A (When power is supplied separately) 55 A (When power is supplied from the outdoor unit)		
Indoor unit connectable	Total capacity		50 to 130% of outdoor unit capacity								
	Model/Quantity *3	CITY MULTI	04 - 36/11			04 - 54/12			04 - 72 /12		
Sound pressure level (measured in anechoic room)		dB <A>	49/53			51/54			58/59		
Refrigerant piping diameter	Liquid pipe	inch (mm)	3/8 (ø9.52)								
	Gas pipe	inch (mm)	5/8 (ø15.88)						3/4 (ø19.05)		
Fan	Type × Quantity		Propeller fan × 2								
	Airflow rate	m³/min	110						138		
		L/s	1,834						2,300		
		cfm	3,885						4,879		
	Control, Driving mechanism		DC control								
	Motor output	kW	0.074 × 2						0.200 × 2		
	External static press.		0								
Compressor	Type × Quantity		Scroll hermetic compressor x 1								
	Manufacture		Mitsubishi Electric Corporation								
	Starting method		Inverter								
	Motor output	kW	2.8			3.4			3.9		
	Case heater	kW	0								
	Lubricant		FV50S 78oz. (2.3L)						FVC68D 78oz. (2.3L)		
External finish			Galvanized Steel Sheet <Munsell 3Y 7.8/ 1.1>								
External dimension H × W × D		mm	1,338 × 1,050 × 330 (+25)								
		inch	52-11/16 × 41-11/32 × 13 (+1)								
Protection devices	High pressure protection		High pressure switch								
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heat sink thermistor)								
	Compressor protection		Compressor thermo, Overcurrent detection								
	Fan motor protection		Overheating/Voltage protection								
Refrigerant	Type × original charge		R410A 10 lbs. 9 oz. (4.8kg)						R410A 11 lbs. 4 oz. (5.1kg)		
	Control		Linear Expansion Valve								
Net weight		lb (kg)	271 (123)						300 (136)		
Heat exchanger			Cross fin and tube								
HIC circuit (HIC: Heat Inter-Changer)			HIC circuit								
Defrosting method			Reversed refrigerant circuit								
Guaranteed operation range		(Cooling)	D.B 23 to 115°F [D.B.-5 to 46°C] *4*5*6								
		(Heating)	D.B. -13 to 70°F [D.B. -25 to 21°C]								

*1 Rating conditions Cooling Indoor : D.B. 80°F/W.B. 67 °F [D.B.26.7°C/W.B. 19.4°C]
Outdoor : D.B. 95°F [D.B. 35.0°C]
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 47°F/W.B. 43°F [D.B. 8.3°C/W.B. 6.1°C]

*2 Conditions Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 17°F/W.B. 15°F [D.B. -8.3°C/W.B. -9.4°C]

*3 It cannot be connected mixed CITY MULTI indoor unit and branch box indoor unit.

*4 D.B. 5 to 115°F [D.B. -15 to 46°C], when an optional Air Outlet Guide is installed.
However, this condition does not apply to the indoor units listed in *5.

*5 50 to 115°F (10 to 46°C) D.B.: When connecting PKFY-P04/06/08/12NLMU, PFFY-P06/08/12NEMU, and PFFY-P06/08/12NRMU type indoor unit.

*6 When the temperature is below D.B. 50°F [D.B. 10°C] with branch box system, noise could potentially occur.

Note:Refer to the indoor unit's servise manual for the indoor units specifications.

WY-Series

Cooling or Heating Heat pump

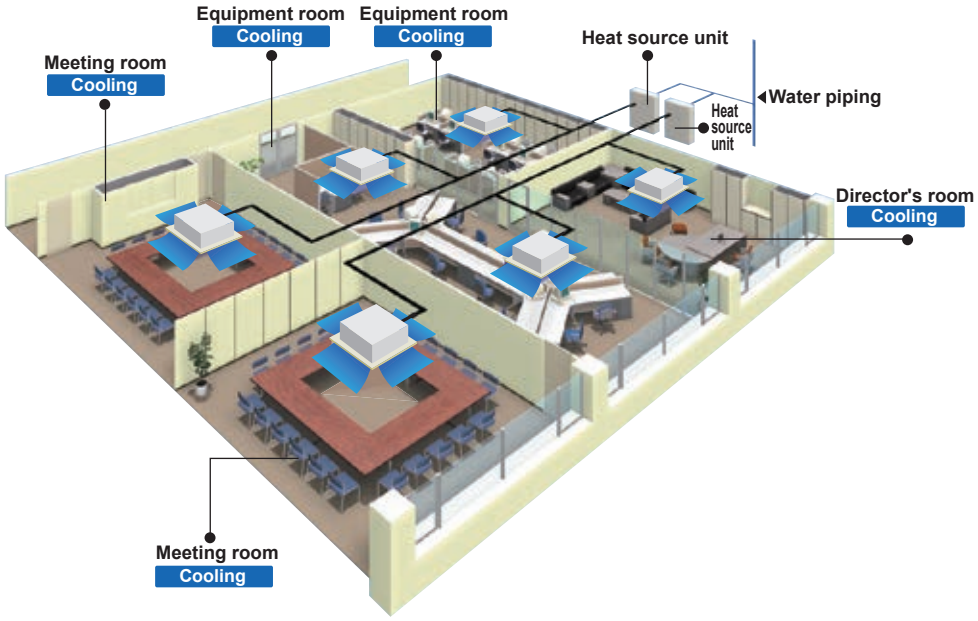
- Optional parts ····· P.132
- Specifications 208-230V, 460V **PQHY-P T(S)LMU-A2/Y(S)LMU-A2** ··· P.133 - P.146
  575V **PQHY-P Z(S)LMU-B** ····· P.147 - P.152



A water energy source system that allows switching between cooling and heating

The CITY MULTI WY-Series provides all the benefits of the Y-Series using water-cooled heat source units. Heat source units can be situated indoors for greater design flexibility with no limitations on building size. Depending on capacity, up to 15 to 50 indoor units can be connected to a single heat source unit with individualized and/or centralized control. The two-pipe system allows all CITY MULTI units to switch between cooling and heating while maintaining a constant indoor temperature.

• Installation image (WY-Series)

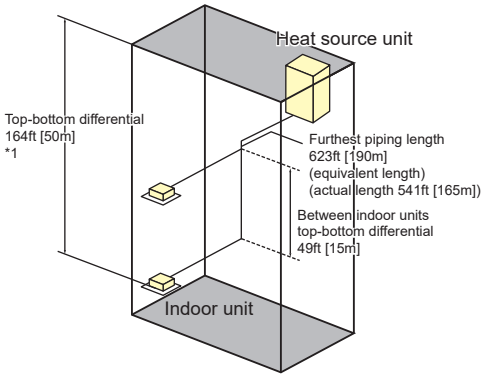


• System Pipe Lengths

[P72-P360 (WY-Series)]

Refrigerant Piping Lengths	Maximum feet [Meters]
Total length	984-1,640 [300-500]
Maximum allowable length	541(623equivalent) [165 (190)]
Farthest indoor from first branch	131 [40]*2

Vertical differentials between units	Maximum feet [Meters]
Indoor/heat source (heat source higher)	164 [50]
Indoor/heat source (heat source lower)	131 [40]
Indoor/indoor	49 [15]



*1 When the heat source unit is installed below the indoor unit, top-bottom differential is 131ft [40m].

*2 295ft [90m] is available. When the piping length exceeds 131ft [40m], use one size larger liquid pipe starting with the section of piping where 131ft [40m] is exceeded and all piping after that point.

Optional parts

• For WY-Series

Description	Model	Remarks
Branch pipe (Joint)	CMY-Y102SS-G2	72 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	73−144 (Total capacity of indoor unit)
	CMY-Y202S-G2	The 1st branch of P96−P120 TLMU/YLMU/ZLMU
		145−240 (Total capacity of indoor unit)
		The 1st branch of P144−P192ZLMU, P144−P240TSLMU/YSLMU/ZSLMU
	CMY-Y302S-G2	241 or above (Total capacity of indoor unit)
		The 1st branch of P288−P360TSLMU/YSLMU/ZSLMU
Branch pipe (Header)	CMY-Y104C-G	For 4 branches
	CMY-Y108C-G	For 8 branches
	CMY-Y1010C-G	For 10 branches
Twinning kit	CMY-Y100CBK3	For PQHY-P144−P240TSLMU/YSLMU/ZSLMU
	CMY-Y200CBK2	For PQHY-P288−P360TSLMU/YSLMU/ZSLMU

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TLMU-A2



► Specifications

Heat Source Model			PQHY-P72TLMU-A2		PQHY-P96TLMU-A2		PQHY-P120TLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	72,000		96,000		120,000	
(Nominal) *1		kW	21.1		28.1		35.2	
	Power input	kW	3.61		5.21		7.51	
(208-230)	Current input	A	11.1-10.0		16.0-14.5		23.1-20.9	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	3.60	3.59	5.22	5.45	7.38	7.77
(208-230)	Current input	A	11.1-10.0	11.0-10.0	16.0-14.5	16.8-15.2	22.7-20.5	23.9-21.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	80,000		108,000		135,000	
(Nominal) *2		kW	23.4		31.7		39.6	
	Power input	kW	4.04		5.64		7.09	
(208-230)	Current input	A	12.4-11.2		17.3-15.7		21.8-19.7	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	3.78	3.36	4.49	4.48	5.78	5.89
(208-230)	Current input	A	11.6-10.5	10.3-9.3	13.8-12.5	13.8-12.4	17.8-16.1	18.1-16.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60.5		65.0		71.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)	
	Gas pipe	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	17-16		25-22		35-32	
Maximum Overcurrent Protection		A	30-25		45-35		60-50	
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m^3 / h	5.45		5.76		5.76	
		L / min	91		96		96	
		cfm	3.2		3.4		3.4	
	Pressure drop	psi	3.48		3.48		3.48	
		kPa	24		24		24	
	Operating volume range	G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		m^3 / h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7	
	Case heater	kW	0.035		0.035		0.035	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight		lbs (kg)	371 (168)		371 (168)		371 (168)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TLMU-A2



► Specifications

Model			PQHY-P144TLMU-A2		PQHY-P168TLMU-A2		PQHY-P192TLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	144,000		168,000		192,000	
(Nominal)	*1	kW	42.2		49.2		56.3	
	Power input	kW	8.78		12.05		15.05	
(208-230)	Current input	A	27.0-24.4		37.1-33.6		46.4-41.9	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	9.44	10.12	11.98	12.47	15.17	15.00
(208-230)	Current input	A	29.1-26.3	31.2-28.2	36.9-33.4	38.4-34.7	46.7-42.3	46.2-41.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	160,000		188,000		215,000	
(Nominal)	*2	kW	46.9		55.1		63.0	
	Power input	kW	8.11		9.86		11.90	
(208-230)	Current input	A	25.0-22.6		30.4-27.5		36.7-33.1	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	7.29	7.92	8.86	9.66	10.78	11.53
(208-230)	Current input	A	22.4-20.3	24.4-22.0	27.3-24.7	29.7-26.9	33.2-30.0	35.5-32.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		70.0		72.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	40-40		50-48		66-63	
Maximum Overcurrent Protection		A	70-70		90-80		110-110	
Inlet water	Water flow rate	G / h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m^3 / h	7.20		7.20		7.20	
		L / min	120		120		120	
		cfm	4.2		4.2		4.2	
	Pressure drop	psi	6.38		6.38		6.38	
		kPa	44		44		44	
	Operating volume range	G / h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
		G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
		m^3 / h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	9.5		11.0		12.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 x 880 x 550		1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight		lbs (kg)	470 (213)		470 (213)		470 (213)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TLMU-A2



► Specifications

Heat Source Model			PQHY-P216TLMU-A2		PQHY-P240TLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	216,000		224,000	
(Nominal) *1		kW	63.3		65.7	
	Power input	kW	19.23		21.14	
(208-230)	Current input	A	59.3-53.6		65.1-58.9	
(Rated)		BTU / h	206,000		214,000	
		kW	60.4		62.7	
	Power input	kW	18.12	17.22	18.67	18.61
(208-230)	Current input	A	55.8-50.5	53.1-48.0	57.5-52.0	57.3-51.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	243,000		270,000	
(Nominal) *2		kW	71.2		79.1	
	Power input	kW	13.04		15.12	
(208-230)	Current input	A	40.2-36.3		46.6-42.1	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.78	12.07	13.75	14.48
(208-230)	Current input	A	36.3-32.8	37.2-33.6	42.4-38.3	44.6-40.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	72.5		73.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	78-78		79-78	
Maximum Overcurrent Protection		A	125-125		125-125	
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m^3 / h	11.52		11.52	
		L / min	192		192	
		cfm	6.8		6.8	
	Pressure drop	psi	6.53		6.53	
		kPa	45		45	
	Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804	
		G / min	26.4 ~ 63.4		26.4 ~ 63.4	
		m^3 / h	6.0 ~ 14.4		6.0 ~ 14.4	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	14.5		16.1	
	Case heater	kW	0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight		lbs (kg)	538 (244)		538 (244)	
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TSLMU-A2



► Specifications

Heat Source Model			PQHY-P144TSLMU-A2		PQHY-P168TSLMU-A2		PQHY-P192TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	144,000		168,000		192,000	
(Nominal)	*1	kW	42.2		49.2		56.3	
	Power input	kW	7.11		9.33		11.30	
(208-230)	Current input	A	21.9-19.8		28.7-26.0		34.8-31.5	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	7.13	8.17	8.87	9.66	10.57	11.54
(208-230)	Current input	A	21.9-19.8	25.1-22.7	27.3-24.7	29.7-26.9	32.5-29.4	35.5-32.1
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	160,000		188,000		215,000	
(Nominal)	*2	kW	46.9		55.1		63.0	
	Power input	kW	7.45		9.34		11.02	
(208-230)	Current input	A	22.9-20.7		28.8-26.0		33.9-30.7	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	6.50	7.29	8.05	8.04	9.53	8.82
(208-230)	Current input	A	20.0-18.1	22.4-20.3	24.8-22.4	24.7-22.4	29.3-26.5	27.2-24.6
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
connectable	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5		68.0	
Refrigerant	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
piping diameter	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQHY-P72TLMU-A2	PQHY-P72TLMU-A2	PQHY-P96TLMU-A2	PQHY-P72TLMU-A2	PQHY-P96TLMU-A2	PQHY-P96TLMU-A2
Minimum Circuit Ampacity		A	17-16	17-16	25-22	17-16	25-22	25-22
Maximum Overcurrent Protection		A	30-25	30-25	45-35	30-25	45-35	45-35
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
		kPa	24	24	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	6.0	4.3	6.0	6.0
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	371 (168)	371 (168)	371 (168)	371 (168)	371 (168)	371 (168)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TSLMU-A2



► Specifications

Heat Source Model			PQHY-P216TSLMU-A2		PQHY-P240TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	216,000		240,000	
(Nominal)	*1	kW	63.3		70.3	
	Power input	kW	14.03		16.89	
(208-230)	Current input	A	43.2-39.1		52.0-47.1	
(Rated)		BTU / h	206,000		230,000	
		kW	60.4		67.4	
	Power input	kW	13.09	13.88	15.73	16.79
(208-230)	Current input	A	40.3-36.5	42.8-38.7	48.5-43.8	51.7-46.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	243,000		270,000	
(Nominal)	*2	kW	71.2		79.1	
	Power input	kW	12.88		14.58	
(208-230)	Current input	A	39.7-35.9		44.9-40.6	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.11	10.04	12.83	11.67
(208-230)	Current input	A	34.2-30.9	30.9-28.0	39.5-35.7	35.9-32.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	72.0		74.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQHY-P120TLMU-A2	PQHY-P96TLMU-A2	PQHY-P120TLMU-A2	PQHY-P120TLMU-A2
Minimum Circuit Ampacity		A	35-32	25-22	35-32	35-32
Maximum Overcurrent Protection		A	60-50	45-35	60-50	60-50
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	6.0	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	371 (168)	371 (168)	371 (168)	371 (168)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TSLMU-A2



► Specifications

Heat Source Model			PQHY-P288TSLMU-A2		PQHY-P312TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	288,000		312,000	
(Nominal)	*1	kW	84.4		91.4	
	Power input	kW	20.42		23.41	
(208-230)	Current input	A	62.9-56.9		72.1-65.2	
(Rated)		BTU / h	276,000		298,000	
		kW	80.9		87.3	
	Power input	kW	20.11	22.67	22.45	24.98
(208-230)	Current input	A	62.0-56.0	69.9-63.2	69.2-62.6	77.0-69.6
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	323,000		350,000	
(Nominal)	*2	kW	94.7		102.6	
	Power input	kW	17.50		19.11	
(208-230)	Current input	A	53.9-48.8		58.9-53.3	
(Rated)		BTU / h	304,000		334,000	
		kW	89.1		97.9	
	Power input	kW	15.48	15.36	17.09	17.12
(208-230)	Current input	A	47.7-43.1	47.3-42.8	52.7-47.6	52.8-47.7
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
connectable	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	71.0		72.5	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
piping diameter	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PQHY-P144TLMU-A2	PQHY-P144TLMU-A2	PQHY-P168TLMU-A2	PQHY-P144TLMU-A2
Minimum Circuit Ampacity		A	40-40	40-40	50-48	40-40
Maximum Overcurrent Protection		A	70-70	70-70	90-80	70-70
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7	
		m^3 / h	7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3 / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	9.5
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	470 (213)	470 (213)	470 (213)	470 (213)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
distributor	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (208-230V)
PQHY-P TSLMU-A2



► Specifications

Heat Source Model			PQHY-P336TSLMU-A2		PQHY-P360TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	336,000		360,000	
(Nominal)	*1	kW	98.5		105.5	
	Power input	kW	26.84		29.43	
(208-230)	Current input	A	82.7-74.8		90.7-82.0	
(Rated)		BTU / h	320,000		344,000	
		kW	93.8		100.8	
	Power input	kW	25.14	27.11	27.28	28.91
(208-230)	Current input	A	77.5-70.1	83.6-75.6	84.1-76.0	89.1-80.6
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	378,000		405,000	
(Nominal)	*2	kW	110.8		118.7	
	Power input	kW	20.77		22.85	
(208-230)	Current input	A	64.0-57.9		70.4-63.7	
(Rated)		BTU / h	360,000		386,000	
		kW	105.5		113.1	
	Power input	kW	18.49	19.10	20.56	20.71
(208-230)	Current input	A	57.0-51.5	58.9-53.2	63.4-57.3	63.8-57.7
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
connectable	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	73.0		74.5	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
piping diameter	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PQHY-P168TLMU-A2	PQHY-P168TLMU-A2	PQHY-P192TLMU-A2	PQHY-P168TLMU-A2
Minimum Circuit Ampacity		A	50-48	50-48	66-63	50-48
Maximum Overcurrent Protection		A	90-80	90-80	110-110	90-80
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7	
		m^3 / h	7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3 / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	11.0	11.0	12.4	11.0
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	470 (213)	470 (213)	470 (213)	470 (213)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and	Liquid pipe	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
distributor	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YLMU-A2



► Specifications

Heat Source Model			PQHY-P72YLMU-A2		PQHY-P96YLMU-A2		PQHY-P120YLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	72,000		96,000		120,000	
(Nominal)	*1	kW	21.1		28.1		35.2	
	Power input	kW	3.61		5.21		7.51	
(460)	Current input	A	5.0		7.2		10.4	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	3.60	3.59	5.22	5.45	7.38	7.77
(460)	Current input	A	5.0	5.0	7.2	7.6	10.2	10.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	80,000		108,000		135,000	
(Nominal)	*2	kW	23.4		31.7		39.6	
	Power input	kW	4.04		5.64		7.09	
(460)	Current input	A	5.6		7.8		9.8	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	3.78	3.36	4.49	4.48	5.78	5.89
(460)	Current input	A	5.2	4.6	6.2	6.2	8.0	8.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60.5		65.0		71.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)	
	Gas pipe	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	8		11		16	
Maximum Overcurrent Protection		A	15		15		25	
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m^3 / h	5.45		5.76		5.76	
		L / min	91		96		96	
		cfm	3.2		3.4		3.4	
	Pressure drop	psi	3.48		3.48		3.48	
		kPa	24		24		24	
	Operating volume range	G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		m^3 / h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7	
	Case heater	kW	0.035		0.035		0.035	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight		lbs (kg)	400 (181)		400 (181)		400 (181)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)

*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YLMU-A2



► Specifications

Model			PQHY-P144YLMU-A2		PQHY-P168YLMU-A2		PQHY-P192YLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	144,000		168,000		192,000	
(Nominal) *1		kW	42.2		49.2		56.3	
	Power input	kW	8.78		12.05		15.05	
(460)	Current input	A	12.2		16.8		20.9	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	9.44	10.12	11.98	12.47	15.17	15.00
(460)	Current input	A	13.1	14.1	16.7	17.3	21.1	20.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	160,000		188,000		215,000	
(Nominal) *2		kW	46.9		55.1		63.0	
	Power input	kW	8.11		9.86		11.90	
(460)	Current input	A	11.3		13.7		16.5	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	7.29	7.92	8.86	9.66	10.78	11.53
(460)	Current input	A	10.1	11.0	12.3	13.4	15.0	16.0
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		70.0		58.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	19		26		27	
Maximum Overcurrent Protection		A	30		45		45	
Inlet water	Water flow rate	G / h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m^3 / h	7.20		7.20		7.20	
		L / min	120		120		120	
		cfm	4.2		4.2		4.2	
	Pressure drop	psi	6.38		6.38		6.38	
		kPa	44		44		44	
	Operating volume range	G / h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
		G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
		m^3 / h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	9.5		11.0		12.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 x 880 x 550		1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight		lbs (kg)	497 (225)		497 (225)		497 (225)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YLMU-A2



► Specifications

Heat Source Model			PQHY-P216YLMU-A2		PQHY-P240YLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	216,000		224,000	
	*1	kW	63.3		65.7	
	Power input	kW	19.23		21.14	
(460)	Current input	A	26.8		29.4	
(Rated)		BTU / h	206,000		214,000	
		kW	60.4		62.7	
	Power input	kW	18.12	17.22	18.67	18.61
(460)	Current input	A	25.2	24.0	26.0	25.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU / h	243,000		270,000	
	*2	kW	71.2		79.1	
	Power input	kW	13.04		15.12	
(460)	Current input	A	18.1		21.0	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.78	12.07	13.75	14.48
(460)	Current input	A	16.4	16.8	19.1	20.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	72.5		73.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	37		40	
Maximum Overcurrent Protection		A	60		70	
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m^3 / h	11.52		11.52	
		L / min	192		192	
		cfm	6.8		6.8	
	Pressure drop	psi	6.53		6.53	
		kPa	45		45	
	Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804	
		G / min	26.4 ~ 63.4		26.4 ~ 63.4	
		m^3 / h	6.0 ~ 14.4		6.0 ~ 14.4	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	14.5		16.1	
	Case heater	kW	0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight		lbs (kg)	554 (251)		554 (251)	
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YSLMU-A2



► Specifications

Heat Source Model			PQHY-P144YSLMU-2		PQHY-P168YSLMU-A2		PQHY-P192YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	144,000		168,000		192,000	
(Nominal) *1		kW	42.2		49.2		56.3	
	Power input	kW	7.11		9.33		11.30	
(460)	Current input	A	9.9		13.0		15.7	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	7.13	8.17	8.87	9.66	10.57	11.54
(460)	Current input	A	9.9	11.3	12.3	13.4	14.7	16.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	160,000		188,000		215,000	
(Nominal) *2		kW	46.9		55.1		63.0	
	Power input	kW	7.45		9.34		11.02	
(460)	Current input	A	10.3		13.0		15.3	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	6.50	7.29	8.05	8.04	9.53	8.82
(460)	Current input	A	9.0	10.1	11.2	11.2	13.2	12.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5		68.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQHY-P72YLMU-A2	PQHY-P72YLMU-A2	PQHY-P96YLMU-A2	PQHY-P72YLMU-A2	PQHY-P96YLMU-A2	PQHY-P96YLMU-A2
Minimum Circuit Ampacity		A	8	8	11	8	11	11
Maximum Overcurrent Protection		A	15	15	15	15	15	15
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
		kPa	24	24	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	6.0	4.3	6.0	6.0
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YSLMU-A2



► Specifications

Heat Source Model			PQHY-P216YSLMU-A2		PQHY-P240YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	216,000		240,000	
(Nominal)	*1	kW	63.3		70.3	
	Power input	kW	14.03		16.89	
(460)	Current input	A	19.5		23.5	
(Rated)		BTU / h	206,000		230,000	
		kW	60.4		67.4	
	Power input	kW	13.09	13.88	15.73	16.79
(460)	Current input	A	18.2	19.3	21.9	23.4
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	243,000		270,000	
(Nominal)	*2	kW	71.2		79.1	
	Power input	kW	12.88		14.58	
(460)	Current input	A	17.9		20.3	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.11	10.04	12.83	11.67
(460)	Current input	A	15.4	14.0	17.8	16.2
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
connectable	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	72.0		74.0	
Refrigerant	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
piping diameter	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQHY-P120YLMU-A2	PQHY-P96YLMU-A2	PQHY-P120YLMU-A2	PQHY-P120YLMU-A2
Minimum Circuit Ampacity		A	16	11	16	16
Maximum Overcurrent Protection		A	25	15	25	25
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	6.0	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	400 (181)	400 (181)	400 (181)	400 (181)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
distributor	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YSLMU-A2



► Specifications

Heat Source Model			PQHY-P288YSLMU-A2		PQHY-P312YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	288,000		312,000	
(Nominal)	*1	kW	84.4		91.4	
	Power input	kW	20.42		23.41	
(460)	Current input	A	28.4		32.6	
(Rated)		BTU / h	276,000		298,000	
		kW	80.9		87.3	
	Power input	kW	20.11	22.67	22.45	24.98
(460)	Current input	A	28.0	31.6	31.3	34.8
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	323,000		350,000	
(Nominal)	*2	kW	94.7		102.6	
	Power input	kW	17.50		19.11	
(460)	Current input	A	24.4		26.6	
(Rated)		BTU / h	304,000		334,000	
		kW	89.1		97.9	
	Power input	kW	15.48	15.36	17.09	17.12
(460)	Current input	A	21.5	21.4	23.8	23.8
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
connectable	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	71.0		72.5	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
piping diameter	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PQHY-P144YLMU-A2	PQHY-P144YLMU-A2	PQHY-P168YLMU-A2	PQHY-P144YLMU-A2
Minimum Circuit Ampacity		A	19	19	26	19
Maximum Overcurrent Protection		A	30	30	45	30
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7	
		m^3 / h	7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3 / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	9.5
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	497 (225)	497 (225)	497 (225)	497 (225)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
distributor	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (460V)
PQHY-P YSLMU-A2



► Specifications

Heat Source Model			PQHY-P336YSLMU-A2		PQHY-P360YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	336,000		360,000	
(Nominal)	*1	kW	98.5		105.5	
	Power input	kW	26.84		29.43	
(460)	Current input	A	37.4		41.0	
(Rated)		BTU / h	320,000		344,000	
		kW	93.8		100.8	
	Power input	kW	25.14	27.11	27.28	28.91
(460)	Current input	A	35.0	37.8	38.0	40.3
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	378,000		405,000	
(Nominal)	*2	kW	110.8		118.7	
	Power input	kW	20.77		22.85	
(460)	Current input	A	28.9		31.8	
(Rated)		BTU / h	360,000		386,000	
		kW	105.5		113.1	
	Power input	kW	18.49	19.10	20.56	20.71
(460)	Current input	A	25.7	26.6	28.6	28.8
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
connectable	Model / Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	73.0		74.5	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
piping diameter	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PQHY-P168YLMU-A2	PQHY-P168YLMU-A2	PQHY-P192YLMU-A2	PQHY-P168YLMU-A2
Minimum Circuit Ampacity		A	26	26	27	26
Maximum Overcurrent Protection		A	45	45	45	45
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7	
		m^3 / h	7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3 / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	11.0	11.0	12.4	11.0
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	497 (225)	497 (225)	497 (225)	497 (225)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and	Liquid pipe	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
distributor	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (575V)
PQHY-P ZLMU-B



► Specifications

Heat Source Model			PQHY-P72ZLMU-B		PQHY-P96ZLMU-B		PQHY-P120ZLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	72,000		96,000		120,000	
	*1	kW	21.1		28.1		35.2	
	Power input	kW	3.61		5.21		7.51	
(575)	Current input	A	4.0		5.8		8.3	
(Rated)		BTU/h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	3.60	3.59	5.22	5.45	7.38	7.77
(575)	Current input	A	4.0	4.0	5.8	6.0	8.2	8.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	80,000		108,000		135,000	
	*2	kW	23.4		31.7		39.6	
	Power input	kW	4.04		5.64		7.09	
(575)	Current input	A	4.5		6.2		7.9	
(Rated)		BTU/h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	3.78	3.36	4.49	4.48	5.78	5.89
(575)	Current input	A	4.2	3.7	5.0	4.9	6.4	6.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity		P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60.5		65.0		71.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)	
	Gas pipe	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	6		9		13	
Maximum Overcurrent Protection		A	15		15		20	
Inlet water	Water flow rate	G/h	1,440		1,522		1,522	
		G/min	24		25.4		25.4	
		m^3/h	5.45		5.76		5.76	
		L/min	91		96		96	
		cfm	3.2		3.4		3.4	
	Pressure drop	psi	3.48		3.48		3.48	
		kPa	24		24		24	
	Operating volume range	G/h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G/min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		m^3/h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7	
	Case heater	kW	0.035		0.035		0.035	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight		lbs (kg)	400 (181)		400 (181)		400 (181)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (575V)
PQHY-P ZLMU-B



► Specifications

Heat Source Model			PQHY-P144ZLMU-B		PQHY-P168ZLMU-B		PQHY-P192ZLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	144,000		168,000		192,000	
	*1	kW	42.2		49.2		56.3	
(575)	Power input	kW	8.78		12.05		15.05	
(575)	Current input	A	9.7		13.4		16.7	
(Rated)		BTU/h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
(575)	Power input	kW	9.44	10.12	11.98	12.47	15.17	15.00
(575)	Current input	A	10.5	11.2	13.3	13.9	16.9	16.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	160,000		188,000		215,000	
	*2	kW	46.9		55.1		63.0	
(575)	Power input	kW	8.11		9.86		11.90	
(575)	Current input	A	9.0		11.0		13.2	
(Rated)		BTU/h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
(575)	Power input	kW	7.29	7.92	8.86	9.66	10.78	11.53
(575)	Current input	A	8.1	8.8	9.8	10.7	12.0	12.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		70.0		72.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	15		21		26	
Maximum Overcurrent Protection		A	25		35		45	
Inlet water	Water flow rate	G/h	1,902		1,902		1,902	
		G/min	31.7		31.7		31.7	
		m^3/h	7.20		7.20		7.20	
		L/min	120		120		120	
		cfm	4.2		4.2		4.2	
	Pressure drop	psi	6.38		6.38		6.38	
		kPa	44		44		44	
	Operating volume range	G/h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
		G/min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
		m^3/h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	9.5		11.0		12.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 x 880 x 550		1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight		lbs (kg)	499 (226)		499 (226)		499 (226)	
Heat exchanger			plate type		plate type		plate type	
	Water volume in plate	G	1.22		1.22		1.22	
		l	4.6		4.6		4.6	
	Water pressure Max.	psi	290		290		290	
		MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (575V)
PQHY-P ZSLMU-B



► Specifications

Heat Source Model			PQHY-P144ZSLMU-B		PQHY-P168ZSLMU-B		PQHY-P192ZSLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	144,000		168,000		192,000	
	*1	kW	42.2		49.2		56.3	
(575)	Power input	kW	7.11		9.33		11.30	
(575)	Current input	A	7.9		10.4		12.6	
(Rated)		BTU/h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
(575)	Power input	kW	7.13	8.17	8.87	9.66	10.57	11.54
(575)	Current input	A	7.9	9.1	9.8	10.7	11.7	12.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	160,000		188,000		215,000	
	*2	kW	46.9		55.1		63.0	
(575)	Power input	kW	7.45		9.34		11.02	
(575)	Current input	A	8.3		10.4		12.2	
(Rated)		BTU/h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
(575)	Power input	kW	6.50	7.29	8.05	8.04	9.53	8.82
(575)	Current input	A	7.2	8.1	8.9	8.9	10.6	9.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5		68.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQHY-P72ZLMU-B	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P96ZLMU-B
Minimum Circuit Ampacity		A	6	6	9	6	9	9
Maximum Overcurrent Protection		A	15	15	15	15	15	15
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G/min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m^3/h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
		kPa	24	24	24	24	24	24
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G/min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3/h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	6.0	4.3	6.0	6.0
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290	290	290
		MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (575V)
PQHY-P ZSLMU-B



► Specifications

Heat Source Model			PQHY-P216ZSLMU-B		PQHY-P240ZSLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	216,000		240,000	
	*1	kW	63.3		70.3	
	Power input	kW	14.03		16.89	
(575)	Current input	A	15.6		18.8	
(Rated)		BTU/h	206,000		230,000	
		kW	60.4		67.4	
	Power input	kW	13.09	13.88	15.73	16.79
(575)	Current input	A	14.6	15.4	17.5	18.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	243,000		270,000	
	*2	kW	71.2		79.1	
	Power input	kW	12.88		14.58	
(575)	Current input	A	14.3		16.2	
(Rated)		BTU/h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.11	10.04	12.83	11.67
(575)	Current input	A	12.3	11.2	14.3	13.0
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	72.0		74.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQHY-P120ZLMU-B	PQHY-P96ZLMU-B	PQHY-P120ZLMU-B	PQHY-P120ZLMU-B
Minimum Circuit Ampacity		A	13	9	13	13
Maximum Overcurrent Protection		A	20	15	20	20
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522	
		G/min	25.4 + 25.4		25.4 + 25.4	
		m^3/h	5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G/min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3/h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	6.0	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	400 (181)	400 (181)	400 (181)	400 (181)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (575V)
PQHY-P ZSLMU-B



► Specifications

Heat Source Model			PQHY-P288ZSLMU-B		PQHY-P312ZSLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	288,000		312,000	
	*1	kW	84.4		91.4	
	Power input	kW	20.42		23.41	
(575)	Current input	A	22.7		26.1	
(Rated)		BTU/h	276,000		298,000	
		kW	80.9		87.3	
	Power input	kW	20.11	22.67	22.45	24.98
(575)	Current input	A	22.4	25.2	25.0	27.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	323,000		350,000	
	*2	kW	94.7		102.6	
	Power input	kW	17.50		19.11	
(575)	Current input	A	19.5		21.3	
(Rated)		BTU/h	304,000		334,000	
		kW	89.1		97.9	
	Power input	kW	15.48	15.36	17.09	17.12
(575)	Current input	A	17.2	17.1	19.0	19.0
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)		dB <A>	71.0		72.5	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PQHY-P144ZLMU-B	PQHY-P144ZLMU-B	PQHY-P168ZLMU-B	PQHY-P144ZLMU-B
Minimum Circuit Ampacity		A	15	15	21	15
Maximum Overcurrent Protection		A	25	25	35	25
Inlet water	Water flow rate	G/h	1,902 + 1,902		1,902 + 1,902	
		G/min	31.7 + 31.7		31.7 + 31.7	
		m^3/h	7.20 + 7.20		7.20 + 7.20	
		L/min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G/min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3/h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	9.5
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	499 (226)	499 (226)	499 (226)	499 (226)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290
		MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WY-Series (575V)
PQHY-P ZSLMU-B



► Specifications

Heat Source Model				PQHY-P336ZSLMU-B		PQHY-P360ZSLMU-B	
Indoor Model				Non-Ducted	Ducted	Non-Ducted	Ducted
Power source				3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity		*1	BTU/h	336,000		360,000	
(Nominal)		*1	kW	98.5		105.5	
	Power input		kW	26.84		29.43	
(575)	Current input		A	29.9		32.8	
(Rated)			BTU/h	320,000		344,000	
			kW	93.8		100.8	
	Power input		kW	25.14	27.11	27.28	28.91
(575)	Current input		A	28.0	30.2	30.4	32.2
Temp. range of cooling	Indoor		W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water		°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity		*2	BTU/h	378,000		405,000	
(Nominal)		*2	kW	110.8		118.7	
	Power input		kW	20.77		22.85	
(575)	Current input		A	23.1		25.4	
(Rated)			BTU/h	360,000		386,000	
			kW	105.5		113.1	
	Power input		kW	18.49	19.10	20.56	20.71
(575)	Current input		A	20.6	21.3	22.9	23.1
Temp. range of heating	Indoor		D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water		°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity			50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity			P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)			dB <A>	73.0		74.5	
Refrigerant piping diameter	Liquid pipe		in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Gas pipe		in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PQHY-P168ZLMU-B	PQHY-P168ZLMU-B	PQHY-P192ZLMU-B	PQHY-P168ZLMU-B
Minimum Circuit Ampacity		A	21	21	26	21
Maximum Overcurrent Protection		A	35	35	45	35
Inlet water	Water flow rate	G/h	1,902 + 1,902		1,902 + 1,902	
		G/min	31.7 + 31.7		31.7 + 31.7	
		m^3/h	7.20 + 7.20		7.20 + 7.20	
		L/min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G/min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3/h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	11.0	11.0	12.4	11.0
	Case heater	kW	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	499 (226)	499 (226)	499 (226)	499 (226)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290
		MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

WR2-Series

Simultaneous Cooling and Heating Heat recovery

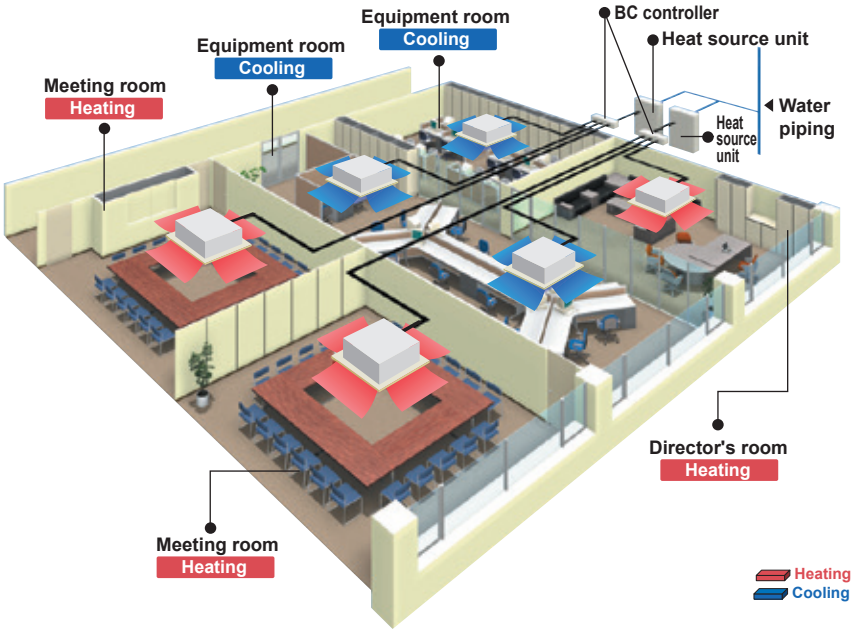
- Optional parts ····· P.154
- Specifications 208-230V, 460V **PQRY-P T(S)LMU-A2/Y(S)LMU-A2** ··· P.155 - P.166
  575V **PQRY-P Z(S)LMU-B** ····· P.167 - P.173
- BC controllers ····· P.174 - P.183



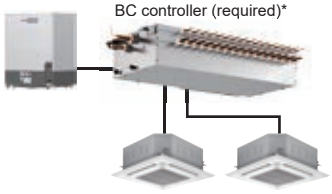
Advanced water heat source unit with the benefits of the R2-Series

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 wider range of applications in high-rise buildings, cold climates, coastal areas, etc.
Not only does it recover heat from the indoor units along the same 2-pipe refrigerant circuit, it also recovers heat via the water circuit between heat source units, making it a very economical system.

