



# CITY-MULTI® WATER SOURCE UNITS

# What is Water-Cooled?

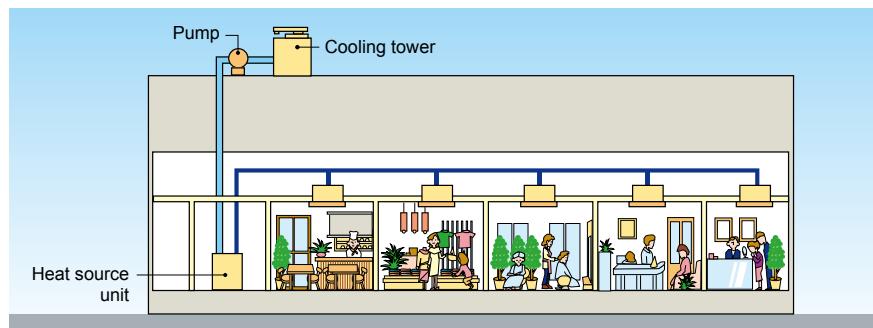
A unique system from Mitsubishi Electric

It is possible now to combine the features of VRF with a water circuit using CITY MULTI WY/WR2. In this case, the heat is discharged to a water source rather than to the outside air.

The advantages of a water cooled system are that the water can be delivered at optimized temperatures and volumes, which allows even greater flexibility and increased COP.



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



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

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

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

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

- Buildings that require year-round cooling

For example,

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

- Installation image



## Double heat recovery (WR2-Series)

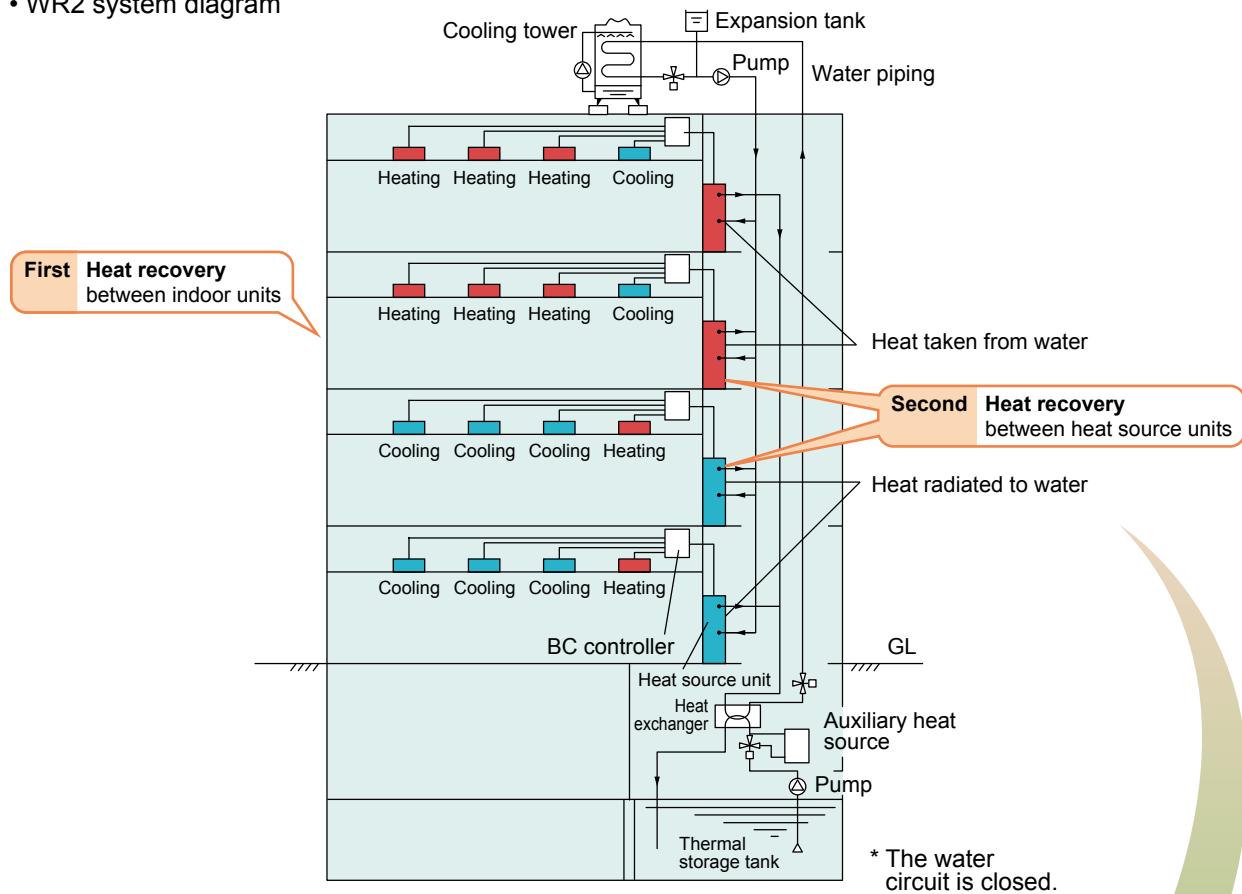
Mitsubishi Electric now offers double heat recovery operation.

The first heat recovery is within the refrigerant system. Heat is recovered between the indoor units to allow simultaneous heating and cooling operation.

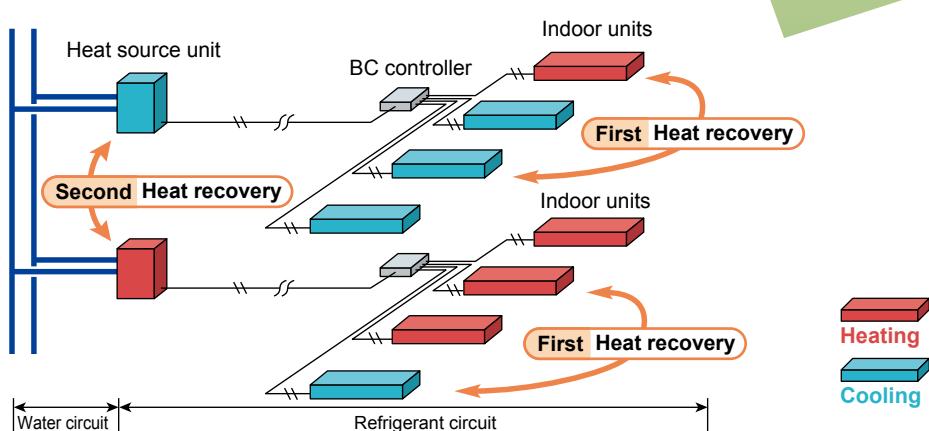
The second heat recovery is within the water loop, where heat is recovered between the PQRY units.

This double heat recovery operation substantially improves energy efficiency and delivers an ideal solution to the requirements of modern office buildings, where some areas require cooling even in winter.

- WR2 system diagram



- Double heat recovery (WR2)

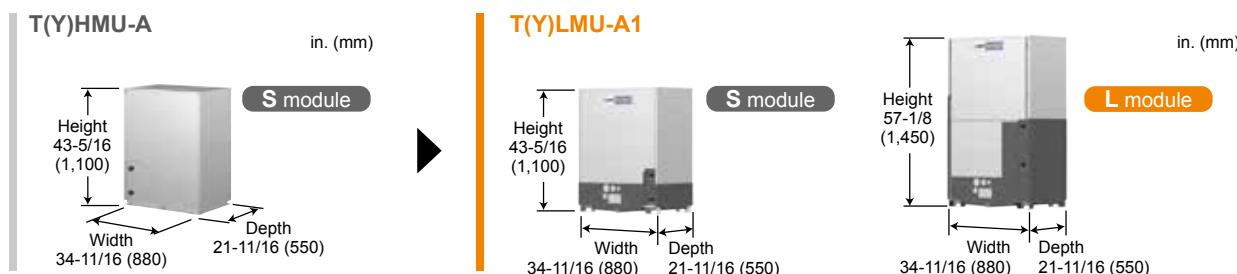


# Water-cooled system

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



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



## <WY-Series>

### Single-module units available up to P240

		P72	P96	P120	P144	P168	P192	P216	P240	P264	P288	P312	P336	P360
PQHY-P T(Y)LMU-A1	Single	S	S	S	L	L	L	L	L					
PQHY-P T(Y)HMU-A	Single	S	S	S										
PQHY-P T(Y)SLMU-A1	Combination				S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L
PQHY-P T(Y)SHMU-A	Combination				S+S	S+S	S+S	S+S	S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S

## <WR2-Series>

### Single-module units available up to P240

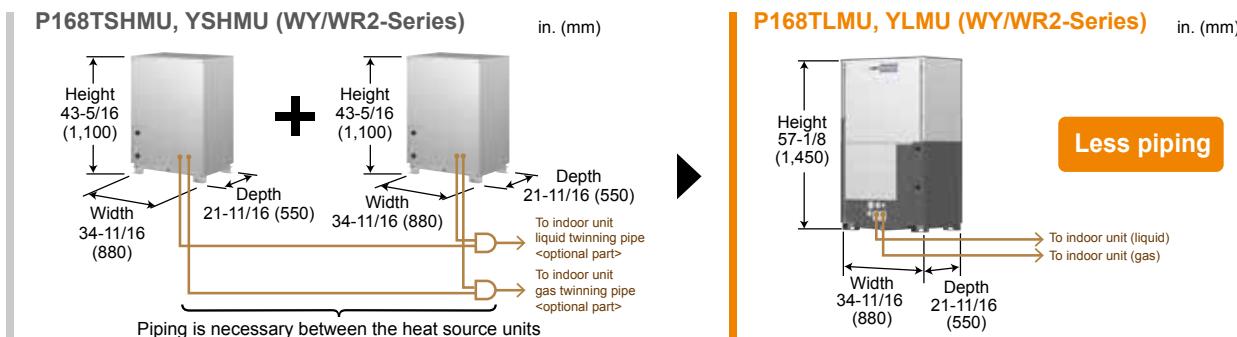
### Large capacities up to P336

		P72	P96	P120	P144	P168	P192	P216	P240	P264	P288	P312	P336
PQRY-P T(Y)LMU-A1	Single	S	S	S	L	L	L	L	L				
PQRY-P T(Y)HMU-A	Single	S	S	S									
PQRY-P T(Y)SLMU-A1	Combination				S+S	S+S	S+S	S+S	S+S	L+L	L+L	L+L	L+L
PQRY-P T(Y)SHMU-A	Combination				S+S	S+S	S+S	S+S	S+S				

## Advantages of single modules in a wide range of capacities

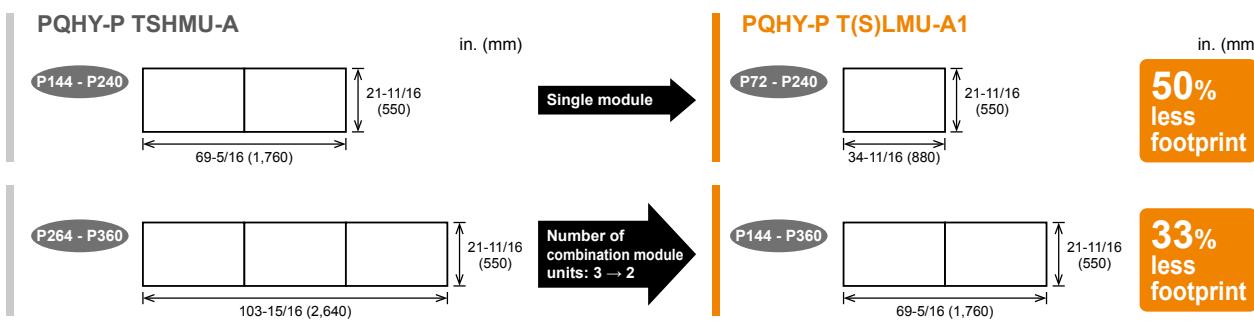
- Less piping

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



- Less footprint

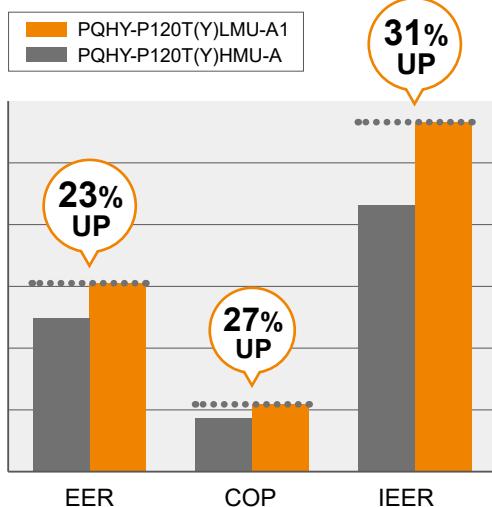
Less footprint by the enhanced lineup of single module units.



