

# CITY-MULTI®

## AIR SOURCE UNITS

# H2i (Hyper Heating Inverter) Type

## PUHY HP T/YNU-A PURY HP T/YNU-A

This type can operate at outside temperatures down to -32°C [-22°F] and is available in a wide lineup.

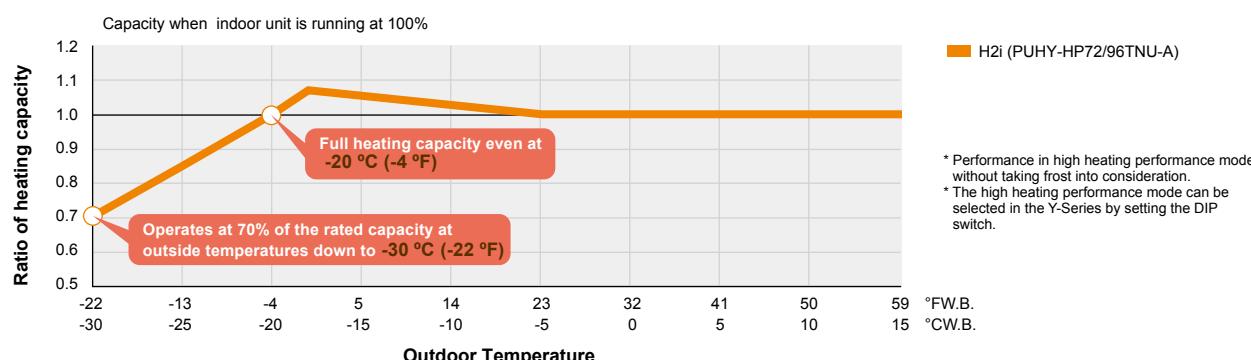


## High heating performance

The H2i-type has large-capacity compressors with an injection function in the suction chamber and capable of performing heating operation at outside temperatures down to -30°C [-22°F]. 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 -20°C [-4°F]\*.

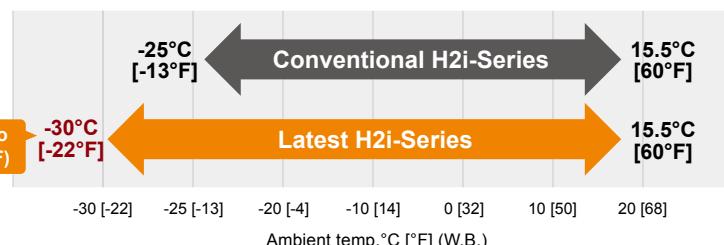
\* The HP120 model operates at full heating capacity at temperatures down to -15°C [5°F].

### Heating capacity (high heating performance mode)



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

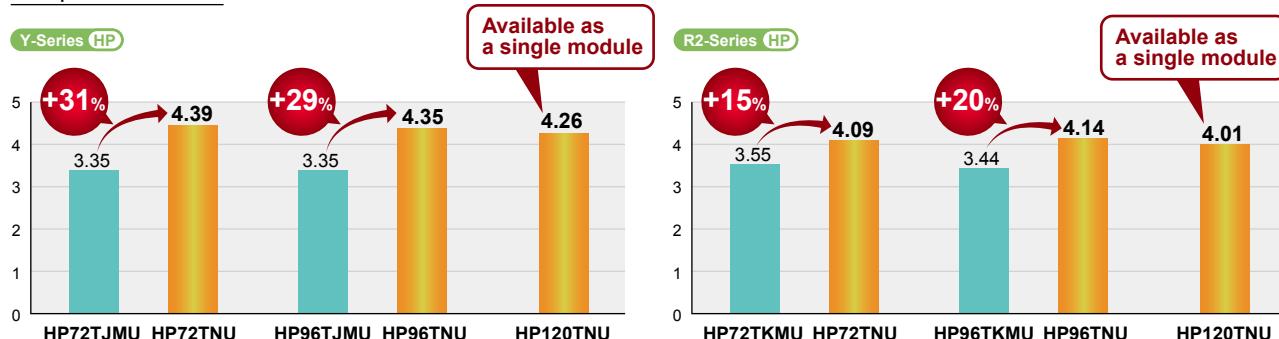
Heating operation is guaranteed at temperatures down to -30°C (-22°F), helping to create comfortable spaces in cold mornings and evenings, and even in harsh climates.



## 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.



\* These images show the R2-Series.

## Wide line-up

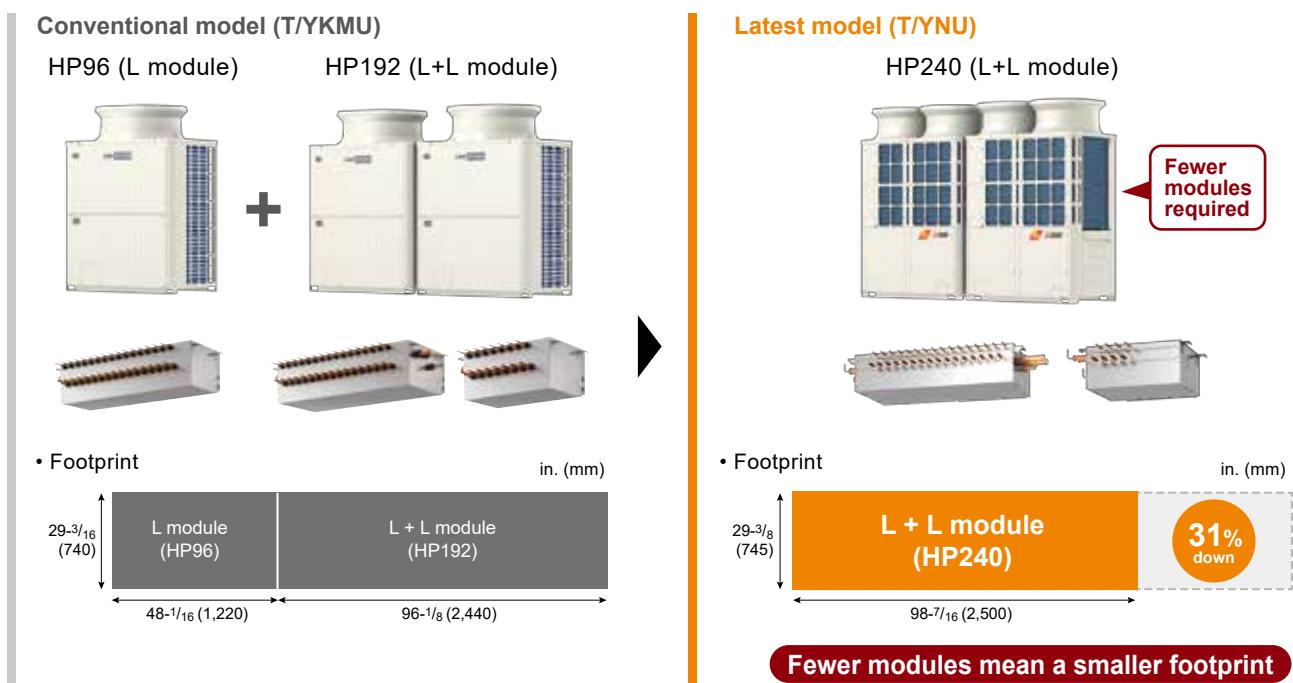
Single modules are available up to HP120 for both the Y and the R2-Series. The combination modules are available in a lineup of up to HP240. These units require smaller installation space and provide greater flexibility in the selection of models.

		HP72	HP96	HP120	HP144	HP192	HP240
<b>Conventional model</b> 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	—
<b>Latest model</b> HP-T(Y)NU-A	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



# High efficiency & standard type



## PUHY (E)P T/YNU-A PURY (E)P T/YNU-A

\* 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 new single large capacity module is available for the high efficiency type.

The newly released "EXL" module has an extended heat exchanger and the same footprint as the XL module.

### Comparison of high efficiency modules



### Expanded lineup

Newly available single module

#### Y-Series EP Single

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

#### R2-Series EP Single

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

#### Y-Series EP Combination

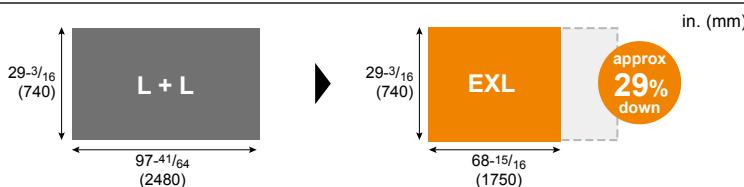
	EP72	EP96	EP120	EP144	EP168	EP192	EP216	EP240	EP264	EP288	EP312	EP336	EP360	EP384	EP408	EP432
T/YLMU	—	—	—	S+S	S+L	S+XL	L+XL	XL+XL	S+S+XL	S+L+XL	S+XL+XL	L+XL+XL	XL+XL+XL	—	—	—
<b>T/YNU</b>	—	—	—	—	—	L+L	L+L	L+L	S+L+L	S+L+L	S+L+L	L+L+L	L+L+L	L+L+L	L+L+L	L+L+L

#### R2-Series EP Combination

	EP72	EP96	EP120	EP144	EP168	EP192	EP216	EP240	EP264	EP288	EP312	EP336	EP360	EP384	EP408	EP432
T/YKMU	—	—	—	—	L+L	L+L	L+XL	XL+XL	XL+XL	XL+XL	—	—	—	—	—	—
<b>T/YNU</b>	—	—	—	—	—	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	EXL+EXL	EXL+EXL	EXL+EXL	EXL+EXL

### Foot print

EP216 **L + L → EXL**

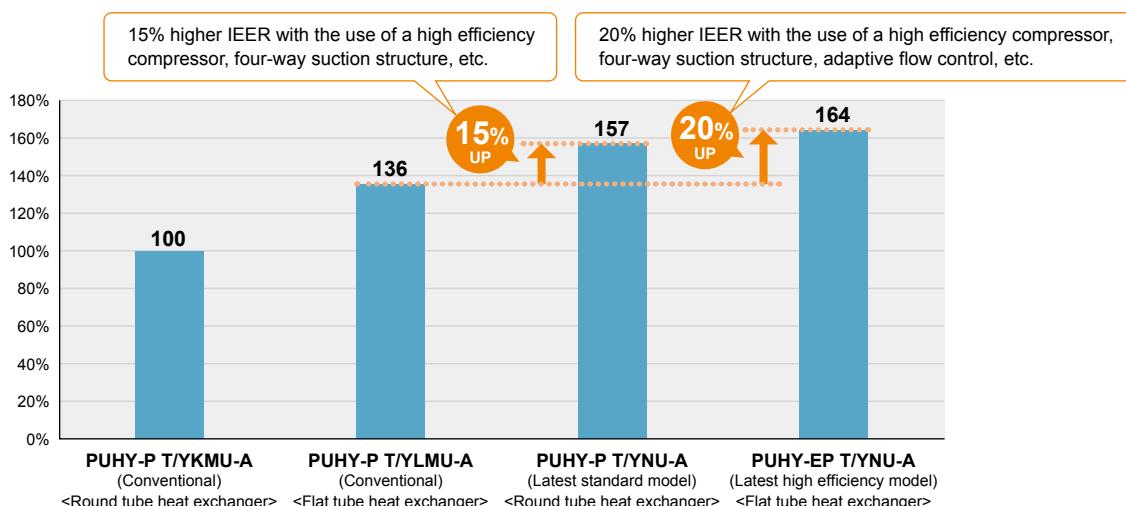


## Energy Saving

The latest model realizes the industry's top-class energy saving performance. The 8 ton (P96) model of the Y-Series, the best selling model in the VRF lineup, delivers 15% greater seasonal efficiency compared to the conventional T/YLMU model. As a result, the unit consumes less power in both cooling and heating modes throughout the year.

### • Y-Series

#### Comparison of seasonal efficiency (IEER) in 8 ton (P96) models



\* This graph shows the rate of increase when the IEER of PUHY-P T/YKMU-A models is 100.

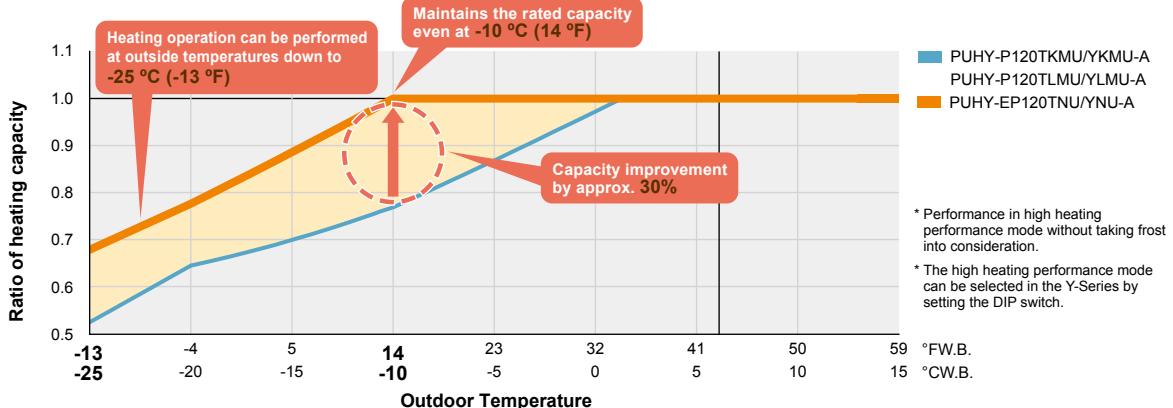
## Heating capability

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 -25°C [-13°F], this model achieves the rated heating performance at temperatures down to -10°C [14°F].

\* 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

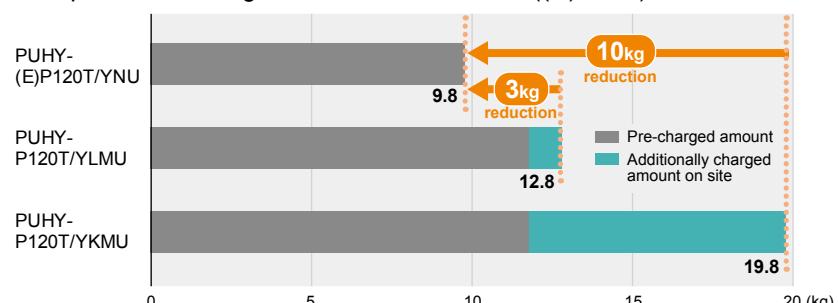
Y-Series EP Y-Series P

The four-way suction structure and new 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

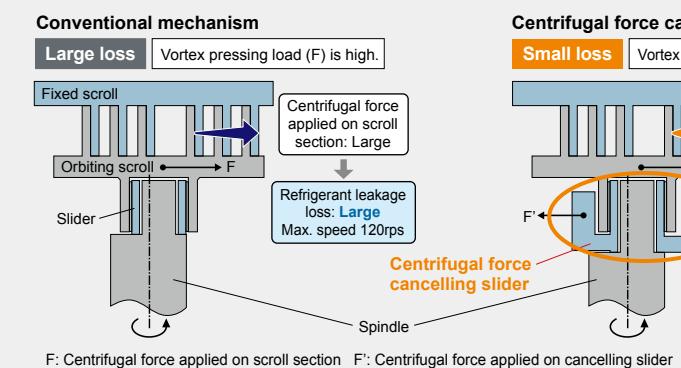
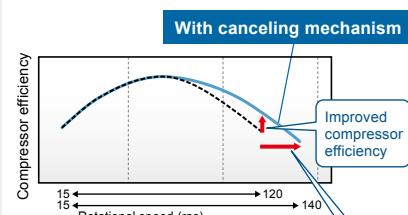
The compressor, known as the heart of the air conditioner, has been newly developed. A new centrifugal force canceling mechanism and a new multi-port mechanism have been developed. In addition, we have mounted a high-efficiency motor. The synergistic effect of these new technologies increases the compressor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

## Centrifugal force canceling mechanism

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

With the new compressor, a new 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 new mechanism also speeds up the start of operation, and enables operations such as preheat defrost operation and the smooth auto-shift startup mode.



Max. speed 120rps → 140rps contribute to speedy compressor start up

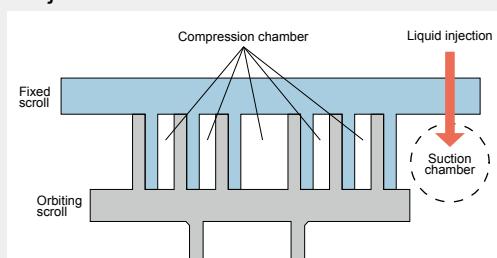


## Powerful compressor with suction chamber injection mechanism

**Y-Series HP** **Y-Series EP** **R2-Series HP** **R2-Series EP**

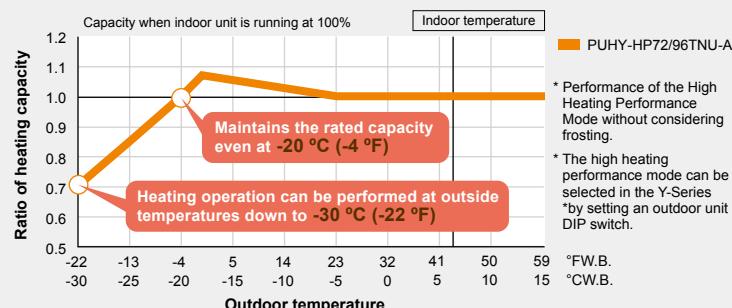
The EP/HP models are equipped with a compressor having a large capacity than that of the P models (except PURY-EP168). They are also equipped with a suction chamber injection mechanism. Owing to this, HP models can perform heating operation even at an outside temperature of -30°C (-22°F), and heating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



## Change in refrigerant oil in the compressor

**Y-Series HP** **R2-Series HP**

When conventional H2i-Series systems are operated at low temperatures below the guaranteed range, the refrigerant oil may become clouded and its circulation may decrease. The new 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 -30°C (-22°F).

## Multi-port mechanism

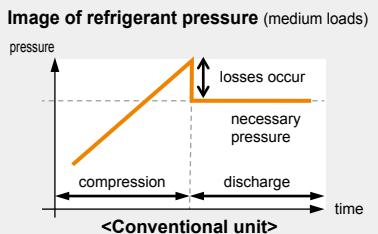
**Y-Series HP** **Y-Series EP** **Y-Series P** **R2-Series HP** **R2-Series EP** **R2-Series P**

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 new compressor is equipped 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 of the scroll, then discharged with constant pressure.

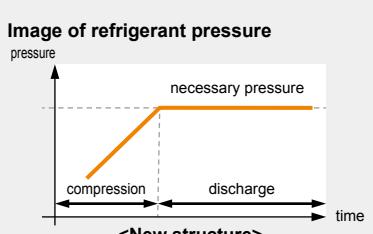
This means that the refrigerant tends to be compressed to higher than necessary pressure during low loads.



### New structure

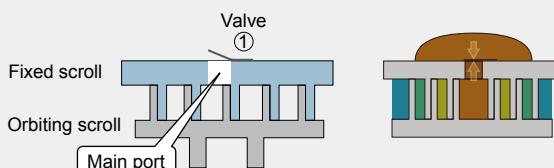
The new compressor equipped with two sub-ports in addition to the discharge port at the center, and it realizes discharge according to air conditioning loads.

The suppression of over-compression contributes to improve the operation efficiency of partial load.



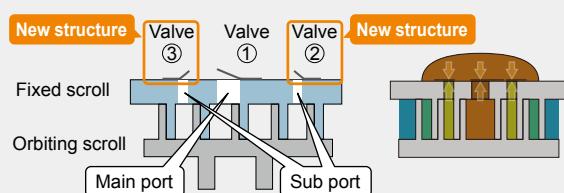
The new structure multi-port compressor, equipped with two sub-ports which open and close according to loads, discharges refrigerant from the sub-port during the partial load operation.

### Conventional structure



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

### New structure • Multi-port



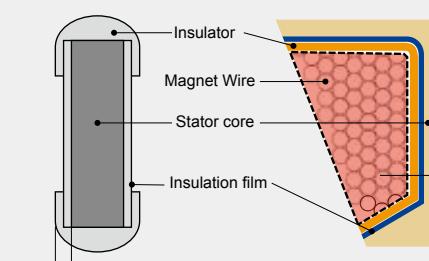
Operation pattern			
Partial load	Rating, high pressure difference		
Main port	Valve ① open	open	open
Sub port	Valve ② open	close	
	Valve ③ open	close	

## 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.

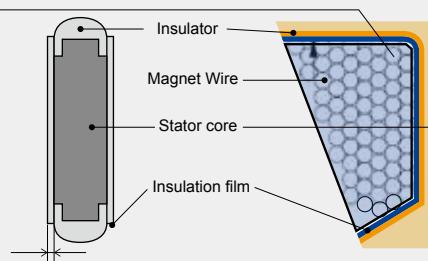
### Conventional model (T/YLMU)



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

Increase in area available for winding

### New model (T/YNU)



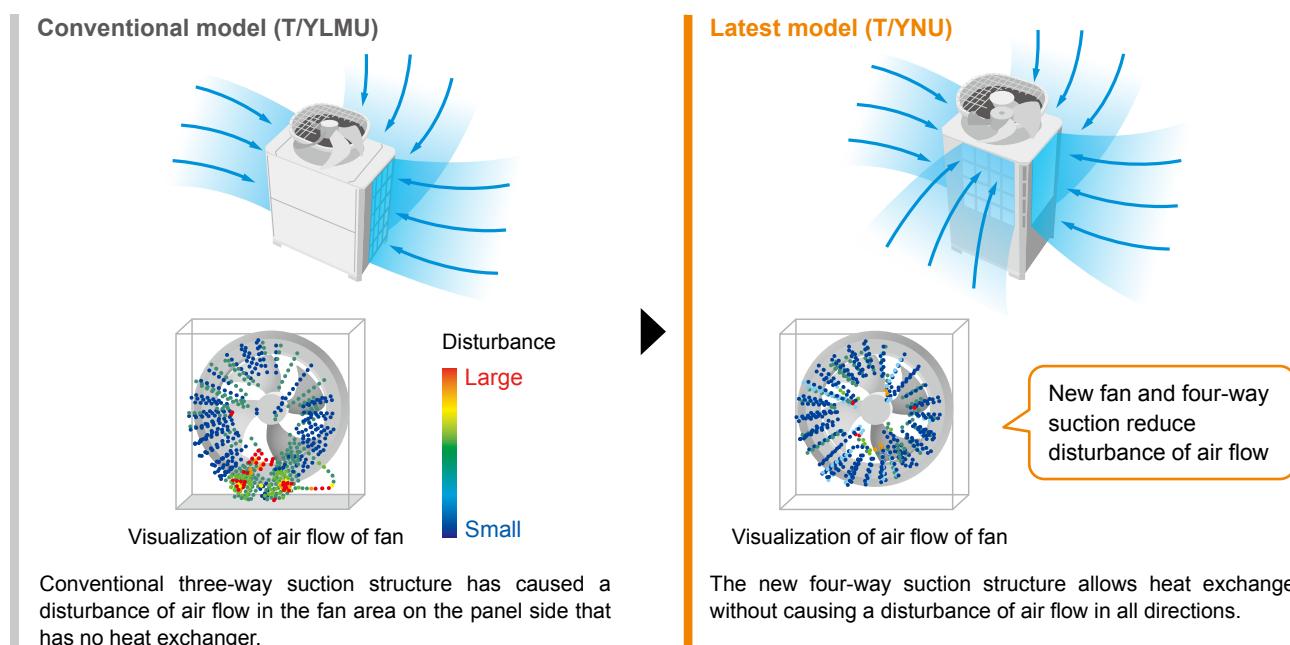
The motor can be wound in the section where the insulator was, and a larger wire diameter can be used.