• Installation image (WR2-Series)

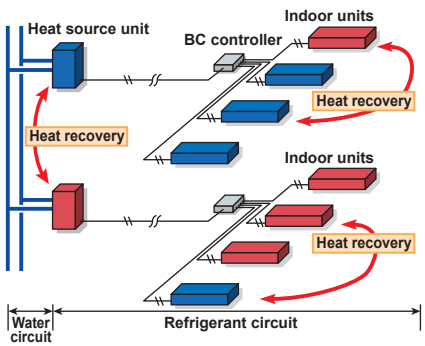


• System example



*WR2-Series systems require the use of BC controllers.

• Double heat recovery (WR2)



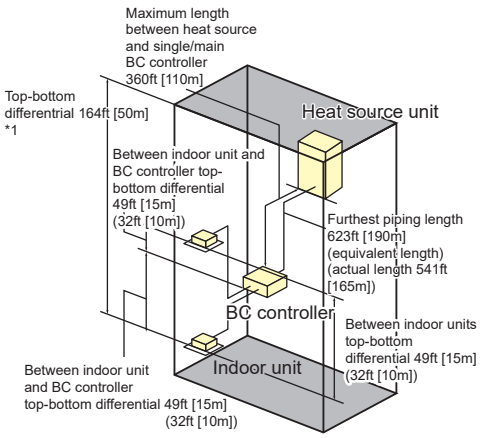
• System pipe lengths

[P72-P336 (WR2-Series)]

Refrigerant Piping Lengths	Maximum feet [Meters]
Total length	1,804-2,460 [550-750]
Maximum allowable length	541 (623 equivalent) [165 (190)]
Maximum length between heat source and single/main BC controller	360 [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	131 [40]*3

Vertical differentials between units	Maximum feet [Meters]
Indoor/ heat source (heat source higher)	164 [50]
Indoor/ heat source (heat source lower)	131 [40]
Indoor/BC controller (single/main)	49 [15]*4
Indoor/indoor	98 [30]*5
Main BC Controller/Sub BC Controller	49 [15]*6

*1 When the heat source unit is installed below the indoor unit, top-bottom differential is 131ft [40m].
*2 Details refer to the DATA BOOK.
*3 Farthest Indoor from BC controller can exceed 131ft [40m] till 197ft [60m] if no Indoor size d P72, P96 connected. Details refer to the DATA BOOK.
*4 Height between Indoor size d P72, P96 and BC must be less than 32ft [10m], if any.
*5 Height between Indoor size d P72, P96 and IU must be less than 65ft [20m], if any.
*6 Height between BC (Main or Sub) and BC (Sub) must be less than 32ft [10m] if two BC(sub) are installed or IU size is P72, P96.



Optional parts

• For WR2-Series

Description			Model	Remarks
Twinning kit			CMY-Q100CBK2	For PQRY-P144−P240TSLMU-A/YSLMU-A/ZSLMU
			CMY-Q200CBK	For PQRY-P288−P336TSLMU-A/YSLMU-A/ZSLMU
For BC controller	2-Branch joint pipe	Between BC controller and indoor units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: -P72
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P73-P96
	Joint and reducer	Between Main BC and Sub BC *Not necessary when J2 type BC controller is used.	CMY-R201S-G	Total down-stream indoor unit capacity: -P126
			CMY-R202S-G	Total down-stream indoor unit capacity: P127-P216
			CMY-R203S-G	Total down-stream indoor unit capacity: P217-P234
			CMY-R204S-G	Total down-stream indoor unit capacity: P235-P360
			CMY-R205S-G	Total down-stream indoor unit capacity: P361-
	Reducer	Between outdoor/heat source units and BC controller	CMY-R301S-G	For J2 type (Outdoor unit capacity: P72-P120)
			CMY-R302S-G1	For JA2 type (Outdoor unit capacity: P72-P336)
			CMY-R304S-G1	For KA2 type (Outdoor unit capacity: P72-P432)
		Between Main BC controller and Sub BC controller	CMY-R303S-G1	For JA2 type (When using the Sub BC controller)
			CMY-R305S-G1	For KA2 type (When using the Sub BC controller)
			CMY-R306S-G	For KB2 type
	Joint pipe kit		CMY-R160-J2	Joint for connecting two nozzles

HEAT SOURCE UNIT
WR2-Series (208-230V)
PQRY-P TLMU-A2



► Specifications

Heat Source Model			PQRY-P72TLMU-A2		PQRY-P96TLMU-A2		PQRY-P120TLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	72,000		96,000		120,000	
(Nominal) *1		kW	21.1		28.1		35.2	
	Power input	kW	3.61		5.21		7.51	
(208-230)	Current input	A	11.1-10.0		16.0-14.5		23.1-20.9	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	3.60	3.59	5.22	5.45	7.38	7.77
(208-230)	Current input	A	11.1-10.0	11.0-10.0	16.0-14.5	16.8-15.2	22.7-20.5	23.9-21.6
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	80,000		108,000		135,000	
(Nominal) *2		kW	23.4		31.7		39.6	
	Power input	kW	4.04		5.64		7.09	
(208-230)	Current input	A	12.4-11.2		17.3-15.7		21.8-19.7	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	3.78	3.36	4.49	4.48	5.78	5.89
(208-230)	Current input	A	11.6-10.5	10.3-9.3	13.8-12.5	13.8-12.4	17.8-16.1	18.1-16.4
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
connectable	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60.5		65.0		71.0	
Refrigerant	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
piping diameter	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	17-16		25-22		35-32	
Maximum Overcurrent Protection		A	30-25		45-35		60-50	
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m^3 / h	5.45		5.76		5.76	
		L / min	91		96		96	
		cfm	3.2		3.4		3.4	
	Pressure drop	psi	3.48		3.48		3.48	
		kPa	24		24		24	
	Operating volume range	G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		m^3 / h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7	
	Case heater	kW	0.035		0.035		0.035	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight		lbs (kg)	377 (171)		377 (171)		377 (171)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (208-230V)
PQRY-P TLMU-A2



► Specifications

Heat Source Model			PQRY-P144TLMU-A2		PQRY-P168TLMU-A2		PQRY-P192TLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	144,000		168,000		192,000	
(Nominal) *1		kW	42.2		49.2		56.3	
	Power input	kW	8.78		12.05		15.05	
(208-230)	Current input	A	27.0-24.4		37.1-33.6		46.4-41.9	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	9.44	10.12	11.98	12.47	15.17	15.00
(208-230)	Current input	A	29.1-26.3	31.2-28.2	36.9-33.4	38.4-34.7	46.7-42.3	46.2-41.8
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	160,000		188,000		215,000	
(Nominal) *2		kW	46.9		55.1		63.0	
	Power input	kW	8.11		9.86		11.90	
(208-230)	Current input	A	25.0-22.6		30.4-27.5		36.7-33.1	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	7.29	7.92	8.86	9.66	10.78	11.53
(208-230)	Current input	A	22.4-20.3	24.4-22.0	27.3-24.7	29.7-26.9	33.2-30.0	35.5-32.1
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
connectable	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		70.0		72.0	
Refrigerant	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
piping diameter	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	40-40		50-48		66-63	
Maximum Overcurrent Protection		A	70-70		90-80		110-110	
Inlet water	Water flow rate	G / h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m^3 / h	7.20		7.20		7.20	
		L / min	120		120		120	
		cfm	4.2		4.2		4.2	
	Pressure drop	psi	6.38		6.38		6.38	
		kPa	44		44		44	
	Operating volume range	G / h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
		G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
		m^3 / h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	9.5		11.0		12.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 x 880 x 550		1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight		lbs (kg)	481 (218)		481 (218)		481 (218)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMYR302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMYR302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (208-230V)
PQRY-P TLMU-A2



► Specifications

Heat Source Model			PQRY-P216TLMU-A2		PQRY-P240TLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	216,000		224,000	
(Nominal) *1		kW	63.3		65.7	
	Power input	kW	19.23		21.14	
(208-230)	Current input	A	59.3-53.6		65.1-58.9	
(Rated)		BTU / h	206,000		214,000	
		kW	60.4		62.7	
	Power input	kW	18.12	17.22	18.67	18.61
(208-230)	Current input	A	55.8-50.5	53.1-48.0	57.5-52.0	57.3-51.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	243,000		270,000	
(Nominal) *2		kW	71.2		79.1	
	Power input	kW	13.04		15.12	
(208-230)	Current input	A	40.2-36.3		46.6-42.1	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.78	12.07	13.75	14.48
(208-230)	Current input	A	36.3-32.8	37.2-33.6	42.4-38.3	44.6-40.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	72.5		73.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity		A	78-78		79-78	
Maximum Overcurrent Protection		A	125-125		125-125	
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m^3 / h	11.52		11.52	
		L / min	192		192	
		cfm	6.8		6.8	
	Pressure drop	psi	6.53		6.53	
		kPa	45		45	
	Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804	
		G / min	26.4 ~ 63.4		26.4 ~ 63.4	
		m^3 / h	6.0 ~ 14.4		6.0 ~ 14.4	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	14.5		16.1	
	Case heater	kW	0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight		lbs (kg)	549 (249)		549 (249)	
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMYR302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMYR302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (208-230V)
PQRY-P TSLMU-A2



► Specifications

Heat Source Model			PQRY-P144TSLMU-A2		PQRY-P168TSLMU-A2		PQRY-P192TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	144,000		168,000		192,000	
(Nominal)	*1	kW	42.2		49.2		56.3	
	Power input	kW	7.11		9.33		11.30	
(208-230)	Current input	A	21.9-19.8		28.7-26.0		34.8-31.5	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	6.96	8.17	8.87	9.66	10.57	11.54
(208-230)	Current input	A	21.4-19.4	25.1-22.7	27.3-24.7	29.7-26.9	32.5-29.4	35.5-32.1
Temp. range of	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
cooling	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	160,000		188,000		215,000	
(Nominal)	*2	kW	46.9		55.1		63.0	
	Power input	kW	7.45		9.34		11.02	
(208-230)	Current input	A	22.9-20.7		28.8-26.0		33.9-30.7	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	6.50	7.29	8.05	8.04	9.53	8.82
(208-230)	Current input	A	20.0-18.1	22.4-20.3	24.8-22.4	24.7-22.4	29.3-26.5	27.2-24.6
Temp. range of	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
heating	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
connectable	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5		68.0	
Refrigerant	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
piping diameter	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQRY-P72TLMU-A2	PQRY-P72TLMU-A2	PQRY-P96TLMU-A2	PQRY-P72TLMU-A2	PQRY-P96TLMU-A2	PQRY-P96TLMU-A2
Minimum Circuit Ampacity		A	17-16	17-16	25-22	17-16	25-22	25-22
Maximum Overcurrent Protection		A	30-25	30-25	45-35	30-25	45-35	45-35
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
		kPa	24	24	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	6.0	4.3	6.0	6.0
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	377 (171)	377 (171)	377 (171)	377 (171)	377 (171)	377 (171)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and	High pressure	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
distributor	Low pressure	in. (mm)	–	3/4 (19.05) Brazed	–	7/8 (22.2) Brazed	–	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (208-230V)
PQRY-P TSLMU-A2



► Specifications

Heat Source Model			PQRY-P216TSLMU-A2		PQRY-P240TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	216,000		240,000	
(Nominal)	*1	kW	63.3		70.3	
	Power input	kW	14.03		16.89	
(208-230)	Current input	A	43.2-39.1		52.0-47.1	
(Rated)		BTU / h	206,000		230,000	
		kW	60.4		67.4	
	Power input	kW	13.09	13.88	15.73	16.79
(208-230)	Current input	A	40.3-36.5	42.8-38.7	48.5-43.8	51.7-46.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	243,000		270,000	
(Nominal)	*2	kW	71.2		79.1	
	Power input	kW	12.88		14.58	
(208-230)	Current input	A	39.7-35.9		44.9-40.6	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.11	10.04	12.83	11.67
(208-230)	Current input	A	34.2-30.9	30.9-28.0	39.5-35.7	35.9-32.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	72.0		74.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PQRY-P120TLMU-A2	PQRY-P96TLMU-A2	PQRY-P120TLMU-A2	PQRY-P120TLMU-A2
Minimum Circuit Ampacity		A	35-32	25-22	35-32	35-32
Maximum Overcurrent Protection		A	60-50	45-35	60-50	60-50
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	6.0	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	377 (171)	377 (171)	377 (171)	377 (171)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	–	7/8 (22.2) Brazed	–	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (208-230V)
PQRY-P TSLMU-A2



▸ Specifications

Heat Source Model			PQRY-P288TSLMU-A2		PQRY-P312TSLMU-A2		PQRY-P336TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	288,000		312,000		336,000	
	*1	kW	84.4		91.4		98.5	
	Power input	kW	20.42		23.41		26.84	
(208-230)	Current input	A	62.9-56.9		72.1-65.2		82.7-74.8	
(Rated)		BTU / h	276,000		298,000		320,000	
		kW	80.9		87.3		93.8	
	Power input	kW	20.11	22.67	22.45	24.98	25.14	27.11
(208-230)	Current input	A	62.0-56.0	69.9-63.2	69.2-62.6	77.0-69.6	77.5-70.1	83.6-75.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU / h	323,000		350,000		378,000	
	*2	kW	94.7		102.6		110.8	
	Power input	kW	17.50		19.11		20.77	
(208-230)	Current input	A	53.9-48.8		58.9-53.3		64.0-57.9	
(Rated)		BTU / h	304,000		334,000		360,000	
		kW	89.1		97.9		105.5	
	Power input	kW	15.48	15.36	17.09	17.12	18.49	19.10
(208-230)	Current input	A	47.7-43.1	47.3-42.8	52.7-47.6	52.8-47.7	57.0-51.5	58.9-53.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	71.0		72.5		73.0	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PQRY-P144TLMU-A2	PQRY-P144TLMU-A2	PQRY-P168TLMU-A2	PQRY-P144TLMU-A2	PQRY-P168TLMU-A2	PQRY-P168TLMU-A2
Minimum Circuit Ampacity		A	40-40	40-40	50-48	40-40	50-48	50-48
Maximum Overcurrent Protection		A	70-70	70-70	90-80	70-70	90-80	90-80
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7		31.7 + 31.7	
		m^3 / h	7.20 + 7.20		7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38	6.38	6.38
		kPa	44	44	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3 / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	9.5	11.0	11.0
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	481 (218)	481 (218)	481 (218)	481 (218)	481 (218)	481 (218)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290	290	290
		MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	–	1-1/8 (28.58) Brazed	–	1-1/8 (28.58) Brazed	–	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (460V)
PQRY-P YLMU-A2



► Specifications

Heat Source Model			PQRY-P72YLMU-A2		PQRY-P96YLMU-A2		PQRY-P120YLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	72,000		96,000		120,000	
(Nominal) *1		kW	21.1		28.1		35.2	
	Power input	kW	3.61		5.21		7.51	
(460)	Current input	A	5.0		7.2		10.4	
(Rated)		BTU / h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	3.60	3.59	5.22	5.45	7.38	7.77
(460)	Current input	A	5.0	5.0	7.2	7.6	10.2	10.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	80,000		108,000		135,000	
(Nominal) *2		kW	23.4		31.7		39.6	
	Power input	kW	4.04		5.64		7.09	
(460)	Current input	A	5.6		7.8		9.8	
(Rated)		BTU / h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	3.78	3.36	4.49	4.48	5.78	5.89
(460)	Current input	A	5.2	4.6	6.2	6.2	8.0	8.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60.5		65.0		71.0	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	8		11		16	
Maximum Overcurrent Protection		A	15		15		25	
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m^3 / h	5.45		5.76		5.76	
		L / min	91		96		96	
		cfm	3.2		3.4		3.4	
	Pressure drop	psi	3.48		3.48		3.48	
		kPa	24		24		24	
	Operating volume range	G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		m^3 / h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7	
	Case heater	kW	0.035		0.035		0.035	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight		lbs (kg)	406 (184)		406 (184)		406 (184)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (460V)
PQRY-P YLMU-A2



► Specifications

Heat Source Model			PQRY-P144YLMU-A2		PQRY-P168YLMU-A2		PQRY-P192YLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity *1		BTU / h	144,000		168,000		192,000	
(Nominal) *1		kW	42.2		49.2		56.3	
	Power input	kW	8.78		12.05		15.05	
(460)	Current input	A	12.2		16.8		20.9	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	9.44	10.12	11.98	12.47	15.17	15.00
(460)	Current input	A	13.1	14.1	16.7	17.3	21.1	20.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity *2		BTU / h	160,000		188,000		215,000	
(Nominal) *2		kW	46.9		55.1		63.0	
	Power input	kW	8.11		9.86		11.90	
(460)	Current input	A	11.3		13.7		16.5	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	7.29	7.92	8.86	9.66	10.78	11.53
(460)	Current input	A	10.1	11.0	12.3	13.4	15.0	16.0
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		70.0		72.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	19		26		27	
Maximum Overcurrent Protection		A	30		45		45	
Inlet water	Water flow rate	G / h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m^3 / h	7.20		7.20		7.20	
		L / min	120		120		120	
		cfm	4.2		4.2		4.2	
	Pressure drop	psi	6.38		6.38		6.38	
		kPa	44		44		44	
	Operating volume range	G / h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
		G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
		m^3 / h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	9.5		11.0		12.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 x 880 x 550		1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight		lbs (kg)	508 (230)		508 (230)		508 (230)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (460V)
PQRY-P YLMU-A2



► Specifications

Heat Source Model			PQRY-P216YLMU-A2		PQRY-P240YLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	216,000		224,000	
	*1	kW	63.3		65.7	
	Power input	kW	19.23		21.14	
(460)	Current input	A	26.8		29.4	
(Rated)		BTU / h	206,000		214,000	
		kW	60.4		62.7	
	Power input	kW	18.12	17.22	18.67	18.61
(460)	Current input	A	25.2	24.0	26.0	25.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU / h	243,000		270,000	
	*2	kW	71.2		79.1	
	Power input	kW	13.04		15.12	
(460)	Current input	A	18.1		21.0	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.78	12.07	13.75	14.48
(460)	Current input	A	16.4	16.8	19.1	20.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	72.5		73.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity		A	37		40	
Maximum Overcurrent Protection		A	60		70	
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m^3 / h	11.52		11.52	
		L / min	192		192	
		cfm	6.8		6.8	
	Pressure drop	psi	6.53		6.53	
		kPa	45		45	
	Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804	
		G / min	26.4 ~ 63.4		26.4 ~ 63.4	
		m^3 / h	6.0 ~ 14.4		6.0 ~ 14.4	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter	
	Motor output	kW	14.5		16.1	
	Case heater	kW	0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight		lbs (kg)	565 (256)		565 (256)	
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (460V)
PQRY-P YSLMU-A2



► Specifications

Heat Source Model			PQRY-P144YSLMU-A2		PQRY-P168YSLMU-A2		PQRY-P192YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	144,000		168,000		192,000	
(Nominal)	*1	kW	42.2		49.2		56.3	
	Power input	kW	7.11		9.33		11.30	
(460)	Current input	A	9.9		13.0		15.7	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	6.96	8.17	8.87	9.66	10.57	11.54
(460)	Current input	A	9.7	11.3	12.3	13.4	14.7	16.0
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	160,000		188,000		215,000	
(Nominal)	*2	kW	46.9		55.1		63.0	
	Power input	kW	7.45		9.34		11.02	
(460)	Current input	A	10.3		13.0		15.3	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	6.50	7.29	8.05	8.04	9.53	8.82
(460)	Current input	A	9.0	10.1	11.2	11.2	13.2	12.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5		68.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQRY-P72YLMU-A2	PQRY-P72YLMU-A2	PQRY-P96YLMU-A2	PQRY-P72YLMU-A2	PQRY-P96YLMU-A2	PQRY-P96YLMU-A2
Minimum Circuit Ampacity		A	8	8	11	8	11	11
Maximum Overcurrent Protection		A	15	15	15	15	15	15
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
		kPa	24	24	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	6.0	4.3	6.0	6.0
	Case heater	kW	0.035	0.035	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	406 (184)	406 (184)	406 (184)	406 (184)	406 (184)	406 (184)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	–	3/4 (19.05) Brazed	–	7/8 (22.2) Brazed	–	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)

*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (460V)
PQRY-P YSLMU-A2



► Specifications

Heat Source Model			PQRY-P216YSLMU-A2		PQRY-P240YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	216,000		240,000	
(Nominal)	*1	kW	63.3		70.3	
	Power input	kW	14.03		16.89	
(460)	Current input	A	19.5		23.5	
(Rated)		BTU / h	206,000		230,000	
		kW	60.4		67.4	
	Power input	kW	13.09	13.88	15.73	16.79
(460)	Current input	A	18.2	19.3	21.9	23.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	243,000		270,000	
(Nominal)	*2	kW	71.2		79.1	
	Power input	kW	12.88		14.58	
(460)	Current input	A	17.9		20.3	
(Rated)		BTU / h	232,000		258,000	
		kW	68.0		75.6	
	Power input	kW	11.11	10.04	12.83	11.67
(460)	Current input	A	15.4	14.0	17.8	16.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	72.0		74.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PQRY-P120YLMU-A2	PQRY-P96YLMU-A2	PQRY-P120YLMU-A2	PQRY-P120YLMU-A2
Minimum Circuit Ampacity		A	16	11	16	16
Maximum Overcurrent Protection		A	25	15	25	25
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m^3 / h	5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3 / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	6.0	7.7	7.7
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	406 (184)	406 (184)	406 (184)	406 (184)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	–	7/8 (22.2) Brazed	–	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (460V)
PQRY-P YSLMU-A2



▸ Specifications

Heat Source Model			PQRY-P288YSLMU-A2		PQRY-P312YSLMU-A2		PQRY-P336YSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity	*1	BTU / h	288,000		312,000		336,000	
(Nominal)	*1	kW	84.4		91.4		98.5	
	Power input	kW	20.42		23.41		26.84	
(460)	Current input	A	28.4		32.6		37.4	
(Rated)		BTU / h	276,000		298,000		320,000	
		kW	80.9		87.3		93.8	
	Power input	kW	20.11	22.67	22.45	24.98	25.14	27.11
(460)	Current input	A	28.0	31.6	31.3	34.8	35.0	37.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU / h	323,000		350,000		378,000	
(Nominal)	*2	kW	94.7		102.6		110.8	
	Power input	kW	17.50		19.11		20.77	
(460)	Current input	A	24.4		26.6		28.9	
(Rated)		BTU / h	304,000		334,000		360,000	
		kW	89.1		97.9		105.5	
	Power input	kW	15.48	15.36	17.09	17.12	18.49	19.10
(460)	Current input	A	21.5	21.4	23.8	23.8	25.7	26.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	71.0		72.5		73.0	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed	

Set Model

Model			PQRY-P144YLMU-A2	PQRY-P144YLMU-A2	PQRY-P168YLMU-A2	PQRY-P144YLMU-A2	PQRY-P168YLMU-A2	PQRY-P168YLMU-A2
Minimum Circuit Ampacity		A	19	19	26	19	26	26
Maximum Overcurrent Protection		A	30	30	45	30	45	45
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7		31.7 + 31.7	
		m^3 / h	7.20 + 7.20		7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38	6.38	6.38
		kPa	44	44	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3 / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	9.5	11.0	11.0
	Case heater	kW	0.045	0.045	0.045	0.045	0.045	0.045
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	508 (230)	508 (230)	508 (230)	508 (230)	508 (230)	508 (230)
Heat exchanger			plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290	290	290
		MPa	2.0	2.0	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	–	1-1/8 (28.58) Brazed	–	1-1/8 (28.58) Brazed	–	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZLMU-B



► Specifications

Heat Source Model			PQRY-P72ZLMU-B		PQRY-P96ZLMU-B		PQRY-P120ZLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	72,000		96,000		120,000	
(Nominal)	*1	kW	21.1		28.1		35.2	
	Power input	kW	3.61		5.21		7.51	
(575)	Current input	A	4.0		5.8		8.3	
(Rated)		BTU/h	69,000		92,000		115,000	
		kW	20.2		27.0		33.7	
	Power input	kW	3.60	3.59	5.22	5.45	7.38	7.77
(575)	Current input	A	4.0	4.0	5.8	6.0	8.2	8.6
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU/h	80,000		108,000		135,000	
(Nominal)	*2	kW	23.4		31.7		39.6	
	Power input	kW	4.04		5.64		7.09	
(575)	Current input	A	4.5		6.2		7.9	
(Rated)		BTU/h	76,000		103,000		129,000	
		kW	22.3		30.2		37.8	
	Power input	kW	3.78	3.36	4.49	4.48	5.78	5.89
(575)	Current input	A	4.2	3.7	5.0	4.9	6.4	6.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)		dB <A>	60.5		65.0		71.0	
Refrigerant piping diameter	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	6		9		13	
Maximum Overcurrent Protection		A	15		15		20	
Inlet water	Water flow rate	G/h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m^3/h	5.45		5.76		5.76	
		L/min	91		96		96	
		cfm	3.2		3.4		3.4	
	Pressure drop	psi	3.48		3.48		3.48	
		kPa	24		24		24	
	Operating volume range	G/h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		m^3/h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7	
	Case heater	kW	0.035		0.035		0.035	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight		lbs (kg)	406 (184)		406 (184)		406 (184)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZLMU-B



► Specifications

Heat Source Model			PQRY-P144ZLMU-B		PQRY-P168ZLMU-B		PQRY-P192ZLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity	*1	BTU/h	144,000		168,000		192,000	
(Nominal)	*1	kW	42.2		49.2		56.3	
	Power input	kW	8.78		12.05		15.05	
(575)	Current input	A	9.7		13.4		16.7	
(Rated)		BTU/h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
	Power input	kW	9.44	10.12	11.98	12.47	15.17	15.00
(575)	Current input	A	10.5	11.2	13.3	13.9	16.9	16.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity	*2	BTU/h	160,000		188,000		215,000	
(Nominal)	*2	kW	46.9		55.1		63.0	
	Power input	kW	8.11		9.86		11.90	
(575)	Current input	A	9.0		11.0		13.2	
(Rated)		BTU/h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
	Power input	kW	7.29	7.92	8.86	9.66	10.78	11.53
(575)	Current input	A	8.1	8.8	9.8	10.7	12.0	12.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		70.0		72.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	15		21		26	
Maximum Overcurrent Protection		A	25		35		45	
Inlet water	Water flow rate	G/h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m^3/h	7.20		7.20		7.20	
		L/min	120		120		120	
		cfm	4.2		4.2		4.2	
	Pressure drop	psi	6.38		6.38		6.38	
		kPa	44		44		44	
	Operating volume range	G/h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
		G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
		m^3/h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	9.5		11.0		12.4	
	Case heater	kW	0.045		0.045		0.045	
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
		mm	1,450 x 880 x 550		1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight		lbs (kg)	510 (231)		510 (231)		510 (231)	
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
	Max.	MPa	2.0		2.0		2.0	
Optional parts			joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZSLMU-B



► Specifications

Heat Source Model			PQRY-P144ZSLMU-B		PQRY-P168ZSLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	144,000		168,000	
	*1	kW	42.2		49.2	
	Power input	kW	7.11		9.33	
(575)	Current input	A	7.9		10.4	
(Rated)		BTU/h	138,000		160,000	
		kW	40.4		46.9	
	Power input	kW	6.96	8.17	8.87	9.66
(575)	Current input	A	7.7	9.1	9.8	10.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	160,000		188,000	
	*2	kW	46.9		55.1	
	Power input	kW	7.45		9.34	
(575)	Current input	A	8.3		10.4	
(Rated)		BTU/h	152,000		178,000	
		kW	44.5		52.2	
	Power input	kW	6.50	7.29	8.05	8.04
(575)	Current input	A	7.2	8.1	8.9	8.9
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/1~36		P04~P96/1~42	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQRY-P72ZLMU-B	PQRY-P72ZLMU-B	PQRY-P96ZLMU-B	PQRY-P72ZLMU-B
Minimum Circuit Ampacity		A	6	6	9	6
Maximum Overcurrent Protection		A	15	15	15	15
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m^3/h	5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3/h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.3	4.3	6.0	4.3
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	406 (184)	406 (184)	406 (184)	406 (184)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume	G	1.22	1.22	1.22	1.22
	in plate	l	4.6	4.6	4.6	4.6
	Water pressure	psi	290	290	290	290
	Max.	MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	-	3/4 (19.05) Brazed	-	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZSLMU-B



► Specifications

Heat Source Model			PQRY-P192ZSLMU-B		PQRY-P216ZSLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	192,000		216,000	
	*1	kW	56.3		63.3	
	Power input	kW	11.30		14.03	
(575)	Current input	A	12.6		15.6	
(Rated)		BTU/h	184,000		206,000	
		kW	53.9		60.4	
	Power input	kW	10.57	11.54	13.09	13.88
(575)	Current input	A	11.7	12.8	14.6	15.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	215,000		243,000	
	*2	kW	63.0		71.2	
	Power input	kW	11.02		12.88	
(575)	Current input	A	12.2		14.3	
(Rated)		BTU/h	204,000		232,000	
		kW	59.8		68.0	
	Power input	kW	9.53	8.82	11.11	10.04
(575)	Current input	A	10.6	9.8	12.3	11.2
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/1~48		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	68.0		72.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model

Model			PQRY-P96ZLMU-B	PQRY-P96ZLMU-B	PQRY-P120ZLMU-B	PQRY-P96ZLMU-B
Minimum Circuit Ampacity		A	9	9	13	9
Maximum Overcurrent Protection		A	15	15	20	15
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m^3/h	5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
		kPa	24	24	24	24
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m^3/h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	6.0	6.0	7.7	6.0
	Case heater	kW	0.035	0.035	0.035	0.035
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight		lbs (kg)	406 (184)	406 (184)	406 (184)	406 (184)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290
		MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	-	7/8 (22.2) Brazed	-	7/8 (22.2) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZSLMU-B



► Specifications

Heat Source Model			PQRY-P240ZSLMU-B		PQRY-P288ZSLMU-B	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	240,000		288,000	
	*1	kW	70.3		84.4	
	Power input	kW	16.89		20.42	
(575)	Current input	A	18.8		22.7	
(Rated)		BTU/h	230,000		276,000	
		kW	67.4		80.9	
	Power input	kW	15.73	16.79	20.11	22.67
(575)	Current input	A	17.5	18.7	22.4	25.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	270,000		323,000	
	*2	kW	79.1		94.7	
	Power input	kW	14.58		17.50	
(575)	Current input	A	16.2		19.5	
(Rated)		BTU/h	258,000		304,000	
		kW	75.6		89.1	
	Power input	kW	12.83	11.67	15.48	15.48
(575)	Current input	A	14.3	13.0	17.2	17.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	74.0		71.0	
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	

Set Model

Model			PQRY-P120ZLMU-B	PQRY-P120ZLMU-B	PQRY-P144ZLMU-B	PQRY-P144ZLMU-B
Minimum Circuit Ampacity		A	13	13	15	15
Maximum Overcurrent Protection		A	20	20	25	25
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,902 + 1,902	
		G / min	25.4 + 25.4		31.7 + 31.7	
		m^3/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	psi	3.48	3.48	6.38	6.38
		kPa	24	24	44	44
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902		1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	13.2 + 13.2 ~ 31.7 + 31.7		19.8 + 19.8 ~ 50.9 + 50.9	
		m^3/h	3.0 + 3.0 ~ 7.2 + 7.2		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7	7.7	9.5	9.5
	Case heater	kW	0.035	0.035	0.045	0.045
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,450 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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	406 (184)	406 (184)	510 (231)	510 (231)
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume in plate	G	1.22	1.22	1.22	1.22
		l	4.6	4.6	4.6	4.6
	Water pressure Max.	psi	290	290	290	290
		MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	-	7/8 (22.2) Brazed	-	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZSLMU-B



► Specifications

Heat Source Model			PQRY-P312ZSLMU-B	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	312,000	
	*1	kW	91.4	
	Power input	kW	23.41	
(575)	Current input	A	26.1	
(Rated)		BTU/h	298,000	
		kW	87.3	
	Power input	kW	22.45	24.98
(575)	Current input	A	25.0	27.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	350,000	
	*2	kW	102.6	
	Power input	kW	19.11	
(575)	Current input	A	21.3	
(Rated)		BTU/h	334,000	
		kW	97.9	
	Power input	kW	17.09	17.12
(575)	Current input	A	19.0	19.0
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	72.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed	

Set Model

Model			PQRY-P168ZLMU-B	PQRY-P144ZLMU-B
Minimum Circuit Ampacity		A	21	15
Maximum Overcurrent Protection		A	35	25
Inlet water	Water flow rate	G/h	1,902 + 1,902	
		G / min	31.7 + 31.7	
		m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	psi	6.38	6.38
		kPa	44	44
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9	
		m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter
	Motor output	kW	11.0	9.5
	Case heater	kW	0.045	0.045
External finish			Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 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		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	510 (231)	510 (231)
Heat exchanger			plate type	plate type
	Water volume	G	1.22	1.22
	in plate	l	4.6	4.6
	Water pressure	psi	290	290
	Max.	MPa	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	-	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT
WR2-Series (575V)
PQRY-P ZSLMU-B



► Specifications

Heat Source Model			PQRY-P336ZSLMU-B	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	336,000	
	*1	kW	98.5	
	Power input	kW	26.84	
(575)	Current input	A	29.9	
(Rated)		BTU/h	320,000	
		kW	93.8	
	Power input	kW	25.14	27.11
(575)	Current input	A	28.0	30.2
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	378,000	
	*2	kW	110.8	
	Power input	kW	20.77	
(575)	Current input	A	23.1	
(Rated)		BTU/h	360,000	
		kW	105.5	
	Power input	kW	18.49	19.10
(575)	Current input	A	20.6	21.3
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	
	Model/Quantity		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB <A>	73.0	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-5/8 (41.28) Brazed	

Set Model

Model			PQRY-P168ZLMU-B	PQRY-P168ZLMU-B
Minimum Circuit Ampacity		A	21	21
Maximum Overcurrent Protection		A	35	35
Inlet water	Water flow rate	G/h	1,902 + 1,902	
		G / min	31.7 + 31.7	
		m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	psi	6.38	6.38
		kPa	44	44
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054	
		G / min	19.8 + 19.8 ~ 50.9 + 50.9	
		m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter
	Motor output	kW	11.0	11.0
	Case heater	kW	0.045	0.045
External finish			Galvanized steel sheets	
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 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		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight		lbs (kg)	510 (231)	510 (231)
Heat exchanger			plate type	plate type
	Water volume in plate	G	1.22	1.22
		l	4.6	4.6
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	-	1-1/8 (28.58) Brazed
Optional parts			Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	

Notes:

*1,*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

	Indoor	Water temperature
Cooling	81ºF D.B./66ºF W.B. (27ºC D.B./19ºC W.B.)	86ºF (30ºC)
Heating	68ºF D.B. (20ºC D.B.)	68ºF (20ºC)

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°FD.B./66°FW.B. (27°CD.B./19°CW.B.), Inlet water temperature: 86°F (30°C)
*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.
*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).



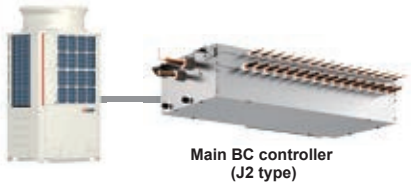
BC Controllers

BC controller features

Lineup of BC controllers

The BC controller lineup includes the J2 type (main BC controller), the JA2 and KA2 types (main BC controller used with sub BC controller), and the KB2 type (sub BC controller).

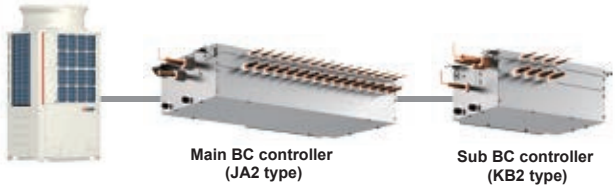
• System with a single BC controller



Main BC controller (J2 type)

Model	Number of branches	Connectable outdoor unit capacity
CMB-P104NU-J2	4	(E)P72 to (E)P120
CMB-P106NU-J2	6	
CMB-P108NU-J2	8	
CMB-P1012NU-J2	12	
CMB-P1016NU-J2	16	

• System with multiple BC controllers



Main BC controller (JA2 and KA2 types)

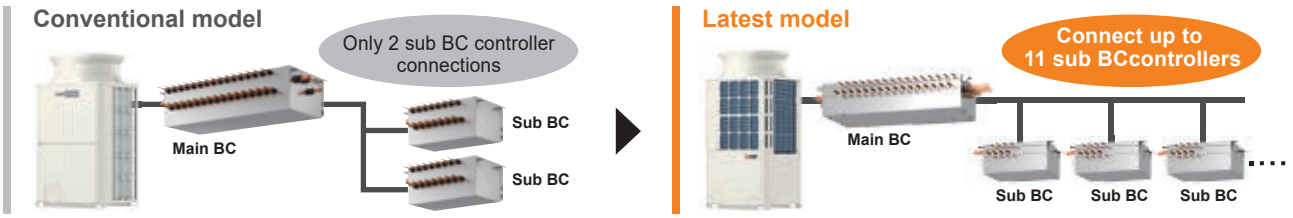
Model	Number of branches	Connectable outdoor unit capacity
CMB-P108NU-JA2	8	(E)P72 to (E)P336
CMB-P1012NU-JA2	12	
CMB-P1016NU-JA2	16	
CMB-P1016NU-KA2	16	(E)P72 to (E)P432

Sub BC controller (KB2 types)

Model	Number of branches	Connectable Main BC controller
CMB-P104NU-KB2	4	CMB-P108/1012/1016NU-JA2, CMB-P1016NU-KA2
CMB-P108NU-KB2	8	

Sub BC controller connections increased

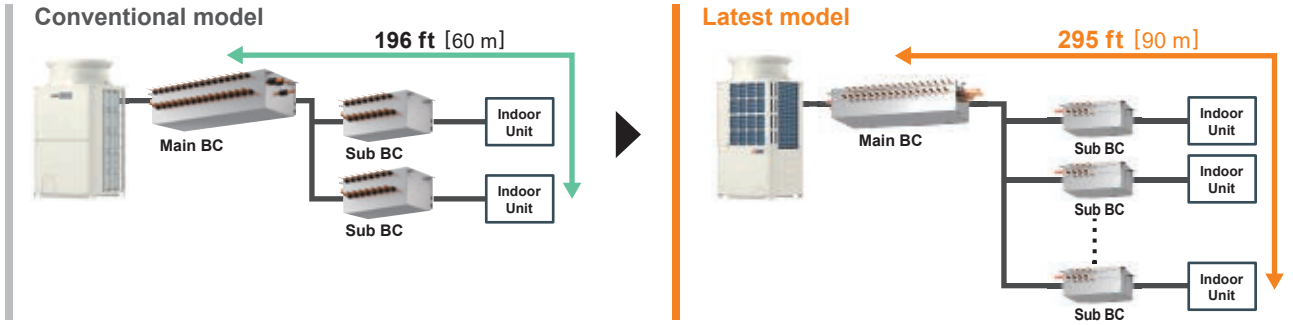
Only two sub BC controllers could be connected to a main BC controller in previous models. Up to 11 sub BC controllers can now be connected to the latest BC controller, allowing for more flexibility in system design.
The line-branching method enables the creation of system designs that use less refrigerant.