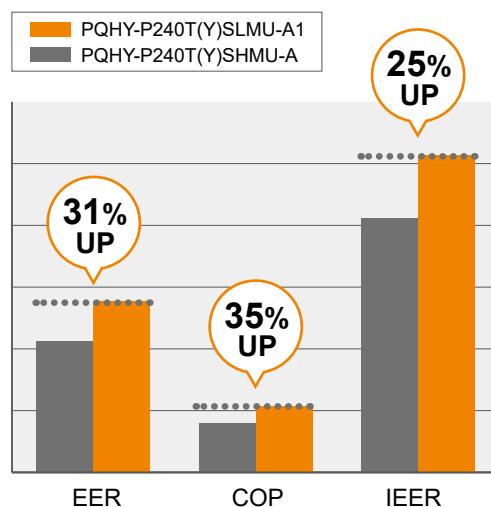
## High energy efficiency

### High EER, COP and IEER compared to conventional models

- Comparisons of single-module P120 units (based on the values registered to AHRI)



- Comparisons of combination-module P240 units (based on the values registered to AHRI)



## Water flow rate control

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

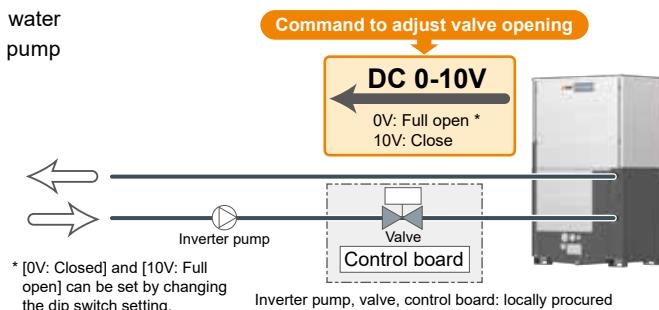
- Control of water flow rate

Control output voltage (0-10V) to adjust valve opening [0V: Full open, 10V: Closed]

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

\*When using "water flow rate control," the pump needs to be controlled by inverter.

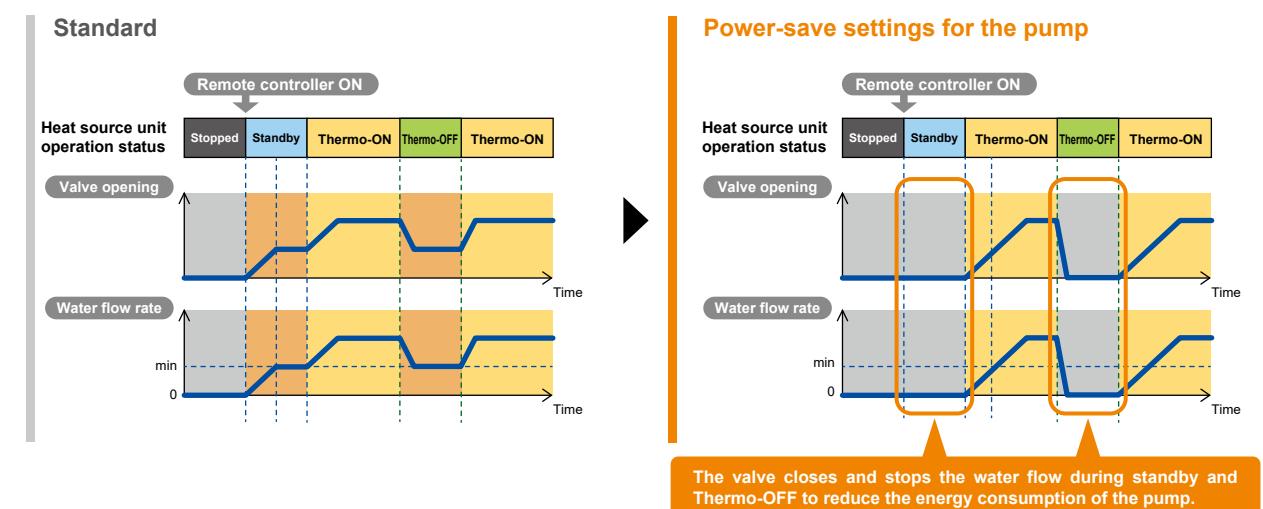
\*Pump interlock is required.



### Power-save function PQHY-P T(S)LMU-A1/Y(S)LMU-A1/Z(S)LMU-A1, PQRY-P T(S)LMU-A1/Y(S)LMU-A1/Z(S)LMU-A1

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

In the new models, the water control valve is closed during standby and Thermo-OFF to reduce the circulating water flow rate and reduce the power consumption of the pump.



# WY-Series

Heating or Cooling Heat pump

- Optional parts

• Specifications 208-230V, 460V PQHY-P T(S)LMU-A1/Y(S)LMU-A1  
575V PQHY-P Z(S)LMU-A1

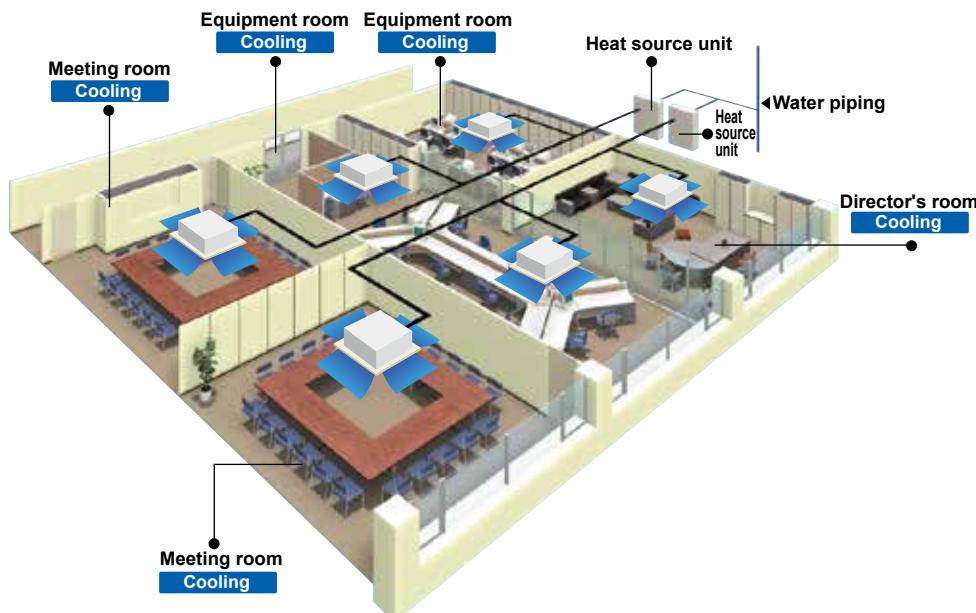


## A water energy source system that allows switching between heating and cooling

The CITY MULTI WY-Series provides all the benefits of the Y-Series using water-cooled heat source units.

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

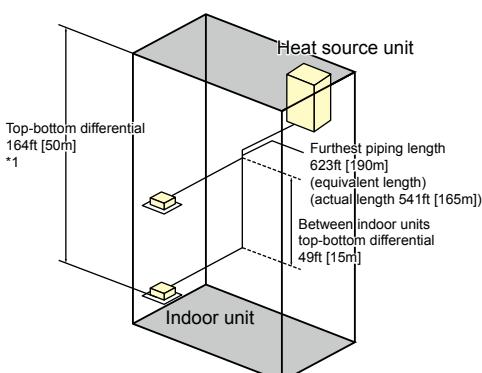
- Installation image (WY-Series)



- System Pipe Lengths

[P72-P360 (WY-Series)]

Refrigerant Piping Lengths	Maximum feet [Meters]
Total length .....	984-1,640 [300-500]
Maximum allowable length .....	541(623equivalent) [165 (190)]
Farthest indoor from first branch .....	131 [40]*2
Vertical differentials between units	Maximum feet [Meters]
Indoor/heat source (heat source higher) .....	164 [50]
Indoor/heat source (heat source lower) .....	131 [40]
Indoor/indoor .....	49 [15]



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

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

## Optional parts

- For WY-Series

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TLMU-A1



## ► Specifications

Heat Source Model		PQHY-P72TLMU-A1		PQHY-P96TLMU-A1		PQHY-P120TLMU-A1	
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	72,000		96,000		120,000	
	*1 kW	21.1		28.1		35.2	
	Power input (208-230)	kW	3.61	5.21		7.51	
	Current input (Rated)	A	11.1-10.0	16.0-14.5		23.1-20.9	
		BTU / h	69,000	92,000		114,000	
		kW	20.2	27.0		33.4	
	Power input (208-230)	kW	3.34	5.19		6.95	7.35
	Current input (208-230)	A	10.3-9.3	14.8-13.4	16.0-14.4	21.4-19.3	22.6-20.5
Temp. range of cooling	Indoor	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	80,000		108,000		135,000	
	*2 kW	23.4		31.7		39.6	
	Power input (208-230)	kW	4.04	5.64		7.09	
	Current input (Rated)	A	12.4-11.2	17.3-15.7		21.8-19.7	
		BTU / h	76,000	103,000		129,000	
		kW	22.3	30.2		37.8	
	Power input (208-230)	kW	3.74	4.48		6.55	5.92
	Current input (208-230)	A	11.5-10.4	16.0-14.5	13.8-12.4	20.2-18.2	18.2-16.5
Temp. range of heating	Indoor	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity	P04~P72/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)	dB <A>	46.0		48.0		54.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)	
	Gas pipe	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Minimum Circuit Ampacity	A		13-12	19-17		29-26	
Maximum Overcurrent Protection	A		20-20	30-25		50-45	
Inlet water	Water flow rate	G / h	1,522	1,522		1,522	
		G / min (gpm)	25.4	25.4		25.4	
		m³ / h	5.76	5.76		5.76	
		L / min	96	96		96	
		cfm	3.4	3.4		3.4	
	Pressure drop	psi	3.48	3.48		3.48	
		kPa	24	24		24	
	Operating volume range	G / h	793 ~ 1,902	793 ~ 1,902		793 ~ 1,902	
		G / min (gpm)	13.2 ~ 31.7	13.2 ~ 31.7		13.2 ~ 31.7	
		m³ / h	3.0 ~ 7.2	3.0 ~ 7.2		3.0 ~ 7.2	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter		Inverter	
	Motor output	kW	4.3	6.0		7.7	
	Case heater	kW	-	-		-	
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	375 (170)		375 (170)		375 (170)	
Heat exchanger	plate type		plate type		plate type		
	Water volume in plate	G	1.32	1.32		1.32	
		I	5.0	5.0		5.0	
	Water pressure Max.	psi	290	290		290	
		MPa	2.0	2.0		2.0	
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TLMU-A1



## ► Specifications

Model	PQHY-P144TLMU-A1		PQHY-P168TLMU-A1		PQHY-P192TLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000
	*1 kW	42.2		49.2		56.3
	Power input (208-230)	kW	8.78	12.05		15.05
	Current input (Rated)	A	27.0-24.4	37.1-33.6		46.4-41.9
		BTU / h	137,000	161,000		183,000
		kW	40.2	47.2		53.6
	Power input (208-230)	kW	8.07	9.98	11.10	11.88
	Current input (208-230)	A	24.8-22.5	30.7-27.8	34.2-30.9	36.6-33.1
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50-113°F (10~45°C)	59~75°F (15~24°C) 50-113°F (10~45°C)	59~75°F (15~24°C) 50-113°F (10~45°C)	59~75°F (15~24°C) 50-113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000
	*2 kW	46.9		55.1		63.0
	Power input (208-230)	kW	8.11	9.86		11.90
	Current input (Rated)	A	25.0-22.6	30.4-27.5		36.7-33.1
		BTU / h	152,000	179,000		205,000
		kW	44.5	52.5		60.1
	Power input (208-230)	kW	7.47	7.90	9.09	9.72
	Current input (208-230)	A	23.0-20.8	24.3-22.0	28.0-25.3	29.9-27.1
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50-113°F (10~45°C)	59~81°F (15~27°C) 50-113°F (10~45°C)	59~81°F (15~27°C) 50-113°F (10~45°C)	59~81°F (15~27°C) 50-113°F (10~45°C)
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity	50~130% of heatsource unit capacity	50~130% of heatsource unit capacity	50~130% of heatsource unit capacity	P04~P96/1~48
	Model / Quantity	P04~P96/1~36	P04~P96/1~42	P04~P96/1~48	P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>	54.0		56.0		58.0
Refrigerant	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	35-32		44-39		54-49
Maximum Overcurrent Protection	A	60-50		70-70		90-80
Inlet water	Water flow rate	G / h	1,902		1,902	1,902
		G / min (gpm)	31.7		31.7	31.7
		m³ / h	7.20		7.20	7.20
		L / min	120		120	120
		cfm	4.2		4.2	4.2
	Pressure drop	psi	6.38		6.38	6.38
		kPa	44		44	44
	Operating volume range	G / h	1,189 ~ 3,054		1,189 ~ 3,054	1,189 ~ 3,054
		G / min (gpm)	19.8 ~ 50.9		19.8 ~ 50.9	19.8 ~ 50.9
		m³ / h	4.5 ~ 11.6		4.5 ~ 11.6	4.5 ~ 11.6
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method	Inverter		Inverter		Inverter
	Motor output	kW	9.5		11.0	12.4
	Case heater	kW	—		—	—
External finish	Galvanized steel sheets					
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16
	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	474 (215)		474 (215)		474 (215)
Heat exchanger	plate type		plate type		plate type	
	Water volume in plate	G	1.32		1.32	1.32
		I	5.0		5.0	5.0
	Water pressure Max.	psi	290		290	290
		MPa	2.0		2.0	2.0
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