## Key components of TNU/YNU model

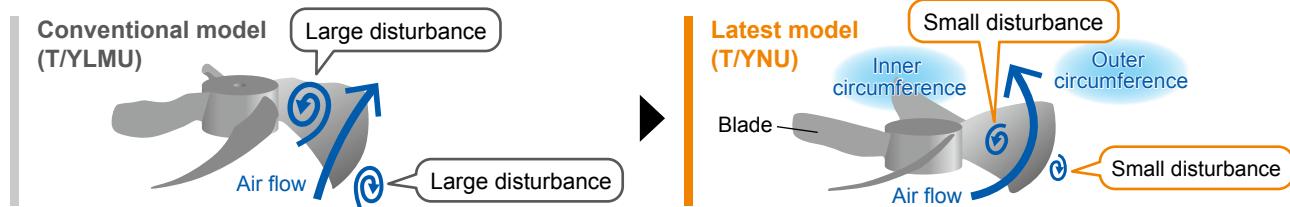
### Four-way suction structure

Y-Series (HP) Y-Series (EP) Y-Series (P) R2-Series (HP) R2-Series (EP) R2-Series (P)

- Air suction structure



- Fan structure



New concave-shaped blade of the propeller fan allows a change in 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.

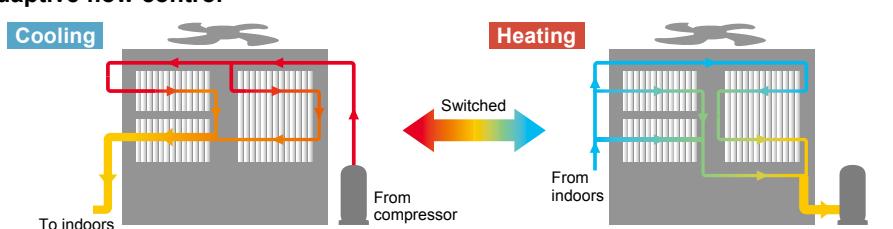
Furthermore, the change of the orientation of the fan blade from the outer circumference direction to the inner circumference direction reduces air leakage from the outer circumference and sends more air to the upstream of the fan.

## Adaptive flow control

Y-Series (EP) (-EP144)

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

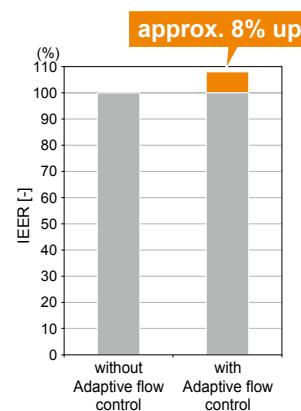
### Adaptive flow control



- 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 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.

Comparison of EP120 (Y-Series) IEER (cooling) with and without variable path

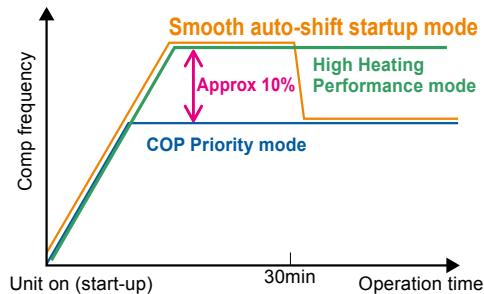


## Key functions

### 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, a new 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

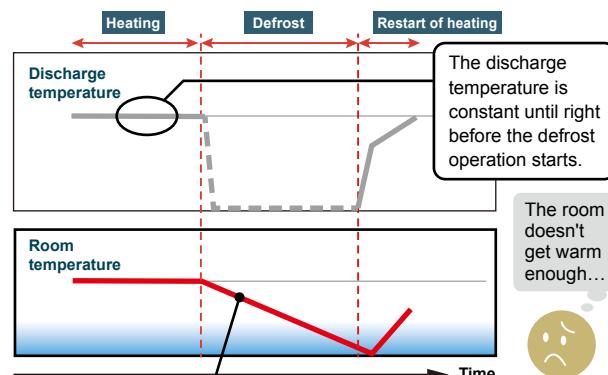
**Y-Series HP** **Y-Series EP** **Y-Series P** **R2-Series HP** **R2-Series EP** **R2-Series P**

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

#### Preheat defrost ON/OFF

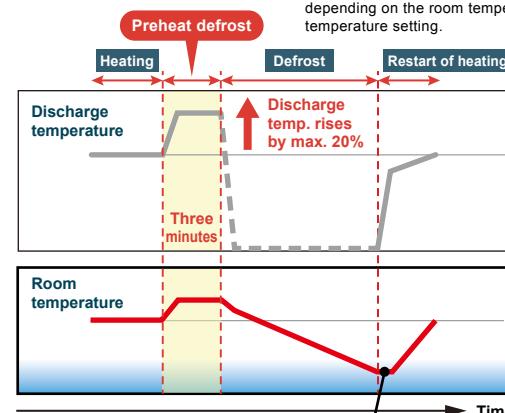
Example Outdoor unit: P168, Indoor temp.: 20°C (68°F), Outdoor temp.: 2°C (36°F) DB/1°C (34°F) WB, Heating load: 100%

##### 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.

### 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 new model, the data can be retrieved quickly via USB\*. 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\*\*.

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

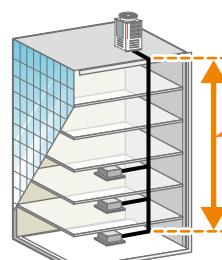
\*2 USB memory devices conforming to USB2.0 can be used.

### Usable in an application with a large vertical separation of up to 295 feet (90 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 295 ft (90 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.



Height difference from outdoor unit to indoor unit:  
The system can be configured with a height difference of up to **295 ft (90 m)** **with no extra-cost options.**

\* 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 NKMU1

- 3/4 ton (P36/48)
- The new flash injection circuit improves the heating performance at low outside temperatures.



Standard

PUMY-P NKMU3(-BS)

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



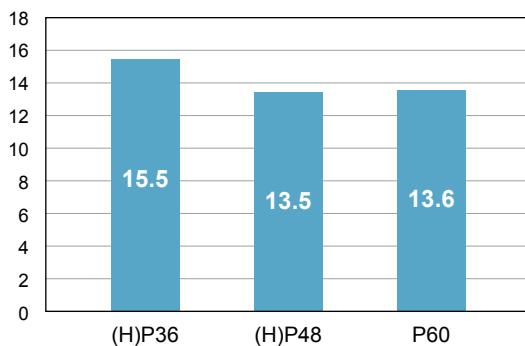
## All models ENERGY STAR® certified

H2i

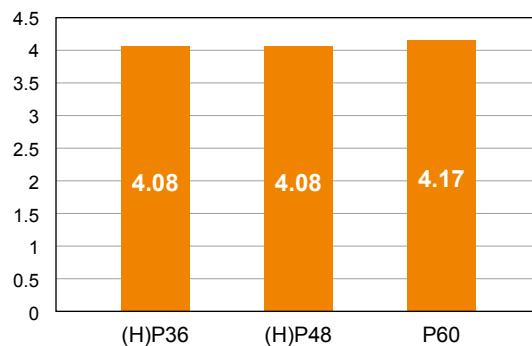
Standard

All models, both H2i and standard types have Certified ENERGY STAR ratings®, even with its compact size and light weight, PUMY-Series has a high EER and COP.

■ EER



■ COP



## High transportability for installation in narrow spaces

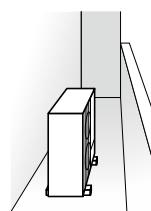
H2i

Standard

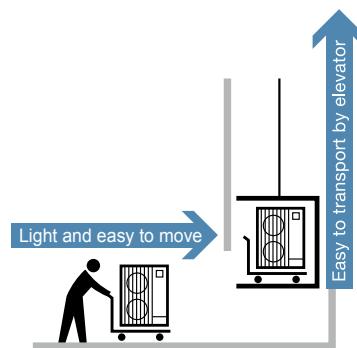
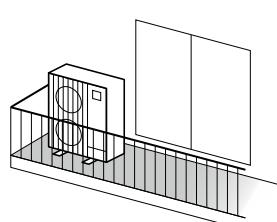
These units are lighter and have greater mobility compared to the top-flow models, allowing for easier transportation and installation.

Smaller depth allows the unit to fit in narrow spaces.

- Small space



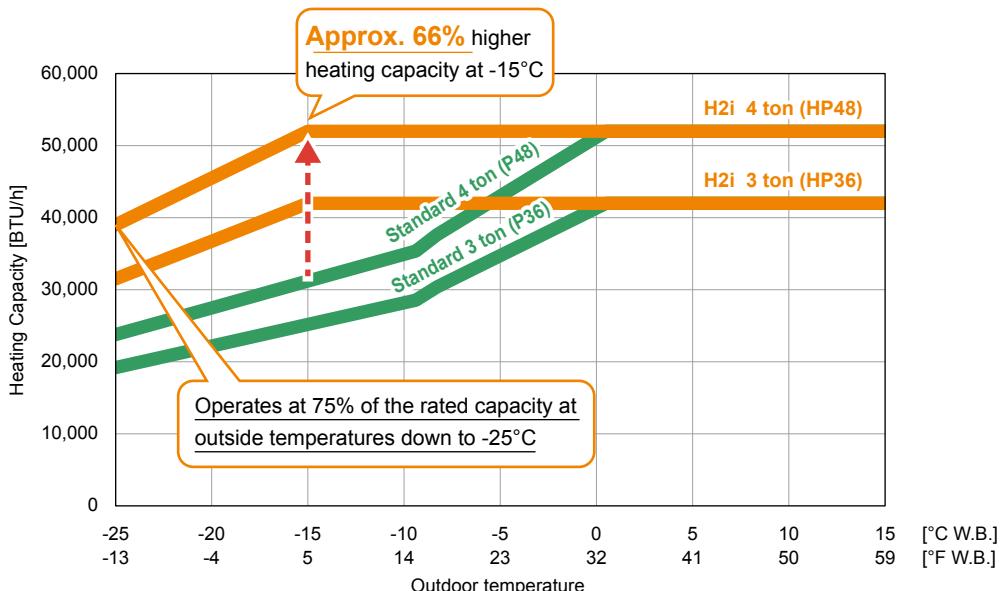
- On the balcony



## Improved heating performance

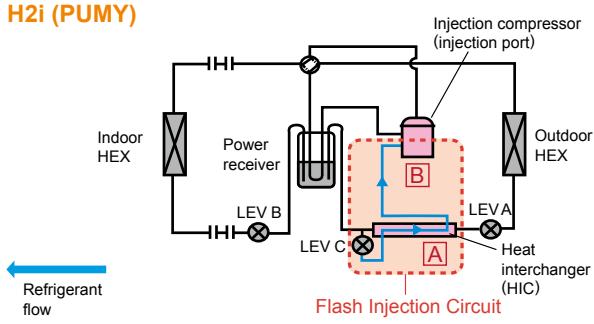
H2i

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 -15°C (5°F). The guaranteed heating operation range of the heating mode has been extended to -25°C (-13°F).



- Flash Injection Circuit

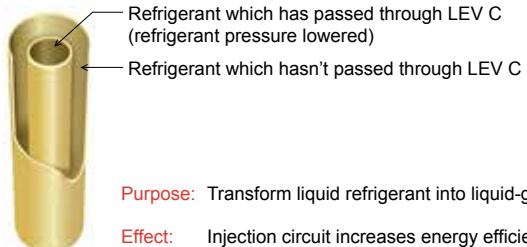
### H2i (PUMY)



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)

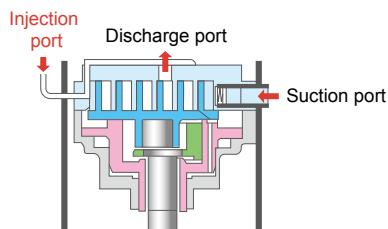
HIC cross-sectional view



Purpose: Transform liquid refrigerant into liquid-gas state

Effect: Injection circuit increases energy efficiency

#### 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

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.

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.

# Y-Series

Heating or Cooling Heat pump

- Optional parts

- Specifications

460V	H2i	<b>PUHY-HP T(Y)NU-A(-BS)</b>
208-230V	High efficiency	<b>PUHY-EP T(Y)NU-A(-BS)</b>
575V	Standard	<b>PUHY-P T(Y)NU-A(-BS)</b>
575V	Standard	<b>PUHY-P ZKMU-A(-BS)</b>



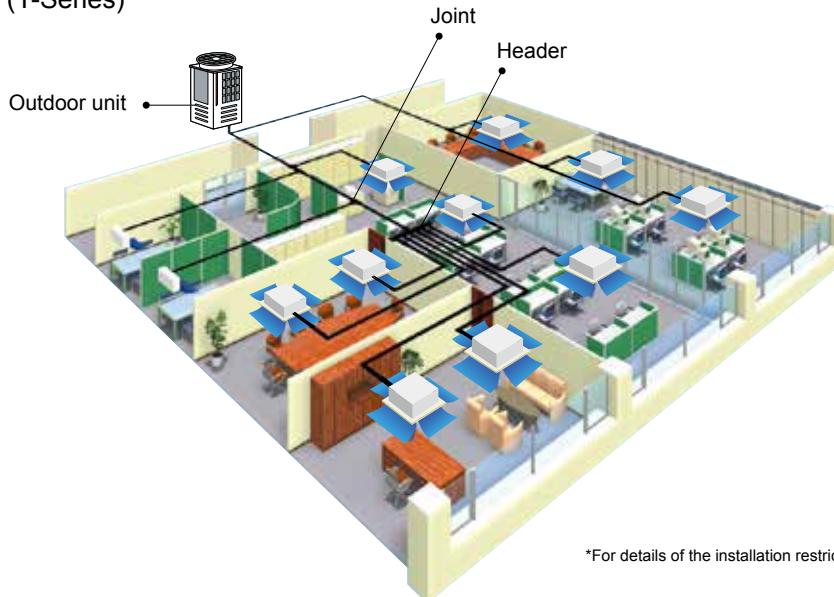
\*This image shows the standard type.

## 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 heating to cooling, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes 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 maximize engineering design options. This feature allows easy air conditioning in each area with convenient individual controllers.

- Installation image (Y-Series)



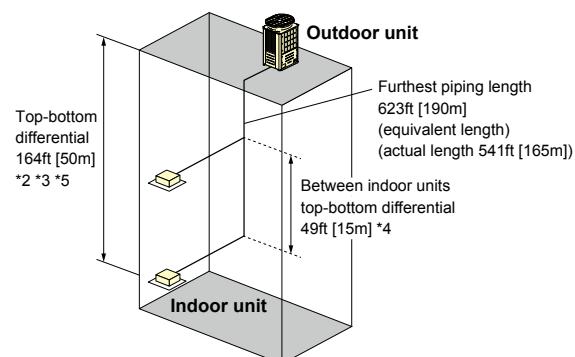
\*For details of the installation restrictions, refer to the DATABOOK.

- 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 size larger liquid pipe starting with the section of piping where 131ft [40m] is exceeded and all piping after that point.

\*2 295ft [90m] 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 size 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-A, PUHY-HP144T/YSNU-A
	CMY-Y300CBK2	For PUHY-(E)P264-(E)P432T/YSNU-A, PUHY-HP192-HP240T/YSNU-A
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 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-Y100CBK3	For P168-P240 ZSKMU	
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
	CMY-Y202S-G2	145-240 (Total capacity of indoor unit)	The 1st branch of P168-P240ZSKMU
	CMY-Y302S-G2	241 or above (Total capacity of indoor unit)	The 1st branch of P264-P360ZSKMU
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-A



#### ► Specifications

Outdoor Model	PUHY-HP72TNU-A		PUHY-HP96TNU-A		PUHY-HP120TNU-A	
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) (208-230)	*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
	Current input A	16.6-15.0		19.2-17.3		26.3-23.7
	BTU / h	69,000		92,000		114,000
	kW	20.2		27.0		33.4
	Power input kW	4.90	5.07	5.71	5.82	7.67
	Current input A	15.1-13.6	15.6-14.1	17.6-15.9	17.9-16.2	23.6-21.3
	Temp. range of cooling	Indoor W.B. Outdoor D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)
Heating capacity (Nominal) (208-230)	*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
	Current input A	16.4-14.8		22.6-20.4		29.7-26.8
	BTU / h	76,000		103,000		129,000
	kW	22.3		30.2		37.8
	Power input kW	4.83	5.04	6.65	6.92	8.55
	Current input A	14.8-13.4	15.5-14.0	20.5-18.5	21.3-19.3	26.3-23.8
Temp. range of heating	Indoor D.B. Outdoor W.B.	59~81°F (15~27°C) -22~60°F (-30~15.5°C)				
Indoor unit connectable	Total capacity Model / Quantity	50~130% of outdoor unit capacity P04~P72/1~18	50~130% of outdoor unit capacity P04~P96/1~24	50~130% of outdoor unit capacity P04~P96/1~30		
Sound pressure level (measured in anechoic room)	*3 dB <A>	55.0/57.0		56.0/58.5		59.5/61.5
Sound power level (measured in anechoic room)	*3 dB <A>	74.0/76.0		75.0/77.5		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 ≥ 90 m)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length ≥ 40 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				
Minimum Circuit Ampacity	A	38-35		43-40		47-43
Maximum Overcurrent Protection	A	60-50		70-60		70-60
FAN	Type x Quantity	Propeller fan x 2				
	Airflow rate cfm	6,700		7,400		7,750
	m³ / min	190		210		220
	L / s	3,170		3,500		3,670
	Control, Driving mechanism	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)				
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1				
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output kW	3.8 x 1		4.5 x 1		6.5 x 1
	Case heater kW	-	-	-	-	-
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>	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. mm	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745
Protection devices	High pressure protection Inverter circuit (COMP/FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -
Refrigerant	Type x original charge Control	R410A x 21 lbs + 10 oz (9.8 kg) LEV and HIC circuit	R410A x 23 lbs + 12 oz (10.8 kg) LEV and HIC circuit	R410A x 23 lbs + 12 oz (10.8 kg) LEV and HIC circuit	R410A x 23 lbs + 12 oz (10.8 kg) LEV and HIC circuit	R410A x 23 lbs + 12 oz (10.8 kg) LEV and HIC circuit
Net weight	lbs (kg)	609 (276)		653 (296)		655 (297)
Heat exchanger		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 Header: CMY-Y104/108/1010C-G	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 Heating and Cooling 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-A



#### ► Specifications

Outdoor Model		PUHY-HP144TSNU-A		PUHY-HP192TSNU-A		PUHY-HP240TSNU-A							
Indoor Model		Non-Ducted		Ducted		Non-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						
				BTU / h	138,000	184,000	228,000						
				kW	40.4	53.9	66.8						
				Power input	kW	10.98	12.58						
				Current input	A	33.8-30.6	11.61						
						38.7-35.0	12.94						
						39.9-36.0	17.78						
							18.08						
							54.8-49.5						
							55.7-50.4						
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	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						
				BTU / h	152,000	206,000	258,000						
				kW	44.5	60.4	75.6						
				Power input	kW	10.50	11.15						
				Current input	A	32.3-29.2	14.39						
						34.3-31.0	15.06						
							46.4-42.0						
							60.0-54.3						
							61.9-56.0						
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)						
	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 pressure level (measured in anechoic room)	*3	dB <A>	58.5/60.5		59.5/62.0		63.0/65.0						
Sound power level (measured in anechoic room)	*3	dB <A>	77.5/79.5		78.5/81.0		83.0/84.0						
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	PUHY-HP72TSNU-A		PUHY-HP72TSNU-A		PUHY-HP96TSNU-A		PUHY-HP96TSNU-A		PUHY-HP120TSNU-A		PUHY-HP120TSNU-A		
Minimum Circuit Ampacity	A	38-35		38-35		43-40		43-40		47-43		47-43	
Maximum Overcurrent Protection	A	60-50		60-50		70-60		70-60		70-60		70-60	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2									
	Airflow rate	cfm	6,700		6,700		7,400		7,400		7,750		7,750
		m³ / min	190		190		210		210		220		220
		L / s	3,170		3,170		3,500		3,500		3,670		3,670
	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)									
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1									
	Starting method	Inverter		Inverter									
	Motor output	kW	3.8 x 1		3.8 x 1		4.5 x 1		4.5 x 1		6.5 x 1		6.5 x 1
	Case heater	kW	-	-	-	-	-	-	-	-	-	-	
External finish	Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.0 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.0 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.0 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.0 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.0 or similar>		Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.0 or similar>		
External dimension H x W x D	in.	71-5/8 x 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8									
	mm	1,818 x 1,250 x 745		1,818 x 1,250 x 745									
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		Over-current protection	
	Inverter circuit (COMP/FAN)	Over-current protection		Over-current protection									
	Fan motor	-	-	-	-	-	-	-	-	-	-	-	
Refrigerant	Type x original charge	R410A x 21 lbs + 10 oz (9.8 kg)		R410A x 21 lbs + 10 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									
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										
Pipe between unit and distributor	Liquid pipe	in. (mm)	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						
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		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 Heating and Cooling 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 YNU-A



## ► Specifications

Outdoor Model	PUHY-HP72YNU-A		PUHY-HP96YNU-A		PUHY-HP120YNU-A	
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
	Current input A	7.5		8.6		11.8
(Rated)	BTU / h	69,000		92,000		114,000
	kW	20.2		27.0		33.4
	Power input kW	4.90	5.07	5.71	5.82	7.67
	Current input A	6.8	7.0	7.9	8.1	10.6
(460)	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)
Temp. range of cooling						
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
	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	6.92	8.55
	Current input A	6.7	7.0	9.2	9.6	11.9
(460)	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)
Temp. range of heating						
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 pressure level (measured in anechoic room) *3	dB <A>	55.0/57.0		56.0/58.5		59.5/61.5
Sound power level (measured in anechoic room) *3	dB <A>	74.0/76.0		75.0/77.5		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	17		20		21
Maximum Overcurrent Protection	A	25		30		35
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2		Propeller fan x 2
	Airflow rate cfm	6,700		7,400		7,750
	m³ / min	190		210		220
	L / s	3,170		3,500		3,670
	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)		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 x 1		4.5 x 1		6.5 x 1
	Case heater kW	-		-		-
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>		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 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8
	mm	1,818 x 1,250 x 745		1,818 x 1,250 x 745		1,818 x 1,250 x 745
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 21 lbs + 10 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		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 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G

### Notes:

\*1,\*2 Heating and Cooling 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-A



## ► Specifications

Outdoor Model		PUHY-HP144YSNU-A		PUHY-HP192YSNU-A		PUHY-HP240YSNU-A		
Indoor Model		Non-Ducted		Ducted		Non-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		240,000	
		kW	42.2		56.3		70.3	
	(460)	Power input	kW	12.20	13.79		19.37	
		Current input	A	17.0	19.2		27.0	
	(Rated)	BTU / h	138,000		184,000		228,000	
		kW	40.4		53.9		66.8	
	(460)	Power input	kW	10.98	11.61	12.58	12.94	
		Current input	A	15.3	16.1	17.5	18.0	
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	
	(460)	Power input	kW	11.70	15.91		21.38	
		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	
	(460)	Power input	kW	10.50	11.15	14.39	15.06	
		Current input	A	14.6	15.5	20.0	21.0	
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)	
	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 pressure level (measured in anechoic room)	*3	dB <A>	58.5/60.5		59.5/62.0		63.0/65.0	
Sound power level (measured in anechoic room)	*3	dB <A>	77.5/79.5		78.5/81.0		83.0/84.0	
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	
<b>Set Model</b>								
Model		PUHY-HP72YNU-A	PUHY-HP72YNU-A	PUHY-HP96YNU-A	PUHY-HP96YNU-A	PUHY-HP120YNU-A	PUHY-HP120YNU-A	
Minimum Circuit Ampacity	A	17	17	20	20	21	21	
Maximum Overcurrent Protection	A	25	25	30	30	35	35	
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	6,700	6,700	7,400	7,400	7,750	
		m³ / min	190	190	210	210	220	
		L / s	3,170	3,170	3,500	3,500	3,670	
	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	
	*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 x 1	3.8 x 1	4.5 x 1	4.5 x 1	6.5 x 1	
	Case heater	kW	-	-	-	-	-	
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>		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 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	
	mm	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	
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 21 lbs + 10 oz (9.8 kg)	R410A x 21 lbs + 10 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		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/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		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

### Notes:

\*1,\*2 Heating and Cooling 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 High efficiency (208-230V)