Greater flexibility in refrigerant piping design

The piping length from the main BC controller to indoor units has been increased from 196 ft [60 m] to 295 ft [90 m], providing greater flexibility in piping design.

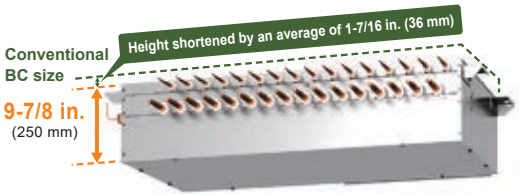
*Sub BC controllers should be used when piping length is 196 ft [60 m] or more.



Reduced height

With an average lower height of 1-7/16 in. (36 mm) compared to previous sub BC controllers, the latest design can be installed in ceilings with limited space.

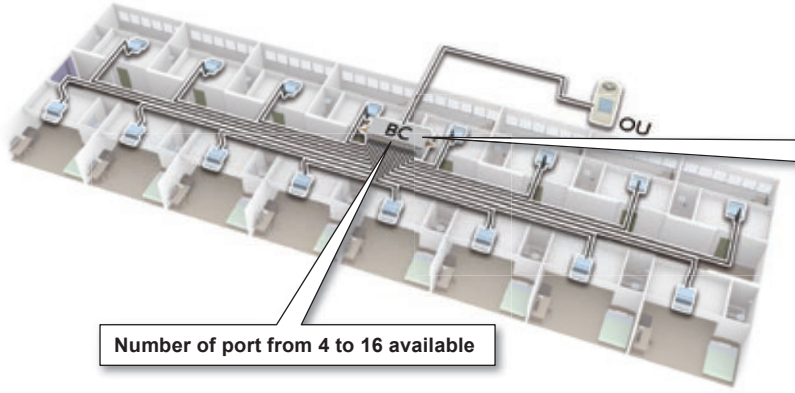
* Servicing space is required.



Refer to the DATA BOOK for the restrictions for using an old-type BC controller.

BC controller design can be selected from various patterns depending on use.

Pattern using multi-branch main BC controller



Up to P336 can be connected to one main BC controller.
Construction is easier as the number of piping connections and the suspension work can be reduced.

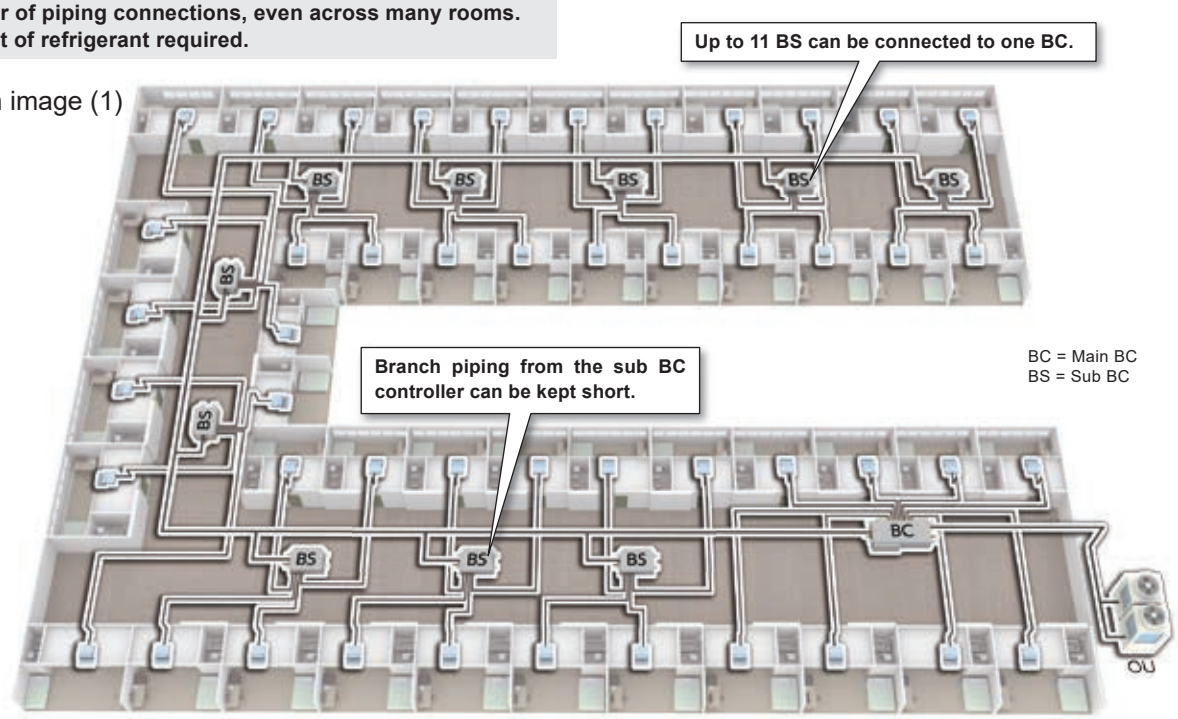
OU = Outdoor unit
BC = BC controller

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 be now 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 image (1)

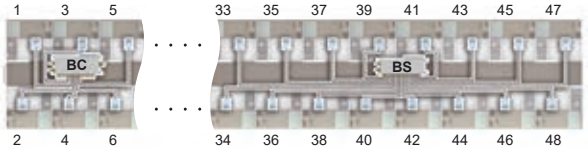


BC = Main BC
BS = Sub BC

*When you install sub BC controller, please refer to DATA BOOK for full detail.

Comparison of piping design for 48 rooms

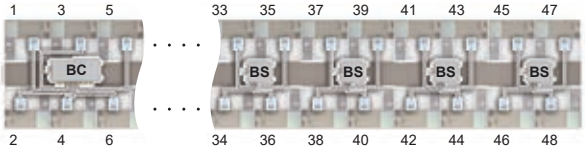
Conventional model



Branch piping from sub BC controller is long

*The 16 branch BC controller is an older model, and is not possible in this design. This design is not possible with the latest sub BC controller.

Latest model



The sub BC controller can be installed near the indoor units, so 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%***

* Outdoor unit: P336
* Indoor units: P08 × 48 units

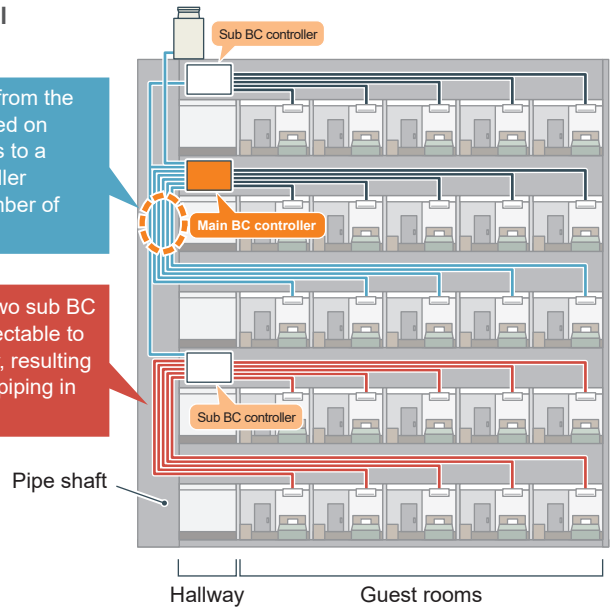
* BC controllers: Conventional HA1 + HB1 (16-branch) × 2 units
  Latest JA2 + KB2 (4-branch) × 10 units

• Installation image (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.

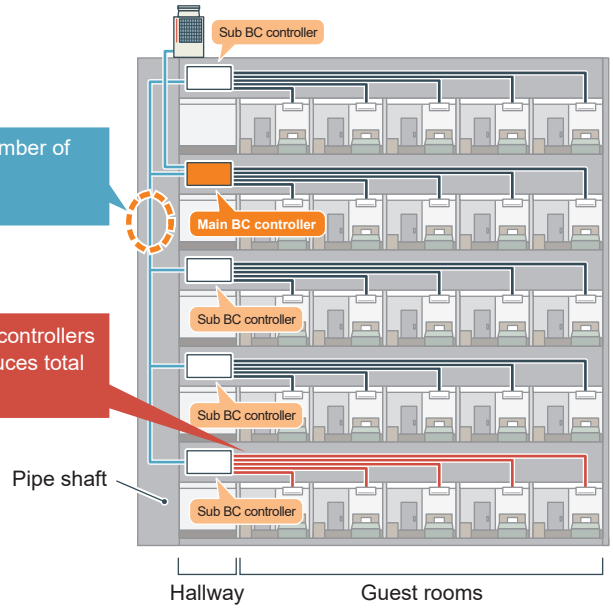
Originally, only up to two sub BC controllers were connectable to the main BC controller, resulting in the need for longer piping in certain applications.



Latest model

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

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

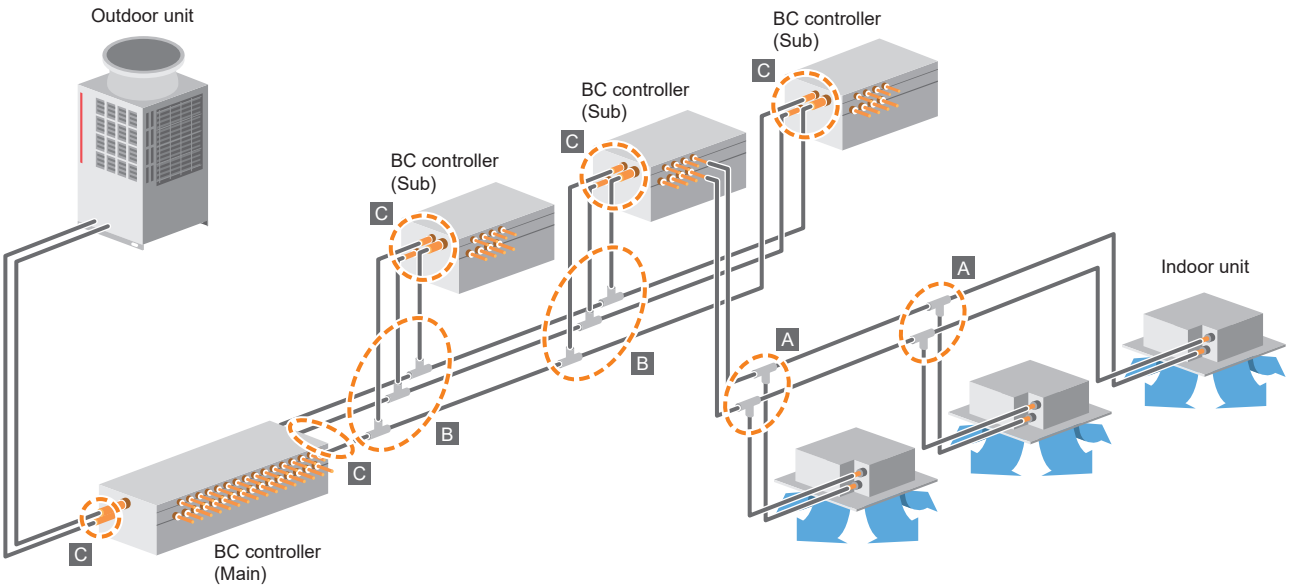


Refrigerant amount reduced by 20%*

* Outdoor unit: P192 (PURY-P)
* Indoor units: P06 × 25 units
* BC controllers: Conventional GA1 + HB1 (16-branch) × 2 units
  Latest JA2 + KB2 (8-branch) × 4 units

Optional parts

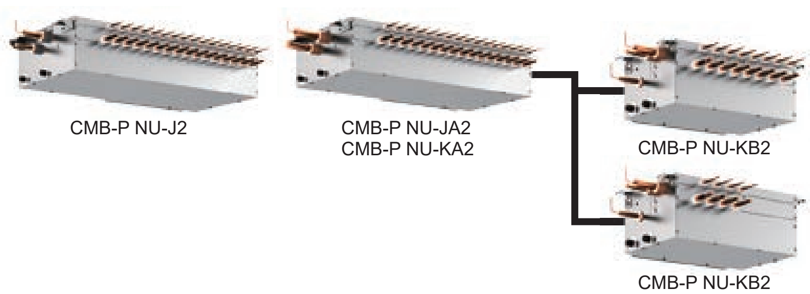
• For BC controllers



A	Branch pipe (Joint)	Between BC and indoor units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: -P72
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P73-P96
B	Joint and Reducer	Between Main BC and Sub BC	CMY-R201S-G	Total down-stream indoor unit capacity: -P126
			CMY-R202S-G	Total down-stream indoor unit capacity: P127-P216
			CMY-R203S-G	Total down-stream indoor unit capacity: P217-P234
			CMY-R204S-G	Total down-stream indoor unit capacity: P235-P360
			CMY-R205S-G	Total down-stream indoor unit capacity: P361-
C	Reducer	Between outdoor units and BC	CMY-R301S-G	For J2 type (Outdoor unit capacity: P72-P120)
			CMY-R302S-G1	For JA2 type (Outdoor unit capacity: P72-P336)
			CMY-R304S-G1	For KA2 type (Outdoor unit capacity: P72-P432)
		Between Main BC and Sub BC	CMY-R303S-G1	For JA2 type (When using the Sub BC controller)
			CMY-R305S-G1	For KA2 type (When using the Sub BC controller)
			CMY-R306S-G	For KB2 type
Joint pipe kit			CMY-R160-J2	Joint for connecting two nozzles

♦Item “B” is not necessary when J2-type BC controller is used.

CMB-P NU-J2
CMB-P NU-JA2
CMB-P NU-KA2
CMB-P NU-KB2



J2 type

CMB-P NU-J2

► Specifications

Model			CMB-P104NU-J2			CMB-P106NU-J2			CMB-P108NU-J2			CMB-P1012NU-J2			CMB-P1016NU-J2		
Number of branch			4			6			8			12			16		
Power source			1-phase 208-230 V														
			60 Hz			60 Hz			60 Hz			60 Hz			60 Hz		
Power input (208/230)	Cooling	kW	0.061/0.078			0.091/0.118			0.122/0.157			0.182/0.235			0.243/0.314		
	Heating	kW	0.030/0.039			0.046/0.059			0.061/0.078			0.091/0.118			0.122/0.157		
Current input (208/230)	Cooling	A	0.30/0.35			0.44/0.52			0.59/0.69			0.88/1.03			1.17/1.37		
	Heating	A	0.15/0.18			0.22/0.26			0.30/0.35			0.44/0.52			0.59/0.69		
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)														
Connectable outdoor/heat source unit capacity			P72 to P120														
Indoor unit capacity connectable to 1 branch *11			Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.)														
External dimension HxWxD		mm	250 x 596 x 398			250 x 596 x 398			250 x 596 x 398			250 x 911 x 545			250 x 1,135 x 545		
		in.	9-7/8 x 23-1/2 x 15-11/16			9-7/8 x 23-1/2 x 15-11/16			9-7/8 x 23-1/2 x 15-11/16			9-7/8 x 35-7/8 x 21-1/2			9-7/8 x 44-11/16 x 21-1/2		
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe
		mm(in.) O.D.	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed
		mm(in.) O.D.	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed
	*12	mm(in.) O.D.	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed
	To indoor unit		Liquid pipe	Gas pipe		Liquid pipe	Gas pipe		Liquid pipe	Gas pipe		Liquid pipe	Gas pipe		Liquid pipe	Gas pipe	
		mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)		Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)		Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)		Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)		Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	
Field drain pipe size		in.	3/4 NPT			3/4 NPT			3/4 NPT			3/4 NPT			3/4 NPT		
Net weight		kg (lbs)	25 (56)			28 (62)			32 (71)			48 (106)			58 (128)		
Sound power level (measured in anechoic room)	Rated operation	dB <A>	59			59			59			59			59		
	Defrost	dB <A>	71			71			71			71			71		
Accessories			Square Washer			Square Washer			Square Washer			Square Washer			Square Washer		

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. 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.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
   The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. 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.
11. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

JA2 type

CMB-P NU-JA2

Specifications

Model			CMB-P108NU-JA2	CMB-P1012NU-JA2	CMB-P1016NU-JA2
Number of branch			8	12	16
Power source			1-phase 208-230 V		
			60 Hz	60 Hz	60 Hz
Power input (208/230)	Cooling	kW	0.137/0.176	0.198/0.255	0.258/0.333
	Heating	kW	0.076/0.098	0.106/0.137	0.137/0.176
Current input (208/230)	Cooling	A	0.66/0.77	0.95/1.11	1.25/1.45
	Heating	A	0.37/0.43	0.52/0.60	0.66/0.77
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)		
Connectable outdoor/heat source unit capacity			P72 to P336		
Indoor unit capacity connectable to 1 branch *11			Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.)		
External dimension HxWxD		mm	250 x 911 x 545	250 x 1,135 x 545	250 x 1,135 x 545
		in.	9-7/8 x 35-7/8 x 21-1/2	9-7/8 x 44-11/16 x 21-1/2	9-7/8 x 44-11/16 x 21-1/2

Refrigerant piping diameter — To outdoor/heat source unit

			CMB-P108NU-JA2 Connectable unit capacity	High press. pipe	Low press. pipe	CMB-P1012NU-JA2 Connectable unit capacity	High press. pipe	Low press. pipe	CMB-P1016NU-JA2 Connectable unit capacity	High press. pipe	Low press. pipe
Refrigerant piping diameter		mm(in.) O.D.	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed
		mm(in.) O.D.	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed
	*12	mm(in.) O.D.	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed
		mm(in.) O.D.	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed
	*12	mm(in.) O.D.	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
	*12	mm(in.) O.D.	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed
		mm(in.) O.D.	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed
	*12	mm(in.) O.D.	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed
		mm(in.) O.D.	P336	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	P336	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	P336	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed

Refrigerant piping diameter — To indoor unit

	CMB-P108NU-JA2 Liquid pipe	Gas pipe	CMB-P1012NU-JA2 Liquid pipe	Gas pipe	CMB-P1016NU-JA2 Liquid pipe	Gas pipe
mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)

Refrigerant piping diameter — To other BC controller

	CMB-P108NU-JA2 Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe	CMB-P1012NU-JA2 Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe	CMB-P1016NU-JA2 Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe
mm(in.) O.D.	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed
mm(in.) O.D.	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
mm(in.) O.D.	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
mm(in.) O.D.	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
mm(in.) O.D.	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
mm(in.) O.D.	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
mm(in.) O.D.	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed
mm(in.) O.D.	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed

			CMB-P108NU-JA2	CMB-P1012NU-JA2	CMB-P1016NU-JA2
Field drain pipe size		in.	3/4 NPT	3/4 NPT	3/4 NPT
Net weight		kg (lbs)	48 (106)	60 (133)	66 (146)
Sound power level (measured in anechoic room)	Rated operation	dB <A>	69	69	69
	Defrost	dB <A>	74	74	74
Accessories			Square Washer	Square Washer	Square Washer

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. 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.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
   The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. 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.
11. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

KA2 type

CMB-P NU-KA2

► Specifications

Model			CMB-P1016NU-KA2			
Number of branch			16			
Power source			1-phase 208-230 V			
			60 Hz			
Power input (208/230)	Cooling	kW	0.258/0.333			
	Heating	kW	0.137/0.176			
Current input (208/230)	Cooling	A	1.25/1.45			
	Heating	A	0.66/0.77			
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)			
Connectable outdoor/heat source unit capacity			P72 to P432			
Indoor unit capacity connectable to 1 branch *11			Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.)			
External dimension HxWxD		mm	250 x 1,135 x 545			
		in.	9-7/8 x 44-11/16 x 21-1/2			
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity	High press. pipe	Low press. pipe	
		mm(in.) O.D.	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	
		mm(in.) O.D.	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	
	*12	mm(in.) O.D.	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	
		mm(in.) O.D.	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
	*12	mm(in.) O.D.	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
	*12	mm(in.) O.D.	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
		mm(in.) O.D.	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
	*12	mm(in.) O.D.	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed	
		mm(in.) O.D.	P336 to P384	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	
		mm(in.) O.D.	P432	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	
	To indoor unit		Liquid pipe		Gas pipe	
		mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed		Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	
	To other BC controller		Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe
		mm(in.) O.D.	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed
		mm(in.) O.D.	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
		mm(in.) O.D.	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed
		mm(in.) O.D.	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed
Field drain pipe size		in.	3/4 NPT			
Net weight		kg (lbs)	69 (153)			
Sound power level (measured in anechoic room)	Rated operation	dB <A>	66			
	Defrost	dB <A>	73			
Accessories			Square Washer			

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. 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.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
   The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. 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.
11. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

KB2 type

CMB-P NU-KB2

► Specifications

Model			CMB-P104NU-KB2			
Number of branch			4			
Power source			1-phase 208-230 V			
			60 Hz			
Power input (208/230)	Cooling	kW	0.061/0.078			
	Heating	kW	0.030/0.039			
Current input (208/230)	Cooling	A	0.30/0.35			
	Heating	A	0.15/0.18			
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)			
Connectable Main BC controller			CMB-P108/1012/1016NU-JA2, CMB-P1016NU-KA2			
The maximum number of connectable Sub BC controllers			11			
The maximum connectable capacity of indoor units			P126 for each			
External dimension HxWxD		mm	250 x 596 x 398			
		in.	9-7/8 x 23-1/2 x 15-11/16			
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity	High press. pipe	Low press. pipe	
		mm(in.) O.D.	-	-	-	
	To indoor unit		Liquid pipe		Gas pipe	
		mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed		Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)	
	To other BC controller		Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe
		mm(in.) O.D.	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed
		mm(in.) O.D.	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
		mm(in.) O.D.	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed
		mm(in.) O.D.	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed
Field drain pipe size		in.	3/4 NPT			
Net weight		kg (lbs)	22 (49)			
Sound power level (measured in anechoic room)	Rated operation	dB <A>	59			
	Defrost	dB <A>	71			
Accessories			Square Washer			

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. 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.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
   The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. 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.
11. Can't use singleness. (MAIN BC CONTROLLER is necessary)

KB2 type

CMB-P NU-KB2

► Specifications

Model			CMB-P108NU-KB2			
Number of branch			8			
Power source			1-phase 208-230 V			
			60 Hz			
Power input (208/230)	Cooling	kW	0.122/0.157			
	Heating	kW	0.061/0.078			
Current input (208/230)	Cooling	A	0.59/0.69			
	Heating	A	0.30/0.35			
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)			
Connectable Main BC controller			CMB-P108/1012/1016NU-JA2, CMB-P1016NU-KA2			
The maximum number of connectable Sub BC controllers			11			
The maximum connectable capacity of indoor units			P126 for each			
External dimension HxWxD		mm	250 x 596 x 398			
		in.	9-7/8 x 23-1/2 x 15-11/16			
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity	High press. pipe	Low press. pipe	
		mm(in.) O.D.	-	-	-	
	To indoor unit		Liquid pipe		Gas pipe	
		mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed		Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)	
	To other BC controller		Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe
		mm(in.) O.D.	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed
		mm(in.) O.D.	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
		mm(in.) O.D.	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed
		mm(in.) O.D.	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed
Field drain pipe size		in.	3/4 NPT			
Net weight		kg (lbs)	29 (64)			
Sound power level (measured in anechoic room)	Rated operation	dB <A>	59			
	Defrost	dB <A>	71			
Accessories			Square Washer			

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. 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.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
   The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. 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.
11. Can't use singleness. (MAIN BC CONTROLLER is necessary)

Indoor Units



Lineup & Specifications of indoor units

Model size		P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
TON		0.33	0.42	0.5	0.67	1.0	1.25	1.5	2.0	2.25	2.5	3.0	4.0	4.5	6.0	8.0
Nominal cooling capacity*	BTU/h	4,000	5,000	6,000	8,000	12,000	15,000	18,000	24,000	27,000	30,000	36,000	48,000	54,000	72,000	96,000
	kW	1.1	1.4	1.8	2.3	3.5	4.4	5.3	7.0	7.9	8.8	10.6	14.1	15.8	21.1	28.1
Nominal heating capacity*	BTU/h	4,500	5,600	6,700	9,000	13,500	17,000	20,000	27,000	30,000	34,000	40,000	54,000	60,000	80,000	108,000
	kW	1.3	1.6	2.0	2.6	4.0	5.0	5.9	7.9	8.8	10.0	11.7	15.8	17.6	23.4	31.7

Ceiling cassette

PLFY-EP NEMU1-E(1) 3D i-see Sensor



PLFY-P NFMU-E 3D i-see Sensor



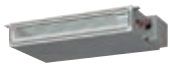
PMFY-P NBMU-E



Model size	P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
PLFY-EP NEMU1-E(1)			●	●	●	●	●	●		●	●	●			
PLFY-P NFMU-E		●		●	●	●	●								
PMFY-P NBMU-E			●	●	●	●									

Ceiling concealed

PEFY-P NMSU-E



PEFY-P NMAU-E4/E5



PEFY-P NMHU-E2
PEFY-P NMHSU-E



PEFY-P NMHU-E-OA



Model size	P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
PEFY-P NMSU-E			●	●	●	●	●	●							
PEFY-P NMAU-E4/E5			●	●	●	●	●	●	●	●	●	●	●		
PEFY-P NMHU-E2						●	●	●	●	●	●	●	●		
PEFY-P NMHSU-E														●	●
PEFY-P NMHU-E-OA											●	●		●	●

Multi-position air handler

PVFY-P NAMU-E1



Model size	P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
PVFY-P NAMU-E1				●	●		●	●		●	●	●	●		

Ceiling suspended

PCFY-P NKMU-E



Model size	P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
PCFY-P NKMU-E						●		●		●	●				

Wall mounted

PKFY-P NLMU-E



PKFY-P NKMU-E2



Model size	P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
PKFY-P NLMU-E	●		●	●	●	●	●								
PKFY-P NKMU-E2								●		●					

Floor standing exposed
Floor mounted concealed

PFFY-P NEMU-E



PFFY-P NRMU-E



Model size	P04	P05	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
PFFY-P NEMU-E			●	●	●	●	●	●							
PFFY-P NRMU-E			●	●	●	●	●	●							

Dedicated Outside Air System (DOAS)

PEFY-AF1200CFMR-E

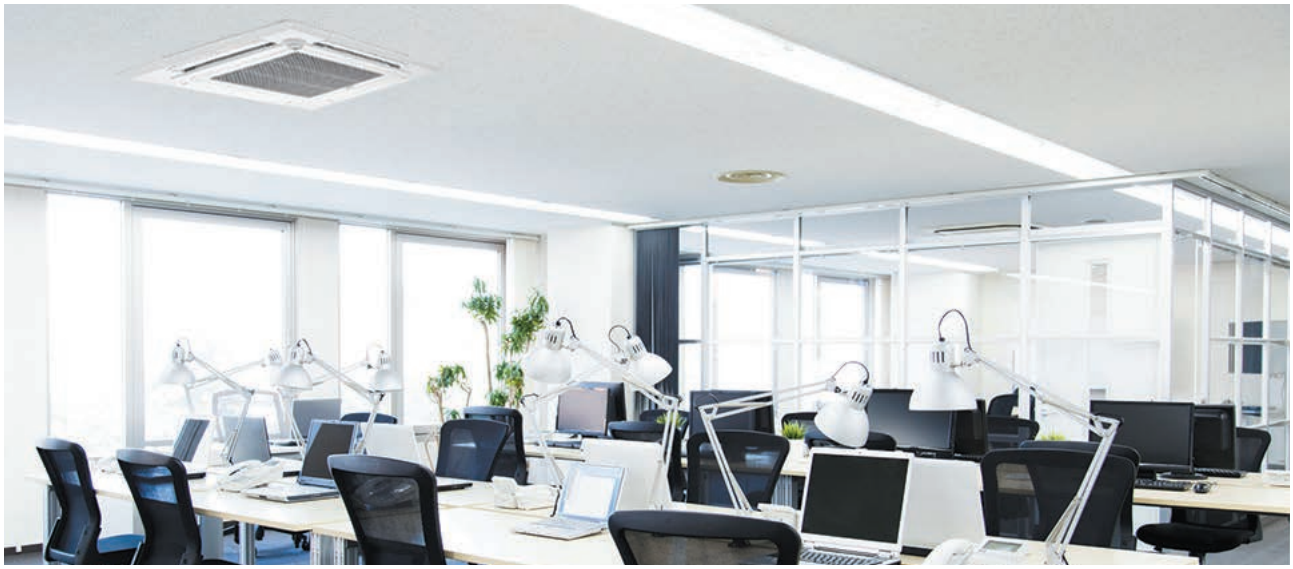


Nominal cooling capacity*	BTU/h	112,000
	kW	32.8
Nominal heating capacity*	BTU/h	61,400
	kW	18

* Refer to the specification sheet pages for nominal condition information.



Ceiling cassette type
4-way airflow type





Ceiling cassette type
4-way airflow type

PLFY-EP NEMU1-E(1)



3D i-see Sensor and versatile airflow variation provide comfort to all corners of the room.

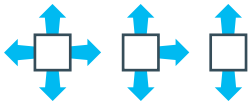
Optimum airflow

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

Three outlet options are available-bidirectional, three-way, and four-way-to suit different types of installation. Select, for example, the four-way pattern for installation in the center of the room and three-way pattern for installation in the corner.

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

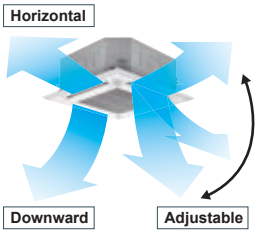
* Optional shuffle placement is required for 2- and 3-way patterns.



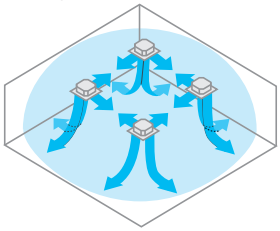
Individual vane angle settings

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

The airflow direction of each vane can be set using the wired remote controller or wireless remote controller (PAR-FL32MA).



Multi-directional air conditioning

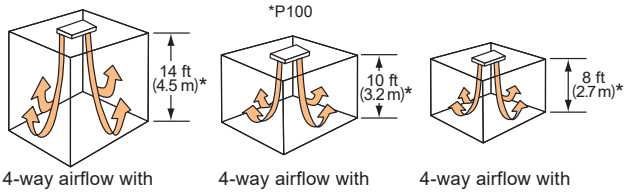


2-, 3-, 4-way airflow pattern selection + individual vane angle settings

Combinations with individual vane settings enable an optimal outlet setting for each room layout to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

Equipped with high- and low-ceiling modes

Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match the height of the room. Being able to choose the optimum airflow volume helps optimize the breezy sensation felt throughout the room.



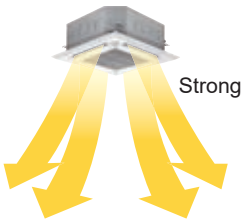
4-way airflow with high-ceiling setting | 4-way airflow with standard setting | 4-way airflow with low-ceiling setting

Airflow range

Airflow pattern \ Model	EP06–EP15			EP18–EP48		
	High-ceiling setting	Standard setting	**Low-ceiling setting**	**High-ceiling setting**	Standard setting	**Low-ceiling setting**
4-way	**11 ft (3.5 m)**	8 ft (2.7 m)	**8 ft (2.5 m)**	**14 ft (4.5 m)**	10 ft (3.2 m)	**8 ft (2.7 m)**
3-way	**11 ft (3.5 m)**	9 ft (3.0 m)	**8 ft (2.7 m)**	**14 ft (4.5 m)**	11 ft (3.6 m)	**9 ft (3.0 m)**
2-way	**11 ft (3.5 m)**	10 ft (3.3 m)	**9 ft (3.0 m)**	**14 ft (4.5 m)**	13 ft (4.0 m)	**10 ft (3.3 m)**

Automatic air-speed adjustment

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



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



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

Easy installation

Temporary hanging hook

The structure of the panel has been redesigned and is now equipped with a temporary hanging hook.
This improves 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; they simply need to be loosened. 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 has been redesigned to improve connectivity. This makes complex wiring work easier.

• Conventional model



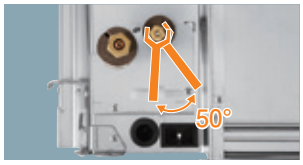
• Latest model



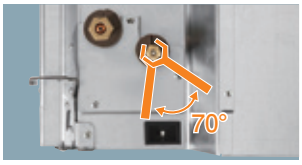
Increased space for plumbing work

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

• Conventional model



• Latest model

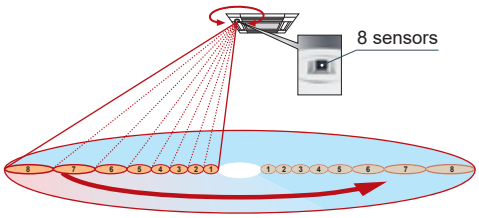


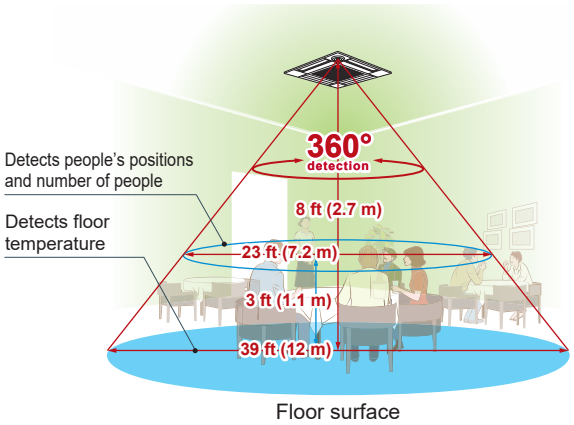
3D i-see Sensor



• Highly accurate people detection

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





*In case of an 8 ft (2.7m) ceiling

• Detects number of people

Room occupancy energy saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time to save air-conditioning power. Air-conditioning power equivalent to 33°F (1°C) is saved during both cooling and heating operations at an occupancy rate of approximately 30%. The temperature is controlled according to the number of people.

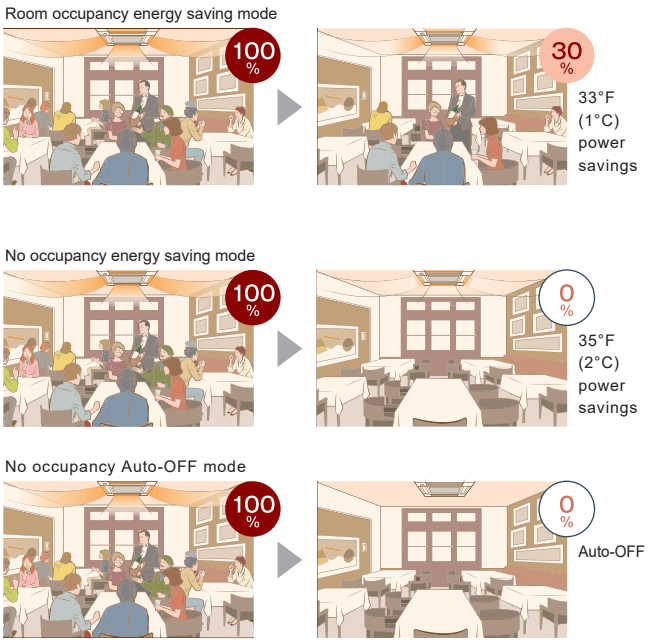
No occupancy energy saving mode

When 3D i-see Sensor detects no one 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 35°F (2°C) is saved during both cooling and heating operations. This contributes to preventing waste in terms of heating and cooling.

No occupancy Auto-OFF mode

When the room remains unoccupied for a preset length 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, from 60 to 180 minutes.

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

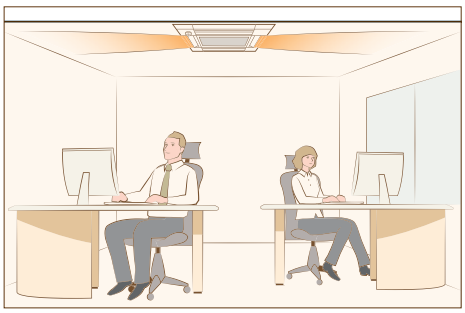


*PAR-41MAAU is required for each setting.

• Detects people's positions

Direct/indirect settings*

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

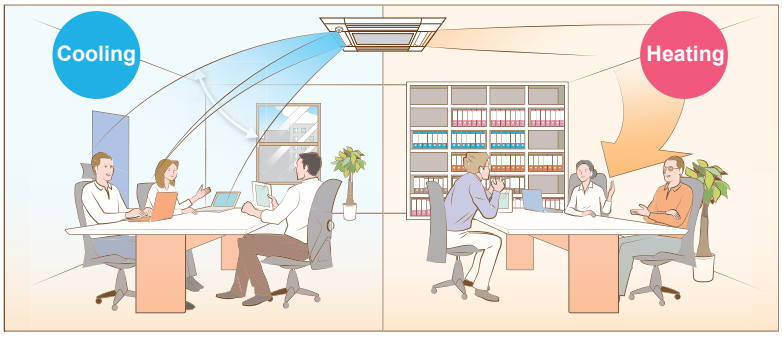


*PAR-41MAAU or PAR-SL101A-E is required for each setting.

Seasonal airflow*

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

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



*PAR-41MAAU is required for each setting.