### Notes:

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	Indoor	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
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\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TLMU-A1



## ► Specifications

Heat Source Model		PQHY-P216TLMU-A1		PQHY-P240TLMU-A1	
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 (208-230)	kW	19.23		21.14
	Current input (208-230)	A	59.3-53.6		65.1-58.9
	BTU / h	206,000		228,000	
	kW	60.4		66.8	
	Power input (208-230)	kW	17.72	16.10	19.49
	Current input (208-230)	A	54.6-49.4	49.6-44.9	60.1-54.3
					18.74
					57.7-52.2
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000	
	*2 kW	71.2		79.1	
	Power input (208-230)	kW	13.04		15.12
	Current input (208-230)	A	40.2-36.3		46.6-42.1
	BTU / h	232,000		258,000	
	kW	68.0		75.6	
	Power input (208-230)	kW	12.01	12.34	13.93
	Current input (208-230)	A	37.0-33.4	38.0-34.4	42.9-38.8
					14.62
					45.0-40.7
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity
	Model / Quantity		P04~P96/2~50		P04~P96/2~50
Sound pressure level (measured in anechoic room)	dB <A>		58.0		58.0
Refrigerant	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed
Minimum Circuit Ampacity	A		69-63		79-71
Maximum Overcurrent Protection	A		110-110		125-125
Inlet water	Water flow rate	G / h	3,044		3,044
		G / min (gpm)	50.7		50.7
		m³ / h	11.52		11.52
		L / min	192		192
		cfm	6.8		6.8
	Pressure drop	psi	6.53		6.53
		kPa	45		45
	Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804
		G / min (gpm)	26.4 ~ 63.4		26.4 ~ 63.4
		m³ / h	6.0 ~ 14.4		6.0 ~ 14.4
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method		Inverter		Inverter
	Motor output	kW	14.5		16.1
	Case heater	kW	0.045 (240 V)		0.045 (240 V)
External finish			Galvanized steel sheets		Galvanized steel sheets
External dimension H x W x D	in.		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16
	mm		1,450 x 880 x 550		1,450 x 880 x 550
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor		Over-heat protection		Over-heat protection
Refrigerant	Type x original charge		R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)
Net weight	lbs (kg)		552 (250)		552 (250)
Heat exchanger			plate type		plate type
	Water volume in plate	G	2.64		2.64
		I	10.0		10.0
	Water pressure Max.	psi	290		290
		MPa	2.0		2.0
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TSLMU-A1



## ► Specifications

Heat Source Model	PQHY-P144TSLMU-A1		PQHY-P168TSLMU-A1		PQHY-P192TSLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000
	*1 kW	42.2		49.2		56.3
	Power input (208-230)	kW	7.11	9.33		11.30
	Current input (Rated)	A	21.9-19.8	28.7-26.0		34.8-31.5
		BTU / h	137,000	161,000		183,000
		kW	40.2	47.2		53.6
	Power input (208-230)	kW	6.53	7.72	8.58	9.22
	Current input (208-230)	A	20.1-18.2	23.8-21.5	26.4-23.9	28.4-25.7
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50-113°F (10~45°C)	59~75°F (15~24°C) 50-113°F (10~45°C)	59~75°F (15~24°C) 50-113°F (10~45°C)	59~75°F (15~24°C) 50-113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000
	*2 kW	46.9		55.1		63.0
	Power input (208-230)	kW	7.45	9.34		11.02
	Current input (Rated)	A	22.9-20.7	28.8-26.0		33.9-30.7
		BTU / h	152,000	179,000		205,000
		kW	44.5	52.5		60.1
	Power input (208-230)	kW	6.86	7.22	8.60	8.03
	Current input (208-230)	A	21.1-19.1	22.2-20.1	26.5-23.9	24.7-22.3
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50-113°F (10~45°C)	59~81°F (15~27°C) 50-113°F (10~45°C)	59~81°F (15~27°C) 50-113°F (10~45°C)	59~81°F (15~27°C) 50-113°F (10~45°C)
Indoor unit connectable	Total capacity Model / Quantity		50~130% of heatsource unit capacity P04~P96/1~36	50~130% of heatsource unit capacity P04~P96/1~42	50~130% of heatsource unit capacity P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>		49.0	50.0	51.0	
Refrigerant	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	
piping diameter	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	

### Set Model

Model	PQHY-P72TLMU-A1	PQHY-P72TLMU-A1	PQHY-P96TLMU-A1	PQHY-P72TLMU-A1	PQHY-P96TLMU-A1	PQHY-P96TLMU-A1	
Minimum Circuit Ampacity	A	13-12	13-12	19-17	13-12	19-17	
Maximum Overcurrent Protection	A	20-20	20-20	30-25	20-20	30-25	
Inlet water	Water flow rate	G / h	1,522 + 1,522	1,522 + 1,522	1,522 + 1,522	1,522 + 1,522	
		G / min (gpm)	25.4 + 25.4	25.4 + 25.4	25.4 + 25.4	25.4 + 25.4	
		m³ / h	5.76 + 5.76	5.76 + 5.76	5.76 + 5.76	5.76 + 5.76	
		L / min	96 + 96	96 + 96	96 + 96	96 + 96	
		cfm	3.4 + 3.4	3.4 + 3.4	3.4 + 3.4	3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	
		kPa	24	24	24	24	
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	
		G / min (gpm)	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	
		m³ / h	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter		Inverter	
	Motor output	kW	4.3	4.3	6.0	6.0	
	Case heater	kW	-	-	-	-	
External finish	Galvanized steel sheets			Galvanized steel sheets			
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor	Over-heat protection			Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	375 (170)	375 (170)	375 (170)	375 (170)	375 (170)	
Heat exchanger	plate type	plate type	plate type	plate type	plate type	plate type	
	Water volume in plate	G	1.32	1.32	1.32	1.32	
		I	5.0	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	290	
		MPa	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	
	Gas pipe	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G			
	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G			

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TSLMU-A1



#### ► Specifications

Heat Source Model	PQHY-P216TSLMU-A1			PQHY-P240TSLMU-A1		
Indoor Model	Non-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		
Cooling capacity (Nominal)	*1 BTU / h	216,000			240,000	
	*1 kW	63.3			70.3	
	Power input (208-230)	kW	14.03		16.89	
	Current input (Rated)	A	43.2-39.1		52.0-47.1	
	BTU / h (208-230)		206,000		228,000	
	kW	60.4			66.8	
	Power input (208-230)	kW	12.93	13.24	15.57	16.15
	Current input (208-230)	A	39.8-36.0	40.8-36.9	48.0-43.4	49.8-45.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000			270,000	
	*2 kW	71.2			79.1	
	Power input (208-230)	kW	12.88		14.58	
	Current input (Rated)	A	39.7-35.9		44.9-40.6	
	BTU / h (208-230)		232,000		258,000	
	kW	68.0			75.6	
	Power input (208-230)	kW	11.88	10.35	13.45	12.02
	Current input (208-230)	A	36.6-33.1	31.9-28.8	41.4-37.5	37.0-33.5
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		55.0		57.0	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	5/8 (15.88) Brazed 1-1/8 (28.58) Brazed		5/8 (15.88) Brazed 1-1/8 (28.58) Brazed	

#### Set Model

Model	PQHY-P120TSLMU-A1	PQHY-P96TSLMU-A1	PQHY-P120TSLMU-A1	PQHY-P120TSLMU-A1
Minimum Circuit Ampacity	A	29-26	19-17	29-26
Maximum Overcurrent Protection	A	50-45	30-25	50-45
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4
	Pressure drop	psi kPa	3.48 24	3.48 24
	Operating volume range	G / h G/min (gpm) m³ / h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	7.7	7.7
	Case heater	kW	-	-
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D	in. mm	43-5/16 x 34-11/16 x 21-11/16 1,100 x 880 x 550	43-5/16 x 34-11/16 x 21-11/16 1,100 x 880 x 550	43-5/16 x 34-11/16 x 21-11/16 1,100 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	375 (170)	375 (170)	375 (170)
Heat exchanger		plate type	plate type	plate type
	Water volume in plate	G l	1.32 5.0	1.32 5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	1/2 (12.7) Brazed 7/8 (22.2) Brazed	1/2 (12.7) Brazed 7/8 (22.2) Brazed
Optional parts		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		
		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

#### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TSLMU-A1



## ► Specifications

Heat Source Model	PQHY-P288TSLMU-A1			PQHY-P312TSLMU-A1		
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	288,000			312,000	
	*1 kW	84.4			91.4	
	Power input (208-230)	kW	20.42		23.41	
	Current input (Rated)	A	62.9-56.9		72.1-65.2	
	BTU / h (208-230)		275,000		297,000	
	kW	80.6			87.0	
	Power input (208-230)	kW	18.82	21.43	21.59	23.67
	Current input (208-230)	A	58.0-52.4	66.1-59.7	66.5-60.2	73.0-66.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	323,000			350,000	
	*2 kW	94.7			102.6	
	Power input (208-230)	kW	17.50		19.11	
	Current input (Rated)	A	53.9-48.8		58.9-53.3	
	BTU / h (208-230)		308,000		334,000	
	kW	90.3			97.9	
	Power input (208-230)	kW	16.13	16.05	17.62	17.96
	Current input (208-230)	A	49.7-44.9	49.5-44.7	54.3-49.1	55.3-50.0
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		57.0		58.0	
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	PQHY-P144TLMU-A1	PQHY-P144TLMU-A1	PQHY-P168TLMU-A1	PQHY-P144TLMU-A1	
Minimum Circuit Ampacity	A	35-32	35-32	44-39	
Maximum Overcurrent Protection	A	60-50	60-50	70-70	
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	
	Pressure drop	psi kPa	6.38 44	6.38 44	6.38 44
	Operating volume range	G / h G/min (gpm) m³ / h	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1			
	Starting method	Inverter	Inverter	Inverter	
	Motor output	kW	9.5	9.5	
	Case heater	kW	-	-	
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit	Over-heat protection, Over-current protection			
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)	474 (215)	474 (215)	474 (215)	
Heat exchanger		plate type	plate type	plate type	
	Water volume in plate	G l	1.32 5.0	1.32 5.0	
	Water pressure Max.	psi MPa	290 2.0	290 2.0	
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	
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			
		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (208-230V)

### PQHY-P TSLMU-A1



## ► Specifications

Heat Source Model	PQHY-P336TSLMU-A1			PQHY-P360TSLMU-A1		
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	336,000			360,000	
	*1 kW	98.5			105.5	
	Power input (208-230)	kW	26.84		29.43	
	Current input (Rated)	A	82.7-74.8		90.7-82.0	
	BTU / h (208-230)		320,000		342,000	
	kW	93.8			100.2	
	Power input (208-230)	kW	24.76	25.85	27.17	27.41
	Current input (208-230)	A	76.3-69.0	79.7-72.0	83.7-75.7	84.5-76.4
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	378,000			405,000	
	*2 kW	110.8			118.7	
	Power input (208-230)	kW	20.77		22.85	
	Current input (Rated)	A	64.0-57.9		70.4-63.7	
	BTU / h (208-230)		361,000		387,000	
	kW	105.8			113.4	
	Power input (208-230)	kW	19.16	20.05	21.09	21.70
	Current input (208-230)	A	59.0-53.4	61.8-55.9	65.0-58.8	66.9-60.5
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		59.0		60.0	
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	PQHY-P168TLMU-A1	PQHY-P168TLMU-A1	PQHY-P192TLMU-A1	PQHY-P168TLMU-A1
Minimum Circuit Ampacity	A	44-39	44-39	54-49
Maximum Overcurrent Protection	A	70-70	70-70	90-80
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2
	Pressure drop	psi kPa	6.38 44	6.38 44
	Operating volume range	G / h G/min (gpm) m³ / h	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	11.0	12.4
	Case heater	kW	-	-
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	474 (215)	474 (215)	474 (215)
Heat exchanger		plate type	plate type	plate type
	Water volume in plate	G l	1.32 5.0	1.32 5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	5/8 (15.88) Brazed 1-1/8 (28.58) Brazed	5/8 (15.88) Brazed 1-1/8 (28.58) Brazed
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		
		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YLMU-A1