### PUHY-EP TNU-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-EP72TNU-A (-BS)		PUHY-EP96TNU-A (-BS)		PUHY-EP120TNU-A (-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	4.58	6.12		8.19
	Current input	A	14.1-12.7	18.8-17.0		25.2-22.8
(Rated)	BTU / h		69,000	92,000		114,000
			20.2	27.0		33.4
(208-230)	Power input	kW	4.09	4.39	5.63	5.70
	Current input	A	12.6-11.4	13.5-12.2	17.3-15.7	17.5-15.8
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.	23~126°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	5.21	7.26		9.63
	Current input	A	16.0-14.5	22.3-20.2		29.7-26.8
(Rated)	BTU / h		76,000	103,000		129,000
			22.3	30.2		37.8
(208-230)	Power input	kW	4.63	5.01	6.59	6.85
	Current input	A	14.2-12.9	15.4-13.9	20.3-18.3	21.1-19.1
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		50~130% 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 pressure level (measured in anechoic room)	*3 dB <A>		55.0/57.0	56.0/58.5		59.5/61.5
Sound power level (measured in anechoic room)	*3 dB <A>		74.0/76.0	75.0/77.5		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		23-21	31-29		40-37
Maximum Overcurrent Protection	A		35-30	45-40		60-50
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2		Propeller fan x 2
	Airflow rate	cfm	6,000	6,700		7,750
		m³ / min	170	190		220
		L / s	2,830	3,170		3,670
	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 x 1	5.4 x 1		7.4 x 1
	Case heater	kW	-	-		-
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-current protection	Over-current 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP144TNU-A (-BS)		PUHY-EP168TNU-A (-BS)		PUHY-EP192TNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted		Non-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		168,000		192,000		
	*1 kW	42.2		49.2		56.3		
	Power input (208-230)	kW	10.63	13.53		16.66		
	Current input (Rated)	A	32.7-29.6	41.7-37.7		51.3-46.4		
		BTU / h	137,000	161,000		183,000		
		kW	40.2	47.2		53.6		
	Power input (208-230)	kW	9.80	12.54	12.50	15.18	15.67	
	Current input	A	30.2-27.3	30.4-27.5	38.6-34.9	38.5-34.8	46.8-42.3	
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		188,000		215,000		
	*2 kW	46.9		55.1		63.0		
	Power input (208-230)	kW	11.84	13.95		16.38		
	Current input (Rated)	A	36.5-33.0	43.0-38.9		50.5-45.6		
		BTU / h	152,000	179,000		205,000		
		kW	44.5	52.5		60.1		
	Power input (208-230)	kW	10.74	12.36	13.47	14.43	15.90	
	Current input	A	33.1-29.9	34.4-31.1	38.1-34.4	41.5-37.5	44.5-40.2	
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~P96/1~36		P04~P96/1~42		P04~P96/1~48		
Sound pressure level (measured in anechoic room)	*3 dB <A>	62.0/64.5		60.0/61.5		61.5/63.5		
Sound power level (measured in anechoic room)	*3 dB <A>	82.5/83.5		78.5/80.5		80.0/82.5		
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	47-44		56-51		68-62		
Maximum Overcurrent Protection	A	70-70		90-80		110-100		
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		
	Airflow rate cfm	9,200		10,600		12,700		
	m³ / min	260		300		360		
	L / s	4,330		5,000		6,000		
	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		0.92±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)		
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	9.3 x 1		11.2 x 1		13.5 x 1		
	Case heater kW	-		-		-		
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>		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		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		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 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)		
Net weight	lbs (kg)	680 (308)		757 (343)		757 (343)		
Heat exchanger	Salt-resistant cross fin & aluminium tube		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-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP216TNU-A (-BS)		PUHY-EP240TNU-A (-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	216,000		240,000	
	*1 kW	63.3		70.3	
	Power input	kW	18.33	21.35	
	(208-230) Current input	A	56.5-51.1	65.8-59.5	
		BTU / h	206,000	222,000	
		kW	60.4	65.1	
	(208-230) Power input	kW	16.83	17.12	20.34
		Current input	A	52.8-47.7	62.7-56.7
					19.20
					59.2-53.5
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	243,000		250,000	
	*2 kW	71.2		73.3	
	Power input	kW	20.00	21.44	
	(208-230) Current input	A	61.6-55.7	66.1-59.7	
		BTU / h	232,000	240,000	
		kW	68.0	70.3	
	(208-230) Power input	kW	17.79	19.24	19.57
		Current input	A	59.3-53.6	60.3-54.5
					20.14
					62.1-56.1
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		50~130% 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)	*3, 4 dB <A>		66.5/67.5		67.5/68.0
Sound power level (measured in anechoic room)	*3 dB <A>		85.5/86.5		86.5/87.0
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		1-3/8 (34.92) Brazed
Minimum Circuit Ampacity	A		71-65		79-73
Maximum Overcurrent Protection	A		110-110		125-110
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2
	Airflow rate cfm		14,100		14,100
	m³ / min		400		400
	L / s		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
	*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		15.5 x 1		16.7 x 1
	Case heater kW		-		-
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 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight	lbs (kg)	874 (396)		874 (396)	
Heat exchanger		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	

#### Notes:

\*1,\*2 Heating and Cooling 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 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-EP192TSNU-A (-BS)		PUHY-EP216TSNU-A (-BS)		PUHY-EP240TSNU-A (-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
	Current input	A	41.8-37.8	48.4-43.7		57.3-51.8
(Rated)		BTU / h	184,000	206,000		228,000
		kW	53.9	60.4		66.8
(208-230)	Power input	kW	12.40	12.72	14.44	14.62
	Current input	A	38.2-34.5	39.2-35.4	44.5-40.2	45.0-40.7
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)	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)	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
	Current input	A	48.5-43.9	56.0-50.7		65.9-59.6
(Rated)		BTU / h	206,000	232,000		258,000
		kW	60.4	68.0		75.6
(208-230)	Power input	kW	14.24	14.89	16.39	17.26
	Current input	A	43.9-39.7	45.9-41.5	50.5-45.7	53.2-48.1
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)	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)	-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 pressure level (measured in anechoic room)	*3 dB <A>	59.5/62.0		61.5/63.5		63.0/65.0
Sound power level (measured in anechoic room)	*3 dB <A>	78.5/81.0		81.0/82.5		83.0/84.0
Refrigerant	Liquid pipe	in. (mm)	5/8 (15.88) Brazed	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	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Set Model						
Model	PUHY-EP96TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)
Minimum Circuit Ampacity	A	31-29	31-29	40-37	31-29	40-37
Maximum Overcurrent Protection	A	45-40	45-40	60-50	45-40	60-50
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6,700	6,700	7,750	7,750
		m³ / min	190	190	220	220
		L / s	3,170	3,170	3,670	3,670
	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
*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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4 x 1	5.4 x 1	7.4 x 1	7.4 x 1
	Case heater	kW	-	-	-	-
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
	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
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 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)	633 (287)	622 (282)	633 (287)
Heat exchanger	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	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	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/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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP264TSNU-A (-BS)		PUHY-EP288TSNU-A (-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 (208-230)	kW	19.61	21.79	
	Current input (Rated)	A	60.4-54.6	67.2-60.7	
	BTU / h (208-230)		253,000	275,000	
			74.2	80.6	
	Power input (208-230)	kW	18.26	20.19	20.15
	Current input (208-230)	A	56.3-50.9	55.6-50.3	62.1-56.2
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (208-230)	kW	22.13	24.54	
	Current input (Rated)	A	68.2-61.7	75.6-68.4	
	BTU / h (208-230)		282,000	308,000	
			82.6	90.3	
	Power input (208-230)	kW	20.41	22.48	22.95
	Current input (208-230)	A	62.9-56.9	63.4-57.3	70.7-64.0
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of outdoor unit capacity P04~P96/2~50	50~130% of outdoor unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	*3 dB <A>		60.5/63.0		62.5/64.5
Sound power level (measured in anechoic room)	*3 dB <A>		79.5/82.0		82.0/83.5
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/4 (19.05) Brazed 1-3/8 (34.93) Brazed	3/4 (19.05) Brazed 1-3/8 (34.93) Brazed	

#### Set Model

Model	PUHY-EP96TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	PUHY-EP72TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	PUHY-EP72TNU-A (-BS)
Minimum Circuit Ampacity	A	31-29	31-29	23-21	40-37	31-29
Maximum Overcurrent Protection	A	45-40	45-40	35-30	60-50	45-40
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	6,700	6,700	6,000	7,750	6,700
	cfm					6,000
	m³ / min	190	190	170	220	190
	L / s	3,170	3,170	2,830	3,670	3,170
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.92	0.46+0.46
			0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	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	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
	Motor output	kW	5.4 x 1	5.4 x 1	3.6 x 1	7.4 x 1
	Case heater	kW	-	-	-	-
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 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 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-current 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 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)
	Net weight	lbs (kg)	622 (282)	622 (282)	512 (232)	633 (287)
Heat exchanger	Salt-resistant cross fin & aluminium tube					
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed 7/8 (22.2) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	3/8 (9.52) Brazed 7/8 (22.2) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model			PUHY-EP312TSNU-A (-BS)		PUHY-EP336TSNU-A (-BS)		
Indoor Model			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 (208-230)	kW	24.33			26.34	
	Current input (Rated)	A	75.0-67.8			81.2-73.4	
		BTU / h	297,000			320,000	
		kW	87.0			93.8	
	Power input (208-230)	kW	22.86	22.18	25.23	23.54	
	Current input (208-230)	A	70.5-63.7	68.4-61.8	77.8-70.3	72.6-65.6	
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		350,000			378,000	
	*2 kW		102.6			110.8	
	Power input (208-230)	kW	27.37			30.01	
	Current input (Rated)	A	84.4-76.3			92.5-83.7	
		BTU / h	334,000			361,000	
		kW	97.9			105.8	
	Power input (208-230)	kW	25.25	25.42	28.07	27.49	
	Current input (208-230)	A	77.8-70.4	78.3-70.8	86.5-78.2	84.7-76.6	
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 pressure level (measured in anechoic room)	*3 dB <A>		63.5/65.5			63.5/65.5	
Sound power level (measured in anechoic room)	*3 dB <A>		83.5/84.5			83.5/84.5	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed		
		in. (mm)	1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed		
<b>Set Model</b>							
Model	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP72TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	
Minimum Circuit Ampacity	A	40-37	40-37	23-21	40-37	40-37	31-29
Maximum Overcurrent Protection	A	60-50	60-50	35-30	60-50	60-50	45-40
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 7,750	7,750	6,000	7,750	7,750	6,700
		m³ / min 220	220	170	220	220	190
		L / s 3,670	3,670	2,830	3,670	3,670	3,170
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW 0.46+0.46	0.46+0.46	0.92	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 x 1	7.4 x 1	3.6 x 1	7.4 x 1	7.4 x 1	5.4 x 1
	Case heater	kW	-	-	-	-	-
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 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
	mm	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	1,818 x 1,240 x 740
Protection devices	High pressure protection Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	Over-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 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)
Net weight	lbs (kg)	633 (287)	633 (287)	512 (232)	633 (287)	633 (287)	622 (282)
Heat exchanger	Salt-resistant cross fin & aluminium tube						
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	3/8 (9.52) Brazed 7/8 (22.2) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP360TSNU-A (-BS)			PUHY-EP384TSNU-A (-BS)				
Indoor Model		Non-Ducted		Ducted					
Power source		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					
(208-230)	Power input	kW		28.67			31.41		
	Current input	A		88.4-79.9			96.8-87.6		
		BTU / h		342,000			365,000		
		kW		100.2			107.0		
(208-230)	Power input	kW		27.46	25.63		30.05		
	Current input	A		84.6-76.5	79.0-71.4		92.6-83.8		
		W.B.		59~75°F (15~24°C)	59~75°F (15~24°C)				
		D.B.		23~126°F (-5~52°C)	23~126°F (-5~52°C)				
Temp. range of cooling		Indoor		59~75°F (15~24°C)					
		Outdoor		23~126°F (-5~52°C)					
Heating capacity (Nominal)	*2 BTU / h	405,000		430,000					
	*2 kW	118.7		126.0					
(208-230)	Power input	kW		32.65			35.13		
	Current input	A		100.6-91.0			108.3-97.9		
		BTU / h		387,000			410,000		
		kW		113.4			120.2		
(208-230)	Power input	kW		30.35	30.11		32.87		
	Current input	A		93.6-84.6	92.8-83.9		101.3-91.6		
		D.B.		59~81°F (15~27°C)	59~81°F (15~27°C)				
		W.B.		-13~60°F (-25~15.5°C)	-13~60°F (-25~15.5°C)				
Temp. range of heating		Indoor		59~81°F (15~27°C)					
		Outdoor		-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 pressure level (measured in anechoic room)	*3 dB <A>	64.5/66.5		65.5/68.0					
Sound power level (measured in anechoic room)	*3 dB <A>	84.5/85.5		86.0/87.0					
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-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP144TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)
Minimum Circuit Ampacity	A	40-37	40-37	40-37	49-45	40-37
Maximum Overcurrent Protection	A	60-50	60-50	60-50	80-70	60-50
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	7,750 cfm	7,750	7,750	9,200	7,750
		m³ / min	220	220	260	220
		L / s	3,670	3,670	4,330	3,670
	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)	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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.4 x 1	7.4 x 1	7.4 x 1	7.4 x 1
	Case heater	kW	-	-	-	-
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
	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
Protection devices	High pressure protection Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Fan motor	Over-current protection			Over-current protection	
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 23 lbs + 12 oz (10.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight	lbs (kg)	633 (287)	633 (287)	633 (287)	680 (308)	633 (287)
Heat exchanger	Salt-resistant cross fin & aluminium tube					
Pipe between unit and distributor	Liquid pipe	1/2 (12.7) Braze	1/2 (12.7) Braze	1/2 (12.7) Braze	1/2 (12.7) Braze	1/2 (12.7) Braze
	Gas pipe	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze
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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP408TSNU-A (-BS)			PUHY-EP432TSNU-A (-BS)				
Indoor Model		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					
(208-230)	Power input	kW		34.31			37.39		
	Current input	A		105.8-95.6			115.3-104.2		
		BTU / h		388,000			411,000		
		kW		113.7			120.5		
(208-230)	Power input	kW		33.11	30.42		36.06		
	Current input	A		102.1-92.3	93.8-84.8		111.2-100.5		
		W.B.		59~75°F (15~24°C)	59~75°F (15~24°C)				
		D.B.		23~126°F (-5~52°C)	23~126°F (-5~52°C)				
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	455,000		480,000				
		*2 kW	133.4		140.7				
(208-230)	Power input	kW		37.71	40.45				
	Current input	A		116.3-105.1	124.7-112.8				
		BTU / h		433,000	456,000				
		kW		126.9	133.6				
(208-230)	Power input	kW		35.55	34.28		38.35		
	Current input	A		109.6-99.1	105.7-95.6		118.2-106.9		
		D.B.		59~81°F (15~27°C)	59~81°F (15~27°C)				
		W.B.		-13~60°F (-25~15.5°C)	-13~60°F (-25~15.5°C)				
Temp. range of heating	Indoor	D.B.		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
Indoor unit connectable	Total capacity	P04~P96/3~50		P04~P96/3~50			P04~P96/3~50		
Sound pressure level (measured in anechoic room)	*3 dB <A>	66.5/68.5		67.0/69.5					
Sound power level (measured in anechoic room)	*3 dB <A>	86.5/87.5		87.5/88.5					
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-EP144TNU-A (-BS)	PUHY-EP144TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP144TNU-A (-BS)	PUHY-EP144TNU-A (-BS)	PUHY-EP144TNU-A (-BS)
Minimum Circuit Ampacity	A	49-45	49-45	40-37	49-45	49-45
Maximum Overcurrent Protection	A	80-70	80-70	60-50	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
	Airflow rate	cfm	9,200	9,200	7,750	9,200
		m³ / min	260	260	220	260
		L / s	4,330	4,330	3,670	4,330
	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)	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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.3 x 1	9.3 x 1	7.4 x 1	9.3 x 1
	Case heater	kW	-	-	-	-
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
	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
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)	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)
Net weight	lbs (kg)	680 (308)	680 (308)	633 (287)	680 (308)	680 (308)
Heat exchanger	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
	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	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 Heating and Cooling 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 YNU-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP72YNU-A (-BS)		PUHY-EP96YNU-A (-BS)		PUHY-EP120YNU-A (-BS)	
Indoor Model		Non-Ducted		Ducted		Non-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		114,000	
		kW	20.2	27.0		33.4	
	(460)	Power input	kW	4.09	5.63	7.57	7.58
		Current input	A	5.7	6.1	7.8	10.5
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)	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)	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	
	(460)	Power input	kW	4.63	6.59	8.66	9.17
		Current input	A	6.4	6.9	9.1	12.0
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)	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)	-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 pressure level (measured in anechoic room)	*3 dB <A>	55.0/57.0		56.0/58.5		59.5/61.5	
Sound power level (measured in anechoic room)	*3 dB <A>	74.0/76.0		75.0/77.5		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 >= 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	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity	A	10		14		18	
Maximum Overcurrent Protection	A	15		20		25	
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6,000	6,700	7,750		
		m³ / min	170	190	220		
		L / s	2,830	3,170	3,670		
	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	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 x 1	5.4 x 1	7.4 x 1		
	Case heater	kW	-	-	-		
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-current protection		Over-current 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 Heating and Cooling 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 YNU-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP144YNU-A (-BS)		PUHY-EP168YNU-A (-BS)		PUHY-EP192YNU-A (-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	144,000		168,000		192,000	
	*1 kW	42.2		49.2		56.3	
	Power input kW	10.63		13.53		16.66	
	(460) Current input A	14.8		18.8		23.2	
	(Rated)	BTU / h	137,000	161,000		183,000	
		kW	40.2	47.2		53.6	
	(460)	Power input kW	9.80	9.88	12.54	12.50	15.18
		Current input A	13.6	13.7	17.4	17.4	21.1
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	160,000		188,000		215,000	
	*2 kW	46.9		55.1		63.0	
	Power input kW	11.84		13.95		16.38	
	(460) Current input A	16.5		19.4		22.8	
	(Rated)	BTU / h	152,000	179,000		205,000	
		kW	44.5	52.5		60.1	
	(460)	Power input kW	10.74	11.18	12.36	13.47	14.43
		Current input A	14.9	15.5	17.2	18.7	20.1
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	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity	P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)	*3 dB <A>	62.0/64.5		60.0/61.5		61.5/63.5	
Sound power level (measured in anechoic room)	*3 dB <A>	82.5/83.5		78.5/80.5		80.0/82.5	
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	21		25		31	
Maximum Overcurrent Protection	A	35		40		40	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,200		10,600		12,700	
	m³ / min	260		300		360	
	L / s	4,330		5,000		6,000	
	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		0.92±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)	
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	9.3 x 1		11.2 x 1		13.5 x 1	
	Case heater kW	-		-		-	
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 68-15/16 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		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 23 lbs + 12 oz (10.8 kg)		R410A x 23 lbs + 12 oz (10.8 kg)	
Net weight	lbs (kg)	715 (324)		788 (357)		788 (357)	
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-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS/102LS-G2, CMY-Y202S-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 Heating and Cooling 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 YNU-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP216YNU-A (-BS)		PUHY-EP240YNU-A (-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	216,000		240,000	
	*1 kW	63.3		70.3	
	Power input	kW	18.33	21.35	
(460)	Current input	A	25.5	29.7	
	BTU / h	206,000		222,000	
	kW	60.4		65.1	
(460)	Power input	kW	16.83	17.12	19.20
	Current input	A	23.4	23.8	26.7
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000		250,000	
	*2 kW	71.2		73.3	
	Power input	kW	20.00	21.44	
(460)	Current input	A	27.8	29.8	
	BTU / h	232,000		240,000	
	kW	68.0		70.3	
(460)	Power input	kW	17.79	19.24	20.14
	Current input	A	24.8	26.8	28.0
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 pressure level (measured in anechoic room)	*3, 4 dB <A>	66.5/67.5		67.5/68.0	
Sound power level (measured in anechoic room)	*3 dB <A>	85.5/86.5		86.5/87.0	
Refrigerant piping diameter	Liquid pipe in. (mm)	5/8 (15.88) Braze		5/8 (15.88) Braze	
	Gas pipe in. (mm)	1-1/8 (28.58) Braze		1-3/8 (34.93) Braze	
Minimum Circuit Ampacity	A	32		36	
Maximum Overcurrent Protection	A	50		60	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	14,100		14,100	
	m³ / min	400		400	
	L / s	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	
*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	15.5 x 1		16.7 x 1	
	Case heater kW	-		-	
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 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight	lbs (kg)	904 (410)		904 (410)	
Heat exchanger	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		