Ceiling cassette type

4-way airflow type PLFY-EP NEMU1-E(1)

Deluxe Model			PLFY-EP06NEMU1-E	PLFY-EP08NEMU1-E	PLFY-EP12NEMU1-E	PLFY-EP15NEMU1-E
Power source			1-phase 208-230 V 60Hz			
Cooling capacity (Nominal)	*1	BTU/h	6,000	8,000	12,000	15,000
	*1	kW	1.8	2.4	3.5	4.4
	Power input	kW	0.02	0.03	0.03	0.03
	Current input	A	0.19	0.31	0.31	0.31
Heating capacity (Nominal)	*2	BTU/h	6,700	9,000	13,500	17,000
	*2	kW	2.0	2.7	4.0	5.0
	Power input	kW	0.02	0.02	0.02	0.02
	Current input	A	0.14	0.26	0.26	0.26
External finish			Galvanized steel sheet			
External dimension H x W x D		in.	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32	10-3/16 x 33-3/32 x 33-3/32
		mm	258 × 840 × 840	258 × 840 × 840	258 × 840 × 840	258 × 840 × 840
Net weight		lbs (kg)	46 (21)	46 (21)	46 (21)	46 (21)
Decoration panel	Model		PLP-41EAEU	PLP-41EAEU	PLP-41EAEU	PLP-41EAEU
	External finish		MUNSELL (1.0Y 9.2/0.2)			
	Dimension H x W x D	in.	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32
		mm	40 × 950 × 950	40 × 950 × 950	40 × 950 × 950	40 × 950 × 950
	Net weight	lbs (kg)	11 (5)	11 (5)	11 (5)	11 (5)
Heat exchanger			Cross fin	Cross fin	Cross fin	Cross fin
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External static press.	in.WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)
		Pa	0	0	0	0
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)
		Pa	0	0	0	0
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.05	0.05	0.05	0.05
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Air flow rate (Low-Mid2-Mid1-High)	cfm	300 - 424 - 459 - 494	494 - 530 - 565 - 600	494 - 530 - 565 - 600	530 - 547 - 565 - 600
		m^3/min	8.5 - 12 - 13 - 14	14 - 15 - 16 - 17	14 - 15 - 16 - 17	15 - 15.5 - 16 - 17
		L/s	142 - 200 - 217 - 233	233 - 250 - 267 - 283	233 - 250 - 267 - 283	250 - 258 - 267 - 283
Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)		dB <A>	19 - 23 - 25 - 27	27 - 29 - 30 - 31	27 - 29 - 30 - 31	28 - 29 - 30 - 31
Air filter			PP honeycomb (long life filter, anti-bacterial type)			
Refrigerant piping diameter	Liquid (R410A)	in.(mm)	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare
	Gas (R410A)	in.(mm)	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare
Field drain pipe size		in.(mm)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)

Deluxe Model			PLFY-EP18NEMU1-E1	PLFY-EP24NEMU1-E	PLFY-EP30NEMU1-E	PLFY-EP36NEMU1-E	PLFY-EP48NEMU1-E
Power source			1-phase 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU/h	18,000	24,000	30,000	36,000	48,000
	*1	kW	5.3	7.0	8.8	10.6	14.1
	Power input	kW	0.04	0.04	0.04	0.07	0.11
	Current input	A	0.43	0.43	0.45	0.73	1.01
Heating capacity (Nominal)	*2	BTU/h	20,000	27,000	34,000	40,000	54,000
	*2	kW	5.9	7.9	10.0	11.7	15.8
	Power input	kW	0.04	0.04	0.04	0.07	0.11
	Current input	A	0.38	0.38	0.40	0.68	0.96
External finish			Galvanized steel sheet				
External dimension H x W x D		in.	11-3/4 × 33-3/32 × 33-3/32	11-3/4 × 33-3/32 × 33-3/32	11-3/4 × 33-3/32 × 33-3/32	11-3/4 × 33-3/32 × 33-3/32	11-3/4 × 33-3/32 × 33-3/32
		mm	298 × 840 × 840	298 × 840 × 840	298 × 840 × 840	298 × 840 × 840	298 × 840 × 840
Net weight		lbs (kg)	55 (25)	55 (25)	55 (25)	55 (25)	55 (25)
Decoration panel	Model		PLP-41EAEU	PLP-41EAEU	PLP-41EAEU	PLP-41EAEU	PLP-41EAEU
	External finish		MUNSELL (1.0Y 9.2/0.2)				
	Dimension H x W x D	in.	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32	1-9/16 × 37-13/32 × 37-13/32
		mm	40 × 950 × 950	40 × 950 × 950	40 × 950 × 950	40 × 950 × 950	40 × 950 × 950
	Net weight	lbs (kg)	11 (5)	11 (5)	11 (5)	11 (5)	11 (5)
Heat exchanger			Cross fin	Cross fin	Cross fin	Cross fin	Cross fin
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External static press.	in.WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)
		Pa	0	0	0	0	0
		in.WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)
		Pa	0	0	0	0	0
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.12	0.12	0.12	0.12	0.12
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Air flow rate (Low-Mid2-Mid1-High)	cfm	636 - 671 - 742 - 812	636 - 671 - 742 - 812	636 - 706 - 777 - 812	777 - 883 - 989 - 1,095	777 - 953 - 1,095 - 1,236
		m^3/min	18 - 19 - 21 - 23	18 - 19 - 21 - 23	18 - 20 - 22 - 23	22 - 25 - 28 - 31	22 - 27 - 31 - 35
		L/s	300 - 317 - 350 - 383	300 - 317 - 350 - 383	300 - 333 - 367 - 383	367 - 417 - 467 - 517	367 - 450 - 517 - 583
Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)		dB <A>	28 - 30 - 32 - 34	28 - 30 - 32 - 34	28 - 31 - 33 - 35	35 - 37 - 39 - 41	36 - 39 - 42 - 45
Air filter			PP honeycomb (long life filter, anti-bacterial type)				
Refrigerant piping diameter	Liquid (R410A)	in.(mm)	1/4 (6.35) Flare	3/8 (9.52) Flare	3/8 (9.52) Flare	3/8 (9.52) Flare	3/8 (9.52) Flare
	Gas (R410A)	in.(mm)	1/2 (12.7) Flare	5/8 (15.88) Flare	5/8 (15.88) Flare	5/8 (15.88) Flare	5/8 (15.88) Flare
Field drain pipe size		in.(mm)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)	O.D. 1-1/4 (32)

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

* 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.
* 3D i-see Sensor is equipped in PLP-41EAEU as standard equipment.

Optional parts

Description	Model	Remarks
3D i-see Sensor panel	PLP-41EAEU	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48
Multi-functional casement	PAC-SJ41TM-E	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48
High-efficiency filter element	PAC-SH59KF-E	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48
Air outlet shutter plate (1 set)	PAC-SJ37SP-E	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48
Flange for fresh air intake	PAC-SH65OF-E	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48
Wireless signal receiver	PAR-SR4LU-E	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48
External heater adapter	PAC-YU25HT	EP06, EP08, EP12, EP15, EP18, EP24, EP30, EP36, EP48



Ceiling cassette type
4-way airflow type





Ceiling cassette type
4-way airflow type

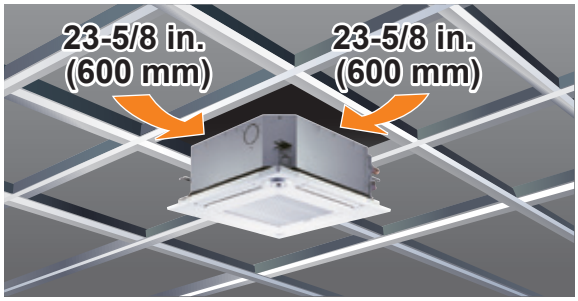
PLFY-P NFMU-E1



The compact size offers an ideal fit to grid system ceilings (23-5/8 in. (600 mm) × 23-5/8 in. (600 mm)) and provides 4-way airflows despite its size.

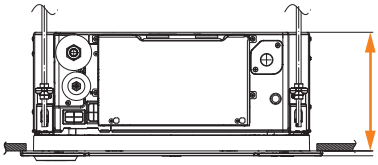
Beautiful square design

The square design matches 2 × 2 (23-5/8 in. (600 mm) × 23-5/8 in. (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.



Above-ceiling height of 9-21/32 in. (245 mm)

The above-ceiling height of 9-21/32 in. (245 mm) is top class in the industry* and fits into narrow ceiling spaces.



* As of Aug 2015, among compact 4-way cassettes for system ceilings. (In-company survey)

Compact & light-weight design

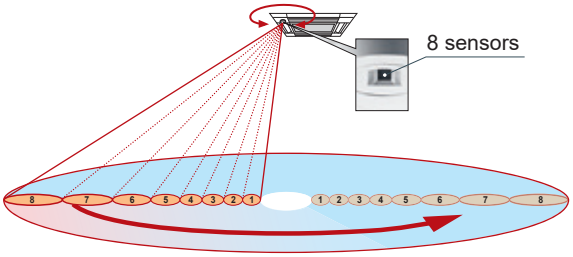
The panel weighs 5.3 lbs (2.4 kg), and the main unit weighs 28.9 lbs (13.1 kg) (P05, P08 models) or 31.3 lbs (14.2 kg) (P12, P15 and P18 models).

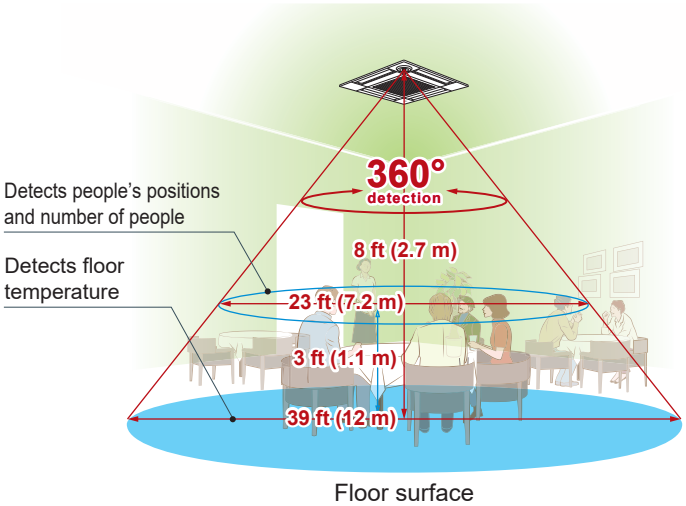
3D i-see Sensor



• Highly accurate people detection

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



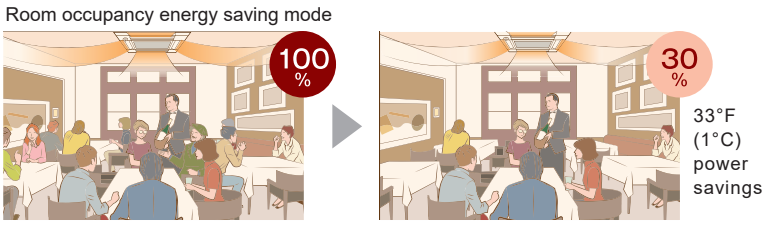


*In case of an 8 ft (2.7m) ceiling

• Detects number of people

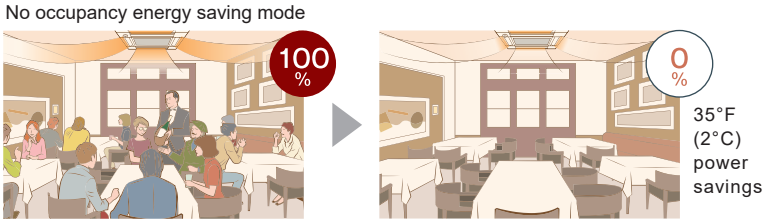
Room occupancy energy saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time to save air-conditioning power. Air-conditioning power equivalent to 33°F (1°C) is saved during both cooling and heating operations at an occupancy rate of approximately 30%. The temperature is controlled according to the number of people.



No occupancy energy saving mode

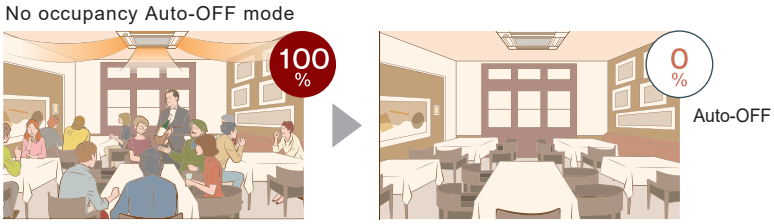
When 3D i-see Sensor detects no one in the room, the system is switched to a preset power-saving mode. If the room remains unoccupied for more than 60 minutes, air-conditioning power equivalent to 35°F (2°C) is saved during both cooling and heating operations. This contributes to preventing waste in terms of heating and cooling.



No occupancy Auto-OFF mode

When the room remains unoccupied for a preset length 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, from 60 to 180 minutes.

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

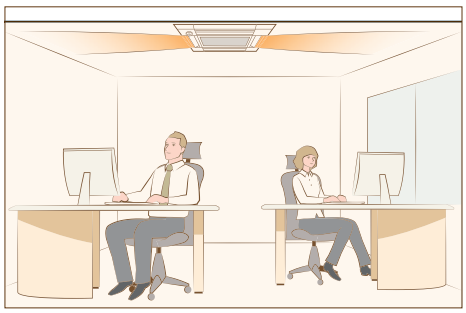


*PAR-41MAAU is required for each setting.

• Detects people's positions

Direct/indirect settings*

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



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

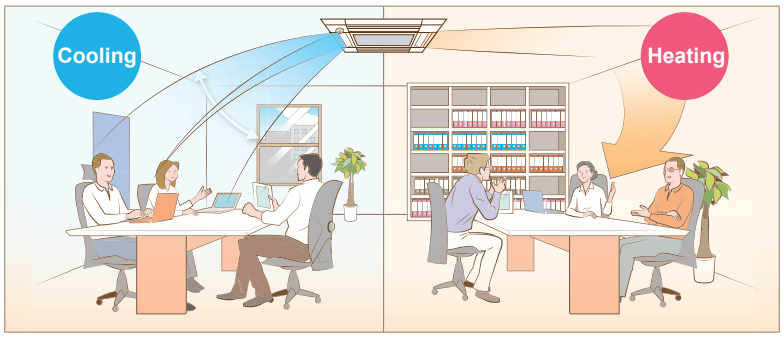
Seasonal airflow*

<When cooling>

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

<When heating>

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



*PAR-41MAAU is required for each setting.

Ceiling cassette type

4-way airflow type PLFY-P NFMU-E

Model			PLFY-P05NFMU-E	PLFY-P08NFMU-E	PLFY-P12NFMU-E	PLFY-P15NFMU-E	PLFY-P18NFMU-E
Power source			1-phase 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU/h	5,000	8,000	12,000	15,000	18,000
	*1	kW	1.4	2.3	3.5	4.3	5.2
	Power input	kW	0.02	0.02	0.02	0.03	0.04
	Current input	A	0.19	0.22	0.23	0.28	0.40
Heating capacity (Nominal)	*2	BTU/h	5,600	9,000	13,500	17,000	20,000
	*2	kW	1.6	2.6	3.9	4.9	5.8
	Power input	kW	0.02	0.02	0.02	0.03	0.04
	Current input	A	0.14	0.17	0.18	0.23	0.35
External finish			Galvanized steel sheet				
External dimension H x W x D		in.	8-3/16 × 22-7/16 × 22-7/16	8-3/16 × 22-7/16 × 22-7/16	8-3/16 × 22-7/16 × 22-7/16	8-3/16 × 22-7/16 × 22-7/16	8-3/16 × 22-7/16 × 22-7/16
		mm	208 × 570 × 570	208 × 570 × 570	208 × 570 × 570	208 × 570 × 570	208 × 570 × 570
Net weight		lbs (kg)	28.9 (13.1)	28.9 (13.1)	31.3 (14.2)	31.3 (14.2)	31.3 (14.2)
Decoration panel	Model		SLP-18FAU	SLP-18FAU	SLP-18FAU	SLP-18FAU	SLP-18FAU
	External finish		MUNSELL (1.0Y 9.2/0.2)				
	Dimension	in.	13/32 × 24-19/32 × 24-19/32	13/32 × 24-19/32 × 24-19/32	13/32 × 24-19/32 × 24-19/32	13/32 × 24-19/32 × 24-19/32	13/32 × 24-19/32 × 24-19/32
	H x W x D	mm	10 × 625 × 625	10 × 625 × 625	10 × 625 × 625	10 × 625 × 625	10 × 625 × 625
	Net weight	lbs (kg)	5.3 (2.4)	5.3 (2.4)	5.3 (2.4)	5.3 (2.4)	5.3 (2.4)
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External static press.	in.WG	0	0	0	0	0
		Pa	0	0	0	0	0
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.05	0.05	0.05	0.05	0.05
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Air flow rate (Low-Mid-High)	cfm	230 - 265 - 280	230 - 280 - 315	245 - 280 - 335	265 - 315 - 390	315 - 390 - 460
		m^3/min	6.5 - 7.5 - 8.0	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 - 133 - 150	117 - 133 - 158	125 - 150 - 183	150 - 183 - 217
Sound pressure level (Low-Mid-High) (measured in anechoic room)		dB <A>	26 - 28 - 30	26 - 30 - 33	26 - 30 - 34	28 - 33 - 39	33 - 39 - 43
Air filter			PP honeycomb fabric (long life type)				
Refrigerant piping diameter	Liquid (R410A)	in.(mm)	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare
	Gas (R410A)	in.(mm)	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare	1/2 (12.7) Flare
Field drain pipe size		in.(mm)	O.D.1-1/4 (32) (PVC pipe VP-25 connectable)				

Notes:

*1,*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80ºFD.B./67ºFW.B. (26.7ºCD.B./19.4ºCW.B.)	95ºFD.B. (35ºCD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70ºFD.B. (21.1ºCD.B.)	47ºFD.B./43ºFW.B. (8.3ºCD.B./6.1ºCW.B.)		

*PLFY-P-NFMU-E should be used with SLP-18FAU/SLP-18FAEU.

*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.

Optional parts

Description	Model	Remarks
3D i-see Sensor panel	SLP-18FAEU	P05, P08, P12, P15, P18
3D i-see Sensor corner panel	PAC-SF1ME-E	P05, P08, P12, P15, P18
Decoration panel	SLP-18FAU	P05, P08, P12, P15, P18
Wireless signal receiver	PAR-SF9FA-E	P05, P08, P12, P15, P18



Ceiling cassette type
1-way airflow type





Ceiling cassette type
1-way airflow type

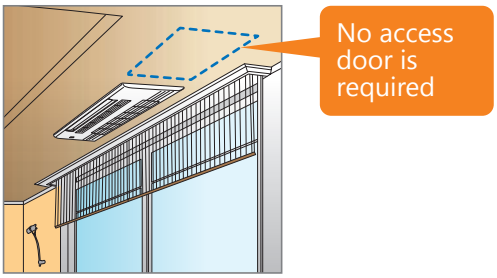
PMFY-P NBMU-E



Recommended for installation at the edges of a room.
A lightweight body ensures excellent workability.

Ceiling mounted installation

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

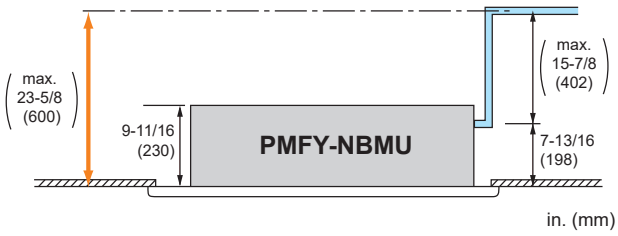


Compact size for smooth installation and maintenance

The body size of the unit has been standardized for all models at 31-31/32 in. (812 mm) for easy installation. Body weight is only 31 lbs (14 kg) for the main unit and 7 lbs (3 kg) for the panel, making this unit one of the lightest in the industry.

Drain pump

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



in. (mm)

Ceiling cassette type

1-way airflow type PMFY-P NBMU-E

Model			PMFY-P06NBMU-E	PMFY-P08NBMU-E	PMFY-P12NBMU-E	PMFY-P15NBMU-E
Power source			1-phase 208-230 V 60Hz			
Cooling capacity *1 (Nominal) *1		BTU / h	6,000	8,000	12,000	15,000
		kW	1.8	2.3	3.5	4.4
	Power input	kW	0.04	0.04	0.04	0.05
	Current input	A	0.20	0.20	0.21	0.26
Heating capacity *1 (Nominal) *1		BTU / h	6,700	9,000	13,500	17,000
		kW	2.0	2.6	4.0	5.0
	Power input	kW	0.04	0.04	0.04	0.05
	Current input	A	0.2	0.20	0.21	0.26
External finish			–			
External dimension H x W x D		in.	9-1/16 x 31-31/32 x 15-9/16	9-1/16 x 31-31/32 x 15-9/16	9-1/16 x 31-31/32 x 15-9/16	9-1/16 x 31-31/32 x 15-9/16
		mm	230 x 812 x 395	230 x 812 x 395	230 x 812 x 395	230 x 812 x 395
Net weight		lbs (kg)	31 (14)	31 (14)	31 (14)	31 (14)
Decoration panel	Model		PMP-16BMU	PMP-16BMU	PMP-16BMU	PMP-16BMU
	External finish		0.98Y 8.99/0.63			
	Dimension H x W x D	in.	1-3/16 x 39-3/8 x 18-17/32	1-3/16 x 39-3/8 x 18-17/32	1-3/16 x 39-3/8 x 18-17/32	1-3/16 x 39-3/8 x 18-17/32
		mm	30 x 1,000 x 470	30 x 1,000 x 470	30 x 1,000 x 470	30 x 1,000 x 470
	Net Weight	lbs (kg)	7(3)	7(3)	7(3)	7(3)
Heat exchanger			Cross fin			
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1	Line flow fan x 1
	External static pressure	in. WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)
		Pa	0	0	0	0
		in. WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)
		Pa	0	0	0	0
	Motor type		DC Blush-less Motor			
	Motor output	kW	0.028	0.028	0.028	0.028
	Driving mechanism		Direct-driven			
	Airflow rate *2 (Low-Mid2-Mid1-High)	cfm	230-254-283-307	258-283-304-328	258-283-304-328	272-307-343-378
		m^3 / min	6.5-7.2-8.0-8.7	7.3-8.0-8.6-9.3	7.3-8.0-8.6-9.3	7.7-8.7-9.7-10.7
		L / s	108-120-133-145	122-133-143-155	122-133-143-155	128-145-162-178
Sound pressure level *2 *3 (Low-Mid2-Mid1-High)		dB <A>	27-30-33-35 (208-230V)	32-34-36-37 (208-230V)	32-34-36-37 (208-230V)	33-35-37-39 (208-230V)
		dB <A>	–	–	–	–
		dB <A>	–	–	–	–
Air filter			PP honeycomb			
Diameter of refrigerant pipe(O.D.)	Liquid	in. (mm)	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare
	Gas	in. (mm)	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare
Field drain pipe diameter		in. (mm)	O.D. 1 (26)	O.D. 1 (26)	O.D. 1 (26)	O.D. 1 (26)

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

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

*3 It is measured in anechoic room.

Optional parts

Description	Model	Remarks
Decoration panel	PMP-16BMUW	P06, P08, P12, P15
External heater adapter	PAC-YU25HT	P06, P08, P12, P15



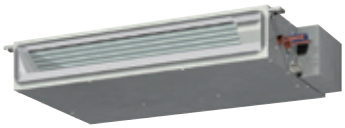
Ceiling concealed type





Low static pressure type

PEFY-P NMSU-E



- Thin design with a body height of 7-7/8 in. (200 mm) (all HP models) enables installation in a ceiling with small cavity space.
- Realize s low noise operation.
- Demonstrates a maximum external static pressure of 0.2 in.WG (50 Pa) despite its compact design.
- The drain pump can be installed or not.

Static pressure 0.02−0.20 in.WG (5−50 Pa) | **Low noise** | **Height 7-7/8 in. (200 mm)** | **Drain pump (standard) Maximum lifting height 21-21/32 in. (550 mm)** | **Air flow rate 3 levels**

P.200

Medium static pressure type

PEFY-P NMAU-E4/E5



- Thin design with a body height of 9-7/8 in. (250 mm) (all HP models) enables installation in a ceiling with small cavity space.
- The position of the inlet can be selected to be at the bottom or rear.
  * Units with a bottom inlet make more noise than those with a rear inlet. The rear inlet is recommended for rooms that need to be quiet, such as bedrooms.
- Demonstrates a maximum external static pressure of 0.60 in.WG (150 Pa) despite of its compact design.

Middle Static pressure 0.14−0.60 in.WG (35−150 Pa) | **Height 9-7/8 in. (250 mm)** | **Rear inlet Bottom inlet** | **Air flow rate 3 levels**

P.202

High static pressure type

PEFY-P NMHU-E2
PEFY-P NMHSU-E

- Maximum external static pressure of 1.0 in.WG (250 Pa) allows for more flexibility in duct design.
- Compatible with drain pumps (option) 21-21/32 in. (550 mm)





Static pressure Maximum 1.0 in.WG (250 Pa) | **Drain pump (Option) Maximum lifting height 21-11/16 in. (550 mm) of lift**

P.204

Fresh air intake type

PEFY-P NMHU-E-OA

- Fresh air intake type indoor unit
- Outlet air temperature can be controlled.
- Maximum external static pressure of 1.0 in.WG (250 Pa) allows for more flexibility in duct design.

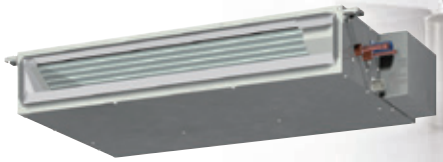


Static pressure Maximum 1.0 in.WG (250 Pa) | **Fresh air intake type** | **Drain pump Maximum lifting height 27-9/16 in. (700 mm)** | **Air flow rate 3 levels**

P.206

Ceiling concealed type
Low static pressure type

PEFY-P NMSU-E

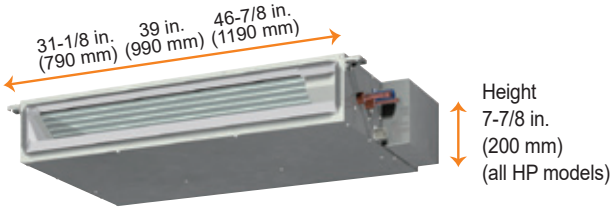




A thin body 7-7/8 in. (200 mm) in height and a maximum external static pressure rating of 0.20 in.WG (50 Pa) provide significant flexibility of design and allow installation in narrow ceiling spaces.
The lineup consists of models up to P24 with the same height.

Compact design with a height of no more than 7-7/8 in. (200 mm) (all HP models) and widths of 31-1/8 in. (790 mm) (P06-P12).

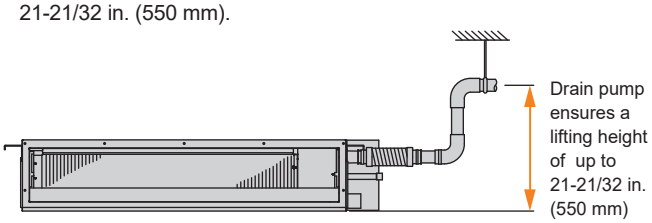
The thin body with a height of no more than 7-7/8 in. (200 mm) (all HP models) allows installation in a ceiling with small cavity space.



PEFY-P VMS1(L)-E		P15	P20	P25	P32	P40	P50	P63
Height	in. (mm)	7-7/8 (200)						
Width	in. (mm)	31-1/8 (790)				39 (990)		46-7/8 (1190)

Drain pump

The drain pump is equipped as a standard feature and eliminates the need for a drain trap. It has a maximum lifting height of 21-21/32 in. (550 mm).



Low noise design

Owing to a centrifugal fan and coil, low noise operation is realized. It is best suited to places where quietness is required.

- Sound pressure level (standard static pressure) at 0.06 in.WG (15 Pa)

dB(A)

	Capacity		P06	P08	P12	P15	P18	P24
Sound pressure level	Fan Speed	High	28	30	35	33	37	40
		Mid	24	26	28	30	34	35
		Low	22	23	23	28	30	30

Demonstrates a maximum external static pressure of 0.20 in.WG (50 Pa) despite its compact design

External static pressure can be selected from 0.02, 0.06, 0.14, 0.20 in.WG (5, 15, 35, 50 Pa) (set to 15 Pa at the time of factory shipment).

Ceiling concealed type
Low static pressure type PEFY-P NMSU-E

Model			PEFY-P06NMSU-E	PEFY-P08NMSU-E	PEFY-P12NMSU-E	PEFY-P15NMSU-E	PEFY-P18NMSU-E	PEFY-P24NMSU-E
Power source			1-phase 208 / 230V 60Hz					
Cooling capacity *1		BTU / h	6,000	8,000	12,000	15,000	18,000	24,000
(Nominal) *1		kW	1.8	2.3	3.5	4.4	5.3	7.0
	Power input	kW	0.05 / 0.05	0.06 / 0.06	0.07 / 0.07	0.07 / 0.07	0.09 / 0.09	0.12 / 0.12
	Current input	A	0.42 / 0.41	0.51 / 0.49	0.56 /0.53	0.57 / 0.55	0.74 / 0.70	0.98 / 0.93
Heating capacity *1		BTU / h	6,700	9,000	13,500	17,000	20,000	27,000
(Nominal) *1		kW	2.0	2.6	4.0	5.0	5.9	7.9
	Power input	kW	0.03 / 0.03	0.04 / 0.04	0.05 / 0.05	0.05 / 0.05	0.07 / 0.07	0.10 / 0.10
	Current input	A	0.32 / 0.31	0.41 / 0.39	0.46 / 0.43	0.47 / 0.45	0.64 / 0.60	0.88 / 0.83
External finish			Galvanized					
External dimension		in.	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 31-1/8 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 39 x 27-9/16	7-7/8 x 46-7/8 x 27-9/16
H x W x D		mm	200 x 790 x 700	200 x 790 x 700	200 x 790 x 700	200 x 990 x 700	200 x 990 x 700	200 x 1,190 x 700
Net weight		lbs (kg)	42 (19)	42 (19)	46 (20)	54 (24)	54 (24)	62 (28)
Heat exchanger			Cross fin (Aluminium fin and copper tube)					
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4
	External *3 *4 static pressure	in. WG	<0.02>-0.06-<0.14>-<0.20>					
		Pa	<5>-15-<35>-<50>					
	Motor type		DC brushless motor					
	Motor output	kW	0.096					
	Driving mechanism		Direct-driven					
	Airflow rate *2 (Low-Mid-High)	cfm	176-212-247	194-247-317	211-282-370	282-335-388	353-441-529	423-565-706
		m³ / min	5-6-7	5.5-7-9	6-8-10.5	8-9.5-11	10-12.5-15	12-16-20
		L / s	83-100-117	91-116-150	91-116-150	133-158-183	167-208-250	200-267-333
Sound pressure *2 *3 level (Low-Mid-High)		dB <A>	22-24-28	23-26-30	23-28-35	28-30-33	30-34-37	30-35-40
Air filter		in. (mm)	PP Honeycomb fabric (washable)					
Diameter of refrigerant pipe(O.D.)	Liquid	in. (mm)	ø1/4 (ø6.35) Brazed	ø1/4 (ø6.35) Brazed	ø1/4 (ø6.35) Brazed	ø1/4 (ø6.35) Brazed	ø1/4 (ø6.35) Brazed	ø3/8(ø9.52) Brazed
	Gas	in. (mm)	ø1/2 (ø12.7) Brazed	ø1/2 (ø12.7) Brazed	ø1/2 (ø12.7) Brazed	ø1/2 (ø12.7) Brazed	ø1/2 (ø12.7) Brazed	ø5/8 (ø15.88) Brazed
Field drain pipe diameter		in. (mm)	O.D. 1-1/4 (32)					

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

*2 Airflow rate / Sound pressure level are in (low-middle-high).
*3 It is measured in anechoic room.
*4 The factory setting of external static pressure is shown without < >.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Optional parts

Description	Model	Remarks
External heater adapter	PAC-YU25HT	P06, P08, P12, P15, P18, P24

Ceiling concealed type
Medium static pressure type

PEFY-P NMAU-E4/E5

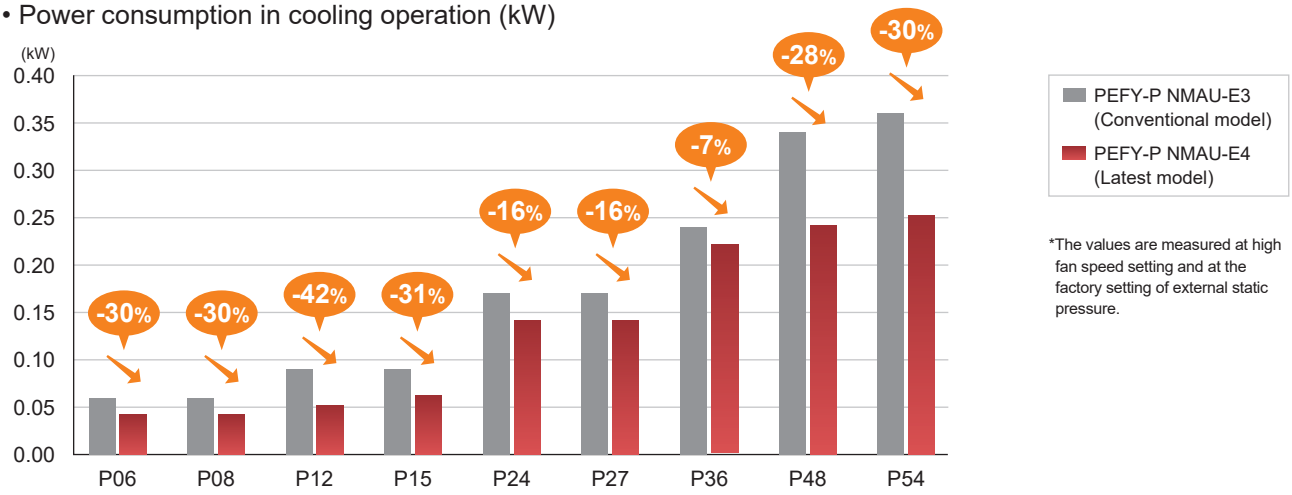


A wide range of external static pressure and the slim 9-7/8 in. (250 mm) hight body provide design flexibility for narrow ceiling spaces. An improved air pathway structure contributing to less power consumption.

Less power consumption

The shape of fan wing and casing is improved to provides more smooth air flow. Besides, the drain pump motor is changed from AC motor to high-efficient DC motor. Operation efficiency is increased by the improvements in the air flow and motor, which realize s up to 42% reduction in energy consumption (P12).

• Power consumption in cooling operation (kW)



*The values are measured at high fan speed setting and at the factory setting of external static pressure.

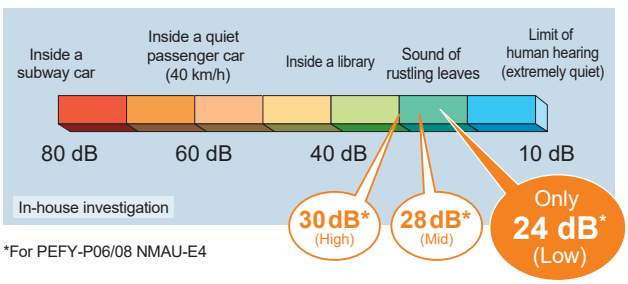
Quiet operation

Fan speed setting is available from Low-Mid-High*1. The sound pressure level*2 of P06/08 model, which is the quietest model among the new series, is as low as 24 dB at the low fan speed setting. Quiet operation contributes to a peaceful indoor environment.

*1 When fan speed setting is low, the cooling/heating capacity is subject to reduce.

*2 The values are measured in fan mode and at the factory setting of external static pressure. Operation noise may increase due to the installation environment or the operation status.

• Noise Level



*For PEFY-P06/08 NMAU-E4

External static pressure is settable up to 150 Pa.

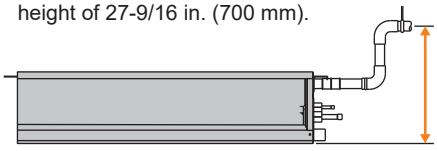
Settings range to a maximum of 150 Pa.

• External static pressure setting

Series	06	08	12	15	18	24	27	30	36	48	54
PEFY-P NMAU-E4/E5	35/50/70/100/150 Pa										

Drain pump

The drain pump is equipped as a standard feature and eliminates the need for a drain trap. It has maximum lifting height of 27-9/16 in. (700 mm).



Analog input

Analog input allows the unit to control the fan speed setting in conjunction with damper conditions.

Ceiling concealed type

Medium static pressure type PEFY-P NMAU-E4/E5

Model			PEFY-P06NMAU-E4	PEFY-P08NMAU-E4	PEFY-P12NMAU-E4	PEFY-P15NMAU-E4	PEFY-P18NMAU-E5	PEFY-P24NMAU-E4
Power source			1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz
Cooling capacity *1		BTU/h	6,000	8,000	12,000	15,000	18,000	24,000
(Nominal) *1		kW	1.8	2.3	3.5	4.4	5.3	7.0
*2	Power input	kW	0.042	0.042	0.052	0.062	0.142	0.142
*2	Current input	A	0.42/0.38	0.42/0.38	0.56/0.51	0.64/0.58	1.24/1.12	1.24/1.12
Heating capacity *3		BTU/h	6,700	9,000	13,500	17,000	20,000	27,000
(Nominal) *3		kW	2.0	2.6	4.0	5.0	5.9	7.9
*2	Power input	kW	0.040	0.040	0.050	0.060	0.140	0.140
*2	Current input	A	0.42/0.38	0.42/0.38	0.56/0.51	0.64/0.58	1.24/1.12	1.24/1.12
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension		in.	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 27-9/16 x 28-7/8	9-7/8 x 35-7/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 43-5/16 x 28-7/8
H x W x D		mm	250 x 700 x 732	250 x 700 x 732	250 x 700 x 732	250 x 900 x 732	250 x 1,100 x 732	250 x 1,100 x 732
Net weight		lbs (kg)	47 (21)	47 (21)	47 (21)	58 (26)	67 (30)	67 (30)
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4	External static press.	in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>
		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.085	0.085	0.085	0.121	0.121	0.121
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)					
		cfm	212 - 265 - 300	212 - 265 - 300	265 - 318 - 371	353 - 424 - 494	618 - 742 - 883	618 - 742 - 883
		m^3/min	6.0 - 7.5 - 8.5	6.0 - 7.5 - 8.5	7.5 - 9.0 - 10.5	10.0 - 12.0 - 14.0	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0
		L/s	100 - 125 - 142	100 - 125 - 142	125 - 150 - 175	167 - 200 - 233	292 - 350 - 417	292 - 350 - 417
Sound pressure level			(Low-Mid-High)					
(measured in anechoic room) *2		dB<A>	24-28-30	24-28-30	26-30-34	27-31-34	31-35-39	31-35-39
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	1/4 (6.35)Brazed	1/4 (6.35)Brazed	1/4 (6.35)Brazed	1/4 (6.35)Brazed	1/4 (6.35)Brazed	3/8 (9.52)Brazed
	Gas (R410A)	inch (mm)	1/2 (12.7)Brazed	1/2 (12.7)Brazed	1/2 (12.7)Brazed	1/2 (12.7)Brazed	1/2 (12.7)Brazed	5/8 (15.88)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)

Model			PEFY-P27NMAU-E4	PEFY-P30NMAU-E5	PEFY-P36NMAU-E4	PEFY-P48NMAU-E4	PEFY-P54NMAU-E4
Power source			1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz	1-phase 208/230 V 60 Hz
Cooling capacity *1		BTU/h	27,000	30,000	36,000	48,000	54,000
(Nominal) *1		kW	7.9	8.8	10.6	14.1	15.8
*2	Power input	kW	0.142	0.222	0.222	0.242	0.252
*2	Current input	A	1.24/1.12	2.01/1.82	2.01/1.82	2.06/1.87	2.29/2.07
Heating capacity *3		BTU/h	30,000	34,000	40,000	54,000	60,000
(Nominal) *3		kW	8.8	10.0	11.7	15.8	17.6
*2	Power input	kW	0.140	0.220	0.220	0.240	0.250
*2	Current input	A	1.24/1.12	2.01/1.82	2.01/1.82	2.06/1.87	2.29/2.07
External finish			Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate	Galvanized steel plate
External dimension		in.	9-7/8 x 43-5/16 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 55-1/8 x 28-7/8	9-7/8 x 63 x 28-7/8
H x W x D		mm	250 x 1,100 x 732	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,400 x 732	250 x 1,600 x 732
Net weight		lbs (kg)	67 (30)	84 (38)	84 (38)	86 (39)	91 (41)
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 3
*4	External static press.	in.WG	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>	<0.14> - 0.20 - <0.28> - <0.40> - <0.60>
		Pa	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>	<35> - 50 - <70> - <100> - <150>
	Motor Type		DC motor	DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.121	0.300	0.300	0.300	0.300
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
	Air flow rate		(Low-Mid-High)				
		cfm	618 - 742 - 883	883 - 1,077 - 1,271	883 - 1,077 - 1,271	918 - 1,112 - 1,306	989 - 1,201 - 1,413
		m^3/min	17.5 - 21.0 - 25.0	25.0 - 30.5 - 36.0	25.0 - 30.5 - 36.0	26.0 - 31.5 - 37.0	28.0 - 34.0 - 40.0
		L/s	292 - 350 - 417	417 - 508 - 600	417 - 508 - 600	433 - 525 - 617	467 - 567 - 667
Sound pressure level			(Low-Mid-High)				
(measured in anechoic room) *2		dB<A>	31-35-39	35-39-43	35-39-43	35-40-44	34-38-42
Air filter			PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.	PP honeycomb fabric.
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed
	Gas (R410A)	inch (mm)	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed
Field drain pipe size		inch (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)

Notes:

*1,*3 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

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

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

Optional parts

Description	Model	Remarks
Filter box	PAC-KE91TB-E	P06, P08, P12
	PAC-KE92TB-E	P15
	PAC-KE93TB-E	P18, P24, P27
	PAC-KE94TB-E	P30, P36, P48
	PAC-KE95TB-E	P54
External heater adapter	PAC-YU25HT	P06, P08, P12, P15, P18, P24, P27, P30, P36, P48, P54

Ceiling concealed type
High static pressure type

PEFY-P NMHU-E2
PEFY-P NMHSU-E



PEFY-P NMHU-E2



PEFY-P NMHSU-E

A wide range of external static pressure allows authentic duct air-conditioning with an elegant interior layout.