## ► Specifications

Heat Source Model		PQHY-P72YLMU-A1	PQHY-P96YLMU-A1	PQHY-P120YLMU-A1
Indoor Model		Non-Ducted Ducted	Non-Ducted Ducted	Non-Ducted Ducted
Power source		3-phase 3-wire 460 V ±10% 60 Hz	3-phase 3-wire 460 V ±10% 60 Hz	3-phase 3-wire 460 V ±10% 60 Hz
Cooling capacity (Nominal)	*1 BTU / h	72,000	96,000	120,000
	*1 kW	21.1	28.1	35.2
(460)	Power input kW	3.61	5.21	7.51
	Current input A	5.0	7.2	10.4
(Rated)	BTU / h	69,000	92,000	114,000
	kW	20.2	27.0	33.4
(460)	Power input kW	3.34	5.19	6.95
	Current input A	4.6	7.2	9.6
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)	59~75°F (15~24°C)	59~75°F (15~24°C)
	Inlet water °F	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	80,000	108,000	135,000
	*2 kW	23.4	31.7	39.6
(460)	Power input kW	4.04	5.64	7.09
	Current input A	5.6	7.8	9.8
(Rated)	BTU / h	76,000	103,000	129,000
	kW	22.3	30.2	37.8
(460)	Power input kW	3.74	4.48	6.55
	Current input A	5.2	6.2	9.1
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	59~81°F (15~27°C)
	Inlet water °F	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model / Quantity	50~130% of heatsource unit capacity P04~P72/1~18	50~130% of heatsource unit capacity P04~P96/1~24	50~130% of heatsource unit capacity P04~P96/1~30
Sound pressure level (measured in anechoic room)	dB <A>	46.0	48.0	54.0
Refrigerant piping diameter	Liquid pipe in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)
	Gas pipe in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Minimum Circuit Ampacity	A	6	9	13
Maximum Overcurrent Protection	A	15	15	20
Inlet water	Water flow rate G / h	1,522	1,522	1,522
	G / min (gpm)	25.4	25.4	25.4
	m³ / h	5.76	5.76	5.76
	L / min	96	96	96
	cfm	3.4	3.4	3.4
	Pressure drop psi	3.48	3.48	3.48
	kPa	24	24	24
Operating volume range	G / h	793 ~ 1,902	793 ~ 1,902	793 ~ 1,902
	G / min (gpm)	13.2 ~ 31.7	13.2 ~ 31.7	13.2 ~ 31.7
	m³ / h	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method	Inverter	Inverter	Inverter
	Motor output kW	4.3	6.0	7.7
	Case heater kW	-	-	-
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	400 (181)	400 (181)	400 (181)
Heat exchanger		plate type	plate type	plate type
	Water volume in plate	G 1.32	1.32	1.32
	Water pressure Max.	l 5.0	5.0	5.0
	psi	290	290	290
	MPa	2.0	2.0	2.0
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G	joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YLMU-A1



## ► Specifications

Model	PQHY-P144YLMU-A1		PQHY-P168YLMU-A1		PQHY-P192YLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000
	*1 kW	42.2		49.2		56.3
	Power input (460)	kW	8.78	12.05		15.05
	Current input (460)	A	12.2	16.8		20.9
	BTU / h (Rated)	137,000		161,000		183,000
	kW	40.2		47.2		53.6
	Power input (460)	kW	8.07	11.10	13.87	14.19
	Current input (460)	A	11.2	13.9	15.4	19.3
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000
	*2 kW	46.9		55.1		63.0
	Power input (460)	kW	8.11	9.86		11.90
	Current input (460)	A	11.3	13.7		16.5
	BTU / h (Rated)	152,000		179,000		205,000
	kW	44.5		52.5		60.1
	Power input (460)	kW	7.47	9.09	10.97	11.56
	Current input (460)	A	10.4	11.0	12.6	15.2
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~130% of heatsource unit capacity P04~P96/1~36	50~130% of heatsource unit capacity P04~P96/1~42	50~130% of heatsource unit capacity P04~P96/1~48		
Sound pressure level (measured in anechoic room)	dB <A>	54.0		56.0		58.0
Refrigerant	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	16	20	25		
Maximum Overcurrent Protection	A	25	35	40		
Inlet water	Water flow rate	G / h G / min m³ / h L / min cfm	1,902 31.7 7.20 120 4.2	1,902 31.7 7.20 120 4.2	1,902 31.7 7.20 120 4.2	
	Pressure drop	psi kPa	6.38 44	6.38 44	6.38 44	
	Operating volume range	G / h G / min (gpm) m³ / h	1,189 ~ 3,054 19.8 ~ 50.9 4.5 ~ 11.6	1,189 ~ 3,054 19.8 ~ 50.9 4.5 ~ 11.6	1,189 ~ 3,054 19.8 ~ 50.9 4.5 ~ 11.6	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method	Inverter		Inverter		Inverter
	Motor output	kW	9.5	11.0		12.4
	Case heater	kW	—	—	—	—
External finish	Galvanized steel sheets					
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	501 (227)		501 (227)		501 (227)
Heat exchanger	plate type		plate type		plate type	
	Water volume in plate	G	1.32	1.32	1.32	
		I	5.0	5.0	5.0	
	Water pressure Max.	psi MPa	290 2.0	290 2.0	290 2.0	
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YLMU-A1



#### ► Specifications

Heat Source Model		PQHY-P216YLMU-A1		PQHY-P240YLMU-A1	
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	216,000		240,000	
	*1 kW	63.3		70.3	
(460)	Power input	19.23		21.14	
	Current input	26.8		29.4	
(Rated)	BTU / h	206,000		228,000	
	kW	60.4		66.8	
	Power input	17.72	16.10	19.49	18.74
	Current input	24.7	22.4	27.1	26.1
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000	
	*2 kW	71.2		79.1	
(460)	Power input	13.04		15.12	
	Current input	18.1		21.0	
(Rated)	BTU / h	232,000		258,000	
	kW	68.0		75.6	
	Power input	12.01	12.34	13.93	14.62
	Current input	16.7	17.2	19.4	20.3
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
Sound pressure level (measured in anechoic room)		dB <A>		58.0	
Refrigerant	Liquid pipe	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity	A		31	36	
Maximum Overcurrent Protection	A		50	60	
Inlet water	Water flow rate	G / h	3,044	3,044	
		G / min (gpm)	50.7	50.7	
		m³ / h	11.52	11.52	
		L / min	192	192	
		cfm	6.8	6.8	
	Pressure drop	psi	6.53	6.53	
		kPa	45	45	
	Operating volume range	G / h	1,585 ~ 3,804	1,585 ~ 3,804	
		G / min (gpm)	26.4 ~ 63.4	26.4 ~ 63.4	
		m³ / h	6.0 ~ 14.4	6.0 ~ 14.4	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter	
	Motor output	kW	14.5	16.1	
	Case heater	kW	0.045 (240 V)	0.045 (240 V)	
External finish	Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550		1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Compressor	Over-heat protection		Over-heat protection	
	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight	lbs (kg)	567 (257)		567 (257)	
Heat exchanger	plate type		plate type		
	Water volume in plate	G	2.64	2.64	
		I	10.0	10.0	
	Water pressure Max.	psi MPa	290 2.0	290 2.0	
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

#### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YSLMU-A1



#### ► Specifications

Heat Source Model	PQHY-P144YSLMU-A1		PQHY-P168YSLMU-A1		PQHY-P192YSLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000
	*1 kW	42.2		49.2		56.3
	Power input (460)	kW	7.11	9.33		11.30
	Current input (460)	A	9.9	13.0		15.7
	BTU / h (Rated)	137,000		161,000		183,000
	kW	40.2		47.2		53.6
	Power input (460)	kW	6.53	7.72	8.58	9.22
	Current input (460)	A	9.1	10.7	11.9	12.8
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000
	*2 kW	46.9		55.1		63.0
	Power input (460)	kW	7.45	9.34		11.02
	Current input (460)	A	10.3	13.0		15.3
	BTU / h (Rated)	152,000		179,000		205,000
	kW	44.5		52.5		60.1
	Power input (460)	kW	6.86	7.22	8.60	8.03
	Current input (460)	A	9.5	10.0	11.9	11.1
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model / Quantity	50~130% of heatsource unit capacity P04~P96/1~36	50~130% of heatsource unit capacity P04~P96/1~42	50~130% of heatsource unit capacity P04~P96/1~48	50~130% of heatsource unit capacity P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>	49.0		50.0		51.0
Refrigerant	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	

#### Set Model

Model	PQHY-P72YLMU-A1	PQHY-P72YLMU-A1	PQHY-P96YLMU-A1	PQHY-P72YLMU-A1	PQHY-P96YLMU-A1	PQHY-P96YLMU-A1	
Minimum Circuit Ampacity	A	6	6	9	6	9	
Maximum Overcurrent Protection	A	15	15	15	15	15	
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	
	Pressure drop	psi kPa	3.48 24	3.48 24	3.48 24	3.48 24	
	Operating volume range	G / h G/min (gpm) m³ / h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	4.3	4.3	6.0	6.0	
	Case heater	kW	—	—	—	—	
External finish	Galvanized steel sheets						
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	
Heat exchanger	plate type	plate type	plate type	plate type	plate type	plate type	
	Water volume in plate	G I	1.32 5.0	1.32 5.0	1.32 5.0	1.32 5.0	
	Water pressure Max.	psi MPa	290 2.0	290 2.0	290 2.0	290 2.0	
Pipe between unit and distributor	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed 3/4 (19.05) Brazed	3/8 (9.52) Brazed 3/4 (19.05) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	3/8 (9.52) Brazed 7/8 (22.2) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G						
	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G						
	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G						

#### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YSLMU-A1



## ► Specifications

Heat Source Model		PQHY-P216YSLMU-A1		PQHY-P240YSLMU-A1	
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	216,000		240,000	
	*1 kW	63.3		70.3	
(460)	Power input kW	14.03		16.89	
	Current input A	19.5		23.5	
(Rated)	BTU / h	206,000		228,000	
	kW	60.4		66.8	
(460)	Power input kW	12.93	13.24	15.57	16.15
	Current input A	18.0	18.4	21.7	22.5
Temp. range of cooling	Indoor W.B. Inlet water °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000	
	*2 kW	71.2		79.1	
(460)	Power input kW	12.88		14.58	
	Current input A	17.9		20.3	
(Rated)	BTU / h	232,000		258,000	
	kW	68.0		75.6	
(460)	Power input kW	11.88	10.35	13.45	12.02
	Current input A	16.5	14.4	18.7	16.7
Temp. range of heating	Indoor D.B. Inlet water °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>	55.0		57.0	
Refrigerant piping diameter	Liquid pipe in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

### Set Model

Model	PQHY-P120YLMU-A1	PQHY-P96YLMU-A1	PQHY-P120YLMU-A1	PQHY-P120YLMU-A1
Minimum Circuit Ampacity	A	13	9	13
Maximum Overcurrent Protection	A	20	15	20
Inlet water	Water flow rate G / h	1,522 + 1,522		1,522 + 1,522
	G / min (gpm)	25.4 + 25.4		25.4 + 25.4
	m³ / h	5.76 + 5.76		5.76 + 5.76
	L / min	96 + 96		96 + 96
	cfm	3.4 + 3.4		3.4 + 3.4
	Pressure drop psi	3.48	3.48	3.48
	kPa	24	24	24
Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902
	G / min (gpm)	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7
	m³ / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter	Inverter
	Motor output kW	7.7	6.0	7.7
	Case heater kW	—	—	—
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	400 (181)	400 (181)	400 (181)
Heat exchanger		plate type	plate type	plate type
	Water volume in plate	G 1.32	1.32	1.32
		l 5.0	5.0	5.0
	Water pressure Max.	psi 290	290	290
		MPa 2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YSLMU-A1