#### Notes:

\*1,\*2 Heating and Cooling 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 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-EP192YSNU-A (-BS)		PUHY-EP216YSNU-A (-BS)		PUHY-EP240YSNU-A (-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 (460)	kW	13.57	15.70		18.60	
	Current input (460)	A	18.9	21.8		25.9	
		BTU / h	184,000	206,000		228,000	
		kW	53.9	60.4		66.8	
	Power input (460)	kW	12.40	14.44	17.64	16.79	
	Current input (460)	A	17.2	20.1	24.6	23.4	
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (460)	kW	15.74	18.18		21.39	
	Current input (460)	A	21.9	25.3		29.8	
		BTU / h	206,000	232,000		258,000	
		kW	60.4	68.0		75.6	
	Power input (460)	kW	14.24	16.39	19.75	19.86	
	Current input (460)	A	19.8	22.8	27.5	27.6	
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°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 pressure level (measured in anechoic room)	*3 dB <A>	59.5/62.0		61.5/63.5	63.0/65.0		
Sound power level (measured in anechoic room)	*3 dB <A>	78.5/81.0		81.0/82.5	83.0/84.0		
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	
		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	
Set Model							
Model	PUHY-EP96YNU-A (-BS)	PUHY-EP96YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP96YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	
Minimum Circuit Ampacity	A	14	14	18	14	18	
Maximum Overcurrent Protection	A	20	20	25	20	25	
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	cfm m³ / min L / s	6,700 190 3,170	6,700 190 3,170	7,750 220 3,670	7,750 190 3,170	
	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
	*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 x 1	5.4 x 1	7.4 x 1	5.4 x 1	7.4 x 1
	Case heater	kW	-	-	-	-	-
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-current protection		Over-current protection		Over-current protection	
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)	668 (303)	657 (298)	668 (303)	668 (303)
Heat exchanger	Salt-resistant cross fin & aluminium tube						
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed 7/8 (22.2) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP264YSNU-A (-BS)			PUHY-EP288YSNU-A (-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 (460)	kW	19.61		21.79		
	Current input (460)	A	27.3		30.3		
	(Rated)	BTU / h	253,000		275,000		
		kW	74.2		80.6		
	Power input (460)	kW	18.26	18.04	20.19	20.15	
	Current input (460)	A	25.4	25.1	28.1	28.1	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		
	Outdoor	D.B.	23~126°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 (460)	kW	22.13		24.54		
	Current input (460)	A	30.8		34.2		
	(Rated)	BTU / h	282,000		308,000		
		kW	82.6		90.3		
	Power input (460)	kW	20.41	20.57	22.48	22.95	
	Current input (460)	A	28.4	28.6	31.3	32.0	
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 pressure level (measured in anechoic room)	*3 dB <A>		60.5/63.0			62.5/64.5	
Sound power level (measured in anechoic room)	*3 dB <A>		79.5/82.0			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-EP96YNU-A (-BS)	PUHY-EP96YNU-A (-BS)	PUHY-EP72YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP96YNU-A (-BS)	PUHY-EP72YNU-A (-BS)
Minimum Circuit Ampacity	A	14	14	10	18	14
Maximum Overcurrent Protection	A	20	20	15	25	20
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm 6,700	6,700	6,000	7,750	6,700
		m³ / min 190	190	170	220	190
		L / s 3,170	3,170	2,830	3,670	3,170
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor	
	Motor output	kW 0.46+0.46	0.46+0.46	0.92	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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW 5.4 x 1	5.4 x 1	3.6 x 1	7.4 x 1	5.4 x 1
	Case heater	kW	-	-	-	-
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 36-1/4 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
	mm	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 Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Fan motor	Over-current protection			Over-current protection	
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 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)
Net weight	lbs (kg)	657 (298)	657 (298)	545 (247)	668 (303)	657 (298)
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	1/2 (12.7) Brazed	3/8 (9.52) 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	7/8 (22.2) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model			PUHY-EP312YSNU-A (-BS)		PUHY-EP336YSNU-A (-BS)		
Indoor Model			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 (460)	kW	24.33			26.34	
	Current input (460)	A	33.9			36.7	
		BTU / h	297,000			320,000	
		kW	87.0			93.8	
	Power input (460)	kW	22.86	22.18	25.23	23.54	
	Current input (460)	A	31.8	30.9	35.1	32.8	
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 (Nominal)	*2 BTU / h		350,000			378,000	
	*2 kW		102.6			110.8	
	Power input (460)	kW	27.37			30.01	
	Current input (460)	A	38.1			41.8	
		BTU / h	334,000			361,000	
		kW	97.9			105.8	
	Power input (460)	kW	25.25	25.42	28.07	27.49	
	Current input (460)	A	35.2	35.4	39.1	38.3	
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~P96/2~50		P04~P96/2~50		
Sound pressure level (measured in anechoic room)	*3 dB <A>		63.5/65.5			63.5/65.5	
Sound power level (measured in anechoic room)	*3 dB <A>		83.5/84.5			83.5/84.5	
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			1-5/8 (41.28) Brazed	
<b>Set Model</b>							
Model	PUHY-EP120YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP72YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP96YNU-A (-BS)	
Minimum Circuit Ampacity	A	18	18	10	18	18	
Maximum Overcurrent Protection	A	25	25	15	25	20	
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	7,750 cfm	7,750	6,000	7,750	7,750	
		220 m³ / min	220	170	220	220	
		3,670 L / s	3,670	2,830	3,670	3,670	
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46	0.92	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)	
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	
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.4 x 1	7.4 x 1	3.6 x 1	7.4 x 1	
	Case heater	kW	-	-	-	-	
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 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 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 Inverter circuit (COMP./FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
		Over-current protection			Over-current protection		
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 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)	668 (303)	668 (303)	545 (247)	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)	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)	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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP360YSNU-A (-BS)			PUHY-EP384YSNU-A (-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 (460)	kW	28.67		31.41		
	Current input (460)	A	39.9		43.8		
	(Rated)	BTU / h	342,000		365,000		
		kW	100.2		107.0		
		Power input (460)	kW	27.46	25.63	30.05	28.10
		Current input (460)	A	38.2	35.7	41.9	39.1
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	405,000			430,000		
	*2 kW	118.7			126.0		
	Power input (460)	kW	32.65		35.13		
	Current input (460)	A	45.5		48.9		
	(Rated)	BTU / h	387,000		410,000		
		kW	113.4		120.2		
		Power input (460)	kW	30.35	30.11	32.87	32.17
		Current input (460)	A	42.3	41.9	45.8	44.8
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~P96/2~50		P04~P96/2~50		
Sound pressure level (measured in anechoic room)	*3 dB <A>		64.5/66.5			65.5/68.0	
Sound power level (measured in anechoic room)	*3 dB <A>		84.5/85.5			86.0/87.0	
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-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP144YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	
Minimum Circuit Ampacity	A	18	18	18	21	18	
Maximum Overcurrent Protection	A	25	25	25	35	25	
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	cfm 7,750	7,750	7,750	9,200	7,750	
		m³ / min 220	220	220	260	220	
		L / s 3,670	3,670	3,670	4,330	3,670	
	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	
	*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)	
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	
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW 7.4 x 1	7.4 x 1	7.4 x 1	9.3 x 1	7.4 x 1	
	Case heater	kW -	-	-	-	-	
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	
	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	
Protection devices	High pressure protection Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Fan motor		Over-current protection			Over-current protection	
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 23 lbs + 12 oz (10.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight	lbs (kg)	668 (303)	668 (303)	668 (303)	715 (324)	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)	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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-EP408YSNU-A (-BS)			PUHY-EP432YSNU-A (-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 (460)	kW	34.31		37.39		
	Current input (460)	A	47.8		52.1		
	(Rated)	BTU / h	388,000		411,000		
		kW	113.7		120.5		
	(460)	Power input	kW	33.11	30.42	36.06	33.17
		Current input	A	46.1	42.4	50.2	46.2
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 (460)	kW	37.71		40.45		
	Current input (460)	A	52.5		56.4		
	(Rated)	BTU / h	433,000		456,000		
		kW	126.9		133.6		
	(460)	Power input	kW	35.55	34.28	38.35	36.55
		Current input	A	49.5	47.8	53.4	50.9
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~P96/3~50		P04~P96/3~50		
Sound pressure level (measured in anechoic room)	*3 dB <A>	66.5/68.5			67.0/69.5		
Sound power level (measured in anechoic room)	*3 dB <A>	86.5/87.5			87.5/88.5		
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-EP144YNU-A (-BS)	PUHY-EP144YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP144YNU-A (-BS)	PUHY-EP144YNU-A (-BS)	PUHY-EP144YNU-A (-BS)
Minimum Circuit Ampacity	A	21	21	18	21	21
Maximum Overcurrent Protection	A	35	35	25	35	35
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm 9,200	9,200	7,750	9,200	9,200
		m³ / min 260	260	220	260	260
		L / s 4,330	4,330	3,670	4,330	4,330
	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
	*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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW 9.3 x 1	9.3 x 1	7.4 x 1	9.3 x 1	9.3 x 1
	Case heater	kW -	-	-	-	-
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
	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
Protection devices	High pressure protection Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Fan motor	Over-current protection			Over-current protection	
Refrigerant	Type x original charge	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	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)
Net weight	lbs (kg)	715 (324)	715 (324)	668 (303)	715 (324)	715 (324)
Heat exchanger	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
	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
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 Heating and Cooling 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 Standard (208-230V)

### PUHY-P TNU-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P72TNU-A (-BS)		PUHY-P96TNU-A (-BS)		PUHY-P120TNU-A (-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	5.02	6.46		8.88
	Current input	A	15.4-14.0		19.9-18.0	
(Rated)	BTU / h	69,000		92,000		114,000
	kW	20.2		27.0		33.4
(208-230)	Power input	kW	4.75	4.54	5.92	6.04
	Current input	A	14.6-13.2	14.0-12.6	18.2-16.5	18.6-16.8
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 (Nominal)	*2 BTU / h	80,000		108,000		135,000
	*2 kW	23.4		31.7		39.6
(208-230)	Power input	kW	5.42	7.37		9.97
	Current input	A	16.7-15.1		22.7-20.5	
(Rated)	BTU / h	76,000		103,000		129,000
	kW	22.3		30.2		37.8
(208-230)	Power input	kW	4.89	5.13	6.67	6.96
	Current input	A	15.0-13.6	15.8-14.3	20.5-18.6	21.4-19.4
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	50~130% of outdoor unit capacity	
	Model / Quantity	P04~P72/1~18		P04~P96/1~24	P04~P96/1~30	
Sound pressure level (measured in anechoic room) *4	dB <A>	55.0/57.5		56.5/58.5	60.0/62.0	
Sound power level (measured in anechoic room) *4	dB <A>	74.0/76.5		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		24-22	33-31		41-38
Maximum Overcurrent Protection	A		40-35	50-45		60-60
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 2	Propeller fan x 2	
	Airflow rate	cfm	6,000	6,700		7,750
		m³ / min	170	190		220
		L / s	2,830	3,170		3,670
	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 x 1	5.5 x 1		7.7 x 1
	Case heater	kW	-	-		-
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>	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-current protection		Over-current 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	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 Header: CMY-Y104/108/1010C-G	joint: CMY-Y102SS/102LS-G2 Header: CMY-Y104/108/1010C-G	

#### Notes:

\*1, \*2 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P144TNU-A (-BS)		PUHY-P168TNU-A (-BS)	
Indoor Model		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	
(208-230)	Power input	kW	11.08	14.28	
	Current input	A	34.1-30.9	44.0-39.8	
	BTU / h		137,000	161,000	
(208-230)		kW	40.2	47.2	
	Power input	kW	10.45	13.32	13.11
	Current input	A	32.2-29.1	31.0-28.0	40.4-36.5
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		188,000	
	*2 kW	46.9		55.1	
(208-230)	Power input	kW	12.21	14.15	
	Current input	A	37.6-34.0	43.6-39.4	
	BTU / h		152,000	179,000	
(208-230)		kW	44.5	52.5	
	Power input	kW	11.06	12.65	13.55
	Current input	A	34.1-30.8	35.6-32.2	41.7-37.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	
*3	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 pressure level (measured in anechoic room)	*4 dB <A>	62.5/65.0		60.5/64.5	
Sound power level (measured in anechoic room)	*4 dB <A>	83.0/84.0		79.0/83.5	
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	49-45		59-54	
Maximum Overcurrent Protection	A	80-70		90-90	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,200		10,600	
	m³ / min	260		300	
	L / s	4,330		5,000	
	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	9.6 x 1		11.4 x 1	
	Case heater kW	-		-	
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-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)	649 (294)		724 (328)	
Heat exchanger	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P192TSNU-A (-BS)		PUHY-P216TSNU-A (-BS)		PUHY-P240TSNU-A (-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
	Current input	A	44.0-39.8	51.7-46.8		61.5-55.6
	BTU / h		184,000	206,000		228,000
			53.9	60.4		66.8
			13.06	13.40	15.36	15.71
			40.2-36.4	41.3-37.3	47.3-42.8	48.4-43.8
					18.72	18.26
					57.7-52.2	56.3-50.9
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	216,000		243,000		270,000
	*2 kW	63.3		71.2		79.1
	Power input	kW	15.95	18.63		22.12
	Current input	A	49.1-44.4	57.4-51.9		68.2-61.6
	BTU / h		206,000	232,000		258,000
			60.4	68.0		75.6
			14.43	15.10	16.82	17.68
			44.5-40.2	46.5-42.1	51.8-46.9	54.5-49.3
					20.54	20.41
					63.3-57.2	62.9-56.9
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)
*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	50~130% 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 pressure level (measured in anechoic room)	*4 dB <A>	60.0/62.0		62.0/64.0		63.5/65.5
Sound power level (measured in anechoic room)	*4 dB <A>	79.0/81.0		81.5/83.0		83.5/84.5
Refrigerant	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

#### Set Model

Model	PUHY-P96TNU-A (-BS)	PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P120TNU-A (-BS)
Minimum Circuit Ampacity	A	33-31	33-31	41-38	33-31	41-38
Maximum Overcurrent Protection	A	50-45	50-45	60-60	50-45	60-60
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate					
	cfm	6,700	6,700	7,750	6,700	7,750
	m³ / min	190	190	220	190	220
	L / s	3,170	3,170	3,670	3,170	3,670
	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
*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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5 x 1	5.5 x 1	7.7 x 1	7.7 x 1
	Case heater	kW	-	-	-	-
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
	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
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 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	580 (263)	580 (263)	605 (274)	580 (263)	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	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed
	Gas pipe	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	7/8 (22.2) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P264TSNU-A (-BS)			PUHY-P288TSNU-A (-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 (208-230)	kW	20.69		23.21	
	Current input (Rated)	A	63.8-57.7		71.5-64.7	
	BTU / h (208-230)		253,000		275,000	
			74.2		80.6	
	Power input (208-230)	kW	19.45	18.85	21.90	21.08
	Current input (208-230)	A	59.9-54.2	58.1-52.5	67.5-61.0	65.0-58.7
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)		59~75°F (15~24°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 (208-230)	kW	22.63		25.23	
	Current input (Rated)	A	69.7-63.1		77.8-70.3	
	BTU / h (208-230)		282,000		308,000	
			82.6		90.3	
	Power input (208-230)	kW	20.96	20.94	23.28	23.43
	Current input (208-230)	A	64.6-58.4	64.5-58.4	71.7-64.9	72.2-65.3
Temp. range of heating	Indoor *3 Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)		59~81°F (15~27°C) -13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of outdoor unit capacity P04~P96/2~50		50~130% of outdoor unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	*4 dB <A>		61.0/63.0		62.5/65.0	
Sound power level (measured in anechoic room)	*4 dB <A>		80.0/82.0		82.5/84.0	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/4 (19.05) Brazed 1-3/8 (34.93) Brazed		3/4 (19.05) Brazed 1-3/8 (34.93) Brazed	

#### Set Model

Model	PUHY-P96TNU-A (-BS)	PUHY-P96TNU-A (-BS)	PUHY-P72TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P96TNU-A (-BS)	PUHY-P72TNU-A (-BS)
Minimum Circuit Ampacity	A	33-31	33-31	24-22	41-38	33-31
Maximum Overcurrent Protection	A	50-45	50-45	40-35	60-60	50-45
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	6,700	6,700	6,000	7,750	6,700
	cfm					6,000
	m³ / min	190	190	170	220	190
	L / s	3,170	3,170	2,830	3,670	3,170
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.92	0.46+0.46
			0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)	0.46+0.46
	*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	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
	Motor output	kW	5.5 x 1	5.5 x 1	3.8 x 1	7.7 x 1
	Case heater	kW	-	-	-	-
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 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 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-current 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 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)
	Net weight	lbs (kg)	580 (263)	580 (263)	470 (213)	605 (274)
Heat exchanger	Salt-resistant cross fin & copper tube					
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed 7/8 (22.2) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	3/8 (9.52) Brazed 7/8 (22.2) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P312TSNU-A (-BS)			PUHY-P336TSNU-A (-BS)		
Indoor Model	Non-Ducted		Ducted	Non-Ducted		Ducted
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz					
Cooling capacity (Nominal)	*1 BTU / h				312,000	
	*1 kW	91.4			336,000	
(208-230)	Power input	kW		25.98	98.5	
	Current input	A		80.1-72.4	27.77	
(Rated)	BTU / h	297,000			85.6-77.4	
		kW		87.0	320,000	
(208-230)	Power input	kW		24.67	93.8	
	Current input	A		76.0-68.8	26.33	
		72.2-65.3			25.09	
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	
	*2 kW	102.6			378,000	
(208-230)	Power input	kW		28.28	110.8	
	Current input	A		87.2-78.8	30.84	
(Rated)	BTU / h	334,000			95.1-86.0	
		kW		97.9	361,000	
(208-230)	Power input	kW		26.32	105.8	
	Current input	A		81.1-73.4	26.04	
		80.3-72.6			28.95	
		89.2-80.7			28.16	
Temp. range of heating	Indoor	D.B.		59~81°F (15~27°C)	59~81°F (15~27°C)	
*3	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 pressure level (measured in anechoic room)	*4	dB <A>		64.0/66.0	64.0/66.0	
Sound power level (measured in anechoic room)	*4	dB <A>		84.0/85.0	84.0/85.0	
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	1-5/8 (41.28) Brazed	

#### Set Model

Model	PUHY-P120TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P72TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P96TNU-A (-BS)
Minimum Circuit Ampacity	A	41-38	41-38	24-22	41-38	41-38
Maximum Overcurrent Protection	A	60-60	60-60	40-35	60-60	60-60
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	7,750 cfm	7,750	6,000	7,750	7,750
		220 m³ / min	220	170	220	220
		3,670 L / s	3,670	2,830	3,670	3,670
	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
*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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7 x 1	7.7 x 1	7.7 x 1	7.7 x 1
	Case heater	kW	-	-	-	-
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 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 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-current 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 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)	605 (274)	605 (274)	470 (213)	605 (274)	605 (274)
Heat exchanger	Salt-resistant cross fin & copper tube					
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Braze	1/2 (12.7) Braze	3/8 (9.52) Braze	1/2 (12.7) Braze
	Gas pipe	in. (mm)	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	7/8 (22.2) Braze	1-1/8 (28.58) Braze
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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P360TSNU-A (-BS)		PUHY-P384TSNU-A (-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
	BTU / h	342,000		365,000
	kW	100.2		107.0
(208-230)	Power input kW	28.93	27.86	31.70
	Current input A	89.2-80.6	85.9-77.7	97.7-88.4
				91.6-82.9
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	33.78		36.26
(208-230)	Current input A	104.1-94.2		111.8-101.1
	BTU / h	387,000		410,000
	kW	113.4		120.2
(208-230)	Power input kW	31.59	30.96	34.05
	Current input A	97.4-88.1	95.4-86.3	105.0-94.9
				102.0-92.2
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)
*3	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 pressure level (measured in anechoic room)	*4 dB <A>	65.0/67.0		66.0/68.5
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-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P144TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P120TNU-A (-BS)
Minimum Circuit Ampacity	A	41-38	41-38	41-38	49-45	41-38
Maximum Overcurrent Protection	A	60-60	60-60	60-60	80-70	60-60
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	7,750 cfm	7,750	7,750	9,200	7,750
		220 m³ / min	220	220	260	220
		3,670 L / s	3,670	3,670	4,330	3,670
	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
*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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output kW	7.7 x 1	7.7 x 1	7.7 x 1	9.6 x 1	7.7 x 1
	Case heater kW	-	-	-	-	-
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
	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
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 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)	R410A x 21 lbs + 9 oz (9.8 kg)
	Net weight lbs (kg)	605 (274)	605 (274)	605 (274)	649 (294)	605 (274)
Heat exchanger	Salt-resistant cross fin & copper tube					
Pipe between unit and distributor	Liquid pipe in. (mm)	1/2 (12.7) Braze	1/2 (12.7) Braze	1/2 (12.7) Braze	1/2 (12.7) Braze	1/2 (12.7) Braze
	Gas pipe in. (mm)	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze
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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P408TSNU-A (-BS)			PUHY-P432TSNU-A (-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 (208-230)	kW	35.79		38.31	
	Current input (Rated)	A	110.3-99.8		118.1-106.8	
	BTU / h (208-230)		388,000		411,000	
			113.7		120.5	
	Power input (208-230)	kW	34.67	31.59	37.45	33.49
	Current input (208-230)	A	106.9-96.6	97.4-88.1	115.5-104.4	103.2-93.4
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)		59~75°F (15~24°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 (208-230)	kW	38.94		41.66	
	Current input (Rated)	A	120.0-108.6		128.4-116.1	
	BTU / h (208-230)		433,000		456,000	
			126.9		133.6	
	Power input (208-230)	kW	36.73	35.38	39.41	37.73
	Current input (208-230)	A	113.2-102.4	109.1-98.6	121.5-109.9	116.3-105.2
Temp. range of heating *3	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)		59~81°F (15~27°C) -13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of outdoor unit capacity P04~P96/3~50		50~130% of outdoor unit capacity P04~P96/3~50	
Sound pressure level (measured in anechoic room)	*4 dB <A>		67.0/69.0		67.5/70.0	
Sound power level (measured in anechoic room)	*4 dB <A>		87.0/88.0		88.0/89.0	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/4 (19.05) Brazed 1-5/8 (41.28) Brazed		3/4 (19.05) Brazed 1-5/8 (41.28) Brazed	

#### Set Model

Model	PUHY-P144TNU-A (-BS)	PUHY-P144TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P144TNU-A (-BS)	PUHY-P144TNU-A (-BS)	PUHY-P144TNU-A (-BS)
Minimum Circuit Ampacity	A	49-45	49-45	41-38	49-45	49-45
Maximum Overcurrent Protection	A	80-70	80-70	60-60	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
	Airflow rate	cfm m³ / min L / s	9,200 260 4,330	9,200 260 4,330	7,750 220 3,670	9,200 260 4,330
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor	
	Motor output *5	kW	0.46+0.46 0 in.WG (0 Pa)	0.46+0.46 0 in.WG (0 Pa)	0.46+0.46 0 in.WG (0 Pa)	0.46+0.46 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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.6 x 1	9.6 x 1	7.7 x 1	9.6 x 1
	Case heater	kW	-	-	-	-
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
	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
Protection devices	High pressure protection Inverter circuit (COMP/FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	Over-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)	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)
	Net weight	lbs (kg)	649 (294)	649 (294)	605 (274)	649 (294)
Heat exchanger	Salt-resistant cross fin & copper tube					
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	1/2 (12.7) 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 Heating and Cooling 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 YNU-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P72YNU-A (-BS)		PUHY-P96YNU-A (-BS)		PUHY-P120YNU-A (-BS)	
Indoor Model		Non-Ducted		Ducted		Non-Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		Ducted	
Cooling capacity (Nominal)	*1 BTU / h	72,000		96,000		120,000	
	*1 kW	21.1		28.1		35.2	
	Power input (460)	kW	5.02	6.46		8.88	
	Current input (Rated)	A	7.0	9.0		12.3	
	BTU / h (460)	69,000		92,000		114,000	
	kW	20.2		27.0		33.4	
	Power input (460)	kW	4.75	4.54	5.92	6.04	8.17
	Current input (460)	A	6.6	6.3	8.2	8.4	11.3
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (460)	kW	5.42	7.37		9.97	
	Current input (Rated)	A	7.5	10.2		13.9	
	BTU / h (460)	76,000		103,000		129,000	
	kW	22.3		30.2		37.8	
	Power input (460)	kW	4.89	5.13	6.67	6.96	9.01
	Current input (460)	A	6.8	7.1	9.3	9.7	12.5
Temp. range of heating *3	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)
Indoor unit connectable	Total capacity Model / Quantity	50~130% of outdoor unit capacity P04~P72/1~18		50~130% of outdoor unit capacity P04~P96/1~24		50~130% of outdoor unit capacity P04~P96/1~30	
Sound pressure level (measured in anechoic room)	*4 dB <A>	55.0/57.5		56.5/58.5		60.0/62.0	
Sound power level (measured in anechoic room)	*4 dB <A>	74.0/76.5		75.5/77.5		80.0/81.0	
Refrigerant piping diameter	Liquid pipe Gas 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)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	1-1/8 (28.58) Brazed
Minimum Circuit Ampacity	A		11	15		19	
Maximum Overcurrent Protection	A		15	20		30	
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	6,000	6,700		7,750	
		m³ / min	170	190		220	
		L / s	2,830	3,170		3,670	
	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 x 1	5.5 x 1		7.7 x 1	
	Case heater	kW	-	-		-	
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 Inverter circuit (COMP/FAN) Fan motor	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)	
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 Heating and Cooling 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 YNU-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P144YNU-A (-BS)		PUHY-P168YNU-A (-BS)	
Indoor Model		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 (460)	kW	11.08	14.28	
	Current input (460)	A	15.4	19.9	
	BTU / h (460)		137,000	161,000	
			kW	40.2	47.2
			Power input (460)	10.45	13.11
			Current input (460)	A	14.5
				14.0	18.2
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	160,000		188,000	
	*2 kW	46.9		55.1	
	Power input (460)	kW	12.21	14.15	
	Current input (460)	A	17.0	19.7	
	BTU / h (460)		152,000	179,000	
			kW	44.5	52.5
			Power input (460)	11.06	13.55
			Current input (460)	A	15.4
				16.1	18.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	
	*3 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 pressure level (measured in anechoic room)	*4 dB <A>	62.5/65.0		60.5/64.5	
Sound power level (measured in anechoic room)	*4 dB <A>	83.0/84.0		79.0/83.5	
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	22		27	
Maximum Overcurrent Protection	A	35		45	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,200		10,600	
	m³ / min	260		300	
	L / s	4,330		5,000	
	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	9.6 x 1		11.4 x 1	
	Case heater kW	-		-	
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 Inverter circuit (COMP/FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) 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)	684 (310)		759 (344)	
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P192YSNU-A (-BS)		PUHY-P216YSNU-A (-BS)		PUHY-P240YSNU-A (-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 (460)	kW	14.29	16.78		19.97	
	Current input (460)	A	19.9	23.4		27.8	
		BTU / h	184,000	206,000		228,000	
		kW	53.9	60.4		66.8	
	Power input (460)	kW	13.06	13.40	15.36	15.71	18.72
	Current input (460)	A	18.2	18.6	21.4	21.9	26.1
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°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 (460)	kW	15.95	18.63		22.12	
	Current input (460)	A	22.2	25.9		30.8	
		BTU / h	206,000	232,000		258,000	
		kW	60.4	68.0		75.6	
	Power input (460)	kW	14.43	15.10	16.82	17.68	20.54
	Current input (460)	A	20.1	21.0	23.4	24.6	28.6
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°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 pressure level (measured in anechoic room)	*4 dB <A>	60.0/62.0		62.0/64.0		63.5/65.5	
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 Gas pipe	in. (mm)	5/8 (15.88) Brazed				
		in. (mm)	1-1/8 (28.58) Brazed				