Maximum external static pressure of 1.00 in.WG [250 Pa]

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

			P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
External static pressure	208V	in.WG	0.40 - 1.00								0.20-0.40-0.60-0.80-1.00	
		Pa	100 - 250								50-100-150-200-250	
	230V	in.WG	0.60 - 1.00								0.20-0.40-0.60-0.80-1.00	
		Pa	150 - 250								50-100-150-200-250	

Reduced sound pressure level achieved with latest designed centrifugal fan

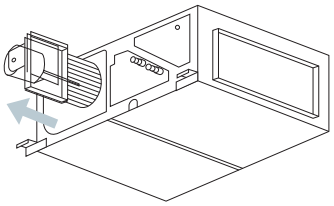
• Sound pressure level table (Standard static pressure 230 V)

dB(A)

Sound pressure level	Capacity		P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
	Fan speed	High	45	45	46	44	44	46	46	47	43	46
		Low	39	39	40	38	38	40	40	41	36	39

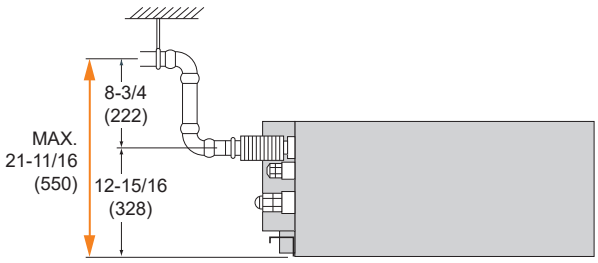
Maintenance from one side

Maintenance of the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side of the unit .



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

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



in. (mm)

Ceiling concealed type

High static pressure type PEFY-P NMHU-E2/PEFY-P NMHSU-E

Model			PEFY-P15NMHU-E2	PEFY-P18NMHU-E2	PEFY-P24NMHU-E2	PEFY-P27NMHU-E2	PEFY-P30NMHU-E2
Power source			1-phase 208/230 V 60 Hz				
Cooling capacity	*1	BTU/h	15,000	18,000	24,000	27,000	30,000
(Nominal)	*1	kW	4.4	5.3	7.0	7.9	8.8
*2 Power input (208/230 V)		kW	0.270/0.280	0.270/0.280	0.330/0.320	0.390/0.390	0.450/0.450
*2 Current input (208/230 V)		A	1.32/1.25	1.32/1.25	1.61/1.43	1.90/1.73	2.20/2.00
Heating capacity	*3	BTU/h	17,000	20,000	27,000	30,000	34,000
(Nominal)	*3	kW	5.0	5.9	7.9	8.8	10.0
*2 Power input (208/230 V)		kW	0.250/0.260	0.250/0.260	0.310/0.300	0.370/0.370	0.430/0.430
*2 Current input (208/230 V)		A	1.21/1.14	1.21/1.14	1.50/1.32	1.79/1.62	2.09/1.89
External finish			Galvanized steel plate				
External dimension		in.	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 29-3/8 x 35-7/16	15 x 40-9/16 x 35-7/16	15 x 40-9/16 x 35-7/16
H x W x D		mm	380 x 745 x 900	380 x 745 x 900	380 x 745 x 900	380 x 1,030 x 900	380 x 1,030 x 900
Net weight		lbs (kg)	98 (44)	98 (44)	100 (45)	124 (56)	124 (56)
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2
*4 External static press. (208 V)		in.WG	<0.40> - <1.00>	<0.40> - <1.00>	<0.40> - <1.00>	<0.40> - <1.00>	<0.40> - <1.00>
		Pa	<100> - <250>	<100> - <250>	<100> - <250>	<100> - <250>	<100> - <250>
(230 V)		in.WG	<0.60> - 1.00	<0.60> - 1.00	<0.60> - 1.00	<0.60> - 1.00	<0.60> - 1.00
		Pa	<150> - 250	<150> - 250	<150> - 250	<150> - 250	<150> - 250
	Motor Type		1-phase induction motor				
	Motor output	kW	0.17	0.17	0.25	0.26	0.31
	Driving mechanism		Direct-driven by motor				
	Air flow rate		(Low-High)	(Low-High)	(Low-High)	(Low-High)	(Low-High)
		cfm	353 - 494	353 - 494	477 - 671	547 - 777	636 - 883
		m³/min	10.0 - 14.0	10.0 - 14.0	13.5 - 19.0	15.5 - 22.0	18.0 - 25.0
		L/s	167 - 233	167 - 233	225 - 317	258 - 367	300 - 417
Sound pressure level		*2	(Low-High)	(Low-High)	(Low-High)	(Low-High)	(Low-High)
(measured in anechoic room) (208 V)		dB <A>	39 - 45	39 - 45	40 - 46	38 - 44	38 - 44
(230 V)		dB <A>	39 - 45	39 - 45	40 - 46	38 - 44	38 - 44
Air filter			Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.				
Diameter of refrigerant pipe	Liquid	in. (mm)	1/4 (6.35)Brazed	1/4 (6.35)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed
	Gas	in. (mm)	1/2 (12.7)Brazed	1/2 (12.7)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed
Field drain pipe size		in. (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)

Model			PEFY-P36NMHU-E2	PEFY-P48NMHU-E2	PEFY-P54NMHU-E2	PEFY-P72NMHSU-E	PEFY-P96NMHSU-E
Power source			1-phase 208/230 V 60 Hz				
Cooling capacity	*1	BTU/h	36,000	48,000	54,000	72,000	96,000
(Nominal)	*1	kW	10.6	14.1	15.8	21.1	28.1
*2 Power input (208/230 V)		kW	0.620/0.610	0.620/0.610	0.630/0.620	0.63	0.82
*2 Current input (208/230 V)		A	3.10/2.74	3.10/2.74	3.11/2.78	3.67/3.32	4.89/4.43
Heating capacity	*3	BTU/h	40,000	54,000	60,000	80,000	108,000
(Nominal)	*3	kW	11.7	15.8	17.6	23.4	31.7
*2 Power input (208/230 V)		kW	0.600/0.590	0.600/0.590	0.610/0.600	0.63	0.82
*2 Current input (208/230 V)		A	2.99/2.63	2.99/2.63	3.00/2.67	3.67/3.32	4.89/4.43
External finish			Galvanized steel plate				
External dimension		in.	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16	15 x 47-1/16 x 35-7/16	18-9/16 x 49-1/4 x 44-1/8	18-9/16 x 49-1/4 x 44-1/8
H x W x D		mm	380 x 1,195 x 900	380 x 1,195 x 900	380 x 1,195 x 900	470 x 1,250 x 1,120	470 x 1,250 x 1,120
Net weight		lbs (kg)	153 (69)	153 (69)	157 (71)	214 (97)	221 (100)
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
*4 External static press. (208 V)		in.WG	<0.40> - <1.00>	<0.40> - <1.00>	<0.40> - <1.00>	<0.20> - <0.40> - 0.60 - <0.80> - <1.00>	<0.20> - <0.40> - 0.60 - <0.80> - <1.00>
		Pa	<100> - <250>	<100> - <250>	<100> - <250>	<50> - <100> - 150 - <200> - <250>	<50> - <100> - 150 - <200> - <250>
(230 V)		in.WG	<0.60> - 1.00	<0.60> - 1.00	<0.60> - 1.00	<0.20> - <0.40> - 0.60 - <0.80> - <1.00>	<0.20> - <0.40> - 0.60 - <0.80> - <1.00>
		Pa	<150> - 250	<150> - 250	<150> - 250	<50> - <100> - 150 - <200> - <250>	<50> - <100> - 150 - <200> - <250>
	Motor Type		1-phase induction motor			1-phase DC motor	
	Motor output	kW	0.49	0.49	0.55	0.870	0.870
	Driving mechanism		Direct-driven by motor			Inverter-control	
	Air flow rate		(Low-High)	(Low-High)	(Low-High)	(Low-Mid-High)	(Low-Mid-High)
		cfm	936 - 1,342	936 - 1,342	989 - 1,412	1,766 - 2,154 - 2,542	2,048 - 2,507 - 2,966
		m³/min	26.5 - 38.0	26.5 - 38.0	28.0 - 40.0	50.0 - 61.0 - 72.0	58.0 - 71.0 - 84.0
		L/s	442 - 633	442 - 633	467 - 667	833 - 1,017 - 1,200	967 - 1,183 - 1,400
Sound pressure level		*2	(Low-High)	(Low-High)	(Low-High)	(Low-Mid-High)	(Low-Mid-High)
(measured in anechoic room) (208 V)		dB <A>	40 - 46	40 - 46	41 - 47	36 - 39 - 43	39 - 42 - 46
(230 V)		dB <A>	40 - 46	40 - 46	41 - 47	36 - 39 - 43	39 - 42 - 46
Air filter			Option:Synthetic fiber unwoven cloth filter (long life filter) and filter box are recommended.				
Diameter of refrigerant pipe	Liquid	in. (mm)	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed
	Gas	in. (mm)	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed	3/4 (19.05)Brazed	7/8 (22.22)Brazed
Field drain pipe size		in. (mm)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)	O.D.1-1/4 (32)

Notes:

*1,*3 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

*2 The values are measured at the rated external static pressure.

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

Optional parts

Description	Model	Applicable capacity	Remarks
Drain pump	PAC-KE05DM-F	P72, P96	-
Long life filter	PAC-KE86LAF	P15, P18, P24	Filter is NOT attached as standard
	PAC-KE88LAF	P27, P30	
	PAC-KE89LAF	P36, P48, P54	
	PAC-KE85LAF	P72, P96	

Description	Model	Applicable capacity	Remarks
Filter box	PAC-KE63TB-F	P15, P18, P24	Necessary when long life filter is used
	PAC-KE80TB-F	P27, P30	
	PAC-KE140TB-F	P36, P48, P54	
	PAC-KE250TB-F	P72, P96	
External heater adapter	PAC-YU25HT	P15, P18, P24, P27 P30, P36, P48, P54, P72, P96	-

Ceiling concealed type
Fresh air intake type

PEFY-P NMHU-E-OA



PEFY-P36/48NMHU-E-OA



PEFY-P72/96NMHU-E-OA

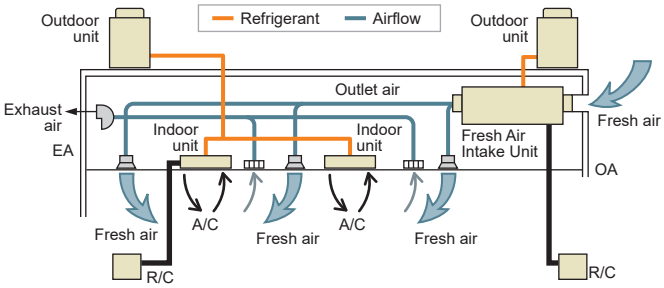


An outlet air temperature control function contributes to enhancing the quality of fresh air intake

Enables intake of outside air

Fresh air can be taken in by using the temperature control function. Fresh air intake is available for each air-conditioning zone.

* Fresh air intake type indoor units are designed to supply pretreated outside air to the room. The feature should not be used to control internal thermal load.



Controllable outlet air temperature

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

* Outlet air temperature may fluctuate, depending on the outside air temperature and the operating status of indoor and outdoor units.
* A PAR-30MAOA is required to change the settings of PEFY-P NMHU-E-OA from a remote controller.
* An AE-200A Ver. 7.7 or later is required to operate PEFY-P NMHU-E-OA from a system controller.

Remote Controller (PAR-30MAOA)

Easy-to-use MA remote controller featuring full dot LCD screen with backlight



Three patterns of external static pressure and fan speed settings

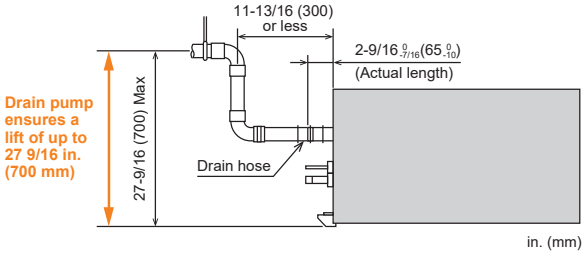
Our lineup includes models from 36,000 to 96,000 BTU/h. Three patterns of external static pressure and fan speed settings (350-1,200 cfm) are available to suit your air-conditioning needs.

* The "very low mode" is available for use in heating mode when outside temperature is between 23°F(-5°C) and 14°F(-10°C).

Model	P36	P48	P72	P96
External static pressure (in.WG)	0.60-0.80-1.00			
Fan speed *	Low-Mid-High			
Airflow rate (cfm)	350-400-450	500-550-600	700-800-900	1,000-1,100-1,200

Built-in drain pump

This indoor unit contains a built-in drain pump having a lift of 27-9/16 in. (700 mm) for greater design flexibility.



Ceiling concealed type
Fresh air intake type PEFY-P NMHU-E-OA

Model			PEFY-P36NMHU-E-OA	PEFY-P48NMHU-E-OA	PEFY-P72NMHU-E-OA	PEFY-P96NMHU-E-OA
Power source			1-phase 208-230V 60Hz			
Cooling capacity *1		BTU/h	36,000	48,000	72,000	96,000
(Nominal) *1		kW	10.5	14.1	21.1	28.1
*2	Power input	kW	0.13	0.18	0.22	0.32
*2	Current input (208 V)	A	1.25	1.59	1.86	2.56
Temp. range of cooling			63°F(17.2°C)DB ~ 118°F(47.7°C)DB Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 63°F(17.2°C)DB The fan speed automatically runs at a very low speed if the outdoor temperature is higher than 109°F(43°C)DB.			
Heating capacity *3		kW	6.2	8.2	12.6	16.7
(Nominal) *3		BTU/h	21,000	28,000	43,000	57,000
*2	Power input	kW	0.14	0.20	0.24	0.33
*2	Current input (208 V)	A	1.09	1.46	1.70	2.42
Temp. range of heating			14°F(-10°C)DB ~ 59°F(15°C)DB Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 59°F(15.0°C)DB.			
External finish			Galvanized	Galvanized	Galvanized	Galvanized
External dimension		in.	15×47-1/16×35-7/16	15×47-1/16×35-7/16	18-9/16×49-1/4×44-1/8	18-9/16×49-1/4×44-1/8
H x W x D		mm	380×1,195×900	380×1,195×900	470×1,250×1,120	470×1,250×1,120
Net weight		lbs (kg)	109 (49)	109 (49)	177 (80)	183 (83)
Heat exchanger			Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)	Cross fin (Aluminium fin and copper tube)
FAN	Type x Quantity		Sirocco fan × 1	Sirocco fan × 1	Sirocco fan × 2	Sirocco fan × 2
*4 *5	External static pressure	in.WG	0.60-0.80-1.00	0.60-0.80-1.00	0.60-0.80-1.00	0.60-0.80-1.00
		Pa	<150>-200-<250>	<150>-200-<250>	<150>-200-<250>	<150>-200-<250>
	Motor Type		DC motor	DC motor	DC motor	DC motor
	Motor output	kW	0.244	0.244	0.375	0.375
	Driving mechanism		Direct-driven by motor	Direct-driven by motor	Direct-driven by motor	Direct-driven by motor
*5			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
	Air flow rate	cfm	350-400-450	500-550-600	700-800-900	1000-1100-1200
		m^3/min	9.9-11.3-12.7	14.2-15.6-17.0	19.8-22.7-25.5	28.3-31.1-34.0
		L/s	165-188-212	237-260-283	330-378-425	472-518-567
*6	Airflow rate (Very low)	cfm	327	428	700	790
		m^3/min	9.1	11.9	19.8	22.4
		L/s	152	198	330	373
Sound pressure level			(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		dB <A>	35-38-40	38-40-41	34-38-42	39-41-44
Air filter			Field supply	Field supply	Field supply	Field supply
Refrigerant pipe diameter	Liquid	in. (mm)	ø3/8 (ø9.52) Brazed	ø3/8 (ø9.52) Brazed	ø3/8 (ø9.52) Brazed	ø3/8 (ø9.52) Brazed
	Gas	in. (mm)	ø5/8 (ø15.88) Brazed	ø5/8 (ø15.88) Brazed	ø3/4 (ø19.05) Brazed	ø7/8 (ø22.22) Brazed
Field drain pipe size		in. (mm)	O.D ø1-1/4 (32) ×2	O.D ø1-1/4 (32) ×2	O.D ø1-1/4 (32) ×2	O.D ø1-1/4 (32) ×2

Notes:

*1,*3 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	91ºFD.B./82ºFW.B. (32.7ºCD.B./27.8ºCW.B.)	91ºFD.B. (32.7ºCD.B.)	25ft. (7.5m)	0ft. (0m)
Heating	32ºFD.B./27ºFW.B. (0ºCD.B./-2.9ºCW.B.)	32ºFD.B./27ºFW.B. (0ºCD.B./-2.9ºCW.B.)		

*2 The value are measured at the factory setting of airflow mode and external static pressure.
*4 The factory setting of airflow mode and external static pressure mode is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
*5 If the airflow rate is over the usable range, dew drop can be caused from the air outlet and the air flow rate is changed automatically because of the output down by the fan motor control. If the air flow rate is less than the usable range, condensation from the unit surface can be caused.
*6 The very low mode is not selectable from the remote controller. The unit will automatically operate in the very low mode when the outside temperature exceeds 109°F(42.8°C) in the Cooling mode or drops below 14°F(-10°C) in the Heating mode.
- The combination of fresh air intake type indoor units with other types of indoor units to handle internal thermal load which may cause the conflict of operation mode. It is not recommended when fresh air intake type indoor unit is connected to the Y or WY series.
- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the discharge temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- Fresh air intake type indoor units cannot be connected to PUMY and cannot be connected to an outdoor unit together with PWFY series.
- The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below 23°F(-5°C)).
- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
- The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit.
- The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.
- The fan temporary stops during defrost.
- The cooling and heating capacities are the maximum capacities that were obtained by operating in the above air conditions and with a refrigerant pipe of about 25 ft(7.5 m) and a level difference of 0 m.
- The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information in DATA BOOK for the details.
- Thermo off (Fan) operation automatically starts either when temperature is lower than 63°F(17.2°C)DB in cooling mode or when the temperature exceeds 59°F(15.0°C)DB in heating mode.
- Dry mode is not available.
- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
- Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.
- Before switching ducts by using a damper, be sure to bring the indoor unit to a stop to prevent malfunction. Make sure to set the static pressure in all ducts within the range specified in the P-Q line diagram in the DATA BOOK.
- This indoor unit does not interlock with an electric heater.
- Regarding P96NMHU-E-OA, the low notch airflow rate is different from the spec value when the external static pressure setting is set to 150 Pa. See "Fan characteristics curves" in DATA BOOK for the details.

Multi-position air handler

PVFY-P NAMU-E1



Multi-position capabilities allow for installation in vertical, horizontal left, or horizontal right positions with no additional kit requirements, even for down-flow configuration

PVFY multi-position air handlers can be connected to a system with other CITY MULTI indoor units for system design flexibility. The multi-position design is suitable for various applications, requiring no additional kits even for a down-flow configuration, making it ideal for installation in a closet, attic, or equipment room.
The PVFY offers quiet operation with a variable speed, highly efficient DC motor featuring a forward curved blower, allowing constant personalized comfort at three different fan speeds and external static pressures.

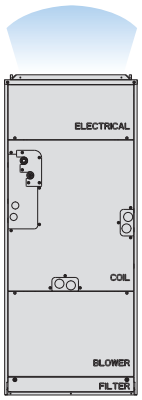
Lineup from P08 (8000BTU)

The broad lineup from P08 to P54 offers flexible proposals tailored to diverse customer needs and applications.

Four installation position options

The unit can be installed in one of four different positions to suit the space it is installed in. For example, install the unit vertically to minimize its footprint, or install it horizontally in a ceiling space.

- Vertical airflow



- Horizontal left airflow



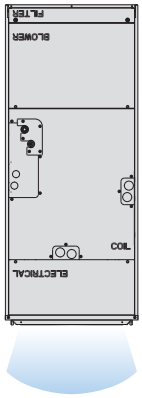
Fan assembly rotation required

- Horizontal right airflow



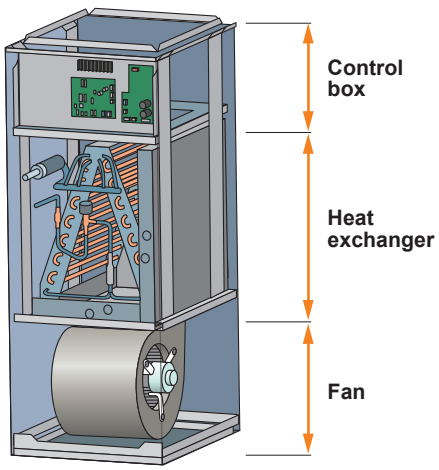
Fan assembly rotation not required

- Down flow



Easy maintenance

The control box, heat exchanger, and fan are in separate sections, for easy maintenance.



Selectable external static pressures up to 0.80

- External static pressure setting

Series	08	12	18	24	30	36	48	54
PVFY-P NAMU-E1	0.30/0.50/0.80 in.WG							
	75/125/200 Pa							

Multi-position air handler PVFY-P NAMU-E1

Model			PVFY-P08NAMU-E1	PVFY-P12NAMU-E1	PVFY-P18NAMU-E1	PVFY-P24NAMU-E1
Power source			1-phase 208/230 V 60 Hz			
Cooling capacity *1		BTU/h	8,000	12,000	18,000	24,000
		kW	2.3	3.5	5.3	7.0
*2	Power input	kW	0.080	0.080	0.130	0.180
*2	Current input	A	0.80/0.70	0.80/0.70	1.20/1.10	1.60/1.40
Heating capacity *1		BTU/h	9,000	13,500	20,000	27,000
		kW	2.6	4.0	5.9	7.9
*2	Power input	kW	0.080	0.080	0.130	0.180
*2	Current input	A	0.80/0.70	0.80/0.70	1.20/1.10	1.60/1.40
External finish			Black galvanized steel cabinet			
External dimension		in.	50-1/4 x 17 x 21-5/8	50-1/4 x 17 x 21-5/8	50-1/4 x 17 x 21-5/8	50-1/4 x 17 x 21-5/8
H x W x D		mm	1,275 x 432 x 548	1,275 x 432 x 548	1,275 x 432 x 548	1,275 x 432 x 548
Net weight		lbs (kg)	113 (51)	113 (51)	113 (51)	113 (51)
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1
	External static press. *3	in.WG	<0.30> - 0.50 - <0.80>	<0.30> - 0.50 - <0.80>	<0.30> - 0.50 - <0.80>	<0.30> - 0.50 - <0.80>
		Pa	<75> - 125 - <200>	<75> - 125 - <200>	<75> - 125 - <200>	<75> - 125 - <200>
	Motor Type		DC motor			
	Motor output	kW	0.121	0.121	0.121	0.121
	Driving mechanism		Direct-driven by motor			
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		cfm	280 - 340 - 400	280 - 340 - 400	410 - 497 - 585	515 - 625 - 735
		m^3/min	7.9 - 9.6 - 11.3	7.9 - 9.6 - 11.3	11.6 - 14.1 - 16.6	14.6 - 17.7 - 20.8
		L/s	132 - 160 - 188	132 - 160 - 188	193 - 235 - 277	243 - 295 - 347
Sound pressure level		*2	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(measured in anechoic room)		dB <A>	27-31-35	27-31-35	28-32-36	30-34-38
Air filter			PP honeycomb fabric.			
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)	in. (mm)	1/4 (6.35)Brazed	1/4 (6.35)Brazed	1/4 (6.35)Brazed	3/8 (9.52)Brazed
	Gas (R410A)	in. (mm)	1/2 (12.7)Brazed	1/2 (12.7)Brazed	1/2 (12.7)Brazed	5/8 (15.88)Brazed
Field drain pipe size		in. (mm)	3/4 (19.05) FPT	3/4 (19.05) FPT	3/4 (19.05) FPT	3/4 (19.05) FPT

Model			PVFY-P30NAMU-E1	PVFY-P36NAMU-E1	PVFY-P48NAMU-E1	PVFY-P54NAMU-E1
Power source			1-phase 208/230 V 60 Hz			
Cooling capacity *1		BTU/h	30,000	36,000	48,000	54,000
		kW	8.8	10.6	14.1	15.8
*2	Power input	kW	0.210	0.340	0.420	0.480
*2	Current input	A	2.00/1.70	3.00/2.70	3.50/3.30	3.90/3.70
Heating capacity *1		BTU/h	34,000	40,000	54,000	60,000
		kW	10.0	11.7	15.8	17.6
*2	Power input	kW	0.210	0.340	0.420	0.480
*2	Current input	A	2.00/1.70	3.00/2.70	3.50/3.30	3.90/3.70
External finish			Black galvanized steel cabinet			
External dimension		in.	54-1/4 x 21 x 21-5/8	54-1/4 x 21 x 21-5/8	59-1/2 x 25 x 21-5/8	59-1/2 x 25 x 21-5/8
H x W x D		mm	1,378 x 534 x 548	1,378 x 534 x 548	1,511 x 635 x 548	1,511 x 635 x 548
Net weight		lbs (kg)	141 (64)	141 (64)	172 (78)	172 (78)
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 1
	External static press. *3	in.WG	<0.30> - 0.50 - <0.80>	<0.30> - 0.50 - <0.80*4>	<0.30> - 0.50 - <0.80>	<0.30> - 0.50 - <0.80*4>
		Pa	<75> - 125 - <200>	<75> - 125 - <200*4>	<75> - 125 - <200>	<75> - 125 - <200*4>
	Motor Type		DC motor			
	Motor output	kW	0.244	0.244	0.43	0.43
	Driving mechanism		Direct-driven by motor			
	Air flow rate		(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
		cfm	613 - 744 - 875	767 - 931 - 1,095	980 - 1,190 - 1,400	1,040 - 1,262 - 1,485
		m^3/min	17.3 - 21.1 - 24.8	21.7 - 26.4 - 31.0	27.7 - 33.7 - 39.6	29.4 - 35.7 - 42.0
		L/s	288 - 352 - 413	362 - 440 - 517	462 - 562 - 660	490 - 595 - 700
Sound pressure level		*2	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)	(Low-Mid-High)
(measured in anechoic room)		dB <A>	32-36-40	35-39-43	35-39-43	36-40-44
Air filter			PP honeycomb fabric.			
Connectable outdoor unit			R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI	R410A CITY MULTI
Diameter of refrigerant pipe	Liquid (R410A)	in. (mm)	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed	3/8 (9.52)Brazed
	Gas (R410A)	in. (mm)	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed	5/8 (15.88)Brazed
Field drain pipe size		in. (mm)	3/4 (19.05) FPT	3/4 (19.05) FPT	3/4 (19.05) FPT	3/4 (19.05) FPT

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

*2 The values are measured at the rated external static pressure.
*3 The rated external static pressure is shown without < >.
*4 Maximum external static pressure in case of downflow for PVFY-P36: 0.60 in.WG/150 Pa.
Maximum external static pressure in case of downflow for PVFY-P54: 0.70 in.WG/175 Pa.

Optional parts

Description	Model	Remarks
External heater adapter	PAC-YU25HT	P08, P12, P18, P24, P30, P36, P48, P54



Ceiling suspended type





Ceiling suspended type

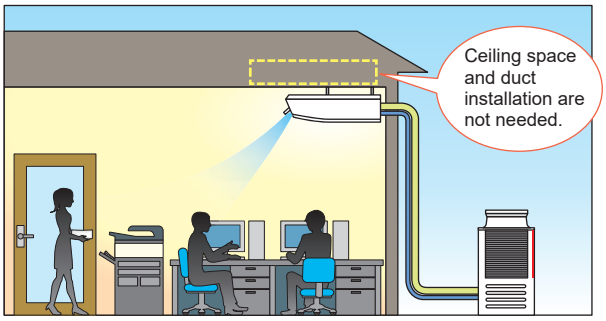
PCFY-P NKMU



A stylish indoor unit design and optional drain pump expand installation possibilities.

Easy installation

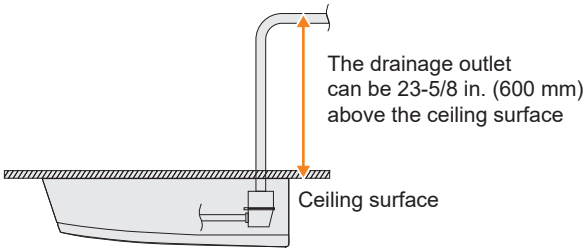
The ceiling suspended cassette can easily be installed without requiring ductwork, even if the ceiling does not have sufficient space.



Drain pumps can be supported throughout the horsepower range. (Optional)

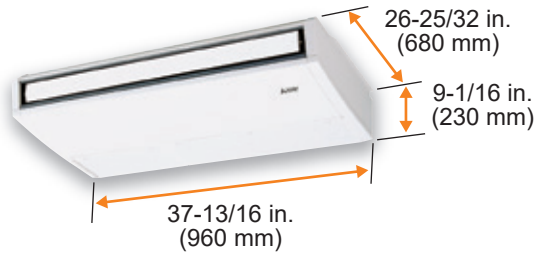
The optional drain pump allows the drain connection to be raised as high as 23-5/8 in. (600 mm), expanding flexibility in choosing an installation location.

• Drain pump installation



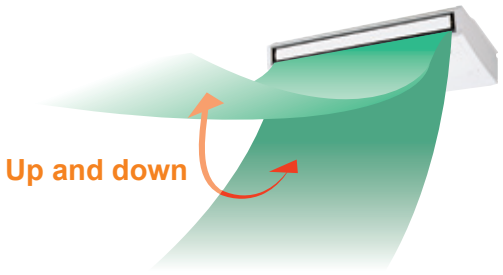
A height of 9-1/16 in. (230 mm) for harmony with the interior design

Sleek and slim with stylishly curved lines, the PCFY-Series blends right into any interior.



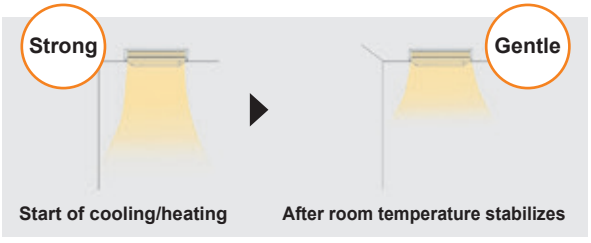
Auto vane control

Outlet vanes can be moved up and down using the remote controller. This improved airflow control feature helps eliminate the cold draft feeling.



Automatic air-speed adjustment

An automatic air-speed mode automatically adjusts airflow speed 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.



Ceiling suspended type PCFY-P NKMU-E

Model			PCFY-P15NKMU-E	PCFY-P24NKMU-E	PCFY-P30NKMU-E	PCFY-P36NKMU-E
Power source			1-phase 208/230 V 60Hz			
Cooling capacity *1		BTU / h	15,000	24,000	30,000	36,000
(Nominal) *1		kW	4.4	7.0	8.8	10.6
	Power input	kW	0.03	0.04	0.09	0.11
	Current input	A	0.35	0.41	0.83	0.97
Heating capacity *1		BTU / h	17,000	27,000	34,000	40,000
(Nominal) *1		kW	5.0	7.9	10.0	11.7
	Power input	kW	0.03	0.04	0.09	0.11
	Current input	A	0.35	0.41	0.83	0.97
External finish			MUNSELL (6.4Y 8.9/0.4)			
External dimension		in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4	9-1/16 x 63 x 26-3/4
H x W x D		mm	230 x 960 x 680	230 x 1,280 x 680	230 x 1,600 x 680	230 x 1,600 x 680
Net weight		lbs (kg)	53 (24)	71 (32)	79 (36)	84 (38)
Heat exchanger			Cross fin (Aluminum fin and copper tube)			
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 4	Sirocco fan x 4
	External static pressure	in. WG	0.000 (208V)	0.000 (208V)	0.000 (208V)	0.000 (208V)
		Pa	0	0	0	0
		in. WG	0.000 (230V)	0.000 (230V)	0.000 (230V)	0.000 (230V)
		Pa	0	0	0	0
	Motor type		DC motor			
	Motor output	kW	0.090	0.095	0.160	0.160
	Driving mechanism		Direct-driven			
	Airflow rate *2 (Low-Mid2-Mid1-High)	cfm	353-388-424-459	494-530-565-636	703-777-883-989	742-847-953-1,095
		m³ / min	10-11-12-13	14-15-16-18	20-22-25-28	21-24-27-31
		L / s	167-183-200-217	233-250-267-300	333-367-417-467	350-400-450-517
Sound pressure level *2 *3 (Low-Mid2-Mid1-High)		dB <A>	29-32-34-36 (208-230V)	31-33-35-37 (208-230V)	34-37-40-43 (208-230V)	36-39-42-44 (208-230V)
		dB <A>	–	–	–	–
		dB <A>	–	–	–	–
Air filter			PP honeycomb (anti-virus type)			
Diameter of refrigerant pipe(O.D.)	Liquid	in. (mm)	ø1/4 (ø6.35) Flare	ø3/8 (ø9.52) Flare	ø3/8 (ø9.52) Flare	ø3/8 (ø9.52) Flare
	Gas	in. (mm)	ø1/2 (ø12.7) Flare	ø5/8 (ø15.88) Flare	ø5/8 (ø15.88) Flare	ø5/8 (ø15.88) Flare
Field drain pipe diameter		in. (mm)	O.D. 1 (26)	O.D. 1 (26)	O.D. 1 (26)	O.D. 1 (26)

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

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

*3 It is measured in anechoic room.

Optional parts

Description	Model	Remarks
i-see Sensor	PAC-SH91MK-E	P15, P24, P30, P36
i-see Sensor & wireless remote controller kit	PAR-SA92MW-E	P15, P24, P30, P36
Wireless remote controller kit	PAR-SL93B-E	P15, P24, P30, P36
Drain pump	PAC-SH83DM-E	P15
	PAC-SH84DM-E	P24, P30, P36
High efficiency filter element	PAC-SH88KF-E	P15
	PAC-SH89KF-E	P24
	PAC-SH90KF-E	P30, P36
External heater adapter	PAC-YU25HT	P15, P24, P30, P36



Wall-mounted type





Wall-mounted type

PKFY-P NLMU-E
PKFY-P NKMU-E2


PKFY-P04-12NLMU-E


PKFY-P15/P18NLMU-E


PKFY-P24/P30NKMU-E2

Its sophisticated design matches any room interior without disturbing the atmosphere of the room.

A design that matches any room interior (NLMU model)

A sharp and simple form combines beauty and function. The simple square design harmonizes beautifully with the straight lines of the walls, floor and ceiling. The white body color has been adopted to enhance the beauty and comfort of a room without disturbing its atmosphere.

Conventional model


PKFY-P NBMU <P06>


PKFY-P NHMU <P08–P18>

Latest model


PKFY-P NLMU <P04-P12>

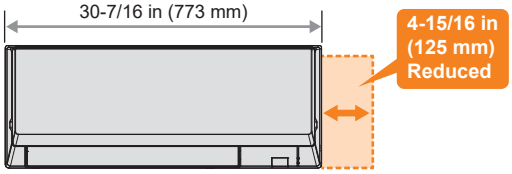

PKFY-P NLMU <P15/18>

Lineup

The broad lineup from P04 to P30 offers flexible proposals tailored to diverse customer needs and applications.

		P04	P06	P08	P12	P15	P18	P24	P30
Conventional	NBMU		●						
Conventional	NHMU			●	●	●	●		
Latest	NLMU	●	●	●	●	●	●		
Latest	NKMU							●	●

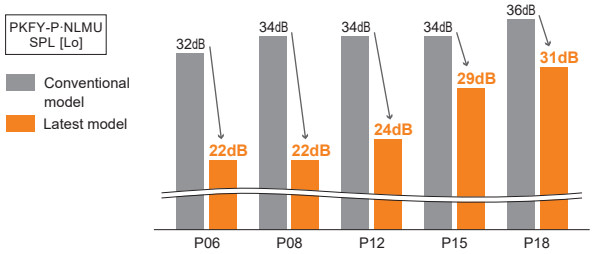
• Compact indoor units (P08/12)



*Compared to the conventional model (PKFY-P NHMU)

Reduced noise level

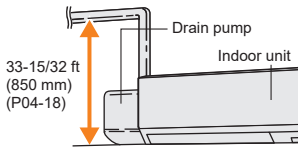
The noise level has been reduced compared to the conventional model (PKFY-P NBMU/NHMU) by improving the unit structure, including the line flow fan.



*Measurement condition (Fan speed: Low)
*Measured in an anechoic room

Optional drain pump

The optional drain pump allows the drain connection to be raised as high as 33-15/32 ft (850 mm) (P04-18), allowing more flexibility in piping layout design.



Improved airflow control

The NLMU model provides 4 fan speeds and an auto mode. Additionally, the vane angle can be set to five steps. This enables air conditioning as desired.

		Fan Speed	Vane Control	
			Vane Angle	Swing mode
Conventional	PKFY-P** NBMU	4 speeds	4 steps	----
Conventional	PKFY-P** NHMU	3 speeds + AUTO	5 steps	✓
Latest	PKFY-P** NLMU-E	4 speeds + AUTO	5 steps	✓

Wall-mounted type PKFY-P NLMU-E

Model			PKFY-P04NLMU-E	PKFY-P06NLMU-E	PKFY-P08NLMU-E
Power source			1-phase 208-230V 60Hz		
Cooling capacity (Nominal)	*1	BTU/h	4,000	6,000	8,000
	*1	kW	1.1	1.8	2.3
	Power input	kW	0.02	0.02	0.03
	Current input	A	0.20	0.20	0.25
Heating capacity (Nominal)	*1	BTU/h	4,500	6,700	9,000
	*1	kW	1.3	2.0	2.6
	Power input	kW	0.01	0.01	0.02
	Current input	A	0.15	0.15	0.20
External finish			Plastic, MUNSELL (0.7PB 9.2/0.4)		
External dimension H x W x D		in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32
		mm	299 x 773 x 237	299 x 773 x 237	299 x 773 x 237
Net weight		lbs (kg)	23.6 (10.7)	24.5 (11.1)	24.5 (11.1)
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1
	External static pressure	in.WG	0	0	0
		Pa	0	0	0
	Motor type		DC motor		
	Motor output	kW	0.030	0.030	0.030
	Driving mechanism		Direct-driven		
	Airflow rate		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		cfm	117-124-134-148	141-155-173-191	141-162-191-237
		m^3/min	3.3-3.5-3.8-4.2	4.0-4.4-4.9-5.4	4.0-4.6-5.4-6.7
		L/s	55-58-63-70	67-73-82-90	67-77-90-112
Sound pressure level	*2		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		dB <A>	22-24-26-28	22-26-29-31	22-27-31-35
Air filter			PP honeycomb		
Diameter of refrigerant pipe	Liquid (R410A)	in.(mm)	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare
	Gas (R410A)	in.(mm)	1/2 (12.70) Flare	1/2 (12.70) Flare	1/2 (12.70) Flare
Field drain pipe size		in.(mm)	I.D. 5/8 (16)	I.D. 5/8 (16)	I.D. 5/8 (16)
Remarks			* 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.		