## ► Specifications

Heat Source Model	PQHY-P288YSLMU-A1			PQHY-P312YSLMU-A1		
Indoor Model	Non-Ducted		Ducted	Non-Ducted		Ducted
Power source	3-phase 3-wire 460 V ±10% 60 Hz			3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	288,000			312,000	
	*1 kW	84.4			91.4	
	Power input (460)	kW	20.42		23.41	
	Current input (460)	A	28.4		32.6	
	BTU / h	275,000			297,000	
	kW	80.6			87.0	
	Power input (460)	kW	18.82	21.43	21.59	23.67
	Current input (460)	A	26.2	29.8	30.1	33.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	323,000			350,000	
	*2 kW	94.7			102.6	
	Power input (460)	kW	17.50		19.11	
	Current input (460)	A	24.4		26.6	
	BTU / h	308,000			334,000	
	kW	90.3			97.9	
	Power input (460)	kW	16.13	16.05	17.62	17.96
	Current input (460)	A	22.4	22.3	24.5	25.0
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		57.0		58.0	
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	PQHY-P144YLMU-A1	PQHY-P144YLMU-A1	PQHY-P168YLMU-A1	PQHY-P144YLMU-A1
Minimum Circuit Ampacity	A	16	16	20
Maximum Overcurrent Protection	A	25	25	35
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,902 + 1,902 317 + 317 7.20 + 7.20 120 + 120 4.2 + 4.2	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2
	Pressure drop	psi kPa	6.38 44	6.38 44
	Operating volume range	G / h G/min (gpm) m³ / h	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5
	Case heater	kW	—	—
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	501 (227)	501 (227)	501 (227)
Heat exchanger		plate type	plate type	plate type
	Water volume in plate	G l	1.32 5.0	1.32 5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0
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
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		
		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (460V)

### PQHY-P YSLMU-A1



## ► Specifications

Heat Source Model		PQHY-P336YSLMU-A1		PQHY-P360YSLMU-A1		
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	336,000		360,000		
	*1 kW	98.5		105.5		
(460)	Power input kW	26.84		29.43		
	Current input A	37.4		41.0		
(Rated)	BTU / h	320,000		342,000		
	kW	93.8		100.2		
(460)	Power input kW	24.76	25.85	27.17	27.41	
	Current input A	34.5	36.0	37.8	38.2	
Temp. range of cooling	Indoor W.B. Inlet water °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	378,000		405,000		
	*2 kW	110.8		118.7		
(460)	Power input kW	20.77		22.85		
	Current input A	28.9		31.8		
(Rated)	BTU / h	361,000		387,000		
	kW	105.8		113.4		
(460)	Power input kW	19.16	20.05	21.09	21.70	
	Current input A	26.7	27.9	29.4	30.2	
Temp. range of heating	Indoor D.B. Inlet water °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)		
Indoor unit connectable	Total capacity Model / Quantity	50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50		
Sound pressure level (measured in anechoic room)	dB <A>	59.0		60.0		
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	PQHY-P168YLMU-A1	PQHY-P168YLMU-A1	PQHY-P192YLMU-A1	PQHY-P168YLMU-A1	PQHY-P168YLMU-A1	
Minimum Circuit Ampacity	A	20	20	25	20	
Maximum Overcurrent Protection	A	35	35	40	35	
Inlet water	Water flow rate G / h	1,902 + 1,902		1,902 + 1,902		
	G / min (gpm)	31.7 + 31.7		31.7 + 31.7		
	m³ / h	7.20 + 7.20		7.20 + 7.20		
	L / min	120 + 120		120 + 120		
	cfm	4.2 + 4.2		4.2 + 4.2		
Pressure drop	psi	6.38	6.38	6.38	6.38	
	kPa	44	44	44	44	
	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		
Operating volume range	G / min (gpm)	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		
	m³ / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter	Inverter	
	Motor output kW	11.0	11.0	12.4	11.0	
	Case heater kW	—	—	—	—	
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D in.		57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
		mm 1,450 x 880 x 550	mm 1,450 x 880 x 550	mm 1,450 x 880 x 550	mm 1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
Refrigerant	Compressor	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)	501 (227)	501 (227)	501 (227)	501 (227)	
Heat exchanger	plate type		plate type		plate type	
	Water volume G	1.32	1.32	1.32	1.32	
	in plate l	5.0	5.0	5.0	5.0	
	Water pressure psi	290	290	290	290	
	Max. MPa	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	Liquid pipe in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	
	Gas pipe in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZLMU-A1



#### ► Specifications

Heat Source Model	PQHY-P72ZLMU-A1		PQHY-P96ZLMU-A1		PQHY-P120ZLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU/h	72,000		96,000		120,000
	*1 kW	21.1		28.1		35.2
	Power input (575)	kW	3.61	5.21	7.51	
	Current input (Rated)	A	4.0	5.8	8.3	
	BTU/h	69,000		92,000		114,000
	kW	20.2		27.0		33.4
	Power input (575)	kW	3.34	5.19	6.95	7.35
	Current input (575)	A	3.7	5.7	7.7	8.2
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	80,000		108,000		135,000
	*2 kW	23.4		31.7		39.6
	Power input (575)	kW	4.04	5.64	7.09	
	Current input (Rated)	A	4.5	6.2	7.9	
	BTU/h	76,000		103,000		129,000
	kW	22.3		30.2		37.8
	Power input (575)	kW	3.74	4.48	6.55	5.92
	Current input (575)	A	4.1	4.9	7.3	6.6
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model/Quantity		50~130% of heatsource unit capacity P04~P72/1~18	50~130% of heatsource unit capacity P04~P96/1~24	50~130% of heatsource unit capacity P04~P96/1~30	
Sound pressure level (measured in anechoic room)	dB <A>		46.0	48.0	54.0	
Refrigerant piping diameter	Liquid pipe Gas pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)	
Minimum Circuit Ampacity			3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
Maximum Overcurrent Protection	A		5	7	11	
Inlet water	Water flow rate	G/h	1,522	1,522	1,522	
		G/min (gpm)	25.4	25.4	25.4	
		m³/h	5.76	5.76	5.76	
		L/min	96	96	96	
		cfm	3.4	3.4	3.4	
	Pressure drop	psi	3.48	3.48	3.48	
		kPa	24	24	24	
	Operating volume range	G/h	793 ~ 1,902	793 ~ 1,902	793 ~ 1,902	
		G/min (gpm)	13.2 ~ 31.7	13.2 ~ 31.7	13.2 ~ 31.7	
		m³/h	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	4.3	6.0	7.7	
	Case heater	kW	-	-	-	
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)		404 (183)	404 (183)	404 (183)	
Heat exchanger			plate type	plate type	plate type	
	Water volume in plate	G	1.32	1.32	1.32	
		I	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	
		MPa	2.0	2.0	2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G	joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G	joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G	

#### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZLMU-A1



## ► Specifications

Heat Source Model	PQHY-P144ZLMU-A1		PQHY-P168ZLMU-A1		PQHY-P192ZLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU/h	144,000		168,000		192,000
	*1 kW	42.2		49.2		56.3
	Power input (575)	kW	8.78	12.05		15.05
	Current input (Rated)	A	9.7	13.4		16.7
	BTU/h	137,000		161,000		183,000
	kW	40.2		47.2		53.6
	Power input (575)	kW	8.07	9.98	11.10	11.88
	Current input (575)	A	9.0	11.1	12.3	13.2
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU/h	160,000		188,000		215,000
	*2 kW	46.9		55.1		63.0
	Power input (575)	kW	8.11	9.86	11.0	13.2
	Current input (Rated)	A	9.0			
	BTU/h	152,000		179,000		205,000
	kW	44.5		52.5		60.1
	Power input (575)	kW	7.47	7.90	9.09	9.72
	Current input (575)	A	8.3	8.8	10.1	10.8
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model/Quantity		50~130% of heatsource unit capacity P04~P96/1~36	50~130% of heatsource unit capacity P04~P96/1~42	50~130% of heatsource unit capacity P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>		54.0	56.0		58.0
Refrigerant	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		13	16		20
Maximum Overcurrent Protection	A		20	25		30
Inlet water	Water flow rate	G/h	1,902	1,902		1,902
		G/min (gpm)	31.7	31.7		31.7
		m³/h	7.20	7.20		7.20
		L/min	120	120		120
		cfm	4.2	4.2		4.2
	Pressure drop	psi	6.38	6.38		6.38
		kPa	44	44		44
	Operating volume range	G/h	1,189 ~ 3,054	1,189 ~ 3,054		1,189 ~ 3,054
		G/min (gpm)	19.8 ~ 50.9	19.8 ~ 50.9		19.8 ~ 50.9
		m³/h	4.5 ~ 11.6	4.5 ~ 11.6		4.5 ~ 11.6
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	9.5	11.0		12.4
	Case heater	kW	-	-		-
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)		505 (229)	505 (229)	505 (229)	
Heat exchanger			plate type	plate type	plate type	
	Water volume in plate	G	1.32	1.32	1.32	
		I	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	
		MPa	2.0	2.0	2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G	

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQHY-P144ZSLMU-A1		PQHY-P168ZSLMU-A1		PQHY-P192ZSLMU-A1		
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	144,000		168,000		192,000		
	*1 kW	42.2		49.2		56.3		
(575)	Power input	kW	7.11	9.33		11.30		
	Current input	A	7.9	10.4		12.6		
	BTU/h	137,000		161,000		183,000		
	kW	40.2		47.2		53.6		
(575)	Power input	kW	6.53	7.72	8.58	9.22	10.40	
	Current input	A	7.2	8.6	9.5	10.2	11.6	
	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)	
	Inlet water	°F	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	160,000		188,000		215,000		
	*2 kW	46.9		55.1		63.0		
(575)	Power input	kW	7.45	9.34	10.4	11.02	12.2	
	Current input	A	8.3					
	BTU/h	152,000		179,000		205,000		
	kW	44.5		52.5		60.1		
(575)	Power input	kW	6.86	7.22	8.60	8.03	10.16	
	Current input	A	7.6	8.0	9.5	8.9	11.3	
	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)	
	Inlet water	°F	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		
	Model/Quantity	P04~P96/1~36		P04~P96/1~42		P04~P96/1~48		
Sound pressure level (measured in anechoic room)	dB <A>	49.0		50.0		51.0		
Refrigerant	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	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	1-1/8 (28.58) Brazed	
Set Model								
Model	PQHY-P72ZLMU-A1	PQHY-P72ZLMU-A1	PQHY-P96ZLMU-A1	PQHY-P72ZLMU-A1	PQHY-P96ZLMU-A1	PQHY-P96ZLMU-A1	PQHY-P96ZLMU-A1	
Minimum Circuit Ampacity	A	5	5	7	5	7	7	
Maximum Overcurrent Protection	A	15	15	15	15	15	15	
Inlet water	Water flow rate	G/h	1,522 + 1,522	1,522 + 1,522	1,522 + 1,522	1,522 + 1,522	1,522 + 1,522	
		G/min (gpm)	25.4 + 25.4	25.4 + 25.4	25.4 + 25.4	25.4 + 25.4	25.4 + 25.4	
		m³/h	5.76 + 5.76	5.76 + 5.76	5.76 + 5.76	5.76 + 5.76	5.76 + 5.76	
		L/min	96 + 96	96 + 96	96 + 96	96 + 96	96 + 96	
		cfrm	3.4 + 3.4	3.4 + 3.4	3.4 + 3.4	3.4 + 3.4	3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	
		kPa	24	24	24	24	24	
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	
		G/min (gpm)	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	
Compressor	Operating volume range	m³/h	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	
	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	4.3	4.3	6.0	4.3	6.0	
	Case heater	kW	-	-	-	-	-	
External finish	Galvanized steel sheets							
External dimension H x W x D	in.	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	43-5/16 x 34-11/16 x	
		21-11/16	21-11/16	21-11/16	21-11/16	21-11/16	21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
		1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	404 (183)	404 (183)	404 (183)	404 (183)	404 (183)	404 (183)	
Heat exchanger	plate type		plate type		plate type		plate type	
	Water volume in plate	G	1.32	1.32	1.32	1.32	1.32	1.32
		I	5.0	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290	290	290	290
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQHY-P216ZSLMU-A1		PQHY-P240ZSLMU-A1		
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	216,000		240,000	
	*1	kW	63.3		70.3	
	(575)	Power input kW	14.03		16.89	
	(Rated)	Current input A	15.6		18.8	
		BTU/h	206,000		228,000	
		kW	60.4		66.8	
	(575)	Power input kW	12.93	13.24	15.57	
		Current input A	14.4	14.7	17.3	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	243,000		270,000	
	*2	kW	71.2		79.1	
	(575)	Power input kW	12.88		14.58	
	(Rated)	Current input A	14.3		16.2	
		BTU/h	232,000		258,000	
		kW	68.0		75.6	
	(575)	Power input kW	11.88	10.35	13.45	
		Current input A	13.2	11.5	15.0	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity		P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		55.0		57.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Set Model						
Model	PQHY-P120ZLMU-A1		PQHY-P96ZLMU-A1	PQHY-P120ZLMU-A1	PQHY-P120ZLMU-A1	
Minimum Circuit Ampacity	A	11	7	11	11	
Maximum Overcurrent Protection	A	15	15	15	15	
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522	
		G/min (gpm)	25.4 + 25.4		25.4 + 25.4	
		m³/h	5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96	
		cfrm	3.4 + 3.4		3.4 + 3.4	
Operating volume range	Pressure drop	psi	3.48	3.48	3.48	
		kPa	24	24	24	
		G/h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902	
		G/min (gpm)	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7	
		m³/h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.7	6.0	7.7	
	Case heater	kW	-	-	-	
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
Refrigerant	Compressor	Over-heat protection		Over-heat protection		
	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	404 (183)	404 (183)	404 (183)	404 (183)	
Heat exchanger	plate type		plate type		plate type	
	Water volume in plate	G	1.32	1.32	1.32	1.32
		l	5.0	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290	290
		MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Optional parts		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-A1