#### Set Model

Model	PUHY-P96YNU-A (-BS)	PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P120YNU-A (-BS)	
Minimum Circuit Ampacity	A	15	15	19	15	19	
Maximum Overcurrent Protection	A	20	20	30	20	30	
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	6,700 cfm	6,700	7,750	6,700	7,750	
	m³ / min	190	190	220	190	220	
	L / s	3,170	3,170	3,670	3,170	3,670	
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	
	Motor output	0.46+0.46 kW	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)	
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	
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	5.5 x 1 kW	5.5 x 1	7.7 x 1	5.5 x 1	7.7 x 1	
	Case heater	- kW	-	-	-	-	
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	
	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	
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 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)	640 (290)	616 (279)	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 Gas pipe	in. (mm)	3/8 (9.52) Brazed 7/8 (22.2) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) Brazed 1-1/8 (28.58) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	1/2 (12.7) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P264YSNU-A (-BS)		PUHY-P288YSNU-A (-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
	BTU / h	253,000		275,000	
	kW	74.2		80.6	
(460)	Power input	kW	19.45	18.85	21.90
	Current input	A	27.1	26.2	30.5
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	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
	BTU / h	282,000		308,000	
	kW	82.6		90.3	
(460)	Power input	kW	20.96	20.94	23.28
	Current input	A	29.2	29.2	32.4
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	
*3	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 pressure level (measured in anechoic room)	*4 dB <A>	61.0/63.0		62.5/65.0	
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-P96YNU-A (-BS)	PUHY-P96YNU-A (-BS)	PUHY-P72YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P96YNU-A (-BS)	PUHY-P72YNU-A (-BS)
Minimum Circuit Ampacity	A	15	15	11	19	15
Maximum Overcurrent Protection	A	20	20	15	30	20
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	6,700 cfm	6,700	6,000	7,750	6,700
	m³ / min	190	190	170	220	190
	L / s	3,170	3,170	2,830	3,670	3,170
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.92	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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5 x 1	5.5 x 1	3.8 x 1	7.7 x 1
	Case heater	kW	-	-	-	-
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 36-1/4 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
	mm	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-current 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 14 lbs + 5 oz (6.5 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (6.5 kg)
Net weight	lbs (kg)	616 (279)	616 (279)	503 (228)	640 (290)	616 (279)
Heat exchanger	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	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	7/8 (22.2) Brazed	7/8 (22.2) 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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P312YSNU-A (-BS)			PUHY-P336YSNU-A (-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 (460)	kW	25.98		27.77		
	Current input (460)	A	36.2		38.7		
	(Rated)	BTU / h	297,000		320,000		
		kW	87.0		93.8		
		Power input (460)	kW	24.67	23.44	26.33	25.09
		Current input (460)	A	34.4	32.6	36.7	34.9
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 (460)	kW	28.28		30.84		
	Current input (460)	A	39.4		43.0		
	(Rated)	BTU / h	334,000		361,000		
		kW	97.9		105.8		
		Power input (460)	kW	26.32	26.04	28.95	28.16
		Current input (460)	A	36.7	36.3	40.3	39.2
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 pressure level (measured in anechoic room)	*4 dB <A>		64.0/66.0			64.0/66.0	
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-P120YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P72YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P96YNU-A (-BS)
Minimum Circuit Ampacity	A	19	19	11	19	19
Maximum Overcurrent Protection	A	30	30	15	30	30
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	7,750 cfm	7,750	6,000	7,750	7,750
		m³ / min	220	220	170	220
		L / s	3,670	3,670	2,830	3,670
	Control, Driving mechanism	Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor	
	Motor output	kW	0.46+0.46	0.46+0.46	0.92	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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7 x 1	7.7 x 1	3.8 x 1	7.7 x 1
	Case heater	kW	-	-	-	-
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 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 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-current 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 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)	640 (290)	640 (290)	503 (228)	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)	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)	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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P360YSNU-A (-BS)		PUHY-P384YSNU-A (-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
	BTU / h	342,000		365,000	
		kW	100.2		107.0
(Rated)					
	Power input	kW	28.93	27.86	31.70
(460)	Current input	A	40.3	38.8	44.2
					29.73
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
	BTU / h	387,000		410,000	
		kW	113.4		120.2
(Rated)					
	Power input	kW	31.59	30.96	34.05
(460)	Current input	A	44.0	43.1	47.4
					33.09
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	
*3	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 pressure level (measured in anechoic room)	*4 dB <A>		65.0/67.0		66.0/68.5
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-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P144YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P120YNU-A (-BS)
Minimum Circuit Ampacity	A	19	19	19	22	15
Maximum Overcurrent Protection	A	30	30	30	35	30
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	7,750 cfm	7,750	7,750	9,200	7,750
	m³ / min	220	220	220	260	220
	L / s	3,670	3,670	3,670	4,330	3,670
	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
*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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	7.7 x 1	7.7 x 1	9.6 x 1	7.7 x 1
	Case heater	kW	-	-	-	-
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
	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
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 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)	R410A x 21 lbs + 9 oz (9.8 kg)
Net weight	lbs (kg)	640 (290)	640 (290)	640 (290)	684 (310)	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)	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
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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PUHY-P408YSNU-A (-BS)		PUHY-P432YSNU-A (-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
		BTU / h	388,000		411,000
		kW	113.7		120.5
(Rated)					
	Power input	kW	34.67	31.59	37.45
(460)	Current input	A	48.3	44.0	52.2
					33.49
					46.7
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	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
		BTU / h	433,000		456,000
		kW	126.9		133.6
(Rated)					
	Power input	kW	36.73	35.38	39.41
(460)	Current input	A	51.2	49.3	54.9
					37.73
					52.6
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 pressure level (measured in anechoic room)	*4 dB <A>		67.0/69.0		67.5/70.0
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
<b>Set Model</b>					
Model	PUHY-P144YNU-A (-BS)	PUHY-P144YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P144YNU-A (-BS)	PUHY-P144YNU-A (-BS)
Minimum Circuit Ampacity	A	22	22	19	22
Maximum Overcurrent Protection	A	35	35	30	35
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	9,200 cfm	9,200	7,750	9,200
	m³ / min	260	260	220	260
	L / s	4,330	4,330	3,670	4,330
	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
	*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	9.6 x 1	9.6 x 1	7.7 x 1
	Case heater	kW	-	-	-
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
	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-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)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
Net weight	lbs (kg)	684 (310)	684 (310)	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
	Gas pipe	in. (mm)	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 Heating and Cooling 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 (575V) PUHY-P ZKMU-A(-BS)



## ► Specifications

Outdoor Model		PUHY-P72ZKMU-A (-BS)		PUHY-P96ZKMU-A (-BS)	
Indoor Model		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	72,000		96,000	
	*1 kW	21.1		28.1	
	Power input (575)	kW	4.77	6.74	
	Current input (575)	A	5.3	7.5	
(Rated)	BTU/h	69,000		92,000	
	kW	20.2		27.0	
	Power input (575)	kW	4.71	4.58	6.48
	Current input (575)	A	5.2	5.1	6.65
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)	59~75°F (15~24°C) 23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2 BTU/h	80,000		108,000	
	*2 kW	23.4		31.7	
	Power input (575)	kW	5.63	7.78	
	Current input (575)	A	6.2	8.6	
(Rated)	BTU/h	76,000		103,000	
	kW	22.3		30.2	
	Power input (575)	kW	5.51	5.47	7.71
	Current input (575)	A	6.1	6.1	7.47
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity Model/Quantity		50~130% of outdoor unit capacity P04~P72/1~18	50~130% of outdoor unit capacity P04~P96/1~24	
Sound pressure level (measured in anechoic room)	dB <A>		58.0		58.0
Refrigerant	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed 7/8 (22.2) Brazed	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m) 7/8 (22.2) Brazed	
Minimum Circuit Ampacity	A		11	15	
Maximum Overcurrent Protection	A		15	20	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	
	Airflow rate	cfm m³/min L/s	6,200 175 2,920	6,700 190 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	-	-	
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. mm	64-31/32 x 36-1/4 x 29-5/32 1,650 x 920 x 740	64-31/32 x 48-1/16 x 29-5/32 1,650 x 1,220 x 740	64-31/32 x 48-1/16 x 29-5/32 1,650 x 1,220 x 740	
Protection devices	High pressure protection Inverter circuit (COMP/FAN) Fan motor		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	
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)		492 (223)	562 (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 Heating and Cooling 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 ZKMU-A(-BS)



## ► Specifications

Outdoor Model		PUHY-P120ZKMU-A (-BS)		PUHY-P144ZKMU-A (-BS)	
Indoor Model		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	
	Power input (575)	kW	8.48	11.02	
	Current input (575)	A	9.4	12.2	
(Rated)	BTU/h	114,000		137,000	
	kW	33.4		40.2	
	Power input (575)	kW	7.80	8.13	9.85
	Current input (575)	A	8.7	9.0	10.9
					10.54
					11.7
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)	59~75°F (15~24°C) 23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2 BTU/h	135,000		160,000	
	*2 kW	39.6		46.9	
	Power input (575)	kW	10.09	12.65	
	Current input (575)	A	11.2	14.1	
(Rated)	BTU/h	129,000		152,000	
	kW	37.8		44.5	
	Power input (575)	kW	9.35	9.67	11.46
	Current input (575)	A	10.4	10.7	12.7
					11.95
					13.3
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity Model/Quantity		50~130% of outdoor unit capacity P04~P96/1~30	50~130% of outdoor unit capacity P04~P96/1~36	
Sound pressure level (measured in anechoic room)	dB <A>		60.0		61.0
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	1/2 (12.7) Brazed	
		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 m³/min	11,300 320	11,300 320	
		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 x 1	10.8 x 1	
	Case heater	kW	-	-	
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. mm	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740	
Protection devices	High pressure protection Inverter circuit (COMP/FAN) Fan motor		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	
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)		772 (350)	772 (350)	
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 Heating and Cooling 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-A(-BS)



## ► Specifications

Outdoor Model		PUHY-P168ZSKMU-A (-BS)		PUHY-P192ZSKMU-A (-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	168,000		192,000	
	*1 kW	49.2		56.3	
	Power input (575)	kW	12.81		14.56
	Current input (575)	A	14.2		16.2
	BTU/h	161,000		183,000	
	kW	47.2		53.6	
	Power input (575)	kW	11.46	12.26	13.14
	Current input (575)	A	12.7	13.6	14.6
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 (Nominal)	*2 BTU/h	188,000		215,000	
	*2 kW	55.1		63.0	
	Power input (575)	kW	14.54		17.16
	Current input (575)	A	16.2		19.1
	BTU/h	179,000		205,000	
	kW	52.5		60.1	
	Power input (575)	kW	13.16	13.75	15.72
	Current input (575)	A	14.6	15.3	17.5
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>		61.0		62.5
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-P72ZSKMU-A (-BS)	PUHY-P96ZSKMU-A (-BS)	PUHY-P72ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	
Minimum Circuit Ampacity	A	11	15	11	19
Maximum Overcurrent Protection	A	15	20	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
	m³/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	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)	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
	Motor output	kW	5.6 x 1	6.9 x 1	5.6 x 1
	Case heater	kW	-	-	-
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-current protection	Over-current protection	Over-current 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)	492 (223)	562 (255)	492 (223)	772 (350)
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 Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model	PUHY-P216ZSKMU-A (-BS)		PUHY-P240ZSKMU-A (-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 *1 kW	216,000 63.3		240,000 70.3
	Power input (575)	kW 16.91		18.67
	Current input (Rated)	A 18.8		20.8
	BTU/h (575)	206,000		228,000
	kW Power input (575)	60.4 15.46	15.85	66.8 17.11
	Current input (575)	A 17.2	17.6	17.45 19.0
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)	59~75°F (15~24°C) 23~115°F (-5~46°C)
Heating capacity (Nominal)	*2 BTU/h *2 kW	243,000 71.2		270,000 79.1
	Power input (575)	kW 19.69		22.14
	Current input (Rated)	A 21.9		24.7
	BTU/h (575)	232,000		258,000
	kW Power input (575)	68.0 18.44	18.01	75.6 20.58
	Current input (575)	A 20.5	20.0	20.41 22.9
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	59~81°F (15~27°C) -4~60°F (-20~15.5°C)
Indoor unit connectable	Total capacity Model/Quantity		50~130% of outdoor unit capacity P04~P96/2~50	50~130% of outdoor unit capacity P04~P96/2~50
Sound pressure level (measured in anechoic room)	dB <A>		62.5	63.0
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	5/8 (15.88) Braze 1-1/8 (28.58) Braze	5/8 (15.88) Braze 1-1/8 (28.58) Braze
Set Model				
Model	PUHY-P96ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)
Minimum Circuit Ampacity	A	15	19	19
Maximum Overcurrent Protection	A	20	30	30
FAN	Type x Quantity	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm m³/min L/s	6,700 190 3,170	11,300 320 5,330
	Control, Driving mechanism	Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor
	Motor output	kW	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)
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	6.9 x 1	8.2 x 1
	Case heater	kW	-	-
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. mm	64-31/32 x 48-1/16 x 29-5/32 1,650 x 1,220 x 740	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740
Protection devices	High pressure protection Inverter circuit (COMP/FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	Over-current protection Over-current protection
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)
Net weight	lbs (kg)	562 (255)	772 (350)	772 (350)
Heat exchanger	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 Heating and Cooling 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-A(-BS)



## ► Specifications

Outdoor Model		PUHY-P264ZSKMU-A (-BS)			PUHY-P288ZSKMU-A (-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	264,000			288,000		
	*1 kW	77.4			84.4		
	Power input (575)	kW	20.50		22.57		
	Current input (575)	A	22.8		25.1		
(Rated)	BTU/h	252,000			275,000		
	kW	73.9			80.6		
	Power input (575)	kW	18.65	19.30	20.52		21.26
	Current input (575)	A	20.8	21.5	22.8		23.7
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)		59~75°F (15~24°C) 23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2 BTU/h	295,000			323,000		
	*2 kW	86.5			94.7		
	Power input (575)	kW	23.80		26.12		
	Current input (575)	A	26.5		29.1		
(Rated)	BTU/h	281,000			308,000		
	kW	82.4			90.3		
	Power input (575)	kW	21.98	22.08	24.30		24.06
	Current input (575)	A	24.5	24.6	27.1		26.8
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)		59~81°F (15~27°C) -4~60°F (-20~15.5°C)		
Indoor unit connectable	Total capacity Model/Quantity		50~130% of outdoor unit capacity P04~P96/2~50		50~130% of outdoor unit capacity P04~P96/2~50		
Sound pressure level (measured in anechoic room)	dB <A>		63.5			64.0	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/4 (19.05) Brazed 1-3/8 (34.93) Brazed			3/4 (19.05) Brazed 1-3/8 (34.93) Brazed	
Set Model							
Model	PUHY-P72ZSKMU-A (-BS)	PUHY-P72ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P72ZSKMU-A (-BS)	PUHY-P96ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	
Minimum Circuit Ampacity	A	11	11	19	11	15	19
Maximum Overcurrent Protection	A	15	15	30	15	20	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 m³/min L/s	6,200 175 2,920	6,200 175 2,920	11,300 320 5,330	6,200 175 2,920	6,700 190 3,170
	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
	*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 x 1	5.6 x 1	8.2 x 1	5.6 x 1	6.9 x 1
	Case heater	kW	-	-	-	-	-
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 Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Fan motor	Over-current protection			Over-current protection		
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)	492 (223)	492 (223)	772 (350)	492 (223)	562 (255)	772 (350)
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 Heating and Cooling 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-A(-BS)



## ► Specifications

Outdoor Model		PUHY-P312ZSKMU-A (-BS)		PUHY-P336ZSKMU-A (-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	312,000		336,000		
	*1 kW	91.4		98.5		
	Power input (575)	kW	24.32	26.78		
	Current input (575)	A	27.1	29.8		
	BTU/h (Rated)	297,000		320,000		
	kW	87.0		93.8		
	Power input (575)	kW	22.26	22.77	24.32	
	Current input (575)	A	24.8	25.4	27.1	
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)	59~75°F (15~24°C) 23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2 BTU/h *2 kW	350,000 102.6		378,000 110.8		
	Power input (575)	kW	28.41	31.66		
	Current input (575)	A	31.6	35.3		
	BTU/h (Rated)	334,000		361,000		
	kW	97.9		105.8		
	Power input (575)	kW	26.26	26.35	29.77	
	Current input (575)	A	29.2	29.3	33.2	
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	59~81°F (15~27°C) -4~60°F (-20~15.5°C)		
Indoor unit connectable	Total capacity Model/Quantity		50~130% of outdoor unit capacity P04~P96/2~50	50~130% of outdoor unit capacity P04~P96/2~50		
Sound pressure level (measured in anechoic room)	dB <A>		64.5		64.5	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/4 (19.05) Brazed 1-3/8 (34.93) Brazed	3/4 (19.05) Brazed 1-5/8 (41.28) Brazed		
Set Model						
Model	PUHY-P72ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P96ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)
Minimum Circuit Ampacity	A	11	19	19	15	19
Maximum Overcurrent Protection	A	15	30	30	20	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
	Airflow rate	cfm m³/min L/s	6,200 175 2,920	11,300 320 5,330	11,300 190 3,170	11,300 320 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
	*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)
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6 x 1	8.2 x 1	8.2 x 1	8.2 x 1
	Case heater	kW	-	-	-	-
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
	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
Protection devices	High pressure protection Inverter circuit (COMP./FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
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)
Net weight	lbs (kg)	492 (223)	772 (350)	772 (350)	562 (255)	772 (350)
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 Heating and Cooling 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-A(-BS)



## ► Specifications

Outdoor Model		PUHY-P360ZSKMU-A (-BS)	
Indoor Model		Non-Ducted	Ducted
Power source			
Cooling capacity (Nominal)	*1 BTU/h	360,000	
	*1 kW	105.5	
	Power input kW	29.11	
	(575) Current input A	32.4	
(Rated)	BTU/h	342,000	
	kW	100.2	
	Power input kW	26.36	27.54
(575)	Current input A	29.4	30.7
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	405,000	
	*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	31.94	31.94
(575)	Current input A	35.6	35.6
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 Model/Quantity	50~130% of outdoor unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>	65.0	
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-P120ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)	PUHY-P120ZSKMU-A (-BS)
Minimum Circuit Ampacity	A	19	19
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
	m³/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)	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	8.2 x 1
	Case heater kW	-	-
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. mm	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740
Protection devices	High pressure protection Inverter circuit (COMP./FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection -
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)	772 (350)	772 (350)
Heat exchanger		Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102S/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

**Notes:**

\*1,\*2 Heating and Cooling 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.

# R2-Series

## Simultaneous Heating and Cooling

[Heat recovery](#)

- Optional parts

- Specifications

460V	H2i	PURY-HP T(Y)NU-A
208-230V	High efficiency	PURY-EP T(Y)NU-A(-BS)
575V	Standard	PURY-P T(Y)NU-A(-BS)

Standard	PURY-P ZKMU-A(-BS)
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- BC controllers



\*This image shows the standard type.

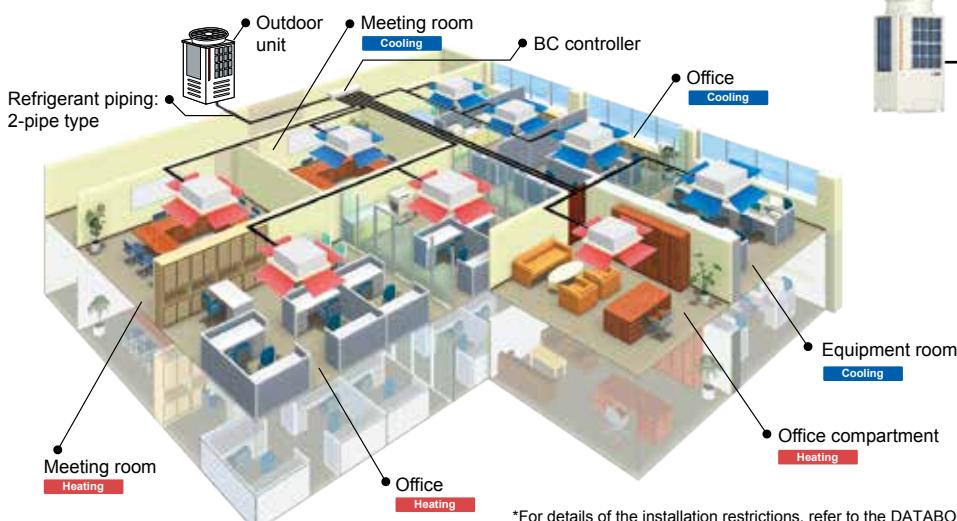
## The world's first\* two-pipe system that simultaneously heats and cools

\*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 heating and cooling 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.

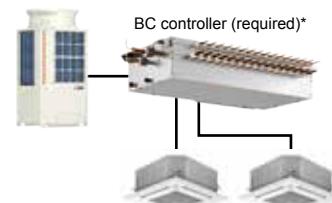
This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity.

- 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].

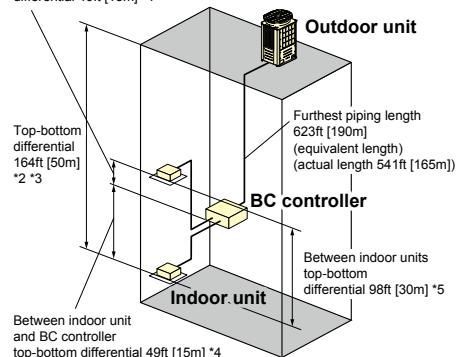
\*3 Depending on the model and installation conditions, top-bottom differential 295ft [90m] (o/u above) and 196ft [60m] (o/u below) is available.

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.