Model			PKFY-P12NLMU-E	PKFY-P15NLMU-E	PKFY-P18NLMU-E
Power source			1-phase 208-230V 60Hz		
Cooling capacity (Nominal)	*1	BTU/h	12,000	15,000	18,000
	*1	kW	3.5	4.4	5.3
	Power input	kW	0.04	0.04	0.05
	Current input	A	0.35	0.35	0.45
Heating capacity (Nominal)	*1	BTU/h	13,500	17,000	20,000
	*1	kW	4.0	5.0	5.9
	Power input	kW	0.03	0.03	0.04
	Current input	A	0.30	0.30	0.40
External finish			Plastic, MUNSELL (0.7PB 9.2/0.4)		
External dimension H x W x D		in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 35-3/8 x 9-11/32	11-25/32 x 35-3/8 x 9-11/32
		mm	299 x 773 x 237	299 x 898 x 237	299 x 898 x 237
Net weight		lbs (kg)	24.5 (11.1)	28.4 (12.9)	28.4 (12.9)
Heat exchanger			Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1
	External static pressure	in.WG	0	0	0
		Pa	0	0	0
	Motor type		DC motor		
	Motor output	kW	0.030	0.030	0.030
	Driving mechanism		Direct-driven		
	Airflow rate		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		cfm	152-191-244-297	222-261-304-353	240-293-360-438
		m^3/min	4.3-5.4-6.9-8.4	6.3-7.4-8.6-10.0	6.8-8.3-10.2-12.4
		L/s	72-90-115-140	105-123-143-167	113-138-170-207
Sound pressure level	*2		(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)	(Low-Mid2-Mid1-High)
		dB <A>	24-31-37-41	29-34-37-40	31-36-41-46
Air filter			PP honeycomb		
Diameter of refrigerant pipe	Liquid (R410A)	in.(mm)	1/4 (6.35) Flare	1/4 (6.35) Flare	1/4 (6.35) Flare
	Gas (R410A)	in.(mm)	1/2 (12.70) Flare	1/2 (12.70) Flare	1/2 (12.70) Flare
Field drain pipe size		in.(mm)	I.D. 5/8 (16)	I.D. 5/8 (16)	I.D. 5/8 (16)
Remarks			* 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.		

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

*2 It is measured in anechoic room.

Optional parts

Description	Model	Remarks
Drain pump	PAC-SK01DM-E	P04, P06, P08, P12, P15, P18
External heater adapter	PAC-YU25HT	P04, P06, P08, P12, P15, P18

Wall-mounted type PKFY-P NKMU-E2

Model			PKFY-P24NKMU-E2	PKFY-P30NKMU-E2
Power source			1-phase 208-230V 60Hz	
Cooling capacity (Nominal)	*1	BTU/h	24,000	30,000
	*1	kW	7.0	8.8
	Power input	kW	0.07	0.07
	Current input	A	0.50	0.50
Heating capacity (Nominal)	*1	BTU/h	27,000	34,000
	*1	kW	7.9	10.0
	Power input	kW	0.07	0.07
	Current input	A	0.50	0.50
External finish			Plastic, MUNSELL (1.0Y 9.2/0.2)	
External dimension H x W x D		in.	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8
		mm	365 x 1,170 x 295	365 x 1,170 x 295
Net weight		lbs (kg)	46 (21)	46 (21)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1
	External static pressure	in.WG	0.000 (208V)	0.000 (208V)
		Pa	0	0
		in.WG	0.000 (230V)	0.000 (230V)
		Pa	0	0
	Motor type		DC motor	
	Motor output	kW	0.056	0.056
	Driving mechanism		Direct-driven	
	Airflow rate		(Low-High)	(Low-High)
		cfm	570-920	710-920
		m^3/min	16-26	20-26
		L/s	267-433	333-433
Sound pressure level *2			(Low-High)	(Low-High)
		dB <A>	39-49	43-49
		dB <A>	–	–
		dB <A>	–	–
Air filter			PP honeycomb	
Diameter of refrigerant pipe (O.D.)	Liquid	in.(mm)	ø3/8 (ø9.52) Flare	ø3/8 (ø9.52) Flare
	Gas	in.(mm)	ø5/8 (ø15.88) Flare	ø5/8 (ø15.88) Flare
Field drain pipe diameter		in.(mm)	I.D. 5/8 (16)	I.D. 5/8 (16)

Notes:

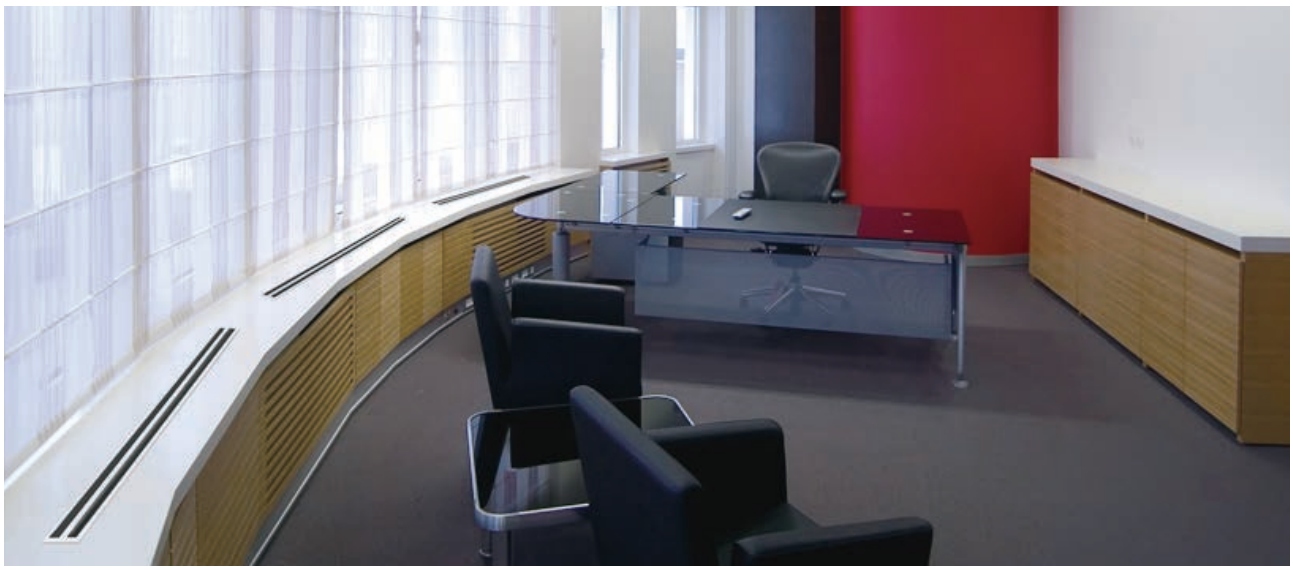
*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80ºFD.B./67ºFW.B. (26.7ºCD.B./19.4ºCW.B.)	95ºFD.B. (35ºCD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70ºFD.B. (21.1ºCD.B.)	47ºFD.B./43ºFW.B. (8.3ºCD.B./6.1ºCW.B.)		

*2 It is measured in anechoic room.

Optional parts

Description	Model	Remarks
External heater adapter	PAC-YU25HT-G	P24, P30



Floor standing type





Floor standing type
Exposed type

PFFY-P NEMU-E

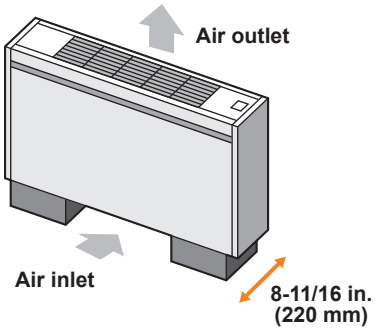




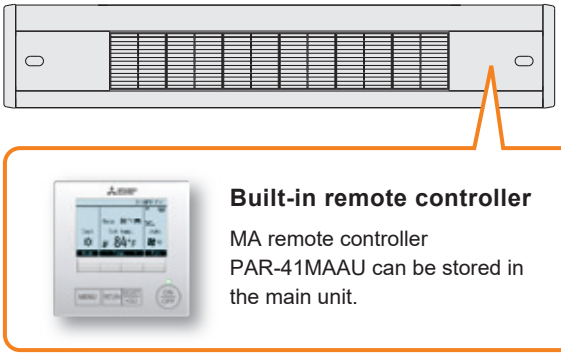
This floor standing type allows efficient air conditioning around the perimeter of a room. It adopts a low-height design that does not block the daylight from the windows.

Compact unit for perimeter air conditioning

The compact body is only 8-11/16 in. (220 mm) deep for easy installation and effective air conditioning around the perimeter of a room.



Remote controller storage in the main unit



Built-in remote controller

MA remote controller PAR-41MAAU can be stored in the main unit.

Electronic dry function dehumidify refreshingly

Rooms are kept optimally dehumidified according to the indoor temperature to prevent over-cooling.

Floor standing type

Exposed type PFFY-P NEMU-E

Model			PFFY-P06NEMU-E	PFFY-P08NEMU-E	PFFY-P12NEMU-E	PFFY-P15NEMU-E	PFFY-P18NEMU-E	PFFY-P24NEMU-E
Power source			1-phase 208/230 V 60Hz					
Cooling capacity *1 (Nominal) *1		BTU / h	6,000	8,000	12,000	15,000	18,000	24,000
		kW	1.8	2.3	3.5	4.4	5.3	7.0
	Power input	kW	0.051/0.061	0.051/0.061	0.055/0.067	0.065/0.078	0.078/0.093	0.096/0.114
	Current input	A	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51
Heating capacity *1 (Nominal) *1		BTU / h	6,700	9,000	13,500	17,000	20,000	27,000
		kW	2.0	2.6	4.0	5.0	5.9	7.9
	Power input	kW	0.051/0.061	0.051/0.061	0.055/0.067	0.065/0.078	0.078/0.093	0.096/1.114
	Current input	A	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51
External finish			Acrylic painted, MUNSELL(5Y 8/1)					
External dimension		in.	24-13/16 x 41-11/32 x 8-11/16	24-13/16 x 41-11/32 x 8-11/16	24-13/16 x 46-3/32 x 8-11/16	24-13/16 x 46-3/32 x 8-11/16	24-13/16 x 55-17/32 x 8-11/16	24-13/16 x 55-17/32 x 8-11/16
H x W x D		mm	630 x 1,050 x 220	630 x 1,050 x 220	630 x 1,170 x 220	630 x 1,170 x 220	630 x 1,410 x 220	630 x 1,410 x 220
Net weight		lbs (kg)	67 (30)	67 (30)	71 (32)	73 (33)	84 (38)	89 (40)
Heat exchanger			Cross fin (Aluminium fin and copper tube)					
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External static pressure	in. WG	–	–	–	–	–	–
		Pa	–	–	–	–	–	–
	Motor type		1-phase induction motor					
	Motor output	kW	0.015	0.015	0.018	0.030	0.035	0.063
	Driving mechanism		Direct-driven					
	Airflow rate *2 (Low-High)	cfm	194-229	194-229	247-317	300-388	353-459	353-494
		m³ / min	5.5-6.5	5.5-6.5	7.0-9.0	8.5-11.0	10.0-13.0	10.0-14.0
		L / s	92-108	92-108	117-150	142-183	167-217	167-233
Sound pressure level *2 *3 (Low-High)		dB <A>	36-41 (208V)	36-41 (208V)	37-41 (208V)	38-43 (208V)	38-43 (208V)	40-46 (208V)
		dB <A>	36-41 (230V)	36-41 (230V)	37-41 (230V)	38-43 (230V)	38-43 (230V)	40-46 (230V)
		dB <A>	–	–	–	–	–	–
Air filter			Standard filter					
Diameter of refrigerant pipe(O.D.)	Liquid	in. (mm)	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø3/8 (ø9.52) Flare
	Gas	in. (mm)	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø5/8 (ø15.88) Flare
Field drain pipe diameter		in. (mm)	I.D. 1 (26) <Accessory hose O.D. 1-3/32 (27) (top end : 13/16 (20))>					

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

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

*3 It is measured in anechoic room.

Optional parts

Description	Model	Remarks
External heater adapter	PAC-YU25HT	P06, P08, P12, P15, P18, P24

Floor standing type
Concealed type

PFFY-P NRMU-E

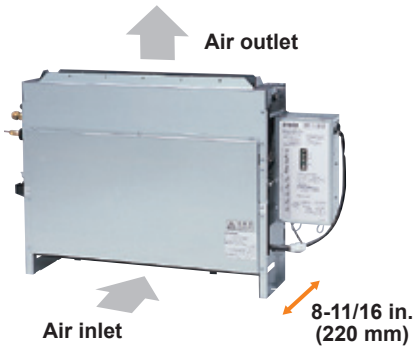




Fits neatly and easily installed in perimeter ø ne.

Compact unit for easy perimeter air conditioning

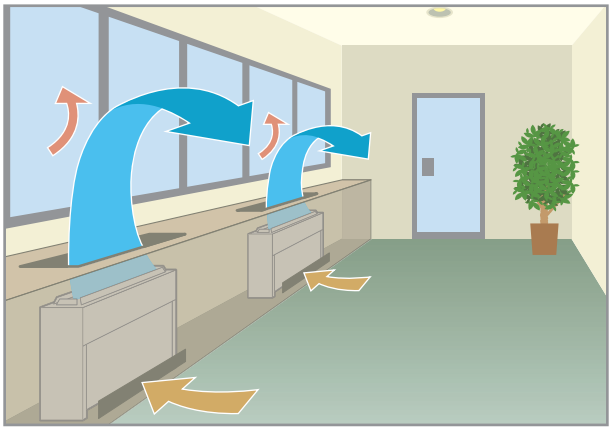
The compact body is only 8-11/16 in. (220 mm) in depth, so it can be easily installed and concealed in a perimeter counter.



Concealed design ensures harmony with interior

The embedded type design makes it possible to install the unit while keeping its beautiful appearance and architectural design.

• Installation image



Electronic dry function dehumidify refreshingly

Rooms are kept optimally dehumidified according to the indoor temperature to prevent over-cooling.

Floor standing type
Concealed type PFFY-P NRMU-E

Model			PFFY-P06NRMU-E	PFFY-P08NRMU-E	PFFY-P12NRMU-E	PFFY-P15NRMU-E	PFFY-P18NRMU-E	PFFY-P24NRMU-E
Power source			1-phase 208/230 V 60Hz					
Cooling capacity *1 (Nominal) *1		BTU / h	6,000	8,000	12,000	15,000	18,000	24,000
		kW	1.8	2.3	3.5	4.4	5.3	7.0
	Power input	kW	0.051/0.061	0.051/0.061	0.055/0.067	0.065/0.078	0.078/0.093	0.096/0.114
	Current input	A	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51
Heating capacity *1 (Nominal) *1		BTU / h	6,700	9,000	13,500	17,000	20,000	27,000
		kW	2.0	2.6	4.0	5.0	5.9	7.9
	Power input	kW	0.051/0.061	0.051/0.061	0.055/0.067	0.065/0.078	0.078/0.093	0.096/0.114
	Current input	A	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51
External finish			Galvanized					
External dimension		in.	25-3/16 x 34-29/32 x 8-11/16	25-3/16 x 34-29/32 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16	25-3/16 x 39-5/8 x 8-11/16	25-3/16 x 49-1/16 x 8-11/16	25-3/16 x 49-1/16 x 8-11/16
H x W x D		mm	639 x 886 x 220	639 x 886 x 220	639 x 1,006 x 220	639 x 1,006 x 220	639 x 1,246 x 220	639 x 1,246 x 220
Net weight		lbs (kg)	51 (23)	51 (23)	58 (26)	60 (27)	69 (31)	71 (32)
Heat exchanger			Cross fin(Aluminium fin and copper tube)					
FAN	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2	Sirocco fan x 2
	External static pressure	in. WG	–	–	–	–	–	–
		Pa	–	–	–	–	–	–
	Motor type		1-phase induction motor					
	Motor output	kW	0.015	0.015	0.018	0.030	0.035	0.063
	Driving mechanism		Direct-driven					
	Airflow rate *2 (Low-High)	cfm	194-229	194-229	247-317	300-388	353-459	353-494
		m³ / min	5.5-6.5	5.5-6.5	7.0-9.0	8.5-11.0	10.0-13.0	10.0-14.0
		L / s	92-108	92-108	117-150	142-183	167-217	167-233
Sound pressure level *2 *3 (Low-High)		dB <A>	36-41 (208V)	36-41 (208V)	37-41 (208V)	38-43 (208V)	38-43 (208V)	40-46 (208V)
		dB <A>	36-41 (230V)	36-41 (230V)	37-41 (230V)	38-43 (230V)	38-43 (230V)	40-46 (230V)
		dB <A>	–	–	–	–	–	–
Air filter			Standard filter					
Diameter of refrigerant pipe(O.D.)	Liquid	in. (mm)	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø1/4 (ø6.35) Flare	ø3/8 (ø9.52) Flare
	Gas	in. (mm)	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø1/2 (ø12.7) Flare	ø5/8 (ø15.88) Flare
Field drain pipe diameter		in. (mm)	I.D. 1 (26) <Accessory hose O.D. 1-3/32 (27) (top end : 13/16 (20))>					

Notes:

*1 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.)	95°FD.B. (35°CD.B.)	25ft. (7.6m)	0ft. (0m)
Heating	70°FD.B. (21.1°CD.B.)	47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)		

*2 Airflow rate / Sound pressure level are in (low-high).
*3 It is measured in anechoic room.

Optinal parts

Description	Model	Remarks
External heater adapter	PAC-YU25HT	P06, P08, P12, P15, P18, P24



LOSSNAY System

LGH-FRVX2 Series

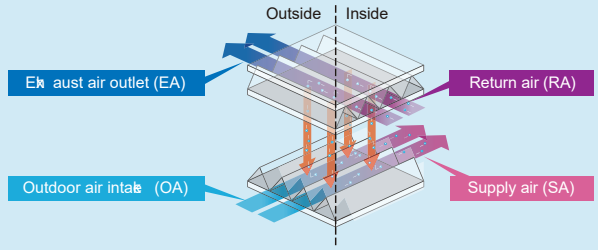
A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

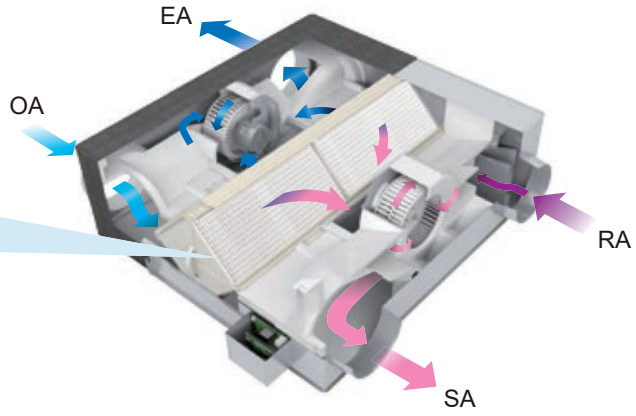
Model \ Airflow	300 CFM	380 CFM	470 CFM	600 CFM	940 CFM	1200 CFM
 LGH-F300/380/470/600RVX2	●	●	●	●		
 LGH-F940/1200RVX2					●	●

Indoor air quality inside a building is optimized through temperature and humidity exchange by LOSSNAY

LOSSNAY is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

The concept of sensible heat and latent heat exchange using a LOSSNAY core



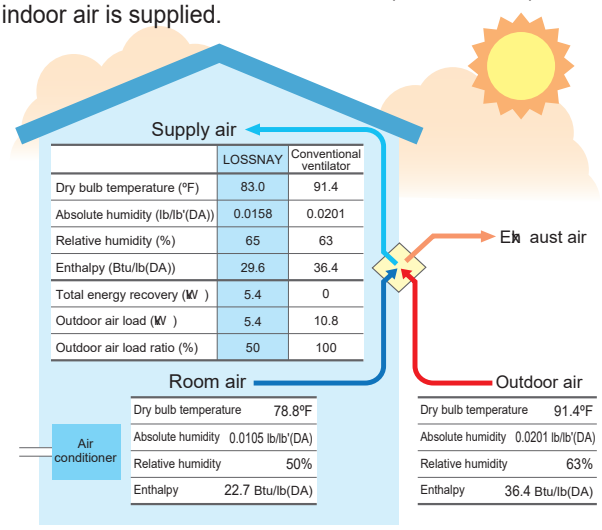


What can be improved by introducing LOSSNAY?

- Ventilation with maximized comfort

In summer

Air similar to the conditions of cooled (dehumidified) indoor air is supplied.



	LOSSNAY	Conventional ventilator
Dry bulb temperature (°F)	83.0	91.4
Absolute humidity (lb/lb'(DA))	0.0158	0.0201
Relative humidity (%)	65	63
Enthalpy (Btu/lb(DA))	29.6	36.4
Total energy recovery (W)	5.4	0
Outdoor air load (W)	5.4	10.8
Outdoor air load ratio (%)	50	100

Room air		Outdoor air	
Dry bulb temperature	78.8°F	Dry bulb temperature	91.4°F
Absolute humidity	0.0105 lb/lb'(DA)	Absolute humidity	0.0201 lb/lb'(DA)
Relative humidity	50%	Relative humidity	63%
Enthalpy	22.7 Btu/lb(DA)	Enthalpy	36.4 Btu/lb(DA)

Heat recovery calculation

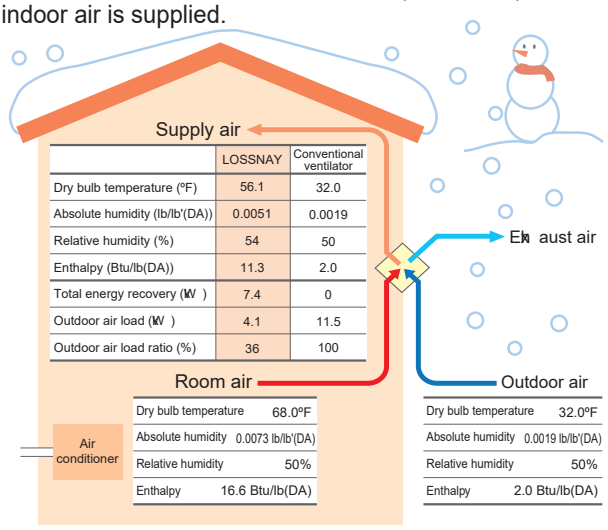
Indoor supply-air temperature (°F) = Outdoor temperature (°F) − (Outdoor temperature (°F) − Indoor temperature (°F)) × Temp recovery efficiency (%)

Calculation example : 83°F=91.4°F-(91.4°F-78.8°F)×67%

*The above applies to the case of LGH-F600RVX2-E (fan speed 4).

In winter

Air similar to the conditions of heated (humidified) indoor air is supplied.



	LOSSNAY	Conventional ventilator
Dry bulb temperature (°F)	56.1	32.0
Absolute humidity (lb/lb'(DA))	0.0051	0.0019
Relative humidity (%)	54	50
Enthalpy (Btu/lb(DA))	11.3	2.0
Total energy recovery (W)	7.4	0
Outdoor air load (W)	4.1	11.5
Outdoor air load ratio (%)	36	100

Room air		Outdoor air	
Dry bulb temperature	68.0°F	Dry bulb temperature	32.0°F
Absolute humidity	0.0073 lb/lb'(DA)	Absolute humidity	0.0019 lb/lb'(DA)
Relative humidity	50%	Relative humidity	50%
Enthalpy	16.6 Btu/lb(DA)	Enthalpy	2.0 Btu/lb(DA)

Heat recovery calculation

Indoor supply-air temperature (°F) = (Indoor temperature (°F) − Outdoor temperature (°F)) × Temp recovery efficiency (%) + Outdoor temperature (°F)

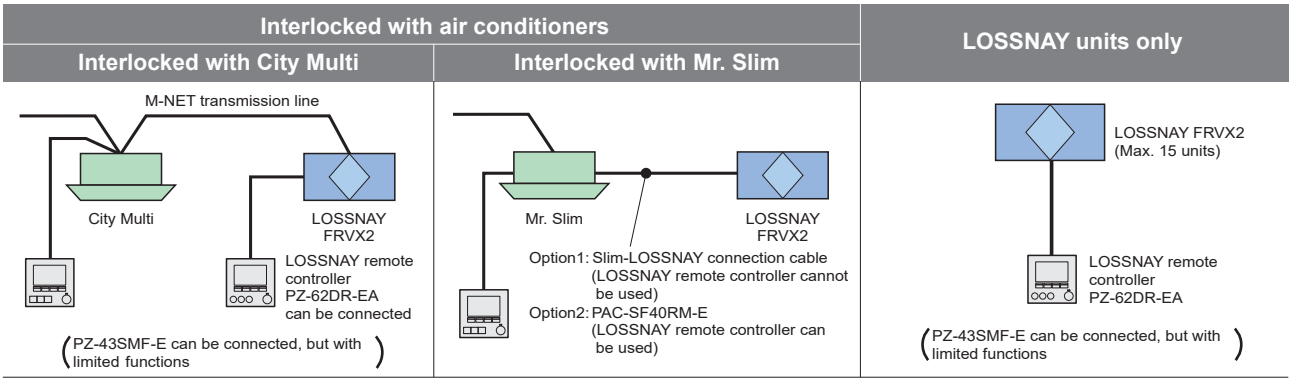
Calculation example : 56°F=(68°F-32°F)×67%+32°F

*The above applies to the case of LGH-F600RVX2-E (fan speed 4).

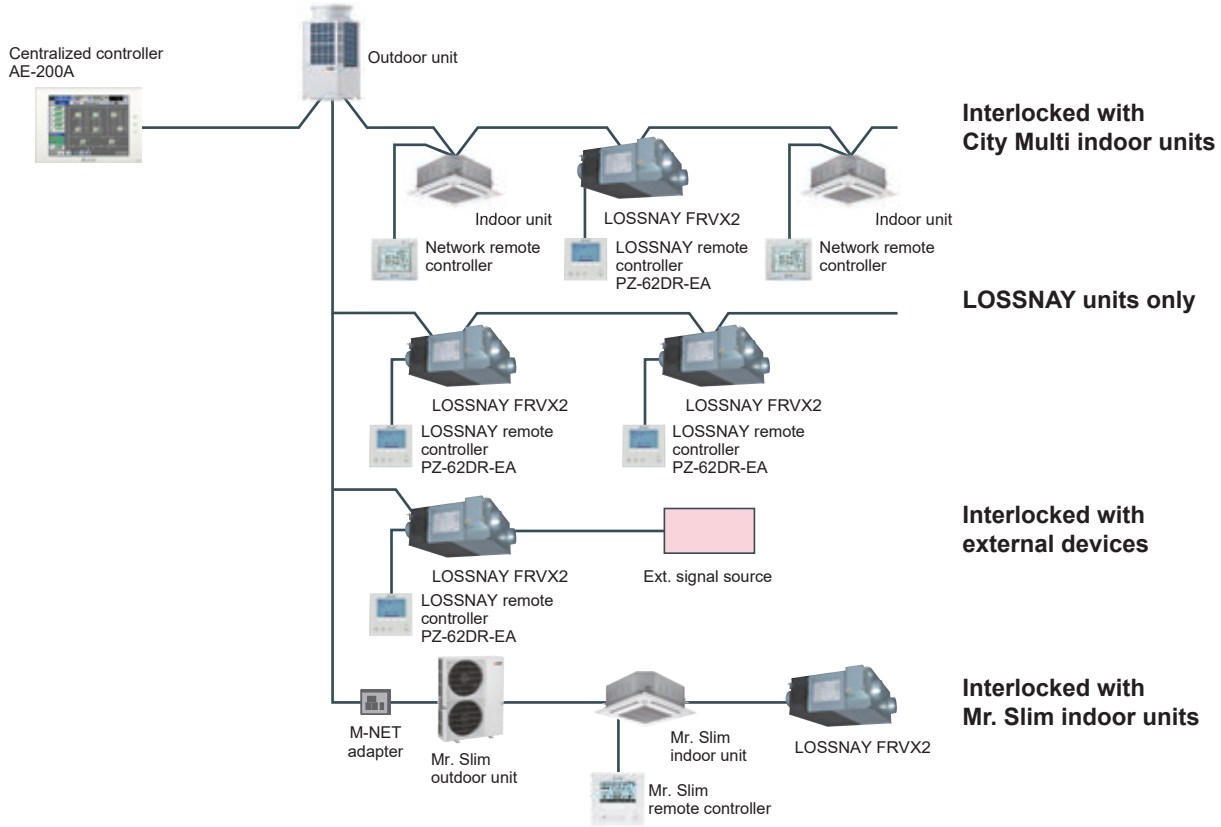
Controller system

Control setting

• Simple control setting with PZ-62DR-EA remote controller



Centralized controller system

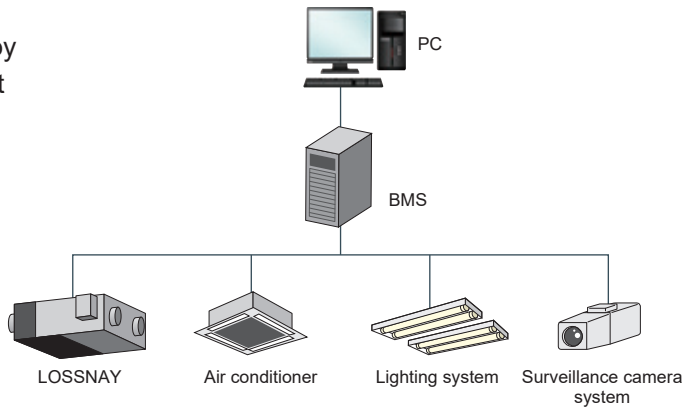


Control with a BMS

The airflow of the LOSSNAY unit can be changed by using a 0-10V signal from the building management system.

Connection example: BMS (Building Management System)

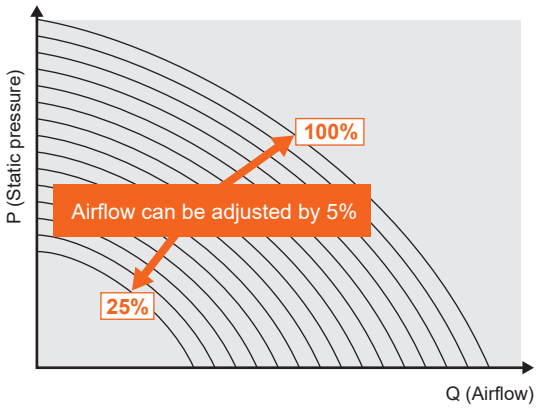
Input voltage [VDC]	Fan speed	Fan speed change from remote controller
0 - 1.0	-	Available
1.5 - 2.5	1	Not available
3.5 - 4.5	2	Not available
5.5 - 7.0	3	Not available
8.5 - 10.0	4	Not available



Key Features

Flexible Airflow Setting

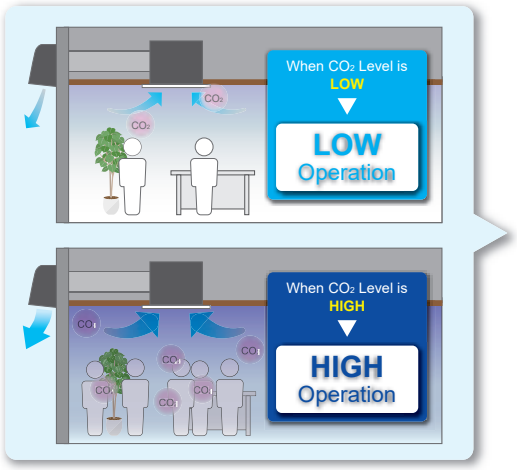
With the flexible air volume setting, energy will be saved by preventing over-ventilation.
The fan speed of both supply and exhuast air can be flexibly adjusted within the range between 25% to 100% offering sufficient air volume. Airflow can be adjusted by 5% increments.

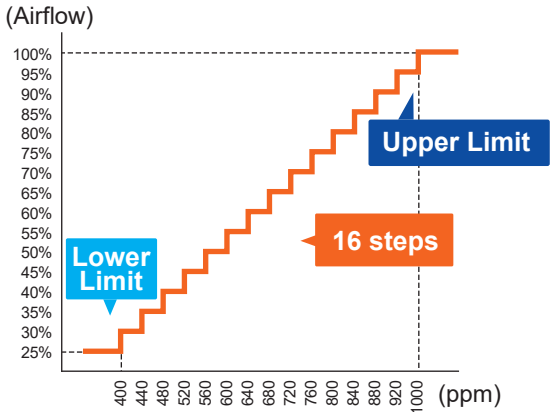


Airflow control by CO_2 sensor

• 16 Steps of Automatic Airflow Control by CO_2 Level

The CO_2 sensor controls airflow by 16 steps depending on the CO_2 level in the room.
This saves energy by over-ventilation while maintaining high indoor air quality.

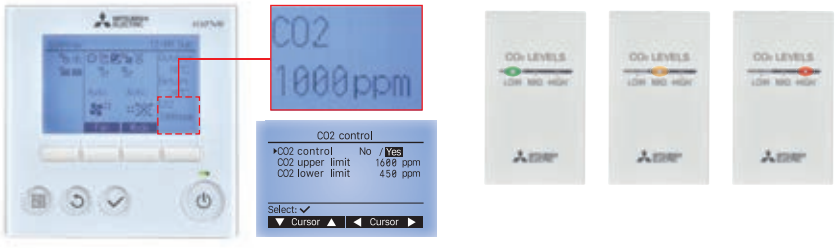




Upper Limit	600 to 2000 ppm
Lower Limit	300 to (upper limit - 300) ppm
Increment	50ppm

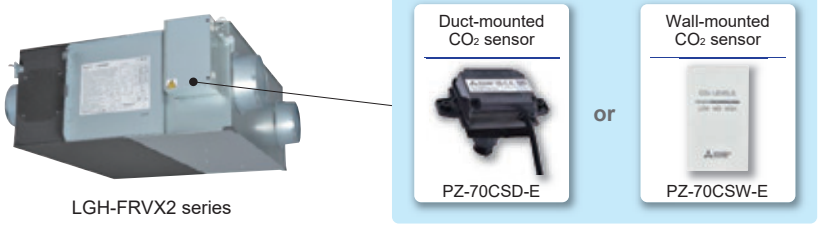
• 2 Ways to Monitor CO_2 Level

CO_2 Level can be monitored by LOSSNAY Remote Controller or Wall-mounted CO_2 Sensor.



• 2 Types of CO_2 Sensors

2 types of CO_2 Sensor is available.
Power is supplied to both CO_2 sensor from LOSSNAYcircuit board.



Specifications

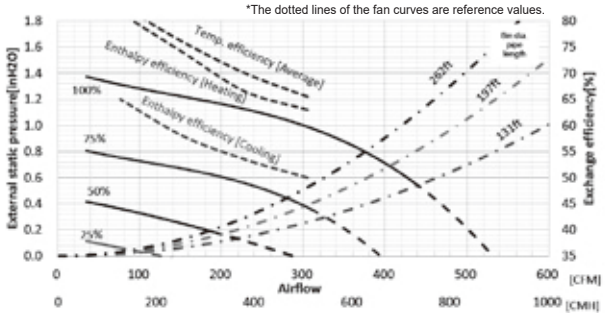
Model			LGH-F300RVX2-E				LGH-F380RVX2-E			
Electric power supply			Single phase 208-230V 60Hz				Single phase 208-230V 60Hz			
Ventilation mode			Heat recovery mode				Heat recovery mode			
Fan speed			100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)			235	111	48	17	340	165	65	20
Airflow	(CFM)		300	225	150	75	380	285	190	95
	(m^3/h)		510	382	255	127	646	484	323	161
Specific fan power	(W/CFM)		0.78	0.49	0.32	0.23	0.89	0.58	0.34	0.21
External static pressure (Pa)	(InH_2O)		1.00	0.56	0.25	0.06	0.86	0.48	0.22	0.06
	(Pa)		250	141	63	16	215	121	54	14
Exchange efficiency (%)	Temperature		65.5	70.0	76.0	83.0	65.0	69.5	75.0	82.0
	Enthalpy	Heating	63.0	66.5	74.0	81.5	61.0	65.5	71.0	78.0
		Cooling	50.0	53.5	58.0	65.0	49.0	53.5	60.0	68.0
Noise (dB)			37.0	31.0	22.0	18.0	38.0	31.0	24.0	19.0
External dimension H×W×D		in	34-15/16 x 40 x 13-1/32				35-3/4 x 37-9/16 x 15-29/32			
		mm	888 x 1016 x 331				908 x 954 x 404			
Net weight		lbs(kg)	75 (34)				90 (41)			

*The running current, the input power, the efficiency and the noise are based on the rating airflow.
*The noise is measured at 59 in (1.5 m) under the center of the unit in an anechoic chamber.
*Test condition: ISO 16494
Exchange efficiency temperature and humidity condition in the exchange efficiency is based in AHRI 1060 condition.
*Specifications may be subject to change without notice.

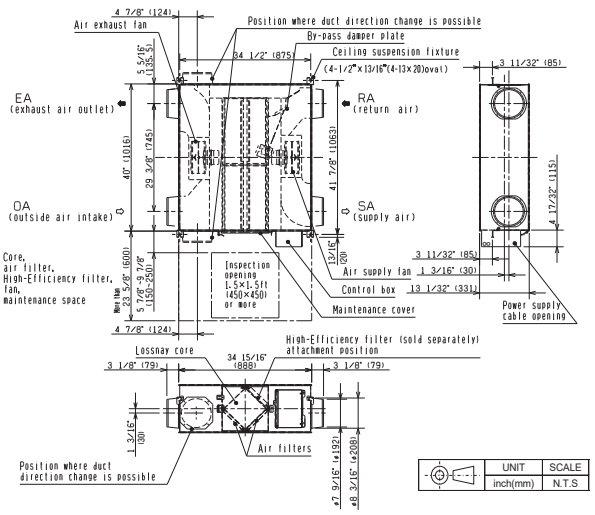
LGH-F300RVX2-E

Characteristic curve

*The dotted lines of the fan curves are reference values.

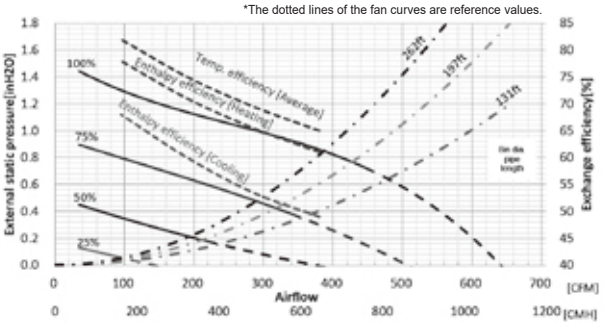


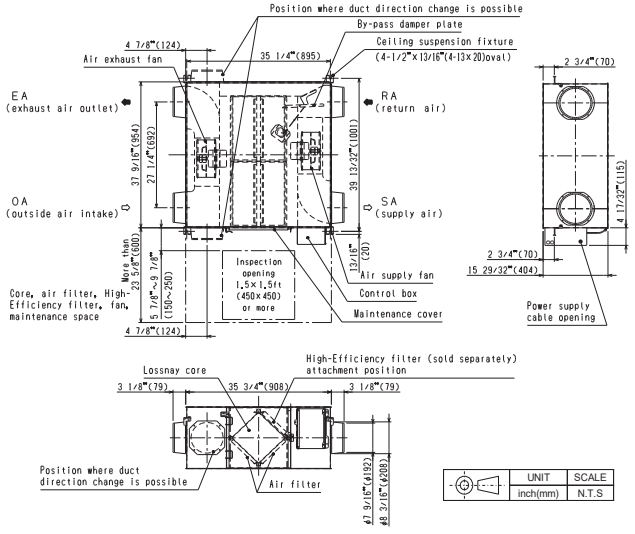
Outline drawings



LGH-F380RVX2-E

*The dotted lines of the fan curves are reference values.