## ► Specifications

Heat Source Model	PQHY-P288ZSLMU-A1			PQHY-P312ZSLMU-A1		
Indoor Model	Non-Ducted		Ducted	Non-Ducted		Ducted
Power source	3-phase 3-wire 575 V ±10% 60 Hz			3-phase 3-wire 575 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU/h	288,000			312,000	
	*1 kW	84.4			91.4	
	Power input (575)	kW	20.42		23.41	
	Current input (Rated)	A	22.7		26.1	
	BTU/h	275,000			297,000	
	kW	80.6			87.0	
	Power input (575)	kW	18.82	21.43	21.59	23.67
	Current input (575)	A	20.9	23.9	24.0	26.4
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	323,000			350,000	
	*2 kW	94.7			102.6	
	Power input (575)	kW	17.50		19.11	
	Current input (Rated)	A	19.5		21.3	
	BTU/h	308,000			334,000	
	kW	90.3			97.9	
	Power input (575)	kW	16.13	16.05	17.62	17.96
	Current input (575)	A	17.9	17.9	19.6	20.0
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model/Quantity		50~130% of heatsource unit capacity P04~P96/2~50		50~130% of heatsource unit capacity P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>		57.0		58.0	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Piping diameter	Gas pipe	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed	
Set Model						
Model	PQHY-P144ZLMU-A1		PQHY-P144ZLMU-A1		PQHY-P168ZLMU-A1	
Minimum Circuit Ampacity	A	13	13	16	13	
Maximum Overcurrent Protection	A	20	20	25	20	
Inlet water	Water flow rate	G/h G/min (gpm) m³/h L/min cfm	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2		1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	
	Pressure drop	psi kPa	6.38 44	6.38 44	6.38 44	6.38 44
	Operating volume range	G/h G/min (gpm) m³/h	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6		1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter		Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	9.5
	Case heater	kW	-	-	-	-
External finish	Galvanized steel sheets					
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection	
	Compressor	Over-heat protection			Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)	505 (229)	505 (229)	505 (229)	505 (229)	
Heat exchanger	plate type					
	Water volume in plate	G	1.32	1.32	1.32	1.32
		l	5.0	5.0	5.0	5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0	290 2.0	290 2.0
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	5/8 (15.88) Brazed 1-1/8 (28.58) Brazed	5/8 (15.88) Brazed 1-1/8 (28.58) Brazed
Optional parts	Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQHY-P336ZSLMU-A1		PQHY-P360ZSLMU-A1	
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	336,000	360,000	
	*1	kW	98.5	105.5	
	(575)	Power input kW	26.84	29.43	
	(Rated)	Current input A	29.9	32.8	
		BTU/h	320,000	342,000	
		kW	93.8	100.2	
	(575)	Power input kW	24.76	25.85	27.17
		Current input A	27.6	28.8	30.3
Temp. range of cooling	Indoor	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
	Inlet water				
Heating capacity (Nominal)	*2	BTU/h	378,000	405,000	
	*2	kW	110.8	118.7	
	(575)	Power input kW	20.77	22.85	
	(Rated)	Current input A	23.1	25.4	
		BTU/h	361,000	387,000	
		kW	105.8	113.4	
	(575)	Power input kW	19.16	20.05	21.09
		Current input A	21.3	22.3	23.5
Temp. range of heating	Indoor	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
	Inlet water				
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity	P04~P96/2~50		P04~P96/2~50	
Sound pressure level (measured in anechoic room)	dB <A>	59.0		60.0	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	
	piping diameter	Gas pipe in. (mm)	1-5/8 (41.28) Brazed	1-5/8 (41.28) Brazed	
Set Model					
Model	PQHY-P168ZLMU-A1		PQHY-P168ZLMU-A1	PQHY-P192ZLMU-A1	PQHY-P168ZLMU-A1
Minimum Circuit Ampacity	A	16	16	20	16
Maximum Overcurrent Protection	A	25	25	30	25
Inlet water	Water flow rate G/h	1,902 + 1,902		1,902 + 1,902	
	G/min (gpm)	31.7 + 31.7		31.7 + 31.7	
	m³/h	7.20 + 7.20		7.20 + 7.20	
	L/min	120 + 120		120 + 120	
	cfrm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop psi	6.38	6.38	6.38	6.38
	kPa	44	44	44	44
Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054	
	G/min (gpm)	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9	
	m³/h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter	Inverter	Inverter
	Motor output kW	11.0	11.0	12.4	11.0
	Case heater kW	-	-	-	-
External finish	Galvanized steel sheets				
External dimension H x W x D in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
	mm 1,450 x 880 x 550		1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	505 (229)	505 (229)	505 (229)	505 (229)
Heat exchanger	plate type				
	Water volume in plate G	1.32	1.32	1.32	1.32
	Water pressure Max. l	5.0	5.0	5.0	5.0
	Max. psi	290	290	290	290
	Max. MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	Liquid pipe in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed	5/8 (15.88) Brazed
	Gas pipe in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Optional parts	Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G				
	Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G				

### Notes:

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

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

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# WR2-Series

Simultaneous Heating and Cooling Heat recovery

- Optional parts
- Specifications 208-230V, 460V PQRY-P T(S)LMU-A1/Y(S)LMU-A1  
575V PQRY-P Z(S)LMU-A1
- BC controllers

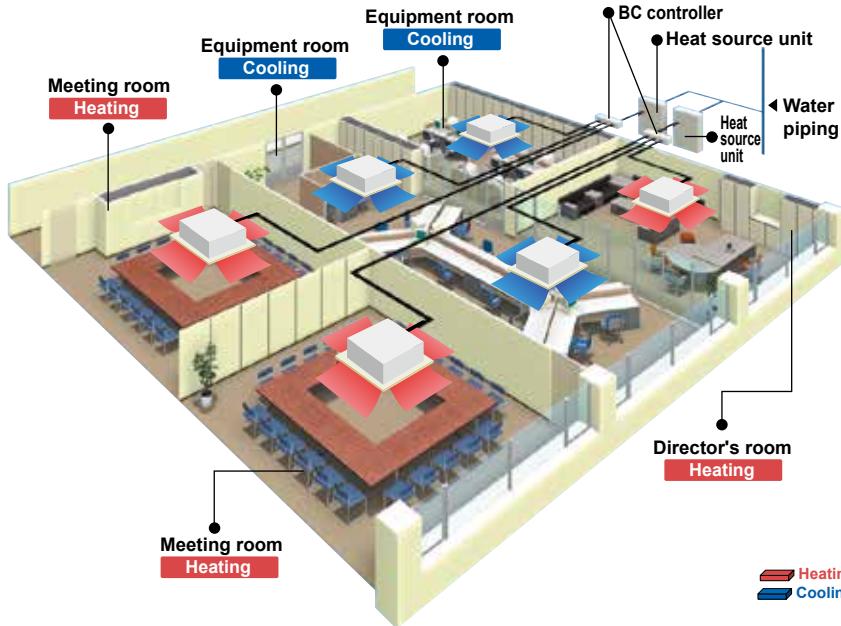


## Advanced water heat source unit with the benefits of the R2-Series

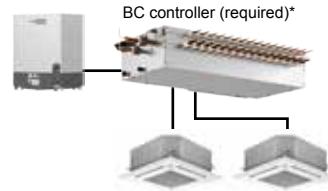
The CITY MULTI WR2-Series provides all of the advantages of the R2-Series with the added benefits of a water heat source system, making it suitable for a wider range of applications in high-rise buildings, cold climates, coastal areas, etc.

Not only does it recover heat from the indoor units along the same 2-pipe refrigerant circuit, it also recovers heat via the water circuit between heat source units, making it a very economical system.

### • Installation image (WR2-Series)

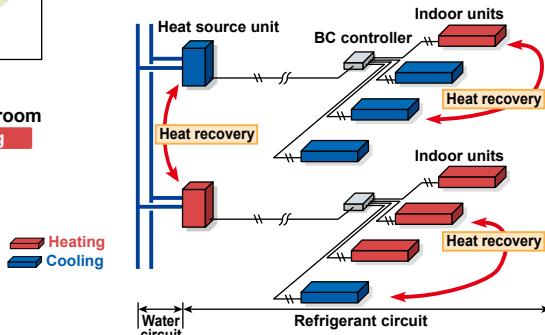


### • System example



\*WR2-Series systems require the use of BC controllers.

### • Double heat recovery (WR2)



### • System pipe lengths

[P72-P336 (WR2-Series)]

Refrigerant Piping Lengths		Maximum feet [Meters]
Total length	.....	1,804-2,460 [550-750]
Maximum allowable length	.....	541 (623 equivalent) [165 (190)]
Maximum length between heat source and single/main BC controller	.....	360 [110] <sup>2</sup>
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.		
Maximum length between single/main BC controller and indoor	.....	131 [40] <sup>3</sup>
Vertical differentials between units		Maximum feet [Meters]
Indoor/ heat source ( heat source higher)	.....	164 [50]
Indoor/ heat source ( heat source lower)	.....	131 [40]
Indoor/BC controller (single/main)	.....	49 [15] <sup>4</sup>
Indoor/indoor	.....	98 [30] <sup>5</sup>
Main BC Controller/Sub BC Controller	.....	49 [15] <sup>6</sup>

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

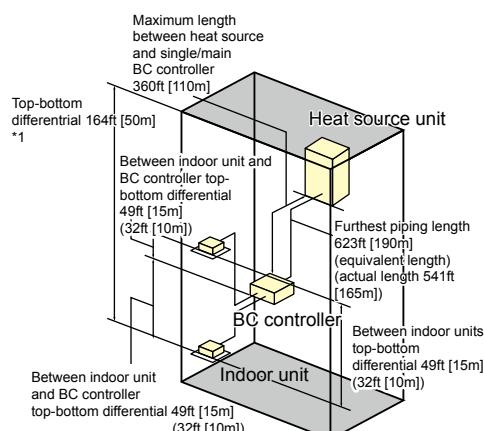
<sup>2</sup> Details refer to the DATA BOOK.

<sup>3</sup> Farthest Indoor from BC controller can exceed 131ft [40m] till 197ft [60m] if no Indoor sized P72, P96 connected. Details refer to the DATA BOOK.

<sup>4</sup> Height between Indoor sized P72, P96 and BC must be less than 32ft [10m], if any.

<sup>5</sup> Height between Indoor sized P72, P96 and IU must be less than 65ft [20m], if any.

<sup>6</sup> Height between BC (Main or Sub) and BC (Sub) must be less than 32ft [10m] if two BC(sub) are installed or IU size is P72, P96.