Between indoor unit and  
BC controller top-bottom  
differential 49ft [15m] \*4

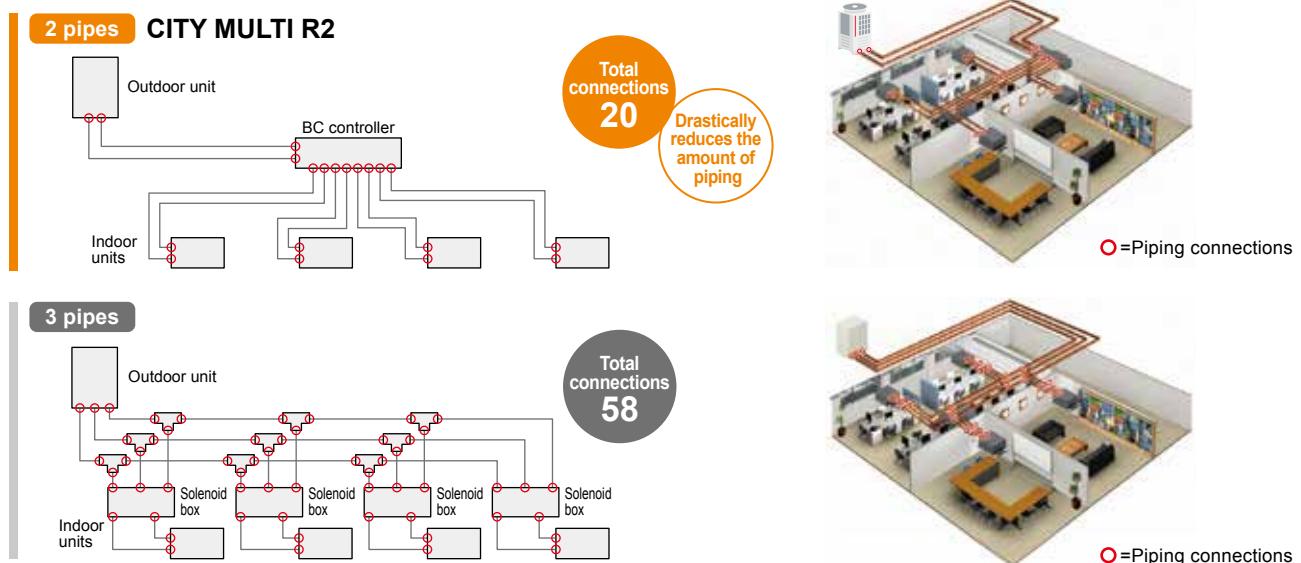


## Benefits of the R2 system

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



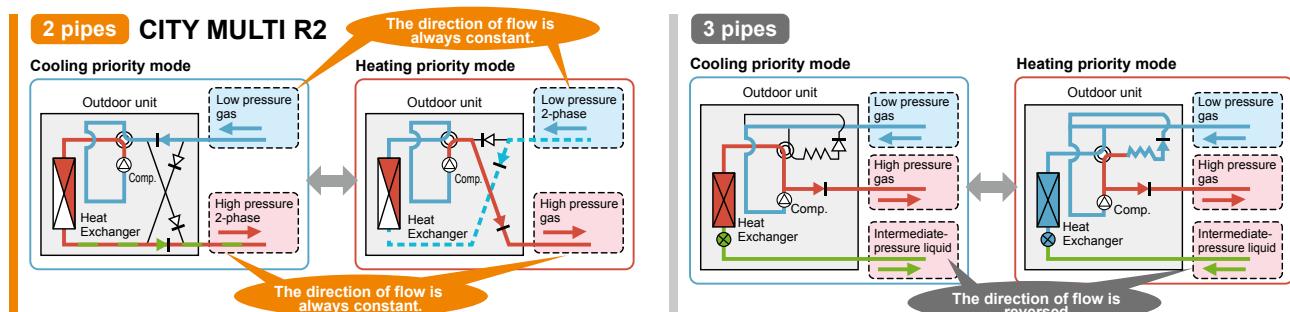
### Heating/cooling modes can be switched without stopping operation

#### When heating/cooling 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.

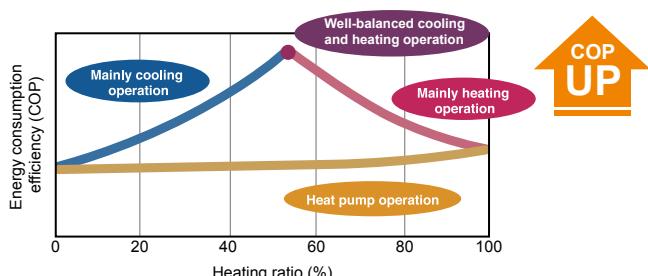
#### When heating/cooling mode switches

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



### Heat recovery operation for greater energy savings

- COP of the heat recovery system



#### COP of the heat recovery system

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

## 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-A
	CMY-R200NCBK	For PURY-(E)P192-(E)P240T/YSNU-A
	CMY-R300NCBK	For PURY-(E)P264-(E)P336T/YSNU-A, PURY-HP192-HP240T/YSNU-A
For BC controller	CMY-Y102SS-G2	72 or below (Total capacity of indoor unit)
	CMY-Y102LS-G2	73-96 (Total capacity of indoor unit)
	CMY-R201S-G	126 or below (Total capacity of indoor unit)
	CMY-R202S-G	127-216 (Total capacity of indoor unit)
	CMY-R203S-G	217-234 (Total capacity of indoor unit)
	CMY-R204S-G	235-360 (Total capacity of indoor unit)
	CMY-R205S-G	361 or above (Total capacity of indoor unit)
	CMY-R301S-G	For CMB-P104, 106, 108, 1012, 1016NU-J1 (When the outdoor unit capacity is P72 to P120)
	CMY-R302S-G1	For CMB-P108, 1012, 1016NU-JA1 (When the outdoor unit capacity is P72 to P336)
	CMY-R303S-G1	For CMB-P108, 1012, 1016NU-JA1 and for use with sub BC controller
Reducer	CMY-R304S-G1	For CMB-P1016NU-KA1 (When the outdoor unit capacity is P72 to P336)
	CMY-R305S-G1	For CMB-P1016NU-KA1 and for use with sub BC controller
	CMY-R306S-G	For CMB-P104, 108NU-KB1
	CMY-R160-J1	Joint for connecting to 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
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-R160-J1	For 55-96 (Total capacity of indoor unit)

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-A



#### ► Specifications

Outdoor Model	PURY-HP72TNU-A		PURY-HP96TNU-A		PURY-HP120TNU-A	
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	<b>21.1</b>		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		114,000
	kW	20.2		27.0		33.4
(208-230)	Power input kW	4.74	4.91	5.80	6.23	8.04
	Current input A	14.6-13.2	15.1-13.6	17.8-16.1	19.2-17.3	24.7-22.4
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
	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
(208-230)	Power input kW	5.12	5.36	6.93	7.10	9.01
	Current input A	15.7-14.2	16.5-14.9	21.3-19.3	21.8-19.8	27.7-25.1
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	50~150% 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 pressure level (measured in anechoic room) *3	dB <A>	56.5/58.0		58.5/60.0		64.0/65.0
Sound power level (measured in anechoic room) *3	dB <A>	75.5/77.0		77.5/79.0		84.0/85.0
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	38-35		44-40		47-44
Maximum Overcurrent Protection	A	60-50		70-60		70-60
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
	m³ / 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	-		-		-
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 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8
	mm	1,818 x 1,250 x 745		1,818 x 1,250 x 745		1,818 x 1,250 x 745
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)	609 (276)		662 (300)		662 (300)
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-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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 (208-230V)

### PURY-HP TSNU-A



#### ► Specifications

Outdoor Model		PURY-HP144TSNU-A		PURY-HP192TSNU-A		PURY-HP240TSNU-A	
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
				BTU / h	138,000	184,000	228,000
				kW	40.4	53.9	66.8
				Power input	kW	10.73	11.34
				Current input	A	33.0-29.9	34.9-31.6
						40.0-36.2	42.8-38.7
						18.72	18.45
						57.7-52.2	56.9-51.4
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	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
				BTU / h	152,000	206,000	258,000
				kW	44.5	60.4	75.6
				Power input	kW	11.22	11.91
				Current input	A	34.6-31.2	36.7-33.2
						46.3-41.9	47.7-43.2
						20.64	20.92
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 pressure level (measured in anechoic room)	*3	dB <A>	59.5/61.0		61.5/63.0		67.0/68.0
Sound power level (measured in anechoic room)	*3	dB <A>	78.5/80.0		80.5/82.0		87.0/88.0
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-A	PURY-HP72TNU-A	PURY-HP96TNU-A	PURY-HP96TNU-A	PURY-HP120TNU-A	PURY-HP120TNU-A
Minimum Circuit Ampacity	A	38-35	38-35	44-40	44-40	47-44
Maximum Overcurrent Protection	A	60-50	60-50	70-60	70-60	70-60
FAN	Type x Quantity	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
		m³ / 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	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
	*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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	4.0	4.0	5.6	5.6
	Case heater	kW	-	-	-	-
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 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8
	mm	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745
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)
Net weight	lbs (kg)	609 (276)	609 (276)	662 (300)	662 (300)	662 (300)
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	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
	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-Y160-J1,CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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 YNU-A



#### ► Specifications

Outdoor Model	PURY-HP72YNU-A		PURY-HP96YNU-A		PURY-HP120YNU-A	
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
	Current input A	7.2		9.0		12.3
(Rated)	BTU / h	69,000		92,000		114,000
	kW	20.2		27.0		33.4
	Power input kW	4.74	4.91	5.80	6.23	8.04
	Current input A	6.6	6.8	8.0	8.6	11.2
(460)						11.5
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
	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	7.10	9.01
	Current input A	7.1	7.4	9.6	9.9	12.5
(460)						13.4
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 pressure level (measured in anechoic room) *3	dB <A>	56.5/58.0		58.5/60.0		64.0/65.0
Sound power level (measured in anechoic room) *3	dB <A>	75.5/77.0		77.5/79.0		84.0/85.0
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		1-1/8 (28.58) Brazed
Minimum Circuit Ampacity	A	17		20		21
Maximum Overcurrent Protection	A	25		30		35
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
	m³ / 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	-		-		-
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 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8		71-5/8 x 49-1/4 x 29-3/8
	mm	1,818 x 1,250 x 745		1,818 x 1,250 x 745		1,818 x 1,250 x 745
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)	644 (292)		697 (316)		697 (316)
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-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1

**Notes:**

\*1,\*2 Nominal Heating and Cooling 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-A



## ► Specifications

Outdoor Model		PURY-HP144YSNU-A			PURY-HP192YSNU-A		
Indoor Model		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	
(460)	Power input	kW	11.92			14.53	
	Current input	A	16.6			20.2	
(Rated)	BTU / h		138,000			184,000	
	kW		40.4			53.9	
(460)	Power input	kW	10.73	11.34	13.00	13.89	
	Current input	A	14.9	15.8	18.1	19.3	
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			215,000	
	kW		46.9			63.0	
(460)	Power input	kW	12.50			16.49	
	Current input	A	17.4			22.9	
(Rated)	BTU / h		152,000			206,000	
	kW		44.5			60.4	
(460)	Power input	kW	11.22	11.91	15.04	15.49	
	Current input	A	15.6	16.6	20.9	21.6	
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 pressure level (measured in anechoic room)	*3 dB <A>		59.5/61.0			61.5/63.0	
Sound power level (measured in anechoic room)	*3 dB <A>		78.5/80.0			80.5/82.0	
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-A	PURY-HP72YNU-A	PURY-HP96YNU-A	PURY-HP96YNU-A		
Minimum Circuit Ampacity	A	17	17	20	20		
Maximum Overcurrent Protection	A	25	25	30	30		
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	
		m³ / 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	-	-	-	-	
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 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8	71-5/8 x 49-1/4 x 29-3/8		
	mm	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745	1,818 x 1,250 x 745		
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)	644 (292)	644 (292)	697 (316)	697 (316)		
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			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1		
	Main BC controller:	CMB-P108,1012,1016NU-JA1,CMB-P1016NU-KA1			Main BC controller: CMB-P108,1012,1016NU-JA1,CMB-P1016NU-KA1		
	Sub BC controller:	CMB-P104,108NU-KB1			Sub BC controller: CMB-P104,108NU-KB1		

### Notes:

\*1,\*2 Nominal Heating and Cooling 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-A



#### ► Specifications

Outdoor Model		PURY-HP240YSNU-A		
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	
	(460)	Power input	kW	20.08
		Current input	A	28.0
	(Rated)	BTU / h	228,000	
		kW	66.8	
	(460)	Power input	kW	18.72
		Current input	A	26.1
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	270,000	
		kW	79.1	
	(460)	Power input	kW	22.45
		Current input	A	31.3
	(Rated)	BTU / h	258,000	
		kW	75.6	
	(460)	Power input	kW	20.64
		Current input	A	28.7
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 pressure level (measured in anechoic room)	*3	dB <A>	67.0/68.0	
Sound power level (measured in anechoic room)	*3	dB <A>	87.0/88.0	
Refrigerant piping diameter	High pressure Low pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	1-3/8 (34.93) Brazed

#### Set Model

Model	PURY-HP120YNU-A			PURY-HP120YNU-A
Minimum Circuit Ampacity	A	21		21
Maximum Overcurrent Protection	A	35		35
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2
	Airflow rate	cfm	9,550	9,550
		m³ / 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	-	-
External finish		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>		
External dimension H x W x D	in. mm	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745	71-5/8 x 49-1/4 x 29-3/8 1,818 x 1,250 x 745	
Protection devices	High pressure protection Inverter circuit (COMP./FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection		
Refrigerant	Type x original charge	R410A x 23 lbs + 12 oz (10.8 kg)		
Net weight	lbs (kg)	697 (316)		
Heat exchanger		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	3/4 (19.05) Brazed 1-1/8 (28.58) Brazed	3/4 (19.05) Brazed 1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP72TNU-A (-BS)		PURY-EP96TNU-A (-BS)		PURY-EP120TNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted		Non-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	4.44	6.11		8.43		
(208-230)	Current input	A	13.6-12.3	18.8-17.0		25.9-23.5		
		BTU / h	69,000	92,000		114,000		
		kW	20.2	27.0		33.4		
(208-230)	Power input	kW	3.96	4.26	5.55	5.76	7.70	
	Current input	A	12.2-11.0	13.1-11.8	17.1-15.4	17.7-16.0	23.7-21.4	
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	5.43	7.40		9.89		
(208-230)	Current input	A	16.7-15.1	22.8-20.6		30.5-27.5		
		BTU / h	76,000	103,000		129,000		
		kW	22.3	30.2		37.8		
(208-230)	Power input	kW	4.77	5.28	6.72	6.98	8.95	
	Current input	A	14.7-13.3	16.2-14.7	20.7-18.7	21.5-19.4	27.6-24.9	
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 pressure level (measured in anechoic room)	*3 dB <A>	56.5/58.0		58.5/60.0		60.0/62.0		
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	23-21		31-29		41-38		
Maximum Overcurrent Protection	A	35-30		45-45		60-60		
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		
	m³ / 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)		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	-		-		-		
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>		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-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 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		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-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (208-230V)

### PURY-EP TNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP144TNU-A (-BS)		PURY-EP168TNU-A (-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	137,000		161,000	
	kW	40.2		47.2	
(208-230)	Power input kW	10.04	10.38	12.92	12.98
	Current input A	30.9-28.0	32.0-28.9	39.8-36.0	40.0-36.2
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	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		179,000	
	kW	44.5		52.5	
(208-230)	Power input kW	11.08	11.76	13.32	14.77
	Current input A	34.1-30.9	36.2-32.8	41.0-37.1	45.5-41.1
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 pressure level (measured in anechoic room)	*3 dB <A>	65.0/65.5		62.5/66.5	
Sound power level (measured in anechoic room)	*3 dB <A>	85.5/85.5		81.0/85.5	
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	49-45		57-53	
Maximum Overcurrent Protection	A	80-70		90-80	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,550		14,850	
	m³ / 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	-		-	
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-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)		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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (208-230V)

### PURY-EP TNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP192TNU-A (-BS)		PURY-EP216TNU-A (-BS)		PURY-EP240TNU-A (-BS)	
Indoor Model		Non-Ducted		Ducted		Non-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	15.65	18.66		21.39	
(208-230)	Current input	A	48.2-43.6	57.5-52.0		65.9-59.6	
		BTU / h	183,000	206,000		222,000	
		kW	53.6	60.4		65.1	
(208-230)	Power input	kW	14.38	14.60	17.43	20.38	19.24
	Current input	A	44.3-40.1	45.0-40.7	53.7-48.6	52.8-47.7	62.8-56.8
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)	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)	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	
(208-230)	Current input	A	54.0-48.9	63.0-56.9		67.2-60.7	
		BTU / h	205,000	232,000		240,000	
		kW	60.1	68.0		70.3	
(208-230)	Power input	kW	15.45	16.69	18.22	19.96	20.40
	Current input	A	47.6-43.0	51.4-46.5	56.1-50.8	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)	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)	-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 pressure level (measured in anechoic room)	*3, 4	dB <A>	64.5/66.0	66.5/67.5		67.5/68.0	
Sound power level (measured in anechoic room)	*3	dB <A>	83.5/85.0	85.5/86.5		86.5/87.0	
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	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity	A		66-60	73-67		82-75	
Maximum Overcurrent Protection	A		110-100	125-110		125-125	
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	
		m³ / 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	-	-		-	
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-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1		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-JA1, CMB-P1016NU-KA1	Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1	
	Sub BC controller: CMB-P104,108NU-KB1	Sub BC controller: CMB-P104,108NU-KB1		Sub BC controller: CMB-P104,108NU-KB1		Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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 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-A(-BS)



#### ► Specifications

Outdoor Model	PURY-EP192TSNU-A (-BS)		PURY-EP216TSNU-A (-BS)		PURY-EP240TSNU-A (-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)			183,000	206,000	228,000
		BTU / h				
		kW	53.6	60.4	66.8	
	(208-230)	Power input	kW	12.35	12.83	17.92
		Current input	A	38.0-34.4	39.5-35.7	54.2-49.0
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)			205,000	232,000	258,000
		BTU / h				
		kW	60.1	68.0	75.6	
	(208-230)	Power input	kW	14.53	15.13	20.52
		Current input	A	44.8-40.5	46.6-42.1	62.5-56.5
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 pressure level (measured in anechoic room)	*3 dB <A>	61.5/63.0		62.5/64.5		63.0/65.0
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	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed

#### Set Model

Model	PURY-EP96TSNU-A (-BS)	PURY-EP96TSNU-A (-BS)	PURY-EP120TSNU-A (-BS)	PURY-EP96TSNU-A (-BS)	PURY-EP120TSNU-A (-BS)	PURY-EP120TSNU-A (-BS)
Minimum Circuit Ampacity	A	31-29	31-29	41-38	31-29	41-38
Maximum Overcurrent Protection	A	45-45	45-45	60-60	45-45	60-60
FAN	Type x Quantity	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	7,400	8,300
	m³ / min	210	210	235	210	235
	L / s	3,500	3,500	3,920	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	0.46+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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.5	5.5	7.6	7.6
	Case heater	kW	-	-	-	-
External finish	Pre-coated galvanized steel sheet (+powder coating for -BS type)		Pre-coated galvanized steel sheet (+powder coating for -BS type)		Pre-coated galvanized steel sheet (+powder coating for -BS type)	
	<MUNSELL 5Y 8/1>		<MUNSELL 5Y 8/1>		<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
	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
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 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)	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
	Low pressure	in. (mm)	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-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (208-230V)

### PURY-EP TSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP264TSNU-A (-BS)		PURY-EP288TSNU-A (-BS)		PURY-EP312TSNU-A (-BS)	
Indoor Model		Non-Ducted		Ducted		Non-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	21.86		24.83		27.98	
	Current input A	67.4-60.9		76.5-69.2		86.2-78.0	
(208-230)	BTU / h	251,000		274,000		297,000	
	kW	73.6		80.3		87.0	
	Power input kW	20.31	20.17	23.02	22.95	26.37	25.43
	Current input A	62.6-56.6	62.2-56.2	70.9-64.2	70.7-64.0	81.3-73.5	78.4-70.9
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	295,000		323,000		350,000	
	*2 kW	86.5		94.7		102.6	
	Power input kW	24.56		27.30		30.53	
	Current input A	75.7-68.5		84.1-76.1		94.1-85.1	
(208-230)	BTU / h	281,000		304,000		334,000	
	kW	82.4		89.1		97.9	
	Power input kW	22.69	22.79	25.07	25.47	28.32	28.21
	Current input A	69.9-63.2	70.2-63.5	77.3-69.9	78.5-71.0	87.3-78.9	87.0-78.6
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	50~150% 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 pressure level (measured in anechoic room)	*3 dB <A>	66.5/67.5		68.0/68.5		67.0/69.0	
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-A (-BS)	PURY-EP120TNU-A (-BS)	PURY-EP144TNU-A (-BS)	PURY-EP144TNU-A (-BS)	PURY-EP168TNU-A (-BS)	PURY-EP144TNU-A (-BS)	
Minimum Circuit Ampacity	A	49-45	41-38	49-45	49-45	57-53	49-45
Maximum Overcurrent Protection	A	80-70	60-60	80-70	80-70	90-80	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	9,550	8,300	9,550	9,550	14,850	9,550
	m³ / min	270	235	270	270	420	270
	L / s	4,500	3,920	4,500	4,500	7,000	4,500
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	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	0.92+0.92	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	9.8	7.6	9.8	9.8	12.2	9.8
	Case heater kW	-	-	-	-	-	-
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 68-15/16 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 1,750 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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	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 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)	777 (352)	680 (308)
Heat exchanger	Salt-resistant cross fin & aluminium tube		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-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (208-230V)

### PURY-EP TSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP336TSNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted
Power source				
Cooling capacity (Nominal)	*1 BTU / h		336,000	
	*1 kW		98.5	
	Power input (208-230)	kW	31.43	
	Current input (Rated)	A	96.9-87.6	
		BTU / h	320,000	
		kW	93.8	
	Power input (208-230)	kW	30.12	28.08
	Current input (208-230)	A	92.8-84.0	86.6-78.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2 BTU / h		378,000	
	*2 kW		110.8	
	Power input (208-230)	kW	33.55	
	Current input (Rated)	A	103.4-93.5	
		BTU / h	361,000	
		kW	105.8	
	Power input (208-230)	kW	31.39	30.73
	Current input (208-230)	A	96.8-87.5	94.7-85.7
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 pressure level (measured in anechoic room)	*3 dB <A>		65.5/69.5	
Sound power level (measured in anechoic room)	*3 dB <A>		84.0/88.5	
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-EP168TSNU-A (-BS)			PURY-EP168TNU-A (-BS)
Minimum Circuit Ampacity	A	57-53		57-53
Maximum Overcurrent Protection	A	90-80		90-80
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2
	Airflow rate	cfm	14,850	14,850
		m³ / 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	-	-
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-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)	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-Y202S-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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (208-230V)

### PURY-EP TSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP384TSNU-A (-BS)		PURY-EP432TSNU-A (-BS)	
Indoor Model		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 (208-230)	kW	36.62	42.36	
	Current input (Rated)	A	112.9-102.1	130.6-118.1	
		BTU / h	365,000	411,000	
		kW	107.0	120.5	
	Power input (208-230)	kW	34.75	33.06	38.47
	Current input (208-230)	A	107.1-96.9	101.9-92.2	118.6-107.2
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	430,000		480,000	
	*2 kW	126.0		140.7	
	Power input (208-230)	kW	38.66	43.14	
	Current input (Rated)	A	119.2-107.8	133.0-120.3	
		BTU / h	410,000	456,000	
		kW	120.2	133.6	
	Power input (208-230)	kW	36.47	35.13	39.04
	Current input (208-230)	A	112.4-101.7	108.3-97.9	120.4-108.8
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	50~150% 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)	*3, 4 dB <A>	67.5/69.0		69.5/70.0	
Sound power level (measured in anechoic room)	*3 dB <A>	86.5/89.0		88.5/89.0	
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-EP192TSNU-A (-BS)	PURY-EP192TSNU-A (-BS)	PURY-EP216TSNU-A (-BS)	PURY-EP216TSNU-A (-BS)
Minimum Circuit Ampacity	A	66-60	66-60	73-67
Maximum Overcurrent Protection	A	110-100	110-100	125-110
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate cfm	13,050	13,050	14,100
	m³ / min	370	370	400
	L / s	6,170	6,170	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
*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	13.2	15.8
	Case heater kW	-	-	-
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
	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)	
	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			
Pipe between unit and distributor	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
Optional parts	Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1	

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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 The sound pressure level shown above indicates A-weighted sound pressure level.