Specifications

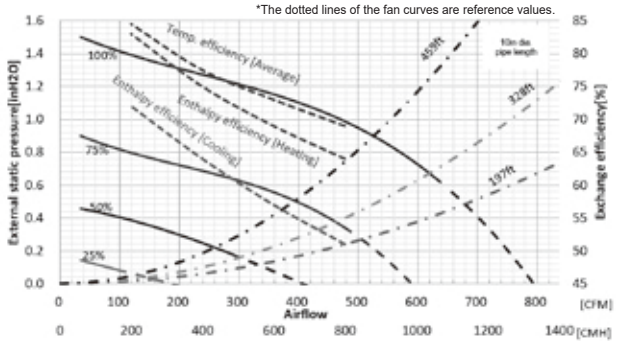
Model			LGH-F470RVX2-E				LGH-F600RVX2-E			
Electric power supply			Single phase 208-230V 60Hz				Single phase 208-230V 60Hz			
Ventilation mode			Heat recovery mode				Heat recovery mode			
Fan speed			100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)			425	220	110	47	515	270	120	47
Airflow	(CFM)		470	353	235	118	600	450	300	150
	(m^3/h)		799	599	399	200	1019	765	510	255
Specific fan power	(W/CFM)		0.90	0.62	0.47	0.40	0.86	0.60	0.40	0.31
External static pressure (Pa)	(InH_2O)		1.00	0.56	0.25	0.06	0.86	0.48	0.22	0.05
	(Pa)		250	141	63	16	215	121	54	13
Exchange efficiency (%)	Temperature		69.0	73.0	77.5	84.5	67.0	73.0	76.5	81.0
	Enthalpy	Heating	64.0	69.0	75.0	83.0	64.0	68.5	74.5	80.0
		Cooling	51.0	57.0	64.0	72.0	50.0	56.5	64.5	71.0
Noise (dB)			40.0	34.0	26.0	20.0	41.0	35.0	27.0	20.0
External dimension H×W×D		in	45-1/16 x 39-1/2 x 15-29/32				45-1/16 x 48-1/2 x 15-29/32			
		mm	1144 x 1004 x 404				1144 x 1231 x 404			
Net weight		lbs(kg)	110 (50)				123 (56)			

*The running current, the input power, the efficiency and the noise are based on the rating airflow.
*The noise is measured at 59 in (1.5 m) under the center of the unit in an anechoic chamber.
*Test condition: ISO 16494
Exchange efficiency temperature and humidity condition in the exchange efficiency is based in AHRI 1060 condition.
*Specifications may be subject to change without notice.

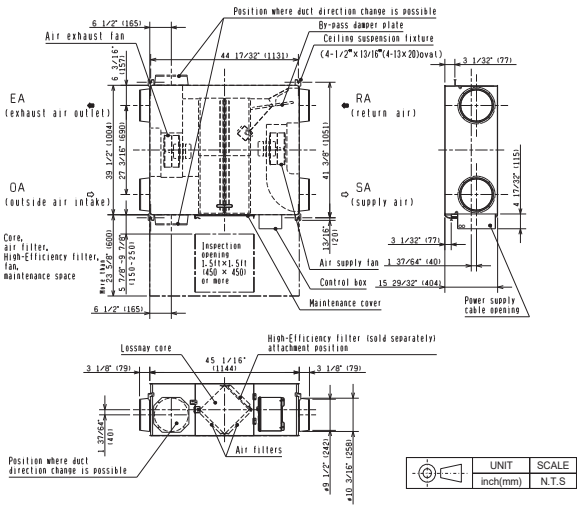
LGH-F470RVX2-E

Characteristic curve

*The dotted lines of the fan curves are reference values.

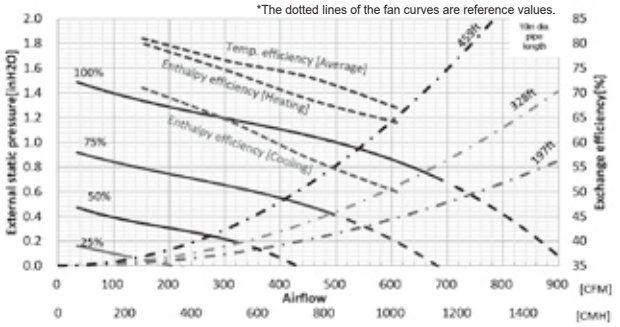


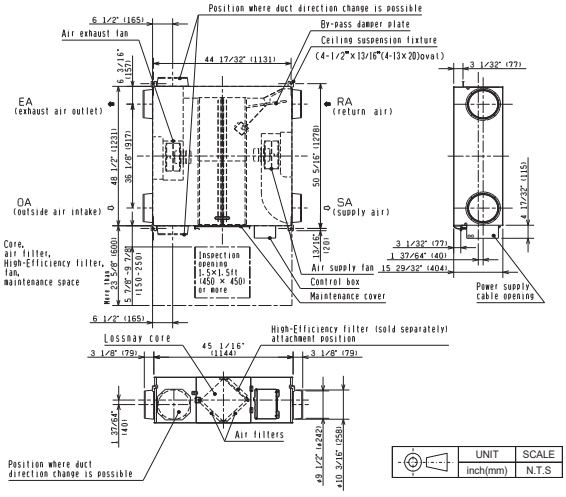
Outline drawings



LGH-F600RVX2-E

*The dotted lines of the fan curves are reference values.





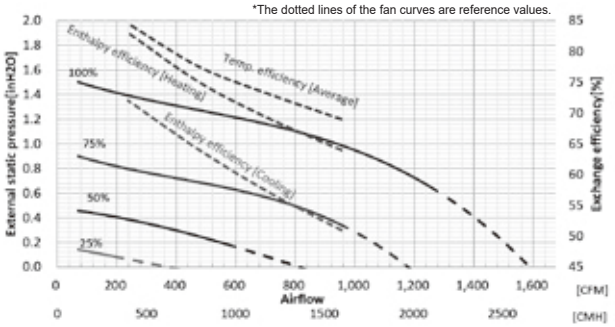
Specifications

Model			LGH-F940RVX2-E				LGH-F1200RVX2-E			
Electric power supply			Single phase 208-230V 60Hz				Single phase 208-230V 60Hz			
Ventilation mode			Heat recovery mode				Heat recovery mode			
Fan speed			100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)			850	440	220	94	1030	540	240	94
Airflow	(CFM)		940	705	470	235	1200	900	600	300
	(m^3/h)		1597	1198	799	399	2039	1529	1019	510
Specific fan power	(W/CFM)		0.90	0.62	0.47	0.40	0.86	0.60	0.40	0.31
External static pressure (Pa)	(InH_2O)		1.00	0.56	0.25	0.06	0.86	0.48	0.22	0.05
	(Pa)		250	141	63	16	215	121	54	13
Exchange efficiency (%)	Temperature		69.0	73.0	77.5	84.5	67.0	73.0	76.5	81.0
	Enthalpy	Heating	64.0	69.0	75.0	83.0	64.0	68.5	74.5	80.0
		Cooling	51.0	57.0	64.0	72.0	50.0	56.5	64.5	71.0
Noise (dB)			43.0	36.0	28.0	20.0	43.0	37.0	28.0	20.0
External dimension H×W×D		in	45-1/16 x 39-1/2 x 31-13/16				45-1/16 x 48-1/2 x 31-13/16			
		mm	1144 x 1004 x 808				1144 x 1231 x 808			
Net weight		lbs(kg)	225 (102)				251 (114)			

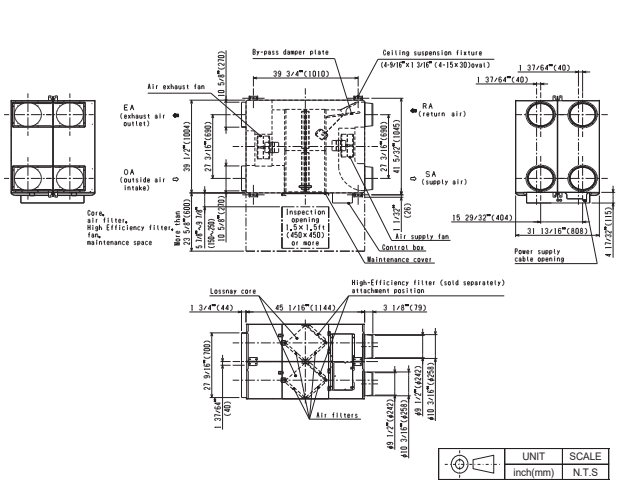
*The running current, the input power, the efficiency and the noise are based on the rating airflow.
*The noise is measured at 59 in (1.5 m) under the center of the unit in an anechoic chamber.
*Test condition: ISO 16494
Exchange efficiency temperature and humidity condition in the exchange efficiency is based in AHRI 1060 condition.
*Specifications may be subject to change without notice.

LGH-F940RVX2-E

Characteristic curve

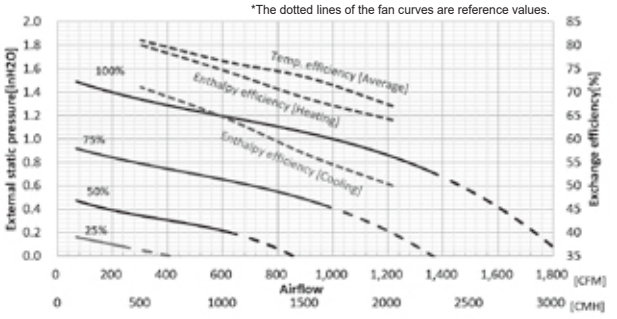


Outline drawings

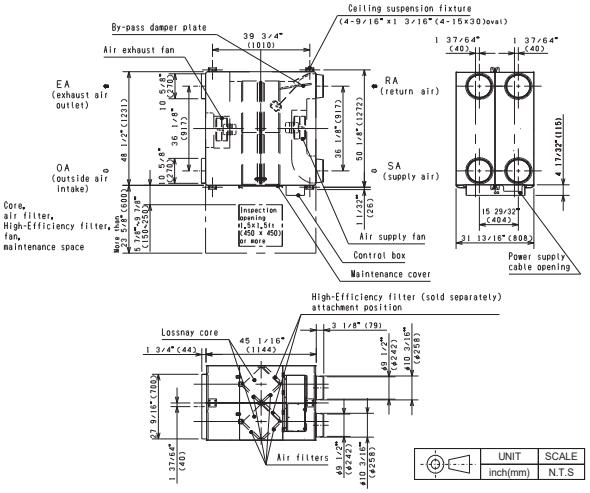


LGH-F1200RVX2-E

Characteristic curve

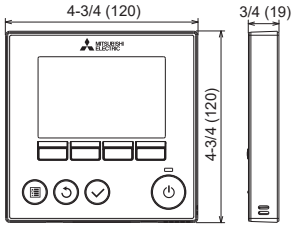


Outline drawings



PZ-62DR-EA

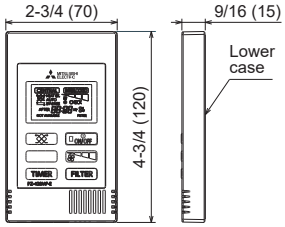




Unit inch (mm)

PZ-43SMF-E





Unit inch (mm)

Remote controller settings and functions

Function	PZ-62DR-EA	PZ-43SMF-E
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO_2 sensor)	2 of 4 fan speeds
Control with a CO_2 sensor (Mitsubishi Electric)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO_2 concentration*)	No
Control with a CO_2 sensor (Field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO_2 concentration*)	No
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto
Night-purge	Yes	No
Function setting from remote controller	Yes	No
Bypass temp. free setting	Yes	No
Flexible airflow control	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No
ON/OFF timer	Yes	Yes
Auto-off timer	Yes	No
Weekly timer	Yes	No
Fan speed timer	Yes	No
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	No
Operation restrictions (fan speed skip setting)	Yes	No
Screen contrast adjustment	Yes	No
Language selection	Yes (11 languages)	No (English only)
CO_2 concentration indication	Yes (available when using a Mitsubishi Electric CO_2 sensor)	No
Filter cleaning sign	Yes (maintenance interval can be changed)	Yes
LOSSNAY core cleaning sign	Yes (maintenance interval can be changed)	No
Error indication	Yes (displays model name, serial number, contact information)	Yes
Error history	Yes	No
OA/RA/SA temp. display	Yes	No

*When using a CO_2 sensor, upper and lower limits may be changed.

CO_2 Sensors

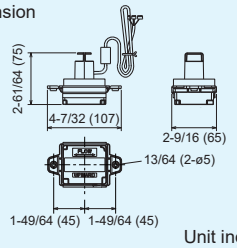
A CO_2 Sensor connected directly to LOSSNAY FRVX2 unit optimizes the fan speed according to the level of CO_2 detected.

<Duct-mounted type> PZ-70CSD-E



Equipped to ducting, which enables all wiring procedure in the ceiling.

■ Dimension



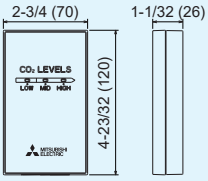
Unit inch (mm)

<Wall-mounted type> PZ-70CSW-E



Equipped on the wall. CO_2 level can be monitored in 3 steps.

■ Dimension



*10m cable is included as accessories for connecting.

Unit inch (mm)

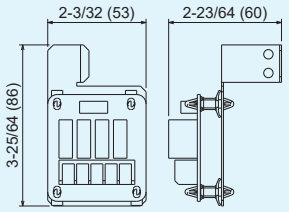
Signal Output Terminal

PZ-4GS-E



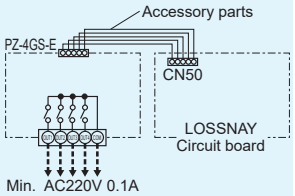
FRVX2's PCB has only 1 output terminal. By using PZ-4GS-E, it allows to add 4 more output terminals to FRVX2.

■ Dimension



Unit inch (mm)

■ Wiring diagram



Min. AC220V 0.1A
DC5V 0.1A
Max. AC240V 1A
DC24V 1A
(Common terminal is up to 1.5A)

*Wiring works must be perfomed by qualified professionals

Duct Silencer



The duct silencer connects to the LOSSNAY unit to reduce airflow noise.

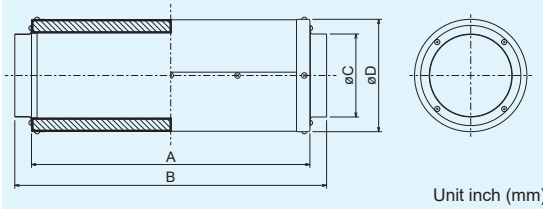
■ Specifications

Model	Airflow [CFM (m^3/h)]	Attenuation of sound power level [dB] for center frequency (discharge)							
		62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
PZ-200SS-E	294CFM (500m^3/h)	0	1	4	7	13	18	16	9
	382CFM (650m^3/h)	0	1	3	8	12	17	14	6
PZ-250SS-E	470CFM (800m^3/h)	0	2	4	12	22	21	14	13
	588CFM (1,000m^3/h)	0	1	4	12	22	20	14	13

1. Figures on the chart above are based on the comparison with a general steel duct of the same length.
2. The silencer is placed just before the outlet during the measurement.
3. When the airflow rate differs, the attenuation is also different from the chart above.
4. Figures on the chart above are flat (No-weighted) value.

● Certain ratings and specifications may change due to product improvements or modifications.

■ Dimensiosns



Unit inch (mm)

■ Change dimension table (Unit: inch (mm))

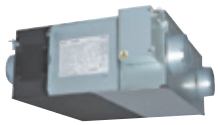
Model	A	B	C	D	Connectable Duct	Weight lbs (kg)
PZ-200SS-E	23-5/8 (600)	25-63/64 (660)	7-53/64 (199)	9-59/64 (252)	ø8 (ø200)	12 (5.3)
PZ-250SS-E	23-5/8 (600)	25-63/64 (660)	9-51/64 (249)	13-5/64 (332)	ø10 (ø250)	20 (8.9)

List of optional parts

Optional Parts \ LOSSNAY		LGH-F300RVX2	LGH-F380RVX2	LGH-F470RVX2	LGH-F600RVX2	LGH-F940RVX2	LGH-F1200RVX2
Remote Controller	PZ-62DR-EA	●	●	●	●	●	●
	PZ-43SMF-E	●	●	●	●	●	●
CO_2 Sensor	PZ-70CSD-E	●	●	●	●	●	●
	PZ-70CSW-E	●	●	●	●	●	●
Silencer Duct	PZ-200SS-E	●	●				
	PZ-250SS-E			●	●	●	●
Signal Output Terminal	PZ-4GS-E	●	●	●	●	●	●

Filter

■ Line up and Classification

LOSSNAY			Filter				
Model	Filter		Name	Model	Material	Classification	
	Standard Setting	Optional Setting				ASHRAE 52.2:2017	ISO 16890:2016
 LGH-F**RVX2 series	●		Standard Filter (MERV7 Filter)	PZ-**RF9-E	Non-woven fabric	MERV7	-
		●	High Efficiency Filter (MERV14 Filter)	PZ-**RFP-E	Non-combustible fiber	MERV14	ePM10 70%
		●	Advanced HighEfficiency Filter (MERV16 Filter)	PZ-**RFP2-E	Synthetic fiber	MERV16	ePM1 75%, ePM2.5 80%, ePM10 95%

■ Model and Applicable Product

Filter							Purchase number for replacement	Installation location			
Image	Model		Dimension inch (mm)			Pieces in one package		Number of filters			
		Applicable model	L	W	H				OA	RA	SA
Standard Filter (MERV7 Filter) 	PZ-50RF9-E	LGH-F300RVX2	18-1/2 (470)	7-13/64 (183)	25/32 (20)	4	1	4	2	2	-
	PZ-65RF9-E	LGH-F380RVX2	17-3/64 (433)	8-37/64 (218)	25/32 (20)	4	1	4	2	2	-
	PZ-80RF9-E	LGH-F470RVX2	17-3/4 (451)	9-9/16 (243)	25/32 (20)	4	1	4	2	2	-
		LGH-F940RVX2					2	8	4	4	-
	PZ-100RF9-E	LGH-F600RVX2	22-1/4 (565)	9-9/16 (243)	25/32 (20)	4	1	4	2	2	-
		LGH-F1200RVX2					2	8	4	4	-
High Efficiency Filter (MERV14 Filter) 	PZ-50RFP-E	LGH-F300RVX2	18-17/64 (464)	6-57/64 (175)	63/64 (25)	2	1	2	-	-	2
	PZ-65RFP-E	LGH-F380RVX2	16-13/16 (427)	8-15/64 (209)	63/64 (25)	2	1	2	-	-	2
	PZ-80RFP-E	LGH-F470RVX2	17-9/16 (446)	9-19/64 (236)	63/64 (25)	2	1	2	-	-	2
		LGH-F940RVX2					2	4	-	-	4
	PZ-100RFP-E	LGH-F600RVX2	22-1/64 (559)	9-19/64 (236)	63/64 (25)	2	1	2	-	-	2
		LGH-F1200RVX2					2	4	-	-	4
Advanced High Efficiency Filter (MERV16 Filter) 	PZ-50RFP2-E	LGH-F300RVX2	18-17/64 (464)	6-57/64 (175)	63/64 (25)	2	1	2	-	-	2
	PZ-65RFP2-E	LGH-F380RVX2	16-13/16 (427)	8-15/64 (209)	63/64 (25)	2	1	2	-	-	2
	PZ-80RFP2-E	LGH-F470RVX2	17-9/16 (446)	9-19/64 (236)	63/64 (25)	2	1	2	-	-	2
		LGH-F940RVX2					2	4	-	-	4
	PZ-100RFP2-E	LGH-F600RVX2	22-1/64 (559)	9-19/64 (236)	63/64 (25)	2	1	2	-	-	2
		LGH-F1200RVX2					2	4	-	-	4



Remote Controllers



System Controller

Mitsubishi ELectric's Air-conditioner Network System (MELANS) leads air-conditioner management in a PC browser and network era.

MELANS

Use of MELANS products enhances the efficiency and quality of air conditioning, contributing to energy savings and reduction in running cost. A wide variety of MELANS products are available to meet all requirements - from the smallest and simplest to the largest and most complex.
Mitsubishi Electric offers a wide lineup of individual remote controllers, various centralized controllers, and centralized integrated software, as well as BMS interface hardware and software, etc. Above all, with AE-200A/AE-50A/EW-50A, PC browser and long distance remote control (monitoring and operating) via communication network is possible and easy.

Individual Remote Controllers

All local remote controllers feature liquid crystal and LED displays and are easy to operate.

Remote Controller


PAR-U01MEDU


PAR-CT01MAU

Simple Remote Controller


PAC-YT53CRAU

Wireless Remote Controller


PAR-FL32MA


PAR-FA32MA


PAR-SL101A-E


PAR-SR4LU-E


PAR-SL94B-E

PAR-SF9FA-E

Centralized Remote Controllers

ON/OFF Remote Controller


AE-200A/AE-50A


EW-50A

AHC Adapter


*1
PAC-IF01AHC-J

PI Controller


PAC-YG60MCA

DIDO Controller


PAC-YG66DCA

AI Controller


PAC-YG63MCA

Cloud system connection device


MCC-50A

*1. Advanced HVAC Controller

CITY MULTI

OUTDOOR UNIT

●S	:PUMY
●Y	:PUHY
●H2i Y	:PUHY-HP
●H2i R2	:PURY-HP
●R2	:PURY
●WY	:PQHY
●WR2	:PQRY

INDOOR UNIT

●PEFY	●PCFY
●PMFY	●PKFY
●PLFY	●PFFY
●PVFY	

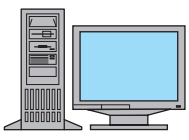
Interface

BACnet® transmission line (Ethernet)

Mitsubishi Electric's CITY MULTI can be easily connected to a building management system via BACnet®.

Ethernet

BUILDING MANAGEMENT SYSTEM



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

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

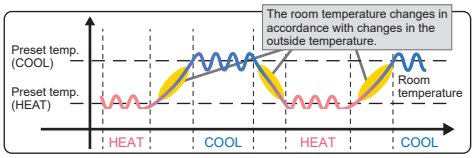
Model	Local remote controller *5					
	PAR-CT01MAU	PAR-41MAAU	PAR-U01MEDU	PAC-YT53CRAU	PAR-FL32MA	PAR-SL101A-E
Controllable Groups/Indoors (Group/Indoor) *4	1/16	1/16	1/16	1/16	1/16	1 / 1
■Operation						
ON/OFF	○	○	○	○	○	○
Mode (cool/heat/dry/fan/auto)	○	○	○	○	○	○
Mode (Setback) *6	○	○	○	○	N	○
Temperature setting	○	○	○	○	○	○
Dual set point *7	○	○	○	○	N	○ *8
Local Permit/Prohibit	N	N	N	N	N	N
Fan speed	○	○	○	○	○	○
Air flow direction	○	○	○	○	○	○
■Status monitoring						
ON/OFF	○	○	○	○	○	○
Mode (cool/heat/dry/fan)	○	○	○	○	○	○
Temperature setting	○	○	○	○	○	○
Local Permit/Prohibit	○	○	○	○	N	N
Fan speed	○	○	○	○	○	○
Air flow direction	○	○	○	○	○	○
Indoor temperature	○	○	○	○	N	N
Filter sign	○	○	○	N	N	N
Error flashing	○	○	○	○	N	N
Error code	○	○	○	○	N	N
Operation hour	N	N	N	N	N	N
■Scheduling						
One day	○	○	○	N	N	N
ON/OFF times per day	1	1	1	N	1	1
Weekly	○	○	○	N	N	N
ON/OFF times per week	8 x 7	8 x 7	8 x 7	N	N	N
Annual	N	N	N	N	N	N
Optimized start-up	N	N	N	N	N	N
Auto-OFF timer	○	○	○	N	N	N
Min. timer setting unit (minute)	5	5	5	N	10	10
■Recording						
Error log	○	○	○	N	N	N
Daily/monthly report	N	N	N	N	N	N
Electricity charge	N	N	N	N	N	N
Energy management data	N	N	N	N	N	N
■Other						
Temp-set limitation by Local R/C	○	○	○	○	N	N
Temp-set limitation by System controller	○ *2	○ *2	○	○ *2	N	N
Operation lock	○	○	○	○	N	N
Night setback	N	N	N	N	N	N
Sliding temperature control	N	N	N	N	N	N
■Management (Group/Interlocked)						
Ventilation interlock	N / ○	N / ○	N / ○	N / ○	N	N
Group setting	○ *1	○ *1	○	○ *1	N	N
Block setting	N	N	N	N	N	N
Review of electricity charge	N	N	N	N	N	N
■Operating on Lossnay interlocked (Group/Interlocked)						
ON/OFF	N / ○	N / ○	N / ○	N / ○	N / ○ *3	N / ○ *3
Fan speed	N / ○	N / ○	N / ○	N	N	N
Ventilation mode	N / N	N / N	N	N	N	N
■Status monitoring on Lossnay interlocked (Group/Interlocked)						
ON/OFF	N / ○	N / ○	N / ○	N / ○	N	N
Fan speed	N / ○	N / ○	N / ○	N	N	N
Ventilation mode	N	N	N	N	N	N

○: Each group N : Not Available (Not Used.)

*1. Group setting via wiring between Indoor units with cross-over cable;
*2. This function can only be set on the ME remote controller.
This function cannot be used with the MA/Simple MA remote controller.
(However, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and it is possible to use this function with them.)
*3. Interlock is set from system controllers (Except PAC-YT40ANRA) or local remote controllers.
*4. The maximum number of controllable units decreases depending on the indoor unit model.
*5. For indoor use only.
*6. This function is supported only when all of the indoor units, remote controllers, and system controllers that are connected to a given group features said function.
*7. Icon Indication: 

When the operation mode is set to 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 will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.
This function is supported only when all of the indoor units, remote controllers, and system controllers that are connected to a given group features said function. Contact your local distributor for details.

• Operation pattern during Auto (dual set point) mode



*8. Function setting of this remote controller is necessary.

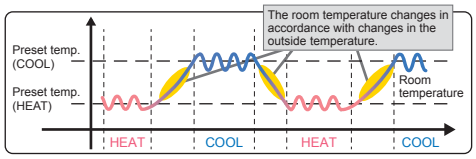
Model	System controller *5					
	AE-200A/AE-50A		AE-200A + AE-50A/EW-50A		EW-50A	
Controllable Groups/Indoors (Group/Indoor) *4	50/50		200/200		50/50	
	AE-200A	Browser	AE-200A	Browser	EW-50A	Browser
■Operation						
ON/OFF	◎ ■	◎ ■	◎ ■	◎ ■	▲	◎ ■
Mode (cool/heat/dry/fan/auto)	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Mode (Setback) *6	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Temperature setting	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Dual set point *7	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Local Permit/Prohibit	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Fan speed	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Air flow direction	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
■Status monitoring						
ON/OFF	◎	○	◎	○	▲	○
Mode (cool/heat/dry/fan)	○	○	○	○	N	○
Temperature setting	○	○	○	○	N	○
Local Permit/Prohibit	○	○	○	○	N	○
Fan speed	○	○	○	○	N	○
Air flow direction	○	○	○	○	N	○
Indoor temperature	○	○	○	○	N	○
Filter sign	○	○	○	○	N	○
Error flashing	○	○	○	○	▲	○
Error code	○	○	○	○	N	○
Operation hour	N	N	N	N	N	N
■Scheduling						
One day	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
ON/OFF times per day	24	24	24	24	N	24
Weekly	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
ON/OFF times per week	24 x 7	24 x 7	24 x 7	24 x 7	N	24 x 7
Annual	◎ ■	◎ ■	◎ ■	◎ ■	N	◎ ■
Optimized start-up	○	○	○	○	N	○
Auto-OFF timer	N	N	N	N	N	N
Min. timer setting unit (minute)	1	1	1	1	N	1
■Recording						
Error log	○	○	○	○	N	○
Daily/monthly report	N	N	N	N	N	N
Electricity charge	N	N	N	N	N	N
Energy management data	N	●	N	●	N	●
■Other						
Temp-set limitation by Local R/C	N	N	N	N	N	N
Temp-set limitation by System controller	N	○ *1 *3	N	○ *1 *3	N	○ *1 *3
Operation lock	N	N	N	N	N	N
Night setback	○	○ *1	○	○ *1	N	○ *1
Sliding temperature control	○	○ *1	○	○ *1	N	○ *1
■Management (Group/Interlocked)						
Ventilation interlock	○	○ / ○ *1	○	○ / ○ *1	N	○ / ○ *1
Group setting	○	○ *1	○	○ *1	N	○ *1
Block setting	○	○ *1	○	○ *1	N	○ *1
Review of electricity charge	N	N	N	N	N	N
■						
ON/OFF	◎ / ◎	◎ / ◎	◎ / ◎	◎ / ◎	▲ / ▲	◎ / ◎
Fan speed	◎ / ◎	◎ / ◎	◎ / ◎	◎ / ◎	N / N	◎ / ◎
Ventilation mode	◎ / N	◎ / N	◎ / N	◎ / N	N / N	◎ / N
■						
ON/OFF	◎ / ◎	◎ / ◎	◎ / ◎	◎ / ◎	▲ / ▲	◎ / ◎
Fan speed	○ / ○	○ / ○	○ / ○	○ / ○	N / N	○ / ○
Ventilation mode	○ / N	○ / N	○ / N	○ / N	N / N	○ / N

◎: Each group/Batched ○: Each group ●: AE-200A/AE-50A/EW-50A license registration possible. N : Not Available (Not Used.) ▲: Batched handling (for maintenance) ■: Block

*1. Installation possible at Initial setting web browser;
*2. Interlock is set at Local remote controller.
*3. This function can only be set on the ME remote controller.
This function cannot be used with the MA/Simple MA remote controller.
(However, the validity of this function with the MA/Simple MA remote controller depends on the indoor unit model, and it is possible to use this function with them.)
*4. The maximum number of controllable units decreases depending on the indoor unit model.
*5. For indoor use only.
*6. This function is supported only when all of the indoor units, remote controllers, and system controllers that are connected to a given group features said function.
*7. Icon Indication: 

When the operation mode is set to 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 will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.
This function is supported only when all of the indoor units, remote controllers, and system controllers that are connected to a given group features said function. Contact your local distributor for details.

• Operation pattern during Auto (dual set point) mode



*8. Please contact your local distributor regarding the availability of this function.

MA Touch Remote Controller

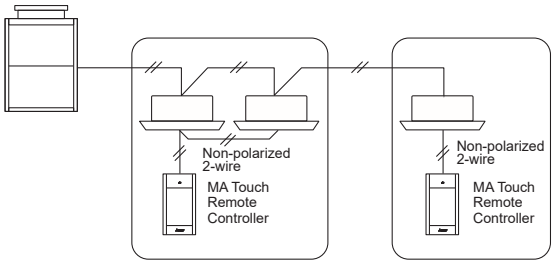


Dual Set Point

PAR-CT01MAU-SB

Dimensions : 2-9/16(W) x 4-3/4(H) x 9/16(D) in.
: 65(W) x 120(H) x 14.1(D) mm

• Example of system configuration



*When a PAR-CT01MAU is connected to a group, no other MA remote controllers can be connected to the same group.

• Multiple color patterns

180 color patterns can be selected for the control parameters and the background of the display.



• Language selection

The screen's display language can be selected from 3 languages. (English, French, Spanish)

• Full color touch panel & backlit display

Large icons ensure visibility on the full-color touch panel display.



Touch Panel

3.5 inch/HVGA Full Color LCD



• Operation panels



Temperature setting



Operation mode



Fan speed



Vane control



Ventilation



Louver control

• Available in a wide variety of colors to suit the decor of any room.





• Bluetooth® low energy technology

The remote controller can communicate with a smartphone or tablet device via Bluetooth Low Energy.
User and setting apps are available.

* Bluetooth® is a trademark of Bluetooth SIG, Inc. in the U.S.
* Contact a Bluetooth sales company for information on the Bluetooth function.



<User App>

MELRemo

►For iPhone
Available on the App Store
* For iOS (11.0 or later)

►For Android
GET IT ON Google Play
* For Android (7.0 or later) *1

<Setting App>

MELRemo

►For iPhone
Available on the App Store
* For iOS (11.0 or later)

►For Android
GET IT ON Google Play
* For Android (7.0 or later) *1

To download the app, scan the QR code. *QR code is a registered trademark of DENSO WAVE INCORPORATED.

*1 The app may not function properly on some mobile devices.

• Functions

○: Available ×: Not available

Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	○	○
Operation mode switching	Switches between Cool/Dry/Fan/Auto/Heat.	○	○
Hold	Switches between enable and disable the Hold function. If the Hold function is enable, the following functions will be prohibited. Timer/Schedule (Weekly timer) /Auto return/Auto-OFF timer	○	○
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	○	○
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	○	○
Louver setting	Switches between louver ON/OFF.	○	○
Ventilation equipment control	Interlocked setting and interlocked operation setting with CITY MULTI Lossnay units can be performed. The Stop/Low/High settings of the ventilation equipment can be controlled.	○	○
Error information	When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) * An error code may not appear depending on the error.	–	○
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	○	○
Allows/disallows local operation	The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode).	×	○
Operation lock	The following operations can be prohibited: “Location,” “On/Off,” “Mode,” “Set temp.,” “Menu,” “Fan,” “Louver,” or “Vane.”	○	○
Temperature range restriction	The room temperature range for each operation mode can be restricted.	○	○
Auto return	The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 minutes in 10-minute increments.) * Not valid when the temperature setting range is restricted.	○	×
Daylight saving time	The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the settings.	○	×
Weekly timer	Weekly ON/OFF times and set temperatures can be set. • Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week. * Not valid when the ON/OFF timer is set.	○	○
Bluetooth connection, Bluetooth, Screen update	The Bluetooth connection information can be acquired. Using an Application, a logo image as well as settings data can be sent to the remote controller.	○	○

Wired MA Remote Controller



Dual Set Point

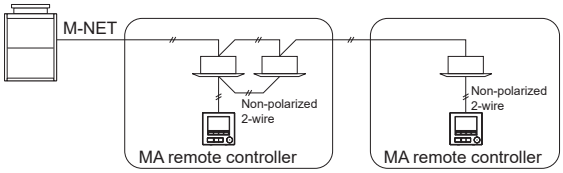
PAR-41MAAU

Dimensions: 4-23/32(W) x 4-23/32(H) x 37/64(D) in.
: 120(W) x 120(H) x 14.5(D) mm

- **Backlit LCD (Liquid Crystal Display)**
  Large, easy-to-see display.
  The screen background can be changed to black to suit the ambience of the room.
- **3D i-see Sensor***
  Settings can be made for the 3D i-see Sensor.
- **Draft reduction***
  "Close" has been added to the manual vane angle selection. The air outlet can be closed to reduce drafts from the air conditioner.
- **Auto descending panel***
  Panels can be lowered/raised using the remote controller. Panel position can also be selected from a number of patterns.

*Availability of the function depends on the indoor unit model. Contact your local distributor for details.

• Example of system configuration



*When a PAR-41MAAU is connected to a group, no other MA remote controllers can be connected to the same group.

• Functions

○: Available ×: Not available

Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	○	○
Operation mode switching	Switches between Cool/Dry/Fan/Auto/Setback/Heat.	○	○
Hold	Switches between enable and disable the Hold function. If the Hold function is enable, the following functions will be prohibited. ON/OFF timer/Schedule (Weekly timer) /Auto return/Auto-OFF timer	○	○
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	○	○
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○
Louver setting	Switches between louver ON/OFF.	○	○
Ventilation equipment control	Interlocked setting and interlocked operation setting with CITY MULTI Lossnay units can be performed. The Stop/Low/High settings of the ventilation equipment can be controlled.	○	○
Error information	When an error occurs, an error code and the unit address appear. The air-conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The above information needs to be entered in advance.) * An error code may not appear depending on the error.	–	○
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments.	○	○
Allows/disallows local operation	The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode, set temperature, filter sign reset, air direction, fan speed and timer. * While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).	×	○
Operation lock	The following operations can be prohibited: "Location," "On/Off," "Mode," "Set temp.," "Menu," "Fan," "Louver," or "Vane."	○	○
Temperature range restriction	The room temperature range for each operation mode can be restricted.	○	○
Auto return	The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 minutes in 10-minute increments.) * Not valid when the temperature setting range is restricted.	○	×
Daylight saving time	The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the setting contents.	○	×

ME Remote Controller



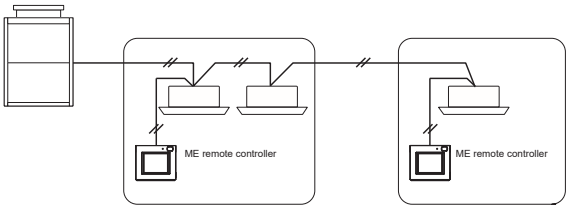
Dual Set Point

PAR-U01MEDU

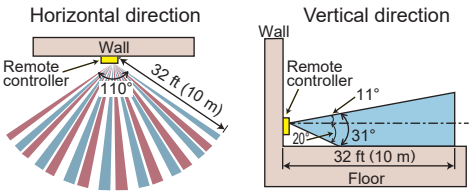
Dimensions : 5-9/16(W) x 4-3/4(H) x 1(D) in.
: 140(W) x 120(H) x 25(D) mm

- **Occupancy sensor**
  Detects vacancy for energy-save control.
- **Touch panel & backlit LCD**
  Shows the operation settings screen.
  When the backlight is off, touching the panel turns it on, and it will stay lit for a prespecified period of time.
- **LED indicator**
  Shows the operation status in different colors.
  It lights up during normal operation, turns off when units are stopped, and blinks when an error occurs.
- **Brightness sensor**
  Detects the brightness of the room for energy-save control.
- **Temperature & humidity sensor**
  Detects room temperature and relative humidity.
- **Device control via AHC (Advanced HVAC Controller)**
  Allows control of other manufacturer's products connected via AHC.
- **Auto (dual set point) modes**
  Two temperatures (one each for cooling and heating) can be set.