## Optional parts

- For WR2-Series

Description	Model	Remarks
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)
Twinning kit	CMY-Q100CBK2	For PQRY-P144-P240TSLMU-A/YSLMU-A/ZSLMU
	CMY-Q200CBK	For PQRY-P288-P336TSLMU-A/YSLMU-A/ZSLMU

# HEAT SOURCE UNIT

## WR2-Series (208-230V)

### PQRY-P TLMU-A1



#### ► Specifications

Heat Source Model	PQRY-P72TLMU-A1		PQRY-P96TLMU-A1		PQRY-P120TLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	72,000		96,000		120,000
	*1 kW	21.1		28.1		35.2
	Power input (208-230)	kW	3.61	5.21		7.51
	Current input (Rated)	A	11.1-10.0	16.0-14.5		23.1-20.9
		BTU / h	69,000	92,000		114,000
		kW	20.2	27.0		33.4
	Power input (208-230)	kW	3.34	5.19	6.95	7.35
	Current input (208-230)	A	10.3-9.3	14.8-13.4	21.4-19.3	22.6-20.5
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	80,000		108,000		135,000
	*2 kW	23.4		31.7		39.6
	Power input (208-230)	kW	4.04	5.64		7.09
	Current input (Rated)	A	12.4-11.2	17.3-15.7		21.8-19.7
		BTU / h	76,000	103,000		129,000
		kW	22.3	30.2		37.8
	Power input (208-230)	kW	3.74	4.48	6.55	5.92
	Current input (208-230)	A	11.5-10.4	16.0-14.5	20.2-18.2	18.2-16.5
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~150% of heat source unit capacity P04~P96/1~18	50~150% of heat source unit capacity P04~P96/1~24	50~150% of heat source unit capacity P04~P96/1~30	
Sound pressure level (measured in anechoic room)	dB <A>		46.0	48.0		54.0
Refrigerant	High pressure piping diameter	in. (mm)	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	
	Low pressure piping diameter	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
Minimum Circuit Ampacity	A		13-12	19-17		29-26
Maximum Overcurrent Protection	A		20-20	30-25		50-45
Inlet water	Water flow rate	G / h	1,522	1,522		1,522
		G / min (gpm)	25.4	25.4		25.4
		m³ / h	5.76	5.76		5.76
		L / min	96	96		96
		cfm	3.4	3.4		3.4
	Pressure drop	psi	3.48	3.48		3.48
		kPa	24	24		24
	Operating volume range	G / h	793 ~ 1,902	793 ~ 1,902		793 ~ 1,902
		G / min (gpm)	13.2 ~ 31.7	13.2 ~ 31.7		13.2 ~ 31.7
		m³ / h	3.0 ~ 7.2	3.0 ~ 7.2		3.0 ~ 7.2
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	4.3	6.0		7.7
	Case heater	kW	—	—	—	—
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)		382 (173)	382 (173)	382 (173)	
Heat exchanger			plate type	plate type	plate type	
	Water volume in plate	G	1.32	1.32	1.32	
		I	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	
		MPa	2.0	2.0	2.0	
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, 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, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016NU-G1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (208-230V)

### PQRY-P TLMU-A1



#### ► Specifications

Heat Source Model	PQRY-P144TLMU-A1		PQRY-P168TLMU-A1		PQRY-P192TLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000
	*1 kW	42.2		49.2		56.3
	Power input (208-230)	kW	8.78	12.05		15.05
	Current input (Rated)	A	27.0-24.4	37.1-33.6		46.4-41.9
	BTU / h (208-230)		137,000	161,000		183,000
		kW	40.2	47.2		53.6
	Power input (208-230)	kW	8.07	9.98	11.10	11.88
	Current input (208-230)	A	24.8-22.5	30.7-27.8	34.2-30.9	36.6-33.1
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000
	*2 kW	46.9		55.1		63.0
	Power input (208-230)	kW	8.11	9.86		11.90
	Current input (Rated)	A	25.0-22.6	30.4-27.5		36.7-33.1
	BTU / h (208-230)		152,000	179,000		205,000
		kW	44.5	52.5		60.1
	Power input (208-230)	kW	7.47	7.90	9.09	9.72
	Current input (208-230)	A	23.0-20.8	24.3-22.0	28.0-25.3	29.9-27.1
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model / Quantity		50~150% of heat source unit capacity P04~P96/1~36	50~150% of heat source unit capacity P04~P96/1~42	50~150% of heat source unit capacity P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>		54.0	56.0		58.0
Refrigerant	High pressure piping diameter	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
	Low pressure piping diameter	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity	A		35-32	44-39		54-49
Maximum Overcurrent Protection	A		60-50	70-70		90-80
Inlet water	Water flow rate	G / h	1,902	1,902		1,902
		G / min (gpm)	31.7	31.7		31.7
		m³ / h	7.20	7.20		7.20
		L / min	120	120		120
		cfm	4.2	4.2		4.2
	Pressure drop	psi	6.38	6.38		6.38
		kPa	44	44		44
	Operating volume range	G / h	1,189 ~ 3,054	1,189 ~ 3,054		1,189 ~ 3,054
		G / min (gpm)	19.8 ~ 50.9	19.8 ~ 50.9		19.8 ~ 50.9
		m³ / h	4.5 ~ 11.6	4.5 ~ 11.6		4.5 ~ 11.6
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	9.5	11.0		12.4
	Case heater	kW	—	—	—	—
External finish			Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)		481 (218)	481 (218)	481 (218)	
Heat exchanger			plate type	plate type	plate type	
	Water volume in plate	G	1.32	1.32	1.32	
		I	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	
		MPa	2.0	2.0	2.0	
Optional parts			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (208-230V)

### PQRY-P TLMU-A1



#### ► Specifications

Heat Source Model		PQRY-P216TLMU-A1		PQRY-P240TLMU-A1	
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	216,000		240,000	
	*1 kW	63.3		70.3	
(208-230)	Power input kW	19.23		21.14	
	Current input A	59.3-53.6		65.1-58.9	
	BTU / h	206,000		228,000	
	kW	60.4		66.8	
(208-230)	Power input kW	17.72	16.10	19.49	18.74
	Current input A	54.6-49.4	49.6-44.9	60.1-54.3	57.7-52.2
Temp. range of cooling	Indoor W.B. Inlet water °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
*2 BTU / h	243,000		270,000		
(208-230)	*2 kW	71.2		79.1	
	Power input kW	13.04		15.12	
	Current input A	40.2-36.3		46.6-42.1	
	BTU / h	232,000		258,000	
(208-230)	kW	68.0		75.6	
	Power input kW	12.01	12.34	13.93	14.62
	Current input A	37.0-33.4	38.0-34.4	42.9-38.8	45.0-40.7
Temp. range of heating	Indoor D.B. Inlet water °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)		50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	58.0		58.0	
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity	A	69-63		79-71	
Maximum Overcurrent Protection	A	110-110		125-125	
Inlet water	Water flow rate G / h	3,044		3,044	
	G / min (gpm)	50.7		50.7	
	m³ / h	11.52		11.52	
	L / min	192		192	
	cfm	6.8		6.8	
	Pressure drop psi	6.53		6.53	
	kPa	45		45	
	Operating volume range G / h	1,585 ~ 3,804		1,585 ~ 3,804	
	G / min (gpm)	26.4 ~ 63.4		26.4 ~ 63.4	
	m³ / h	6.0 ~ 14.4		6.0 ~ 14.4	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter	
	Motor output kW	14.5		16.1	
	Case heater kW	0.045 (240 V)		0.045 (240 V)	
External finish	Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550		1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight	lbs (kg)	558 (253)		558 (253)	
Heat exchanger	plate type		plate type		
	Water volume in plate G	2.64		2.64	
	I	10.0		10.0	
	Water pressure psi	290		290	
	Max. MPa	2.0		2.0	
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (208-230V)

### PQRY-P TSLMU-A1



#### ► Specifications

Heat Source Model	PQRY-P144TSLMU-A1		PQRY-P168TSLMU-A1		PQRY-P192TSLMU-A1										
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted									
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz										
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000									
	*1 kW	42.2		49.2		56.3									
	Power input (208-230)	kW	7.11	9.33		11.30									
	Current input (Rated)	A	21.9-19.8	28.7-26.0		34.8-31.5									
		BTU / h	137,000	161,000		183,000									
		kW	40.2	47.2		53.6									
	Power input (208-230)	kW	6.53	7.72	8.58	9.22									
	Current input (208-230)	A	20.1-18.2	23.8-21.5	26.4-23.9	28.4-25.7									
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)									
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000									
	*2 kW	46.9		55.1		63.0									
	Power input (208-230)	kW	7.45	9.34		11.02									
	Current input (Rated)	A	22.9-20.7	28.8-26.0		33.9-30.7									
		BTU / h	152,000	179,000		205,000									
		kW	44.5	52.5		60.1									
	Power input (208-230)	kW	6.86	7.22	8.60	8.03									
	Current input (208-230)	A	21.1-19.1	22.2-20.1	26.5-23.9	24.7-22.3									
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)									
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity P04~P96/1~36	50~150% of heat source unit capacity P04~P96/1~42	50~150% of heat source unit capacity P04~P96/1~48											
Sound pressure level (measured in anechoic room)	dB <A>	49.0		50.0		51.0									
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed											
	Low pressure in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed											
<b>Set Model</b>															
Model	PQRY-P72TSLMU-A1	PQRY-P72TSLMU-A1	PQRY-P96TSLMU-A1	PQRY-P72TSLMU-A1	PQRY-P96TSLMU-A1	PQRY-P96TSLMU-A1									
Minimum Circuit Ampacity	A	13-12	13-12	19-17	13-12	19-17									
Maximum Overcurrent Protection	A	20-20	20-20	30-25	20-20	30-25									
Inlet water	Water flow rate	G / h G / min (gpm) m³ / h L / min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4									
	Pressure drop	psi kPa	3.48 24	3.48 24	3.48 24	3.48 24									
	Operating volume range	G / h G / min (gpm) m³ / h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2									
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1									
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter									
	Motor output	kW	4.3	4.3	6.0	6.0									
	Case heater	kW	—	—	—	—									
External finish	Galvanized steel sheets														
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16									
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550									
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)									
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection									
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection									
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)									
Net weight	lbs (kg)	382 (173)	382 (173)	382 (173)	382 (173)	382 (173)									
Heat exchanger	plate type	plate type	plate type	plate type	plate type	plate type									
	Water volume in plate	G	1.32	1.32	1.32	1.32									
		I	5.0	5.0	5.0	5.0									
	Water pressure Max.	psi	290	290	290	290									
		MPa	2.0	2.0	2.0	2.0									
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	5/8 (15.88) Brazed —	5/8 (15.88) Brazed 3/4 (19.05) Brazed	3/4 (19.05) Brazed —	3/4 (19.05) Brazed —									
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1														
	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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)														
	<table border="1"> <tr> <th></th><th>Indoor</th><th>Water temperature</th></tr> <tr> <td>Cooling</td><td>81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)</td><td>86°F (30°C)</td></tr> <tr> <td>Heating</td><td>68°F D.B. (20°C D.B.)</td><td>68°F (20°C)</td></tr> </table>							Indoor	Water temperature	Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)	Heating	68°F D.B. (20°C D.B.)	68°F (20°C)
	Indoor	Water temperature													
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)													
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)													

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (208-230V)

### PQRY-P TSLMU-A1



#### ► Specifications

Heat Source Model	PQRY-P216TSLMU-A1			PQRY-P240TSLMU-A1		
Indoor Model	Non-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		
Cooling capacity (Nominal)	*1 BTU / h	216,000			240,000	
	*1 kW	63.3			70.3	
	Power input (208-230)	kW	14.03		16.89	
	Current input (Rated)	A	43.2-39.1		52.0-47.1	
	BTU / h (208-230)		206,000		228,000	
	kW	60.4			66.8	
	Power input (208-230)	kW	12.93	13.24	15.57	16.15
	Current input (208-230)	A	39.8-36.0	40.8-36.9	48.0-43.4	49.8-45.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000			270,000	
	*2 kW	71.2			79.1	
	Power input (208-230)	kW	12.88		14.58	
	Current input (Rated)	A	39.7-35.9		44.9-40.6	
	BTU / h (208-230)		232,000		258,000	
	kW	68.0			75.6	
	Power input (208-230)	kW	11.88	10.35	13.45	12.02
	Current input (208-230)	A	36.6-33.1	31.9-28.8	41.4-37.5	37.0-33.5
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity		50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)		50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>		55.0		57.0	
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) 1-1/8 (28.58) Brazed	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m) 1-3/8 (34.93) Brazed	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	PQRY-P120TLMU-A1	PQRY-P96TLMU-A1	PQRY-P120TLMU-A1	PQRY-P120TLMU-A1
Minimum Circuit Ampacity	A	29-26	19-17	29-26
Maximum Overcurrent Protection	A	50-45	30-25	50-45
Inlet water	Water flow rate	G / h	1,522 + 1,522	1,522 + 1,522
		G/min (gpm)	25.4 + 25.4	25.4 + 25.4
		m³ / h	5.76 + 5.76	5.76 + 5.76
		L / min	96 + 96	96 + 96
		cfm	3.4 + 3.4	3.4 + 3.4
	Pressure drop	psi	3.48	3.48
		kPa	24	24
	Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902
		G/min (gpm)	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7
		m³ / h	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		
	Motor output	kW	7.7	6.0
	Case heater	kW	—	—
External finish	Galvanized steel sheets			
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	382 (173)	382 (173)	382 (173)
Heat exchanger	plate type			
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi	290	290
		MPa	2.0	2.0
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	3/4 (19.05) Brazed —	3/4 (19.05) Brazed 7/8 (22.2) Brazed
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1			
	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (208-230V)