Although the sound pressure level in JIS has been changed to the sound power level (PWL), the value shown above indicates the sound pressure level measured by the conventional method 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 YNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP72YNU-A (-BS)		PURY-EP96YNU-A (-BS)		PURY-EP120YNU-A (-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 (460)	kW	4.44	6.11		8.43		
	Current input (460)	A	6.1	8.5		11.7		
		BTU / h	69,000	92,000		114,000		
		kW	20.2	27.0		33.4		
	Power input (460)	kW	3.96	4.26	5.55	5.76	7.70	
	Current input (460)	A	5.5	5.9	7.7	8.0	10.7	
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (460)	kW	5.43	7.40		9.89		
	Current input (460)	A	7.5	10.3		13.7		
		BTU / h	76,000	103,000		129,000		
		kW	22.3	30.2		37.8		
	Power input (460)	kW	4.77	5.28	6.72	6.98	8.95	
	Current input (460)	A	6.6	7.3	9.3	9.7	12.4	
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
		P04~P96/1~18		P04~P96/1~24		P04~P96/1~30		
Sound pressure level (measured in anechoic room)	*3 dB <A>	56.5/58.0		58.5/60.0		60.0/62.0		
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 Amicity	A	10		14		19		
Maximum Overcurrent Protection	A	15		20		30		
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		
	m³ / 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	-		-		-		
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>		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-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 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		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-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1			

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (460V)

### PURY-EP YNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP144YNU-A (-BS)		PURY-EP168YNU-A (-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 (460)	kW	11.03	13.99	
	Current input (460)	A	15.3	19.5	
	(Rated)	BTU / h	137,000	161,000	
		kW	40.2	47.2	
		Power input (460)	kW	10.04	12.92
		Current input (460)	A	14.0	12.98
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 (460)	kW	12.34	15.17	
	Current input (460)	A	17.2	21.1	
	(Rated)	BTU / h	152,000	179,000	
		kW	44.5	52.5	
		Power input (460)	kW	11.08	13.32
		Current input (460)	A	15.4	14.77
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 pressure level (measured in anechoic room)	*3 dB <A>	65.0/65.5		62.5/66.5	
Sound power level (measured in anechoic room)	*3 dB <A>	85.5/85.5		81.0/85.5	
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	22		26	
Maximum Overcurrent Protection	A	35		40	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,550		14,850	
	m³ / 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	-		-	
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 Inverter circuit (COMP.FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection	
Refrigerant	Type x original charge	R410A x 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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (460V)

### PURY-EP YNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP192YNU-A (-BS)		PURY-EP216YNU-A (-BS)		PURY-EP240YNU-A (-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 (460)	kW	15.65	18.66		21.39	
	Current input (460)	A	21.8	26.0		29.8	
		BTU / h	183,000	206,000		222,000	
		kW	53.6	60.4		65.1	
	Power input (460)	kW	14.38	14.60	17.43	17.13	20.38
	Current input (460)	A	20.0	20.3	24.3	23.8	28.4
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	215,000		243,000		250,000	
	*2 kW	63.0		71.2		73.3	
	Power input (460)	kW	17.54	20.43		21.79	
	Current input (460)	A	24.4	28.4		30.3	
		BTU / h	205,000	232,000		240,000	
		kW	60.1	68.0		70.3	
	Power input (460)	kW	15.45	16.69	18.22	19.61	19.96
	Current input (460)	A	21.5	23.2	25.4	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	50~150% 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 pressure level (measured in anechoic room)	*3, 4 dB <A>	64.5/66.0		66.5/67.5		67.5/68.0	
Sound power level (measured in anechoic room)	*3 dB <A>	83.5/85.0		85.5/86.5		86.5/87.0	
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		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity	A	30		33		37	
Maximum Overcurrent Protection	A	50		50		60	
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	
	m³ / 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	-		-		-	
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-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1		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-JA1, CMB-P1016NU-KA1		Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		
	Sub BC controller: CMB-P104,108NU-KB1		Sub BC controller: CMB-P104,108NU-KB1		Sub BC controller: CMB-P104,108NU-KB1		

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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 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-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP192YSNU-A (-BS)		PURY-EP216YSNU-A (-BS)		PURY-EP240YSNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted		Non-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 (460)	kW	13.60	16.06		19.17		
	Current input (460)	A	18.9	22.3		26.7		
	(Rated)	BTU / h	183,000	206,000		228,000		
		kW	53.6	60.4		66.8		
	Power input (460)	kW	12.35	12.83	14.61	15.12	17.92	
	Current input (460)	A	17.2	17.8	20.3	21.0	24.9	
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (460)	kW	16.02	18.67		22.03		
	Current input (460)	A	22.3	26.0		30.7		
	(Rated)	BTU / h	205,000	232,000		258,000		
		kW	60.1	68.0		75.6		
	Power input (460)	kW	14.53	15.13	16.91	17.65	20.52	
	Current input (460)	A	20.2	21.0	23.5	24.6	28.6	
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
	P04~P96/1~48	P04~P96/2~50		P04~P96/2~50		P04~P96/2~50		
Sound pressure level (measured in anechoic room)	*3 dB <A>	61.5/63.0		62.5/64.5		63.0/65.0		
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		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		
<b>Set Model</b>								
<b>Model</b>		PURY-EP96YNU-A (-BS)	PURY-EP96YNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP96YNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP120YNU-A (-BS)	
Minimum Circuit Ampacity	A	14	14	19	14	19	19	
Maximum Overcurrent Protection	A	20	20	30	20	30	30	
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	7,400 cfm	7,400	8,300	7,400	8,300	8,300	
		m³ / min	210	210	235	210	235	
		L / s	3,500	3,500	3,920	3,500	3,920	
	Control, Driving mechanism	Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		
Compressor	Motor output	kW	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)	
	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	
External finish	Motor output	kW	5.5	5.5	7.6	5.5	7.6	
	Case heater	kW	-	-	-	-	-	
	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>		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-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 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)	657 (298)	649 (294)	657 (298)	657 (298)	
Heat exchanger	Salt-resistant cross fin & aluminium tube		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	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-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1		Main BC controller:		Main BC controller:		
	Sub BC controller:	CMB-P104,108NU-KB1		CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		CMB-P104,108NU-KB1		

**Notes:**

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (460V)

### PURY-EP YSNU-A(-BS)



#### ► Specifications

Outdoor Model	PURY-EP264YSNU-A (-BS)		PURY-EP288YSNU-A (-BS)		PURY-EP312YSNU-A (-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
	BTU / h	251,000		274,000		297,000
		73.6		80.3		87.0
	Power input	kW	20.31	20.17	23.02	22.95
(460)	Current input	A	28.3	28.1	32.1	32.0
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	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
	BTU / h	281,000		304,000		334,000
		82.4		89.1		97.9
	Power input	kW	22.69	22.79	25.07	25.47
(460)	Current input	A	31.6	31.7	34.9	35.5
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~P96/2~50		P04~P96/2~50		P04~P96/2~50
Sound pressure level (measured in anechoic room)	*3 dB <A>	66.5/67.5		68.0/68.5		67.0/69.0
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
<b>Set Model</b>						
<b>Model</b>	PURY-EP144YNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP144YNU-A (-BS)	PURY-EP144YNU-A (-BS)	PURY-EP168YNU-A (-BS)	PURY-EP144YNU-A (-BS)
Minimum Circuit Ampacity	A	22	19	22	26	22
Maximum Overcurrent Protection	A	35	30	35	40	35
FAN	Type x Quantity	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	14,850
		m³ / min	270	235	270	420
		L / s	4,500	3,920	4,500	7,000
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	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	0.92+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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.8	7.6	9.8	12.2
	Case heater	kW	-	-	-	-
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
	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
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 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)
Net weight	lbs (kg)	715 (324)	657 (298)	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)	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
	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
Optional parts		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (460V)

### PURY-EP YSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP336YSNU-A (-BS)				
Indoor Model		Non-Ducted		Ducted		
Power source						
Cooling capacity (Nominal)		*1 BTU / h	336,000			
(460)		*1 kW	98.5			
(Rated)		Power input kW	31.43			
(460)		Current input A	43.8			
		BTU / h	320,000			
		kW	93.8			
(460)		Power input kW	30.12			
		Current input A	42.0			
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			
(460)		*2 kW	110.8			
(Rated)		Power input kW	33.55			
(460)		Current input A	46.7			
		BTU / h	361,000			
		kW	105.8			
(460)		Power input kW	31.39			
		Current input A	43.7			
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 pressure level (measured in anechoic room)		*3 dB <A>	65.5/69.5			
Sound power level (measured in anechoic room)		*3 dB <A>	84.0/88.5			
Refrigerant piping diameter		High pressure in. (mm)	1-1/8 (28.58) Brazed			
		Low pressure in. (mm)	1-5/8 (41.28) Brazed			
<b>Set Model</b>						
Model		PURY-EP168YNU-A (-BS)		PURY-EP168YNU-A (-BS)		
Minimum Circuit Ampacity		A	26			
Maximum Overcurrent Protection		A	40			
FAN	Type x Quantity	Propeller fan x 2				
	Airflow rate cfm	14,850				
	m³ / min	420				
	L / s	7,000				
	Control, Driving mechanism	Inverter-control, Brushless DC motor				
Compressor	Motor output kW	0.92+0.92				
	*4 External static press.	0 in.WG (0 Pa)				
	Type x Quantity	Inverter scroll hermetic compressor x 1				
Starting method		Inverter				
Motor output kW		12.2				
Case heater kW		-				
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>				
External dimension H x W x D		71-5/8 x 68-15/16 x 29-3/16 1,818 x 1,750 x 740				
Protection devices		High pressure protection, High pressure switch at 4.15 MPa (601 psi)				
Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection				
Fan motor		-				
Refrigerant		R410A x 23 lbs + 12 oz (10.8 kg)				
Net weight		807 (366)				
Heat exchanger		Salt-resistant cross fin & aluminium tube				
Pipe between unit and distributor		7/8 (22.2) Brazed 1-1/8 (28.58) Brazed				
Optional parts		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1				

**Notes:**

\*1,\*2 Heating and Cooling 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

## R2-Series High efficiency (460V)

### PURY-EP YSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-EP384YSNU-A (-BS)			PURY-EP432YSNU-A (-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 (460)	kW	36.62			42.36	
	Current input (460)	A	51.0			59.0	
	(Rated)	BTU / h	365,000			411,000	
		kW	107.0			120.5	
	(460)	Power input kW	34.75	33.06	39.98	38.47	
		Current input A	48.4	46.1	55.7	53.6	
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)		59~75°F (15~24°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 (460)	kW	38.66			43.14	
	Current input (460)	A	53.9			60.1	
	(Rated)	BTU / h	410,000			456,000	
		kW	120.2			133.6	
	(460)	Power input kW	36.47	35.13	40.84	39.04	
		Current input A	50.8	48.9	56.9	54.4	
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)		59~81°F (15~27°C) -13~60°F (-25~15.5°C)		
Indoor unit connectable	Total capacity Model / Quantity		50~150% of outdoor unit capacity P04~P96/2~50		50~150% of outdoor unit capacity P04~P96/2~50		
Sound pressure level (measured in anechoic room)	*3, 4 dB <A>		67.5/69.0			69.5/70.0	
Sound power level (measured in anechoic room)	*3 dB <A>		86.5/89.0			88.5/89.0	
Refrigerant piping diameter	High pressure Low pressure	in. (mm)	1-1/8 (28.58) Brazed 1-5/8 (41.28) Brazed		1-1/8 (28.58) Brazed 1-5/8 (41.28) Brazed		
<b>Set Model</b>							
Model	PURY-EP192YNU-A (-BS)		PURY-EP192YNU-A (-BS)		PURY-EP216YNU-A (-BS)		PURY-EP216YNU-A (-BS)
Minimum Circuit Ampacity	A	30	30	33	33		
Maximum Overcurrent Protection	A	50	50	50	50		
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	13,050	13,050	14,100	14,100	
		m³ / 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		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)	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	13.2	15.8	15.8	
	Case heater	kW	-	-	-	-	
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	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	1,818 x 1,750 x 740	
Protection devices	High pressure protection Inverter circuit (COMP./FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Fan motor	Over-current protection		Over-current protection		Over-current protection	
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)	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 Low pressure	in. (mm)	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed
Optional parts	Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2, CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2, CMY-R160-J1,CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1				

#### Notes:

\*1,\*2 Nominal Heating and Cooling 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 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-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P72TNU-A (-BS)		PURY-P96TNU-A (-BS)		PURY-P120TNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted		Non-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	4.62	6.50		8.82		
(208-230)	Current input	A	14.2-12.8	20.0-18.1		27.2-24.6		
		BTU / h	69,000	92,000		114,000		
		kW	20.2	27.0		33.4		
(208-230)	Power input	kW	4.17	4.38	5.80	6.23	8.04	
	Current input	A	12.8-11.6	13.5-12.2	17.8-16.1	19.2-17.3	24.7-22.4	
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	5.66	7.58		10.07		
(208-230)	Current input	A	17.4-15.7	23.3-21.1		31.0-28.0		
		BTU / h	76,000	103,000		129,000		
		kW	22.3	30.2		37.8		
(208-230)	Power input	kW	5.12	5.36	6.93	7.10	9.01	
	Current input	A	15.7-14.2	16.5-14.9	21.3-19.3	21.8-19.8	27.7-25.1	
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)		
*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)		-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 pressure level (measured in anechoic room)	*4 dB <A>	56.5/58.0		58.5/60.0		60.0/62.0		
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	24-22		33-30		43-40		
Maximum Overcurrent Protection	A	40-35		50-45		70-60		
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		
	m³ / 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)		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	-		-		-		
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>		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-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 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		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-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,301, 306S-G,CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (208-230V)

### PURY-P TNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P144TNU-A (-BS)		PURY-P168TNU-A (-BS)	
Indoor Model		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	
(208-230)	Power input	kW	11.74	14.99	
	Current input	A	36.2-32.7	46.2-41.8	
		BTU / h	137,000	161,000	
		kW	40.2	47.2	
(208-230)	Power input	kW	10.60	13.96	13.79
	Current input	A	32.6-29.5	34.3-31.0	42.5-38.4
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	160,000		188,000	
	*2 kW	46.9		55.1	
(208-230)	Power input	kW	12.49	15.16	
	Current input	A	38.5-34.8	46.7-42.2	
		BTU / h	152,000	179,000	
		kW	44.5	52.5	
(208-230)	Power input	kW	11.14	13.32	14.77
	Current input	A	34.3-31.0	36.9-33.4	45.5-41.1
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	
	*3 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 pressure level (measured in anechoic room)	*4 dB <A>	65.0/65.5		62.5/66.5	
Sound power level (measured in anechoic room)	*4 dB <A>	85.5/85.5		81.0/85.5	
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	52-48		61-57	
Maximum Overcurrent Protection	A	80-70		100-90	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,550		14,850	
	m³ / 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)		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	-		-	
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-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)	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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (208-230V)

### PURY-P TSNU-A(-BS)



#### ► Specifications

Outdoor Model	PURY-P192TSNU-A (-BS)		PURY-P216TSNU-A (-BS)		PURY-P240TSNU-A (-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	14.44	16.85		20.08
	(208-230)	Current input	A	44.5-40.2	51.9-46.9	61.9-56.0
	(Rated)	BTU / h	183,000	206,000		228,000
		kW	53.6	60.4		66.8
	(208-230)	Power input	kW	12.93	13.80	15.20
		Current input	A	39.8-36.0	42.5-38.4	46.8-42.3
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)	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)	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	16.40	19.05		22.45
	(208-230)	Current input	A	50.5-45.7	58.7-53.1	69.2-62.6
	(Rated)	BTU / h	205,000	232,000		258,000
		kW	60.1	68.0		75.6
	(208-230)	Power input	kW	14.96	15.40	17.23
		Current input	A	46.1-41.7	47.4-42.9	53.1-48.0
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)	59~81°F (15~27°C)
*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)	-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 pressure level (measured in anechoic room)	*4 dB <A>	61.5/63.0		62.5/64.5		63.0/65.0
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-A (-BS)	PURY-P96TNU-A (-BS)	PURY-P120TNU-A (-BS)	PURY-P96TNU-A (-BS)	PURY-P120TNU-A (-BS)	PURY-P120TNU-A (-BS)
Minimum Circuit Ampacity	A	33-30	33-30	43-40	33-30	43-40
Maximum Overcurrent Protection	A	50-45	50-45	70-60	50-45	70-60
FAN	Type x Quantity	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	7,400	8,300
	m³ / min	210	210	235	210	235
	L / s	3,500	3,500	3,920	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	0.46+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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.6	5.6	7.8	5.6
	Case heater	kW	-	-	-	-
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
	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
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 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)	598 (271)	576 (261)
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
	Low pressure	in. (mm)	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-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (208-230V)

### PURY-P TSNU-A(-BS)



#### ► Specifications

Outdoor Model	PURY-P264TSNU-A (-BS)		PURY-P288TSNU-A (-BS)		PURY-P312TSNU-A (-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 (208-230)	kW	23.14	26.47		29.80
	Current input (Rated)	A	71.3-64.5	81.6-73.8		91.9-83.1
		BTU / h	251,000	274,000		297,000
		kW	73.6	80.3		87.0
	Power input (208-230)	kW	21.43	24.33	24.68	28.09
	Current input (208-230)	A	66.0-59.7	66.0-59.7	75.0-67.8	86.6-78.3
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (208-230)	kW	24.99	27.65		30.75
	Current input (Rated)	A	77.0-69.7	85.2-77.1		94.8-85.7
		BTU / h	281,000	304,000		334,000
		kW	82.4	89.1		97.9
	Power input (208-230)	kW	22.89	25.22	25.98	28.34
	Current input (208-230)	A	70.5-63.8	72.1-65.2	77.7-70.3	80.1-72.4
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°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 pressure level (measured in anechoic room)	*4 dB <A>	66.5/67.5		68.0/68.5	67.0/69.0	
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 Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-5/8 (41.28) Brazed

#### Set Model

Model	PURY-P144TNU-A (-BS)	PURY-P120TNU-A (-BS)	PURY-P144TNU-A (-BS)	PURY-P144TNU-A (-BS)	PURY-P168TNU-A (-BS)	PURY-P144TNU-A (-BS)
Minimum Circuit Ampacity	A	52-48	43-40	52-48	52-48	61-57
Maximum Overcurrent Protection	A	80-70	70-60	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
	Airflow rate	cfm m³ / min L / s	9,550 270 4,500	8,300 235 3,920	9,550 270 4,500	9,550 420 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	0.92+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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	7.8	9.9	12.2
	Case heater	kW	-	-	-	-
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 68-15/16 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 1,750 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 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)
Net weight	lbs (kg)	646 (293)	598 (271)	646 (293)	739 (335)	646 (293)
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 Low pressure	in. (mm)	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	3/4 (19.05) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed
Optional parts	Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (208-230V)

### PURY-P TSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P336TSNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted
Power source				
Cooling capacity (Nominal)	*1 BTU / h		336,000	
	*1 kW		98.5	
	Power input (208-230)	kW	33.76	
	Current input (Rated)	A	104.1-94.1	
		BTU / h	320,000	
		kW	93.8	
	Power input (208-230)	kW	32.58	29.93
	Current input (208-230)	A	100.4-90.8	92.3-83.4
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	
Heating capacity (Nominal)	*2 BTU / h		378,000	
	*2 kW		110.8	
	Power input (208-230)	kW	33.66	
	Current input (Rated)	A	103.8-93.8	
		BTU / h	361,000	
		kW	105.8	
	Power input (208-230)	kW	31.39	30.94
	Current input (208-230)	A	96.8-87.5	95.4-86.2
Temp. range of heating	Indoor *3 Outdoor	D.B. W.B.	59~81°F (15~27°C) -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 pressure level (measured in anechoic room)	*4 dB <A>		65.5/69.5	
Sound power level (measured in anechoic room)	*4 dB <A>		84.0/88.5	
Refrigerant piping diameter	High pressure Low pressure	in. (mm)	1-1/8 (28.58) Brazed 1-5/8 (41.28) Brazed	

#### Set Model

Model	PURY-P168TNU-A (-BS)			PURY-P168TNU-A (-BS)
Minimum Circuit Ampacity	A	61-57		61-57
Maximum Overcurrent Protection	A	100-90		100-90
FAN	Type x Quantity	Propeller fan x 2		
	Airflow rate	cfm	14,850	14,850
		m³ / min	420	420
		L / s	7,000	7,000
	Control, Driving mechanism	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		
	Starting method	Inverter		
	Motor output	kW	12.2	12.2
	Case heater	kW	-	-
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type)		Pre-coated galvanized steel sheet (+powder coating for -BS type)
		<MUNSELL 5Y 8/1>		<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 Inverter circuit (COMP/FAN)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-heat protection, Over-current protection	
	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 Low pressure	in. (mm)	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (460V)

### PURY-P YNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P72YNU-A (-BS)		PURY-P96YNU-A (-BS)		PURY-P120YNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted		Non-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 (460)	kW	4.62	6.50		8.82		
	Current input (460)	A	6.4	9.0		12.3		
		BTU / h	69,000	92,000		114,000		
		kW	20.2	27.0		33.4		
	Power input (460)	kW	4.17	4.38	5.80	6.23	8.04	
	Current input (460)	A	5.8	6.1	8.0	8.6	11.2	
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)	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)	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 (460)	kW	5.66	7.58		10.07		
	Current input (460)	A	7.8	10.5		14.0		
		BTU / h	76,000	103,000		129,000		
		kW	22.3	30.2		37.8		
	Power input (460)	kW	5.12	5.36	6.93	7.10	9.01	
	Current input (460)	A	7.1	7.4	9.6	9.9	12.5	
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)	59~81°F (15~27°C)	59~81°F (15~27°C)	
*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)	-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 pressure level (measured in anechoic room)	*4 dB <A>	56.5/58.0		58.5/60.0		60.0/62.0		
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 Amicity	A	11		15		18		
Maximum Overcurrent Protection	A	15		20		25		
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		
	m³ / 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)		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	-		-		-		
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>		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-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 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		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-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 301, 306S-G, CMY-R302, 303, 304, 305S-G1 BC controller: CMB-P104, 106, 108, 1012, 1016NU-J1 Main BC controller: CMB-P108, 1012, 1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104, 108NU-KB1	

**Notes:**

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (460V)

### PURY-P YNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P144YNU-A (-BS)		PURY-P168YNU-A (-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	11.74	14.99	
(460)	Current input	A	16.3	20.9	
	BTU / h	137,000		161,000	
	kW	40.2		47.2	
(460)	Power input	kW	10.60	13.96	13.79
	Current input	A	14.7	15.5	19.2
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	160,000		188,000	
	*2 kW	46.9		55.1	
	Power input	kW	12.49	15.16	
(460)	Current input	A	17.4	21.1	
	BTU / h	152,000		179,000	
	kW	44.5		52.5	
(460)	Power input	kW	11.14	13.32	14.77
	Current input	A	15.5	16.7	20.5
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	
	*3 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 pressure level (measured in anechoic room)	*4 dB <A>	65.0/65.5		62.5/66.5	
Sound power level (measured in anechoic room)	*4 dB <A>	85.5/85.5		81.0/85.5	
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	20		28	
Maximum Overcurrent Protection	A	30		40	
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2	
	Airflow rate cfm	9,550		14,850	
	m³ / 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	-		-	
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-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)	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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (460V)

### PURY-P YSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P192YSNU-A (-BS)		PURY-P216YSNU-A (-BS)		PURY-P240YSNU-A (-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 (460)	kW	14.44		16.85		20.08	
	Current input (460)	A	20.1		23.4		28.0	
		BTU / h	183,000		206,000		228,000	
		kW	53.6		60.4		66.8	
	Power input (460)	kW	12.93	13.80	15.20	15.99	18.72	
	Current input (460)	A	18.0	19.2	21.1	22.2	26.1	
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (460)	kW	16.40		19.05		22.45	
	Current input (460)	A	22.8		26.5		31.3	
		BTU / h	205,000		232,000		258,000	
		kW	60.1		68.0		75.6	
	Power input (460)	kW	14.96	15.40	17.23	18.04	20.64	
	Current input (460)	A	20.8	21.4	24.0	25.1	28.7	
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°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 pressure level (measured in anechoic room)	*4 dB <A>	61.5/63.0		62.5/64.5		63.0/65.0		
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 Low 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)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed	
Set Model								
Model	PURY-P96YNU-A (-BS)	PURY-P96YNU-A (-BS)	PURY-P120YNU-A (-BS)	PURY-P96YNU-A (-BS)	PURY-P120YNU-A (-BS)	PURY-P120YNU-A (-BS)	PURY-P120YNU-A (-BS)	
Minimum Circuit Ampacity	A	15	15	18	15	18	18	
Maximum Overcurrent Protection	A	20	20	25	20	25	25	
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	7,400	8,300	
		m³ / min	210	210	235	210	235	
		L / s	3,500	3,500	3,920	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	0.46+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	7.8	5.6	7.8	
	Case heater	kW	-	-	-	-	-	
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>		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-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 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)	633 (287)	611 (277)	633 (287)	633 (287)	
Heat exchanger	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	3/4 (19.05) Brazed 7/8 (22.2) Brazed	3/4 (19.05) Brazed 7/8 (22.2) Brazed	3/4 (19.05) Brazed 1-1/8 (28.58) Brazed	3/4 (19.05) Brazed 7/8 (22.2) Brazed	3/4 (19.05) Brazed 1-1/8 (28.58) Brazed	
Optional parts	Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1		Outdoor Twinning kit: CMY-R200NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1	

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (460V)