• System configuration example



Occupancy sensor detection zone



• Functions

○:Available ×:Not available

Item	Description	Setting	Display
ON/OFF	Switches between ON and OFF.	○	○
Operation mode switching	Switches between Cool / Dry / Fan / Heat / Setback / Auto. Operation modes vary depending on the indoor unit model. Auto mode is for CITY MULTI R2, H2i R2 and WR2-Series only.	○	○
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	○	○
Fan speed setting	Changes fan speed. * Available fan speeds vary depending on the model.	○	○
Air flow direction setting	Changes airflow direction. * Available airflow directions vary depending on the model.	○	○
Allows/disallows local operation	The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset. * While an operation is prohibited, the operation icon lights up.	×	○
Error information	When an error occurs, an error code and the unit address appear. A contact number can be set to appear when an error occurs. (The above information needs to be entered in the Service menu.)	—	○
Schedule (Weekly timer)	Weekly ON/OFF times, operation mode, and set temperatures can be set. • Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week. * Not valid when the ON/OFF timer is set.	○	○
Timer	ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 in 10-minute increments.	○	○
Energy-save control during vacancy	When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated. Four control types are available for selection: ON/OFF/Set temperature/Fan speed/Thermo-off. The brightness sensor can be used in conjunction with the occupancy sensor to detect the occupancy/vacancy status more accurately.	○	○

Wireless Remote Controller



PAR-FL32MA
Dimensions: 2-5/16(W) x 6-5/16(H) x 3/4(D) in.
: 58(W) x 159(H) x 19(D) mm



PAR-SL101A-E
(PLFY-EP NEMU1, PLFY-P NFMU only)
Dimensions: 2-5/8(W) x 7-13/32(H) x 7/8(D) in.
: 66(W) x 188(H) x 22(D) mm



PAR-FA32MA
Dimensions: 2-3/4(W) x 4-3/4(H) x 7/8(D) in.
: 70(W) x 120(H) x 22.5(D) mm



PAR-SR4LU-E
(4-way cassette signal receiver)
Dimensions: 7-5/16(H) x 1-5/32(D) in.
: 185(H) x 29(D) mm

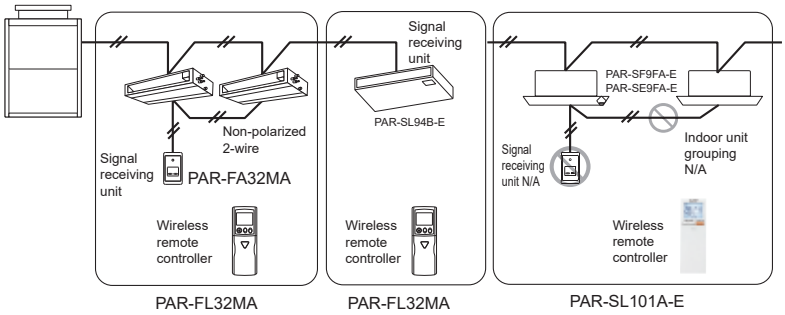
PAR-SF9FA-E
(2 x 2 cassette signal receiver)
Dimensions: 8-7/16(H) x 1-1/32(D) in.
: 214(H) x 25.5(D) mm



PAR-SL94B-E
(Wireless remote controller kit for ceiling suspended type)
Dimensions: 7-3/16(W) x 2-1/4(H) x 1-1/4(D) in.
: 182(W) x 57(H) x 31(D) mm

- **No need to configure addresses for group operation.**
- **The LED remains lit to show operation status. It also provides error information via the number of blinks.**
- **Can be used with the MA remote controller**.
  *When used in group configurations, wiring is required between indoor units.
  *ME remote controllers and Lossnay remote controllers cannot be combined in the same group.
- **Multiple indoor units cannot be controlled with the PAR-SL101A-E.**
  Only one indoor unit can be used in each group.
- **LCD temperature setting and display in 1°C/1°F increments.**

• System configuration example



Compatibility table

Indoor unit model	Receiver	Transmitter
PMFY-P NBMU-E PFFY-P NEMU / NRMU-E PEFY-P NMSU-E PEFY-P NMAU-E4/E5 PEFY-PNMH(S)U-E(2)	PAR-FA32MA	PAR-FL32MA

Indoor unit model	Receiver	Transmitter
PCFY-P NKMU-E	PAR-FA32MA PAR-SL94B-E *1	PAR-FL32MA
PKFY-P NLMU-E	Built-in	
PKFY-P NKMU-E2		
PLFY-EP NEMU1-E(1) *3	PAR-SR4LU-E	PAR-FL32MA PAR-SL101A-E *4
PLFY-P NFMU-E *3	PAR-FA32MA	PAR-FL32MA *2
	PAR-SF9FA-E	PAR-SL101A-E *4

*1 PAR-SL94B-E includes a wireless remote controller.
*2 PAR-SL101A-E is required to use the direct/indirect setting and individual vane setting.
*3 Use either PAR-SL101A-E or PAR-FL32MA to control each indoor unit, not both.
*4 Multiple indoor units cannot be controlled with the PAR-SL101A-E. Only one indoor unit can be used in each group.

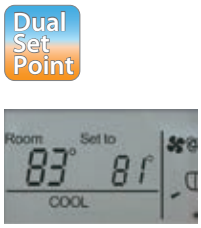
• Functions

○: Available ×: Not available

Item	Description	Setting	Display
ON/OFF	ON and OFF operation for a single group	○	○
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	○	○
Air flow direction setting	Air flow direction angles (4-angle, Swing) Auto Louver ON/OFF. Air flow direction settings vary depending on the model. *1 Some models will have a different display for the air flowdirection and fan speed. Set the air-flow direction and fan speed when performing initial settings.	○*1	○*1
Timer operation	One ON/OFF setting can be set per day.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). *2 If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will sound and an LED will flash.	×	○*2

Simple Remote Controller



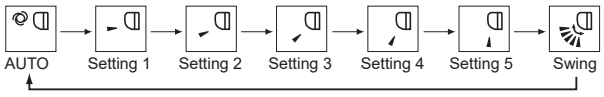


PAC-YT53CRAU (MA)

Dimensions: 2-3/4(W) x 4-3/4(H) x 19/32(D) in.
: 70(W) x 120(H) x 14.5(D) mm

- **Dual set point**
  When the operation mode is set to 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 will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.
  *Contact your Mitsubishi Electric sales office for details.
- **Backlit LCD**
  Backlight for operation in dark places
- **Flat back**
  The remote controller can be installed without making a hole in the wall.
  Thickness is less than 19/32 in (14.5 mm).
- **Vane button (standard)**
  The Vane button has been added to allow users to change airflow direction (ceiling cassette and wall mounted types).

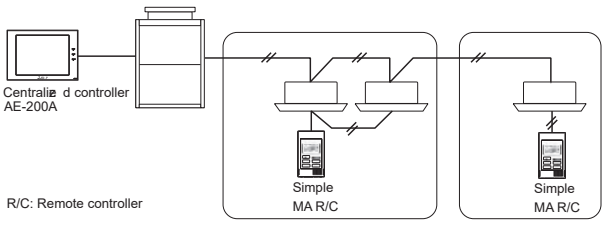
Pressing the button changes the vane direction.



*The vane directions that can be set vary depending on the indoor unit model.
*If the unit has no vane function, vane direction cannot be set.
In this case, the vane icon blinks when the button is pressed.

- **Only cross-over wiring is required, based on two-wire signal lines.**
- **Room temperature sensors are built in.**
- **Compatible with all types of indoor units**
  *As this controller has limited functions, it should always be used in conjunction with a standard controller or centralized controller.
- **LCD temperature setting and display in 1°F/1°C increments**

• System configuration example



• Functions

○: Available ×: Not available

Item	Description	Setting	Display
ON/OFF	Changes between ON and OFF.	○	○
Operation mode switching	Select from COOL, DRY, FAN, AUTO, Setback, and HEAT. * Auto mode and Setback mode are for CITY MULTI R2, H2i R2, and WR2-Series only.	○	○
Temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	○	○
Fan speed setting	Changes the fan speed. * The settable fan speed varies depending on the indoor unit model to be connected.	○	○
Permit / Prohibit local operation	By setting a centralized controller, the following local operations can be prohibited: ON/OFF, operation mode, preset temperature; * The CENTRAL icon appears while local operations are prohibited.	×	○
Error	Displays the current error status with the address. * The address may not be displayed depending on the error status.	—	○
Ventilation equipment	When the CITY MULTI indoor unit is connected, interlocked setting of the CITY MULTI Lossnay unit is possible.	○	○
Set temperature range limit	The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO).	○	○

Centralized Controller



AE-200A/AE-50A

Dimensions: 11-3/16(W) x 7-7/8(H) x 2-9/16(D) in.
: 284(W) x 200(H) x 65(D) mm

Dual Set Point

- **Promotes energy savings through the comprehensive display of the energy consumption of air-conditioning equipment.**
  - The energy consumption of air-conditioning equipment can be displayed by individual area in graph form for easy viewing.
  - Operating status can be easily confirmed by comparing power consumption with the previous year and with the electrical power target.
  - Floor layout is displayed on the 10.4-inch LCD touch panel for easy management of air-conditioning equipment.
- **An optimal system can be easily and flexibly established according to the size of the facility.**
  - Up to 50 indoor units can be managed.
  - Centralized control of up to 200 indoor units can be performed with three "AE-50A/EW-50A" expansion controllers.
  - More than 200 indoor units can be managed by connecting the PC to a web browser.*1
    *1. Contact your local distributor regarding support for this feature.
- **Features for operating and monitoring the hot water heat pump in PWFY models are also available.**
  - Centralized batch control of PWFY is possible in addition to individual control of each air-conditioning unit.

• Control screens for power consumption

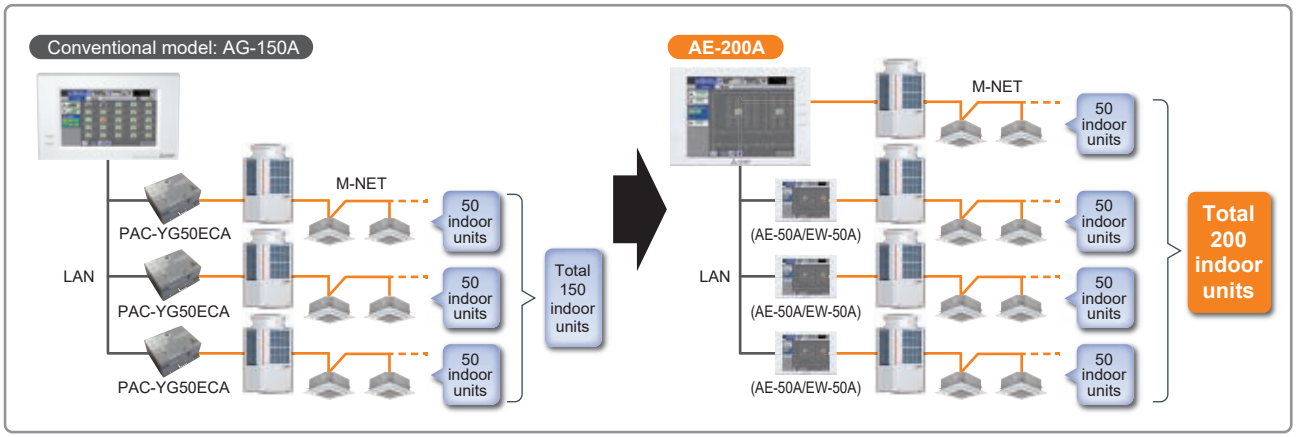


Energy consumption of a targeted area is displayed by month, day, and hour.
Energy consumption of two different units, groups, and blocks can be compared.
Fan operation time and energy consumption can be displayed.

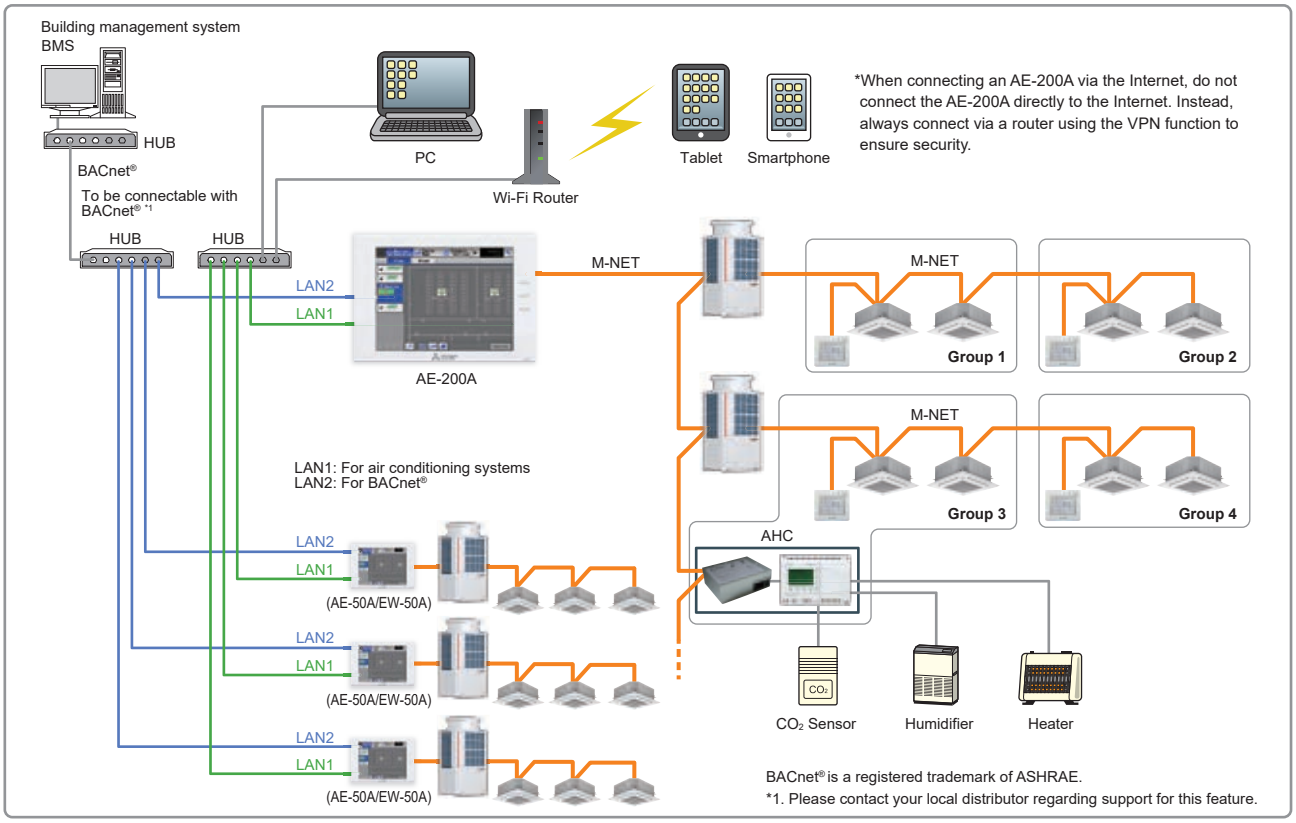


The energy consumption of each air-conditioning equipment is ranked and displayed by area, thus visualizing high-load components.
Energy consumption can also be compared with electrical energy targets.

• Comparison of the number of connectable units



• System structure



• Functions

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

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

*1. Even when the number of indoor units is 50 or less, the system must consist of AE-200A and EW-50A/AE-50A.
AE-200A M-NET cannot be used.

Centralized Controller



Dual Set Point

EW-50A

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

• Main Features

Can be used as an expansion controller for the AE-200A
Up to 200 indoor units can be operated and monitored by connecting three EW-50A units to an AE-200A controller.

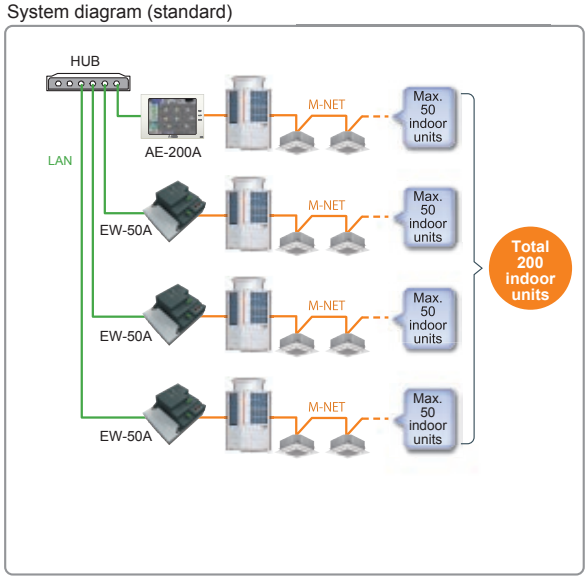
Apportionment of electricity charges
The power consumption of each air conditioner can be calculated with an AE-200A controller. The calculated data can be output to a PC via a USB memory device or LAN, and billing charges can be prepared using a specific charge calculation tool.

*The function to apportion electricity charge requires the use of both the AE-200A and EW-50A.

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

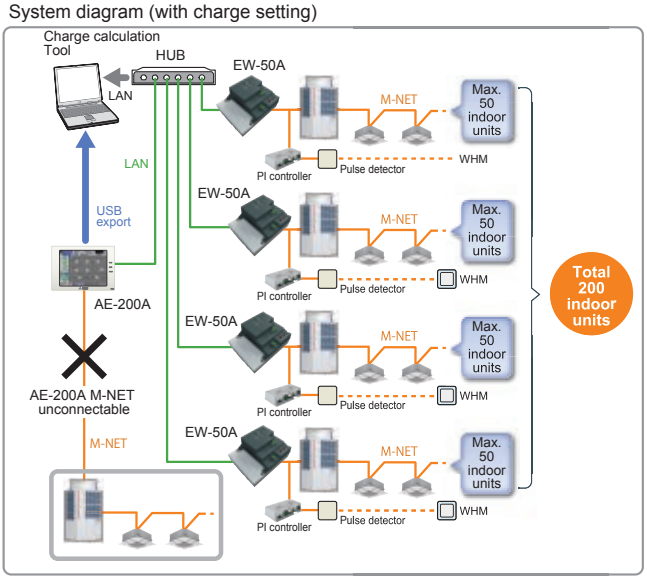
• System structure

System diagram (standard)



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

System diagram (with charge setting)



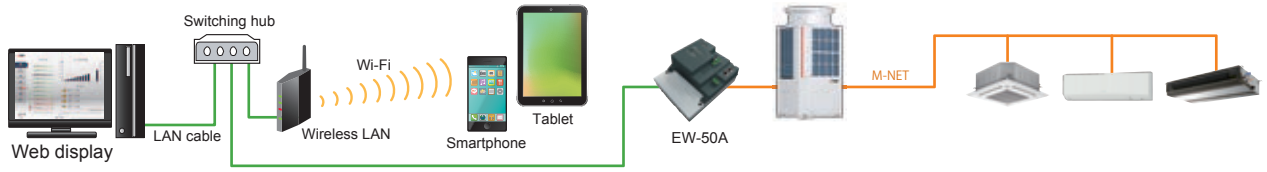
* Even when the number of indoor units is 50 or less, the system must consist of AE-200A and EW-50A/AE-50A.

• Air conditioner units can be operated and monitored independently using a PC

Even without an AE-200A controller, the EW-50A can operate and monitor air-conditioner units using browser software*1.
Air conditioners can be operated and monitored remotely via the Internet. In addition, air conditioners in multiple buildings can be collectively operated.*2

* 1. This operation has been confirmed on Internet Explorer 11, Edge 44, Google Chrome ver.83, and Safari13.
Microsoft® Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
Google is a registered trademark of Google LLC.
Google Chrome is a registered trademark of Google LLC. in the U.S. and other countries.
Edge is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
Windows is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
Safari is a trademark or registered trademark of Apple Inc. in the U.S.
Company names and product names in this brochure may be trademarks or registered trademarks of the respective rights holder.

* 2. When connecting an EW-50A via the Internet, do not connect the EW-50A directly to the Internet. Instead, always connect via a router using the VPN function to ensure security.



• Management of air conditioner usage conditions

The energy consumption of air conditioners can be displayed in an easy-to-understand manner using a web browser.

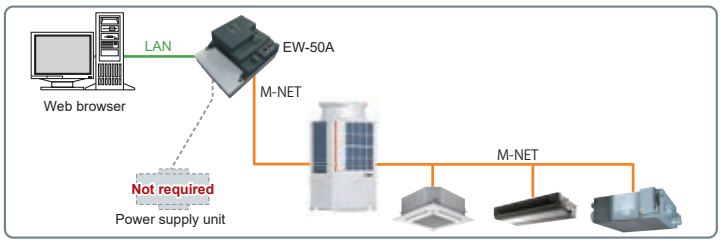
* The billing function requires a PI Controller and watt-hour meter with pulse transmitter (procured locally).





• Operable without a transmission line power supply unit

The EW-50A unit is equipped with a power supply function. Power supplied by a transmission line power supply unit is not necessary. Since an outside power supply is not needed, self-sustained operation is possible even when the outdoor unit system is down. (In cases where the power consumption factor exceeds 1.5, a power supply unit is needed.)



• Energy-saving control

With the addition of an energy-saving control license (optional product), the temperature setting can be automatically changed*1 according to the room temperature around the air-conditioner unit to allow greater energy savings without sacrificing comfort.

* 1. With this function, the temperature setting can be changed in +2°F/2°C increments for cooling and -2°F/2°C increments for heating during a set time interval. In cases where the intake temperature and temperature setting are significantly different, exclusion from the energy-saving target is possible.

• Functions

* Functions and specifications are subject to change.

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

Item	Remarks	Setting	Display
ON/OFF	Switches air conditioners and general equipment ON or OFF.	◎	◎
Operation mode switching	Switches to cool, dry, auto, fan, or heat operation. * Some modes are not available depending on the unit.	◎	○
Room temperature setting	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.	◎	○
Set temperature 1°F/0.5°C increments	The temperature can be set and displayed in 1°F/0.5°C increments. * With some unit combinations, the temperature is set in 1°F/1°C increments.	◎	○
Fan speed setting	The fan speed can be set to 4 levels, 3 levels, 2 levels, or automatic. * Available fan speeds differ depending on the unit.	◎	○
Air direction setting	Fixed swing in 5 levels or auto air direction can be set. * Available air directions differ depending on the unit.	◎	○
Prohibition of local remote controller operation	It is possible to disable the ability to use to local remote controllers to run or stop the operation mode, set temperature, filter sign reset, wind speed, wind direction and timer operation. * In the Lossnay group, only ON/OFF and filter reset can be disabled. * Disabling of the fan speed, air direction, and timer operation can be set for the PAR-CT01MAU, PAR-U01MEDU, and PAC-YT53CRAU models.	◎	○
Room temperature display	Displays the suction temperature of the indoor unit.	—	○
Error display	Displays the current error content together with the address.	—	◎
Schedule operation	Today/weekly/weekly by season/yearly Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan	◎	○
Energy management	Displays the power consumption* or operating hours. * Optional part required.	—	◎
Ventilator operation (solo)	Group operation is possible for free plan Lossnay units only. * The group operation mode includes auto ventilation, heat exchange, and normal ventilation.	◎	○
Ventilator operation (interlocked)	Free plan Lossnay units and indoor units can be interlocked and operated together. * At this point, air volume can be operated, but the ventilation mode cannot be selected.	◎	○
External input (timer connection, emergency stop input, etc.)	Using a level signal or pulse signal, it is possible to input the following: Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input. Pulse signal: Batch ON/OFF or Operation Disable/Enable * Requires an external power supply and external I/O adapter (PAC-YG10HA-E) sold separately. Only one input can be selected from the above inputs.	□	—
External output (error output, operation output)	Using the level signal, ON/OFF, and Error/Normal are output. * Requires an external power supply and external I/O adapter (PAC-YG10HA-E) sold separately.	—	□
Web browser	Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy-saving control setting (option), energy-saving peak cut setting (option), set temperature range restrictions, other	◎ *1	◎ *1
Filter reset	Filter sign reset	○	○
Connectable location	Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable	—	—

* Functions and specifications differ depending on the connected equipment and model.
* Electric energy can be proportionally divided using the EW-50A alone. However, the apportioned electricity charge function requires an AE-200A.

■Connectable equipment: CITY MULTI
A Control Mr. Slim (Can be connected using an M-NET adapter or special outdoor unit)
Room air conditioner (Requires a system control interface or M-NET control interface)
Lossnay
AI controller, PI controller, DIDO controller

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

PI Controller



PAC-YG60MCA

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

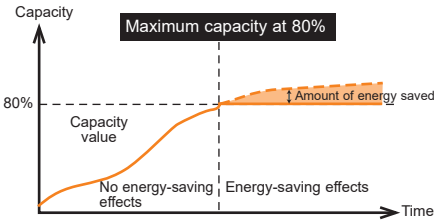
The PI controller counts pulses from a power meter, gas meter, water meter, and calorimeter.
By combining the AE-200A/AE-50A/EW-50A, the charges for each unit can be calculated and peak cut (e.g., demand control) operations can be performed.
The meters can be monitored on the AE-200A/AE-50A LCD.

Energy Saving Control (Peak Cut)

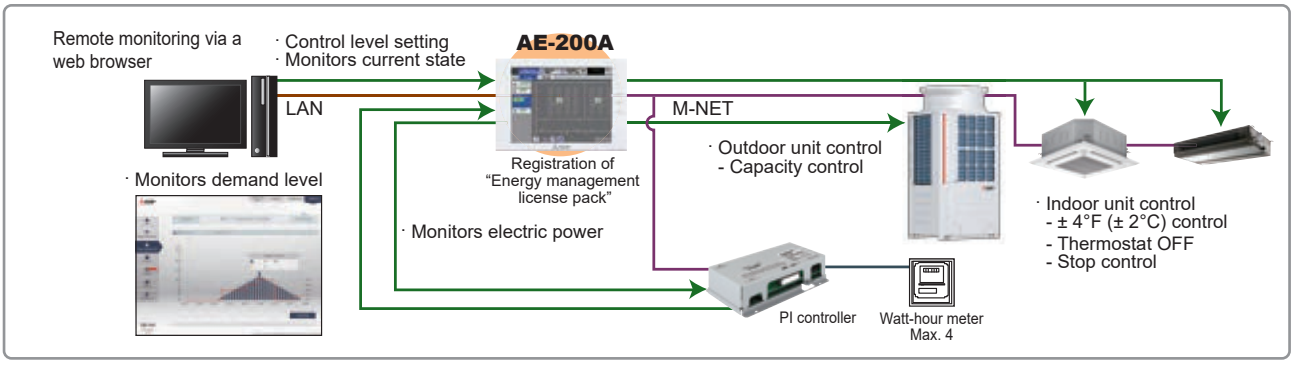
The PI controller enables energy saving control.
(Registration of the "Energy management license pack" is required.)

Energy saving is achieved by controlling the capacity of the outdoor unit.

*Note that when using energy saving control, there are no warranties for failures such as usages exceeding the contracted electricity amount.



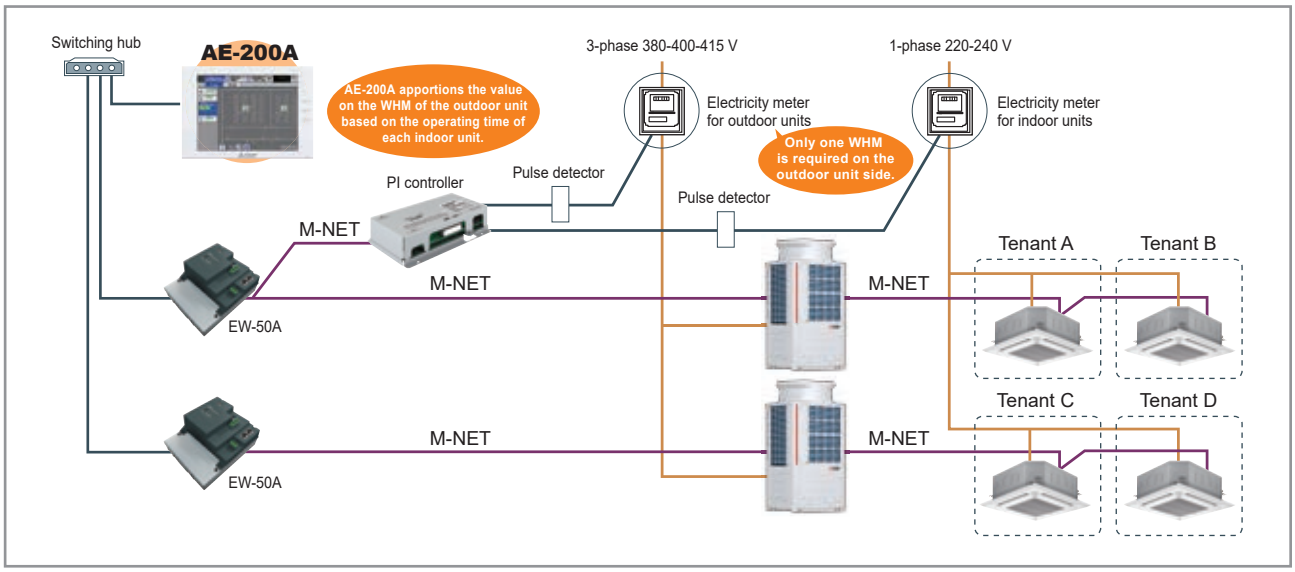
• System structure



Charge Calculation

• System structure

The charges for each tenant are calculated and output as a CSV file.



DIDO Controller



PAC-YG66DCA

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

The DIDO controller is used in combination with the AE-200A/AE-50A/EW-50A to operate general-purpose equipment, as well as to monitor operating and error status. It is equipped with two sets of standard terminals (Channels 1 and 2), and four sets of expansion connectors for the input/output terminals.
The expansion cable is optional.
Operation can be monitored or performed from the AE-200A/AE-50A LCD.
In addition, this device includes a function that interlocks M-NET devices such as indoor units, general equipment, etc.

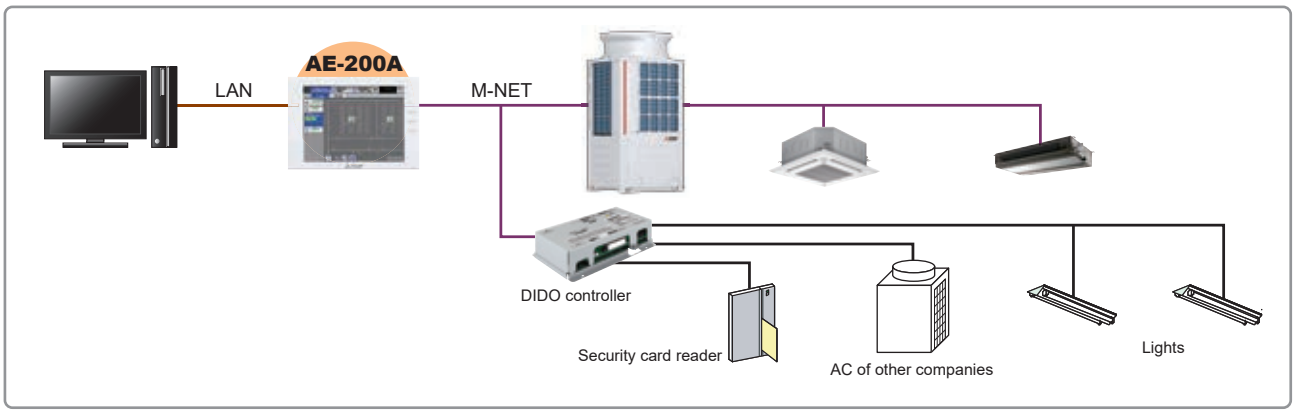
Control of general-purpose equipment

Equipment other than air conditioners (air conditioners of other companies, lights, ventilators, etc.) can be controlled and monitored.

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



• System structure



AI Controller



PAC-YG63MCA

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

The AI controller measures temperature and humidity; it also has an alarm capability if the measurement data exceeds defined setpoints. Measurement data history can be displayed only via the AE-200A/AE-50A/EW-50A web browser.
Temperature and humidity can be displayed on the AE-200A/AE-50A LCD. Furthermore, an alarm can be output if measurement data exceeds a preset upper or lower limit.
The AI controller also features a function that interlocks M-NET devices for indoor units, etc.

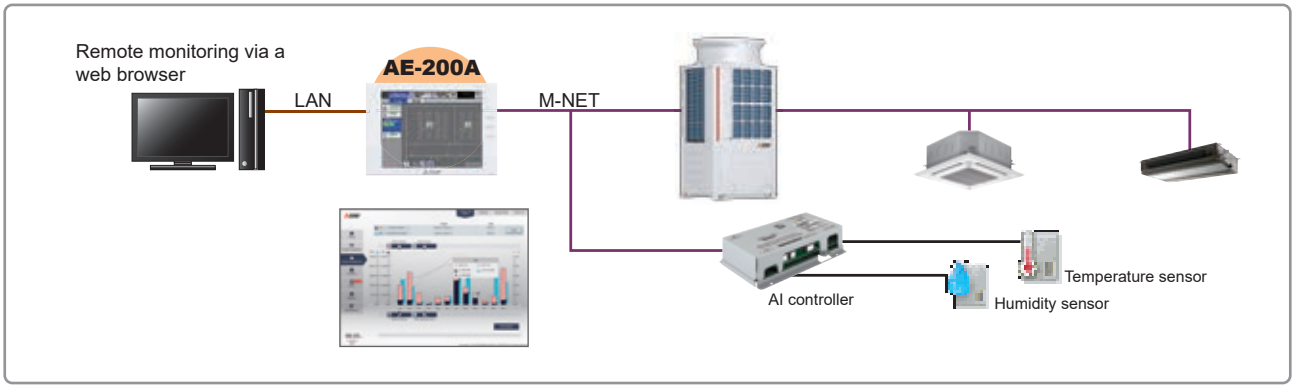
Temperature/humidity monitoring

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

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

- Measurement data trends can be displayed on a web browser.
- An alarm can be output by e-mail when measurement data exceeds a preset upper or lower limit.

• System structure



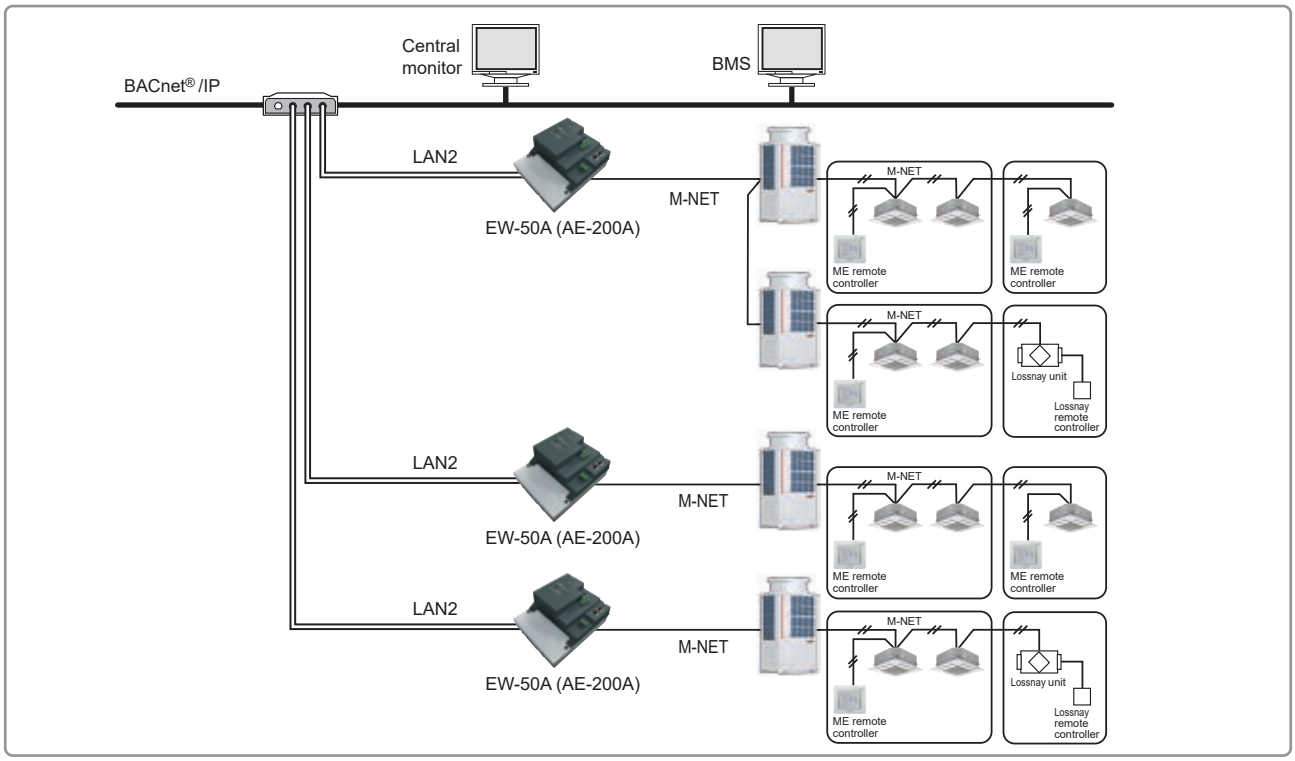
BACnet®

CITY MULTI can be easily combined with a Building Management System (BMS) via the EW-50A (AE-200A). BACnet® is an open transmission protocol widely used in BMS and related equipment control. CITY MULTI is compatible with large-scale BMS management via BACnet®.

EW-50A (AE-200A) can control up to 50 units/groups (including Lossnay).

*To use the BACnet® function with the EW-50A (AE-200A), BACnet® license registration is required.

• System example



• BACnet® and M-NET adapter

FUNCTION	CONTENT
Operation	
ON/OFF	ON/OFF
Mode	Cool/Dry/Heat/Auto/Fan/Setback
Fan Speed	Low-Mid2-Mid1-High-Auto
Air Direction	Horiø ntal-60%-80%-100%swing
Set Temperature	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.
Filter Sign Reset	Normal/Reset
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp, Fan speed
Forced Off	Reset/Execute
Ventilation Mode	Heat Recovery/Bypass/Auto
Air to Water Mode	Heating/Heating ECO/Hot Water/ Anti-freeø /Cooling

FUNCTION	CONTENT
Monitoring	
ON/OFF	ON/OFF
Mode	Cool/Dry/Heat/Auto/Fan/Setback
Fan Speed	Low-Mid2-Mid1-High-Auto
Air Direction	Horiø ntal-60%-80%-100%swing
Set Temperature	Changes the set temperature. * Set temperature range varies depending on the indoor unit model.
Filter Sign	ON/OFF
Permit/Prohibit	ON/OFF, Mode, Filter sign reset, Set temp, Fan speed
Indoor Temperature	Temperature
Alarm Signal	Normal/Error
Error Code	2 Character code- Indicates all unit alarms
Error Code Detail	4 Character code- Indicates all unit alarms
Communication State	Normal/Error
Ventilation Mode	Heat Recovery/Bypass/Auto
Air to Water Mode	Heating/Heating ECO/Hot Water/Anti-freeø /Cooling
Apportioned Electric Energy	Group, Interlocked Units 0.1 kWh
PI controller Electric Energy	0.1 kWh
Apportionment Parameter	Available*
Night Purge State	ON/OFF
Thermo On/Off State	ON/OFF
External Heat Source State	ON/OFF
Trend Log	Indoor Temp, Apportioned Electric Energy, PI controller Electric Energy, Apportionment Parameter

* To use this function, the license to charge, AE-200A (not connected to the M-NET), PI controller, watt-hour meter with pulse transmitter (locally available one) are required.

Optional parts

• For CONTROL

Model	Description
PAC-SE42TS-E	Remote Sensor for A/J/K/M-Net Control
PAC-SE55RA-E	Remote ON/OFF adapter for Indoor Unit
PAC-SA88HA-EP	Multiple Remote Controller Adapter
PAC-SC37SA-E	Output signal connector
PAC-SC36NA-E	Input signal connector
PAC-SF46EPA-G	Transmission booster
PAC-YG10HA-E	External input/output adapter for AE-200A

Model	Description
PAC-YG82TB-J	Mounting attachment for AE-200A wall-mount installations
PAC-YG84UTB-J	Electrical box for AE-200A wall-embed installations
PAC-YG86TK-J	Mounting kit for AE-200A wall-mount installations
PAC-YG72CWL-J	Surface cover with USB port for AE-200A



Certificate Number FM33568

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality warranties for the production of refrigeration and air conditioning equipment.

ISO Authorization System
The ISO 9000 series is a plant authorization system relating to quality warranties as stipulated by the ISO. ISO 9001 certifies quality warranties based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



Certificate Number

The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).



Mitsubishi Electric Sales Canada Inc.

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