### PURY-P YSNU-A(-BS)



#### ► Specifications

Outdoor Model	PURY-P264YSNU-A (-BS)		PURY-P288YSNU-A (-BS)		PURY-P312YSNU-A (-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 (460)	kW	23.14	26.47		29.80
	Current input (460)	A	32.2	36.9		41.5
		BTU / h	251,000	274,000		297,000
		kW	73.6	80.3		87.0
	Power input (460)	kW	21.43	24.33	24.68	28.09
	Current input (460)	A	29.8	33.9	34.4	39.1
			29.8	33.9		37.7
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°C) 23~126°F (-5~52°C)	59~75°F (15~24°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 (460)	kW	24.99	27.65		30.75
	Current input (460)	A	34.8	38.5		42.8
		BTU / h	281,000	304,000		334,000
		kW	82.4	89.1		97.9
	Power input (460)	kW	22.89	25.22	25.98	28.34
	Current input (460)	A	31.9	32.6	36.2	39.5
			31.9	35.1		39.8
Temp. range of heating	Indoor *3 Outdoor	D.B. W.B.	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°C) -13~60°F (-25~15.5°C)	59~81°F (15~27°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 pressure level (measured in anechoic room)	*4 dB <A>	66.5/67.5		68.0/68.5		67.0/69.0
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-P144YNU-A (-BS)	PURY-P120YNU-A (-BS)	PURY-P144YNU-A (-BS)	PURY-P144YNU-A (-BS)	PURY-P168YNU-A (-BS)	PURY-P144YNU-A (-BS)
Minimum Circuit Ampacity	A	20	18	20	20	20
Maximum Overcurrent Protection	A	30	25	30	30	30
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	9,550 cfm	8,300	9,550	9,550	14,850
		m³ / min	270	235	270	420
		L / s	4,500	3,920	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	0.92+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)
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
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.9	7.8	9.9	12.2
	Case heater	kW	-	-	-	-
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 68-15/16 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 1,750 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 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)
Net weight	lbs (kg)	682 (309)	633 (287)	682 (309)	774 (351)	682 (309)
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)	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
	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
Optional parts	Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1, CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1		Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-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-JA1, CMB-P1016NU-KA1	Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		Main BC controller: CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1		Sub BC controller: CMB-P104,108NU-KB1
	Sub BC controller: CMB-P104,108NU-KB1	Sub BC controller: CMB-P104,108NU-KB1		Sub BC controller: CMB-P104,108NU-KB1		Sub BC controller: CMB-P104,108NU-KB1

#### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series Standard (460V)

### PURY-P YSNU-A(-BS)



#### ► Specifications

Outdoor Model		PURY-P336YSNU-A (-BS)		
Indoor Model		Non-Ducted		Ducted
Power source				
Cooling capacity (Nominal)	*1 BTU / h		336,000	
	*1 kW		98.5	
	Power input (460)	kW	33.76	
	Current input (460)	A	47.0	
		BTU / h	320,000	
		kW	93.8	
		Power input (460)	32.58	29.93
		Current input (460)	A	45.4
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~126°F (-5~52°C)	41.7
Heating capacity (Nominal)	*2 BTU / h		378,000	
	*2 kW		110.8	
	Power input (460)	kW	33.66	
	Current input (460)	A	46.9	
		BTU / h	361,000	
		kW	105.8	
		Power input (460)	31.39	30.94
		Current input (460)	A	43.7
Temp. range of heating	Indoor *3 Outdoor	D.B. W.B.	59~81°F (15~27°C) -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 pressure level (measured in anechoic room)	*4 dB <A>		65.5/69.5	
Sound power level (measured in anechoic room)	*4 dB <A>		84.0/88.5	
Refrigerant piping diameter	High pressure Low pressure	in. (mm)	1-1/8 (28.58) Brazed 1-5/8 (41.28) Brazed	

#### Set Model

Model		PURY-P168YNU-A (-BS)	PURY-P168YNU-A (-BS)
Minimum Circuit Ampacity	A	28	28
Maximum Overcurrent Protection	A	40	40
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850
		m³ / min	420
		L / s	7,000
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	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
	Case heater	kW	-
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-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)	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
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed
Optional parts			Outdoor Twinning kit: CMY-R300NCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-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-JA1,CMB-P1016NU-KA1 Sub BC controller: CMB-P104,108NU-KB1

#### Notes:

\*1,\*2 Heating and Cooling 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 R2-Series (575V) PURY-P ZKMU-A(-BS)



## ► Specifications

Outdoor Model		PURY-P72ZKMU-A (-BS)		PURY-P96ZKMU-A (-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	72,000		96,000	
	*1 kW	21.1		28.1	
	Power input (575)	kW	5.11	7.06	
	Current input (Rated)	A	5.7	7.8	
	BTU/h	69,000		92,000	
	kW	20.2		27.0	
	Power input (575)	kW	4.84	6.77	7.05
	Current input (575)	A	5.3	7.5	7.8
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)	59~75°F (15~24°C) 23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2 BTU/h	80,000		108,000	
	*2 kW	23.4		31.7	
	Power input (575)	kW	5.89	8.85	
	Current input (Rated)	A	6.5	9.8	
	BTU/h	76,000		103,000	
	kW	22.3		30.2	
	Power input (575)	kW	5.86	8.28	8.10
	Current input (575)	A	6.5	9.2	9.0
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	
Indoor unit connectable	Total capacity Model/Quantity	50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
Sound pressure level (measured in anechoic room)	dB <A>	58.0		58.0	
Refrigerant	High pressure piping diameter	in. (mm)	5/8 (15.88) Brazed	3/4 (19.05) Brazed	
	Low pressure piping diameter	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	
Minimum Circuit Ampacity	A	11		15	
Maximum Overcurrent Protection	A	15		20	
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1	
	Airflow rate	cfm m³/min L/s	6,550 185 3,080	6,550 185 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	-		
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. mm	64-31/32 x 36-1/4 x 29-5/32 1,650 x 920 x 740	64-31/32 x 48-1/16 x 29-5/32 1,650 x 1,220 x 740	64-31/32 x 48-1/16 x 29-5/32 1,650 x 1,220 x 740	
Protection devices	High pressure protection Inverter circuit (COMP./FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	
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 BC controller: CMB-P104,105,106,108,1010,1013,1016NU-G1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1,CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1,CMB-P1016NU-HB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016NU-G1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1,CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1,CMB-P1016NU-HB1		

### Notes:

\*1,\*2 Heating and Cooling 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

## R2-Series (575V)

### PURY-P ZKMU-A(-BS)

#### ► Specifications



Outdoor Model		PURY-P120ZKMU-A (-BS)		PURY-P144ZKMU-A (-BS)	
Indoor Model		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	
	Power input (575)	kW	8.62	11.13	
	Current input (575)	A	9.6	12.4	
(Rated)	BTU/h	114,000		137,000	
	kW	33.4		40.2	
	Power input (575)	kW	7.97	8.31	9.93
	Current input (575)	A	8.8	9.2	11.0
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)	59~75°F (15~24°C)	23~115°F (-5~46°C)
Heating capacity (Nominal)	*2 BTU/h	135,000		160,000	
	*2 kW	39.6		46.9	
	Power input (575)	kW	10.84	12.86	
	Current input (575)	A	12.0	14.3	
(Rated)	BTU/h	129,000		152,000	
	kW	37.8		44.5	
	Power input (575)	kW	10.32	10.40	11.90
	Current input (575)	A	11.5	11.6	13.2
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)	59~81°F (15~27°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~P96/1~36		P04~P96/1~36	
Sound pressure level (measured in anechoic room)	dB <A>	60.0		61.0	
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	
	m³/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.	External static press.	0 in.WG (0 Pa)		0 in.WG (0 Pa)	
	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter	
Compressor	Motor output kW	8.2		9.5	
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.	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 Inverter circuit (COMP/FAN) Fan motor	High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Over-current protection	
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)	772 (350)		772 (350)	
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 BC controller: CMB-P104,105,106,108,1010,1013,1016NU-G1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1,CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1,CMB-P1016NU-HB1		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016NU-G1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1,CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1,CMB-P1016NU-HB1		

**Notes:**

\*1,\*2 Heating and Cooling 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 R2-Series (575V) PURY-P ZSKMU-A(-BS)



## ► Specifications

Outdoor Model		PURY-P168ZSKMU-A (-BS)		PURY-P192ZSKMU-A (-BS)		PURY-P216ZSKMU-A (-BS)	
Indoor Model		Non-Ducted		Ducted		Non-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	
(Rated)	Power input (575)	kW	13.66	15.92		17.74	
	Current input	A	15.2	17.7		19.7	
	BTU/h	161,000		183,000		206,000	
	kW	47.2		53.6		60.4	
(575)	Power input	kW	12.19	13.10	14.61	14.86	16.54
	Current input	A	13.5	14.6	16.2	16.5	18.4
	Indoor	W.B.	59~75°F (15~24°C)	59~75°F (15~24°C)	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)	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	
(Rated)	Power input (575)	kW	15.42	17.79	19.8	20.61	22.9
	Current input	A	17.2				
	BTU/h	179,000		205,000		232,000	
	kW	52.5		60.1		68.0	
(575)	Power input	kW	13.97	14.82	16.58	16.57	19.39
	Current input	A	15.5	16.5	18.4	18.4	21.6
	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	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)	-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 (Connectable branch pipe number is max. 48:)	
Sound pressure level (measured in anechoic room)	dB <A>	61.0		61.0		62.0	
Refrigerant piping diameter	High pressure Low pressure	in. (mm)	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
Set Model							
Model	PURY-P96ZSKMU-A (-BS)	PURY-P72ZSKMU-A (-BS)	PURY-P96ZSKMU-A (-BS)	PURY-P96ZSKMU-A (-BS)	PURY-P120ZSKMU-A (-BS)	PURY-P96ZSKMU-A (-BS)	
Minimum Circuit Ampacity	A	15	11	15	21	15	
Maximum Overcurrent Protection	A	20	15	20	30	20	
FAN	Type x Quantity	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	Propeller fan x 1
	Airflow rate	cfm m³/min L/s	6,550 185 3,080	6,550 185 3,080	6,550 185 3,080	11,300 320 5,330	6,550 185 3,080
	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
Compressor	*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)
	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	6.6	4.7	6.6	8.2	6.6
External finish	Case heater	kW	-	-	-	-	-
	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.	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 48-1/16 x 29-5/32	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 68-29/32 29-5/32
		mm	1,650 x 1,220 x 740	1,650 x 920 x 740	1,650 x 1,220 x 740	1,650 x 1,220 x 740	1,650 x 1,750 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 22 lbs + 12 oz (10.3 kg)	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 26 lbs + 1 oz (11.8 kg)	R410A x 22 lbs + 12 oz (10.3 kg)
Net weight	lbs (kg)	567 (257)	508 (230)	567 (257)	567 (257)	772 (350)	567 (257)
Heat exchanger	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube
Optional parts	Outdoor Twinning kit: CMY-R100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1, CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1, CMB-P1016NU-HB1		Outdoor Twinning kit: CMY-R100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1, CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1, CMB-P1016NU-HB1		Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1, CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1, CMB-P1016NU-HB1		

### Notes:

\*1,\*2 Heating and Cooling 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 R2-Series (575V) **PURY-P ZSKMU-A(-BS)**



## ► Specifications

Outdoor Model		PURY-P240ZSKMU-A (-BS)		PURY-P264ZSKMU-A (-BS)	
		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	
	Current input A	21.8		25.3	
(Rated)	BTU/h	228,000		251,000	
	kW	66.8		73.6	
	Power input kW	17.99	18.33	20.79	21.22
	Current input A	20.0	20.4	23.1	23.6
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 (Nominal)	*2 BTU/h	270,000		295,000	
	*2 kW	79.1		86.5	
(575)	Power input kW	23.55		25.94	
	Current input A	26.2		28.9	
	BTU/h	258,000		281,000	
	kW	75.6		82.4	
(Rated)	Power input kW	21.90	21.97	24.34	24.00
	Current input A	24.4	24.5	27.1	26.7
	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
Temp. range of heating	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 (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>	63.0		63.5	
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-P120ZSKMU-A (-BS)	PURY-P120ZSKMU-A (-BS)	PURY-P144ZSKMU-A (-BS)	PURY-P120ZSKMU-A (-BS)
Minimum Circuit Ampacity	A	21	21	23	21
Maximum Overcurrent Protection	A	30	30	35	30
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
	m³/min	320	320	320	320
	L/s	5,330	5,330	5,330	5,330
Compressor	Control, Driving mechanism	Inverter-control, Brushless DC motor	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+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)
	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
Protection devices	Starting method	Inverter	Inverter	Inverter	Inverter
	Motor output kW	8.2	8.2	9.5	8.2
	Case heater kW	-	-	-	-
	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.	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	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	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)	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
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)	772 (350)	772 (350)	772 (350)	772 (350)
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-Y202S-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016NU-GA1, CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1, CMB-P1016NU-HB1		Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1, CMB-P1016NU-HB1	

### Notes:

\*1,\*2 Heating and Cooling 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 R2-Series (575V) **PURY-P ZSKMU-A(-BS)**



## ► Specifications

Outdoor Model		PURY-P288ZSKMU-A (-BS)	
Indoor Model		Non-Ducted	
Power source			3-phase 3-wire 575 V ±10% 60 Hz
Cooling capacity (Nominal)	*1 BTU/h	288,000	
	*1 kW	84.4	
	Power input (575)	kW	25.23
	Current input (575)	A	28.1
(Rated)	BTU/h	274,000	
	kW	80.3	
	Power input (575)	kW	23.33
	Current input (575)	A	26.0
Temp. range of cooling	Indoor Outdoor	W.B. D.B.	59~75°F (15~24°C) 23~115°F (-5~46°C)
Heating capacity (Nominal)	*2 BTU/h	323,000	
	*2 kW	94.7	
	Power input (575)	kW	28.13
	Current input (575)	A	31.3
(Rated)	BTU/h	304,000	
	kW	89.1	
	Power input (575)	kW	26.48
	Current input (575)	A	29.5
Temp. range of heating	Indoor Outdoor	D.B. W.B.	59~81°F (15~27°C) -4~60°F (-20~15.5°C)
Indoor unit connectable	Total capacity Model/Quantity	50~150% of outdoor unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	64.0	
Refrigerant piping diameter	High pressure Low pressure	in. (mm)	1-1/8 (28.58) Brazed 1-3/8 (34.93) Brazed
Set Model			
Model		PURY-P144ZSKMU-A (-BS)	PURY-P144ZSKMU-A (-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 m³/min L/s	11,300 320 5,330
	Control, Driving mechanism	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	
	Starting method	Inverter	Inverter
	Motor output	kW	9.5
	Case heater	kW	-
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
External dimension H x W x D		in. mm	64-31/32 x 68-29/32 x 29-5/32 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-current protection	
	Fan motor	-	
Refrigerant	Type x original charge	R410A x 26 lbs + 1 oz (11.8 kg)	
Net weight	lbs (kg)	772 (350)	
Heat exchanger		Salt-resistant cross fin & copper tube	
Optional parts		Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-Y202S-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1016NU-HA1 Sub BC controller: CMB-P104,108NU-GB1, CMB-P1016NU-HB1	

### Notes:

\*1,\*2 Heating and Cooling 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.

# S-Series

Heating or Cooling Heat pump

- Optional parts

Specifications H2i **PUMY-HP NKMU1**  
Standard **PUMY-P NKMU3(-BS)**



H2i Standard

## Heating/cooling 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 heating to cooling, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes 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 and P60 models

- Small offices



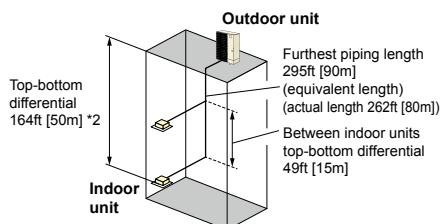
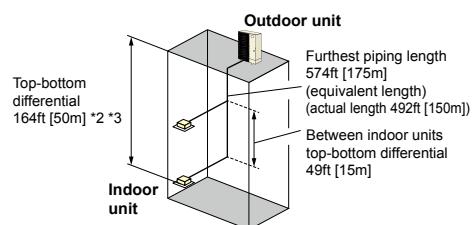
- System Pipe Lengths

[HP36, HP48NKMU1, P36, P48NKMU3]

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] *
Indoor/indoor	49 [15]

[P60NKMU3]

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 NKMU1, PUMY-P NKMU3(-BS)
Header	CMY-Y64-G-E	For PUMY-HP NKMU1, PUMY-P NKMU3(-BS)
	CMY-Y68-G-E	For PUMY-HP NKMU1, PUMY-P NKMU3(-BS)

# OUTDOOR UNIT

## S-Series H2i

### PUMY-HP NKMU1



#### ► Specifications

Outdoor Model	PUMY-HP36NKMU1		PUMY-HP48NKMU1	
Power source	208/230 V AC, 60 Hz		208/230 V AC, 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	36,000	48,000	
	*1 kW	10.6	14.1	
	Power input W	2310	3545	
	Current input A	11.3/10.2	17.3/15.6	
EER	kW / kW	15.5	13.5	
Temp. range of cooling	Indoor W.B.	59 to 75°F [15 to 24°C]	59 to 75°F [15 to 24°C]	
	Outdoor D.B.	23 to 115°F [-5 to 46°C]*3*4	23 to 115°F [-5 to 46°C]*3*4	
Heating capacity (Nominal)	*2 BTU / h	42,000	54,000	
	*2 kW	12.3	15.8	
	Power input W	3020	3880	
	Current input A	14.7/13.3	18.9/17.1	
COP	kW / kW	4.08	4.08	
Temp. range of heating	Indoor D.B.	59 to 81°F [15 to 27°C]	59 to 81°F [15 to 27°C]	
	Outdoor W.B.	-13 to 59°F [-25 to 15°C]	-13 to 59°F [-25 to 15°C]	
Indoor unit connectable	Total capacity	50 to 130% of outdoor unit capacity	50 to 130% of outdoor unit capacity	
	Model / Quantity	P04-P36/11	P04-P54/12	
Sound pressure level (measured in anechoic room)	dB <A>	49/53	51/54	
Refrigerant piping diameter	Liquid pipe mm (in.)	9.52 (3/8)	9.52 (3/8)	
	Gas pipe mm (in.)	15.88 (5/8)	15.88 (5/8)	
FAN	Type x Quantity	Propeller Fan × 2		
	Airflow rate cfm	3,885	3,885	
	m³/min	110	110	
	L/s	1,834	1,834	
	Control, Driving mechanism	DC control	DC control	
	Motor output kW	0.074 + 0.074	0.074 + 0.074	
Compressor	External static press.	0	0	
	Type x Quantity	Scroll hermetic compressor × 1	Scroll hermetic compressor × 1	
	Motor output kW	2.8	3.4	
External finish	Case heater kW	0	0	
		Galvanized Steel Sheet <MUNSELL 3Y 7.8/1.1>	Galvanized Steel Sheet <MUNSELL 3Y 7.8/1.1>	
External dimension H x W x D	in.	52-11/16 × 41-11/32 × 13 (+1)	52-11/16 × 41-11/32 × 13 (+1)	
	mm	1,338 × 1,050 × 330 (+25)	1,338 × 1,050 × 330 (+25)	
Protection devices	High pressure protection	High pressure Switch, High pressure Sensor	High pressure Switch, High pressure Sensor	
	Inverter circuit (COMP/FAN)	Overcurrent detection, Overheat detection (Heat sink thermistor)	Overcurrent detection, Overheat detection (Heat sink thermistor)	
	Compressor	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	
	Fan motor	Overheating, Voltage protection	Overheating, Voltage protection	
Refrigerant	Type x original charge	R410A 10.6 lbs (4.8 kg)	R410A 10.6 lbs (4.8 kg)	
Net weight	lbs (kg)	278 (126)	278 (126)	
Heat exchanger		Cross Fin and Copper tube	Cross Fin and Copper tube	
Optional parts		Joint: CMY-Y62-G-E	Joint: CMY-Y62-G-E	
		Header: CMY-Y64/68-G-E	Header: CMY-Y64/68-G-E	

#### Notes:

\*1, \*2 Nominal conditions (subject to ISO 15042)

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

\*3 50 to 115°F (10 to 46°C DB). When connecting PKFY-P06NBMU, PKFY-P08NBMU, PKFY-P04/06/08/12NLNU, PFFY-P06/08/12NEMU, and PFFY-P06/08/12NRNU type indoor unit.

\*4 5 to 115°F (-15 to 46°C DB). When using an optional air protect guide (PAC-SH95AG-E).

However, this condition does not apply to the indoor units listed in \*3.

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

# OUTDOOR UNIT

## S-Series Standard

### PUMY-P NKMU3(-BS)



#### ► Specifications

Outdoor Model	PUMY-P36NKMU3 (-BS)		PUMY-P48NKMU3 (-BS)		PUMY-P60NKMU3 (-BS)	
Power source	208/230 V AC, 60 Hz		208/230 V AC, 60 Hz		208/230 V AC, 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	36,000	48,000	60,000		
	*1 kW	10.6	14.1	17.6		
	Power input W	2310	3545	4390		
	Current input A	11.3/10.2	17.3/15.6	21.3/19.3		
	EER kW / kW	15.5	13.5	13.6		
Temp. range of cooling	Indoor W.B.	59 to 75°F [15 to 24°C]	59 to 75°F [15 to 24°C]	59 to 75°F [15 to 24°C]		
	Outdoor D.B.	23 to 115°F [-5 to 46°C]*3*4	23 to 115°F [-5 to 46°C]*3*4	23 to 115°F [-5 to 46°C]*3*4		
Heating capacity (Nominal)	*2 BTU / h	42,000	54,000	66,000		
	*2 kW	12.3	15.8	19.3		
	Power input W	3020	3880	4640		
	Current input A	14.7/13.3	18.9/17.1	22.6/20.4		
	COP kW / kW	4.08	4.08	4.17		
Temp. range of heating	Indoor D.B.	59 to 81°F [15 to 27°C]	59 to 81°F [15 to 27°C]	59 to 81°F [15 to 27°C]		
	Outdoor W.B.	-13 to 59°F [-25 to 15°C]	-13 to 59°F [-25 to 15°C]	-13 to 59°F [-25 to 15°C]		
Indoor unit connectable	Total capacity	50 to 130% of outdoor unit capacity	50 to 130% of outdoor unit capacity	50 to 130% of outdoor unit capacity		
	Model / Quantity	P04-P36/11	P04-P54/12	P04-P72/12		
Sound pressure level (measured in anechoic room)	dB <A>	49/53	51/54	58/59		
Refrigerant piping diameter	Liquid pipe mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)		
	Gas pipe mm (in.)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)		
FAN	Type x Quantity	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2		
	Airflow rate cfm	3,885	3,885	4,879		
	m³/min	110	110	138		
	L/s	1,834	1,834	2,300		
	Control, Driving mechanism	DC control	DC control	DC control		
	Motor output kW	0.074 + 0.074	0.074 + 0.074	0.2 + 0.2		
	External static press.	0	0	0		
Compressor	Type x Quantity	Scroll hermetic compressor × 1	Scroll hermetic compressor × 1	Scroll hermetic compressor × 1		
	Motor output kW	2.8	3.4	3.9		
	Case heater kW	0	0	0		
External finish		Galvanized Steel Sheet <MUNSELL 3Y 7.8/1.1>	Galvanized Steel Sheet <MUNSELL 3Y 7.8/1.1>	Galvanized Steel Sheet <MUNSELL 3Y 7.8/1.1>		
External dimension H x W x D	in.	52-11/16 × 41-11/32 × 13 (+1)	52-11/16 × 41-11/32 × 13 (+1)	52-11/16 × 41-11/32 × 13 (+1)		
	mm	1,338 × 1,050 × 330 (+25)	1,338 × 1,050 × 330 (+25)	1,338 × 1,050 × 330 (+25)		
Protection devices	High pressure protection	High pressure Switch, High pressure Sensor	High pressure Switch, High pressure Sensor	High pressure Switch, High pressure Sensor		
	Inverter circuit (COMP./FAN)	Overcurrent detection, Overheat detection (Heat sink thermistor)	Overcurrent detection, Overheat detection (Heat sink thermistor)	Overcurrent detection, Overheat detection (Heat sink thermistor)		
	Compressor	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection		
	Fan motor	Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection		
Refrigerant	Type x original charge	R410A 10.6 lbs (4.8 kg)	R410A 10.6 lbs (4.8 kg)	R410A 11.2 lbs (5.1 kg)		
Net weight	lbs (kg)	271 (123)	271 (123)	302 (137)		
Heat exchanger		Cross Fin and Copper tube	Cross Fin and Copper tube	Cross Fin and Copper tube		
Optional parts		Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E		

#### Notes:

\*1, \*2 Nominal conditions (subject to ISO 15042)

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

\*3 50 to 115°F (10 to 46°C DB). When connecting PKFY-P06NBMU, PKFY-P08NBMU, PKFY-P04/06/08/12NLMU, PFFY-P06/08/12NEMU, and PFFY-P06/08/12NRMU type indoor unit.

\*4 5 to 115°F (-15 to 46°C DB). When using an optional air protect guide (PAC-SH95AG-E).

However, this condition does not apply to the indoor units listed in \*3.

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