### PQRY-P TSLMU-A1



#### ► Specifications

Heat Source Model	PQRY-P288TSLMU-A1		PQRY-P312TSLMU-A1		PQRY-P336TSLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	288,000		312,000		336,000
	*1 kW	84.4		91.4		98.5
	Power input (208-230)	kW	20.42	23.41		26.84
	Current input (Rated)	A	62.9-56.9	72.1-65.2		82.7-74.8
		BTU / h	275,000	297,000		320,000
		kW	80.6	87.0		93.8
	Power input (208-230)	kW	18.82	21.43	21.59	23.67
	Current input (208-230)	A	58.0-52.4	66.1-59.7	66.5-60.2	73.0-66.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	323,000		350,000		378,000
	*2 kW	94.7		102.6		110.8
	Power input (208-230)	kW	17.50	19.11		20.77
	Current input (Rated)	A	53.9-48.8	58.9-53.3		64.0-57.9
		BTU / h	308,000	334,000		361,000
		kW	90.3	97.9		105.8
	Power input (208-230)	kW	16.13	16.05	17.62	17.96
	Current input (208-230)	A	49.7-44.9	49.5-44.7	54.3-49.1	55.3-50.0
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity
Sound pressure level (measured in anechoic room)	dB <A>	57.0		58.0		59.0
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	PQRY-P144TLMU-A1	PQRY-P144TLMU-A1	PQRY-P168TLMU-A1	PQRY-P144TLMU-A1	PQRY-P168TLMU-A1	PQRY-P168TLMU-A1	
Minimum Circuit Ampacity	A	35-32	35-32	44-39	35-32	44-39	
Maximum Overcurrent Protection	A	60-50	60-50	70-70	60-50	70-70	
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2	
	Pressure drop	psi kPa	6.38 44	6.38 44	6.38 44	6.38 44	
	Operating volume range	G / h G/min (gpm) m³ / h	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	9.5	9.5	11.0	11.0	
	Case heater	kW	—	—	—	—	
External finish	Galvanized steel sheets			Galvanized steel sheets			
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)	481 (218)	481 (218)	481 (218)	481 (218)	481 (218)	
Heat exchanger	plate type	plate type	plate type	plate type	plate type	plate type	
	Water volume in plate	G	1.32	1.32	1.32	1.32	
		I	5.0	5.0	5.0	5.0	
	Water pressure Max.	psi MPa	290 2.0	290 2.0	290 2.0	290 2.0	
Pipe between unit and distributor	High pressure 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 —	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1			Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (460V)

### PQRY-P YLMU-A1



#### ► Specifications

Heat Source Model		PQRY-P72YLMU-A1		PQRY-P96YLMU-A1		PQRY-P120YLMU-A1			
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			
(Rated)	Power input (460)	kW	3.61	5.21		7.51			
	Current input (460)	A	5.0	7.2		10.4			
	BTU / h	69,000		92,000		114,000			
	kW	20.2		27.0		33.4			
(460)	Power input	kW	3.34	3.12	4.82	5.19	6.95		
	Current input	A	4.6	4.3	6.7	7.2	9.6		
	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)		
	Inlet water	°F	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	80,000		108,000		135,000			
	*2 kW	23.4		31.7		39.6			
	Power input (460)	kW	4.04	5.64		7.09			
	Current input (460)	A	5.6	7.8		9.8			
(Rated)	BTU / h	76,000		103,000		129,000			
	kW	22.3		30.2		37.8			
	Power input	kW	3.74	3.36	5.21	4.48	6.55		
	Current input	A	5.2	4.6	7.2	6.2	9.1		
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)	59~81°F (15~27°C)		
	Inlet water	°F	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)		
	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity			
Indoor unit connectable	Model / Quantity	P04~P96/1~18		P04~P96/1~24		P04~P96/1~30			
Sound pressure level (measured in anechoic room)	dB <A>	46.0		48.0		54.0			
Refrigerant	High pressure	in. (mm)	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed		
	Low pressure	in. (mm)	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	6		9		13			
Maximum Overcurrent Protection	A	15		15		20			
Inlet water	Water flow rate	G / h	1,522	1,522	1,522	1,522	1,522		
		G/min (gpm)	25.4	25.4	25.4	25.4	25.4		
		m³ / h	5.76	5.76	5.76	5.76	5.76		
		L / min	96	96	96	96	96		
		cfm	3.4	3.4	3.4	3.4	3.4		
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48		
		kPa	24	24	24	24	24		
	Operating volume range	G / h	793 ~ 1,902	793 ~ 1,902	793 ~ 1,902	793 ~ 1,902	793 ~ 1,902		
		G/min (gpm)	13.2 ~ 31.7	13.2 ~ 31.7	13.2 ~ 31.7	13.2 ~ 31.7	13.2 ~ 31.7		
		m³ / h	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1			
	Starting method	Inverter		Inverter		Inverter			
	Motor output	kW	4.3	6.0	6.0	7.7	7.7		
	Case heater	kW	—	—	—	—	—		
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	406 (184)		406 (184)		406 (184)		406 (184)	
Heat exchanger	plate type		plate type		plate type		plate type		
	Water volume in plate	G	1.32	1.32	1.32	1.32	1.32	1.32	
		I	5.0	5.0	5.0	5.0	5.0	5.0	
	Water pressure Max.	psi	290	290	290	290	290	290	
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, 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, 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, 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, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (460V)

### PQRY-P YLMU-A1



## ► Specifications

Heat Source Model	PQRY-P144YLMU-A1		PQRY-P168YLMU-A1		PQRY-P192YLMU-A1		
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source	3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000	
	*1 kW	42.2		49.2		56.3	
	Power input (460)	kW	8.78	12.05		15.05	
	Current input (460)	A	12.2	16.8		20.9	
	BTU / h	137,000		161,000		183,000	
	kW	40.2		47.2		53.6	
	Power input (460)	kW	8.07	11.10	13.87	14.19	
	Current input (460)	A	11.2	13.9	15.4	19.3	
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000	
	*2 kW	46.9		55.1		63.0	
	Power input (460)	kW	8.11	9.86		11.90	
	Current input (460)	A	11.3	13.7		16.5	
	BTU / h	152,000		179,000		205,000	
	kW	44.5		52.5		60.1	
	Power input (460)	kW	7.47	9.09	10.97	11.56	
	Current input (460)	A	10.4	11.0	12.6	15.2	
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)		
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity P04~P96/1~36	50~150% of heat source unit capacity P04~P96/1~42	50~150% of heat source unit capacity P04~P96/1~48			
Sound pressure level (measured in anechoic room)	dB <A>	54.0		56.0		58.0	
Refrigerant	High pressure piping diameter	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed		
	Low pressure piping diameter	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	16		20		25	
Maximum Overcurrent Protection	A	25		35		40	
Inlet water	Water flow rate	G / h	1,902	1,902	1,902		
		G / min (gpm)	31.7	31.7	31.7		
		m³ / h	7.20	7.20	7.20		
		L / min	120	120	120		
		cfm	4.2	4.2	4.2		
	Pressure drop	psi	6.38	6.38	6.38		
		kPa	44	44	44		
	Operating volume range	G / h	1,189 ~ 3,054	1,189 ~ 3,054	1,189 ~ 3,054		
		G / min (gpm)	19.8 ~ 50.9	19.8 ~ 50.9	19.8 ~ 50.9		
		m³ / h	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter		Inverter	
	Motor output	kW	9.5	11.0		12.4	
	Case heater	kW	—	—		—	
External finish	Galvanized steel sheets			Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit	Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection			Over-heat protection		Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)			R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	508 (230)			508 (230)		508 (230)
Heat exchanger	plate type			plate type		plate type	
	Water volume in plate	G	1.32	1.32		1.32	
		I	5.0	5.0		5.0	
	Water pressure Max.	psi	290	290		290	
		MPa	2.0	2.0		2.0	
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1			joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YLMU-A1



## ► Specifications

Heat Source Model		PQRY-P216YLMU-A1		PQRY-P240YLMU-A1	
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	216,000		240,000	
	*1 kW	63.3		70.3	
	Power input (460)	19.23		21.14	
	Current input (460)	26.8		29.4	
(Rated)	BTU / h	206,000		228,000	
	kW	60.4		66.8	
	Power input (460)	17.72	16.10	19.49	18.74
	Current input (460)	24.7	22.4	27.1	26.1
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000	
	*2 kW	71.2		79.1	
	Power input (460)	13.04		15.12	
	Current input (460)	18.1		21.0	
(Rated)	BTU / h	232,000		258,000	
	kW	68.0		75.6	
	Power input (460)	12.01	12.34	13.93	14.62
	Current input (460)	16.7	17.2	19.4	20.3
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	58.0		58.0	
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed	
Minimum Circuit Ampacity	A	31		36	
Maximum Overcurrent Protection	A	50		60	
Inlet water	Water flow rate	G / h	3,044	3,044	
		G / min (gpm)	50.7	50.7	
		m³ / h	11.52	11.52	
		L / min	192	192	
		cfm	6.8	6.8	
	Pressure drop	psi	6.53	6.53	
		kPa	45	45	
	Operating volume range	G / h	1,585 ~ 3,804	1,585 ~ 3,804	
		G / min (gpm)	26.4 ~ 63.4	26.4 ~ 63.4	
		m³ / h	6.0 ~ 14.4	6.0 ~ 14.4	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter	
	Motor output	kW	14.5	16.1	
	Case heater	kW	0.045 (240 V)	0.045 (240 V)	
External finish	Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550		1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Compressor	Over-heat protection		Over-heat protection	
	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)	
Net weight	lbs (kg)	574 (260)		574 (260)	
Heat exchanger	plate type		plate type		
	Water volume in plate	G	2.64	2.64	
		I	10.0	10.0	
	Water pressure Max.	psi	290	290	
Optional parts		MPa	2.0	2.0	
joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (460V)

### PQRY-P YSLMU-A1



## ► Specifications

Heat Source Model	PQRY-P144YSLMU-A1		PQRY-P168YSLMU-A1		PQRY-P192YSLMU-A1		
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source	3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000	
	*1 kW	42.2		49.2		56.3	
	Power input (460)	kW	7.11	9.33		11.30	
	Current input (460)	A	9.9	13.0		15.7	
	BTU / h (Rated)	137,000		161,000		183,000	
	kW	40.2		47.2		53.6	
	Power input (460)	kW	6.53	7.72	8.58	9.22	
	Current input (460)	A	9.1	10.7	11.9	12.8	
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000	
	*2 kW	46.9		55.1		63.0	
	Power input (460)	kW	7.45	9.34		11.02	
	Current input (460)	A	10.3	13.0		15.3	
	BTU / h (Rated)	152,000		179,000		205,000	
	kW	44.5		52.5		60.1	
	Power input (460)	kW	6.86	7.22	8.60	8.03	
	Current input (460)	A	9.5	10.0	11.9	11.1	
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity P04~P96/1~36	50~150% of heat source unit capacity P04~P96/1~42	50~150% of heat source unit capacity P04~P96/1~48			
Sound pressure level (measured in anechoic room)	dB <A>	49.0		50.0		51.0	
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed			
	Low pressure in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed			
<b>Set Model</b>							
Model	PQRY-P72YLMU-A1	PQRY-P72YLMU-A1	PQRY-P96YLMU-A1	PQRY-P72YLMU-A1	PQRY-P96YLMU-A1	PQRY-P96YLMU-A1	
Minimum Circuit Ampacity	A	6	6	9	6	9	
Maximum Overcurrent Protection	A	15	15	15	15	15	
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	
	Pressure drop	psi kPa	3.48 24	3.48 24	3.48 24	3.48 24	
	Operating volume range	G / h G/min (gpm) m³ / h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	4.3	4.3	6.0	6.0	
	Case heater	kW	—	—	—	—	
External finish	Galvanized steel sheets						
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	406 (184)	406 (184)	406 (184)	406 (184)	406 (184)	406 (184)
Heat exchanger	plate type	plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	G	1.32	1.32	1.32	1.32	1.32
		I	5.0	5.0	5.0	5.0	5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0	290 2.0	290 2.0	290 2.0
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	5/8 (15.88) Brazed —	5/8 (15.88) Brazed 3/4 (19.05) Brazed	3/4 (19.05) Brazed —	3/4 (19.05) Brazed 7/8 (22.2) Brazed	3/4 (19.05) Brazed 7/8 (22.2) Brazed
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1						Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YSLMU-A1



## ► Specifications

Heat Source Model	PQRY-P216YSLMU-A1			PQRY-P240YSLMU-A1		
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted		
Power source	3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1 BTU / h	216,000			240,000	
	*1 kW	63.3			70.3	
	Power input (460)	kW	14.03		16.89	
	Current input (460)	A	19.5		23.5	
	BTU / h	206,000			228,000	
	kW	60.4			66.8	
	Power input (460)	kW	12.93	13.24	15.57	16.15
	Current input (460)	A	18.0	18.4	21.7	22.5
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU / h	243,000			270,000	
	*2 kW	71.2			79.1	
	Power input (460)	kW	12.88		14.58	
	Current input (460)	A	17.9		20.3	
	BTU / h	232,000			258,000	
	kW	68.0			75.6	
	Power input (460)	kW	11.88	10.35	13.45	12.02
	Current input (460)	A	16.5	14.4	18.7	16.7
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)		50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	55.0		57.0		
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) 1-1/8 (28.58) Brazed	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	PQRY-P120YLMU-A1	PQRY-P96YLMU-A1	PQRY-P120YLMU-A1	PQRY-P120YLMU-A1
Minimum Circuit Ampacity	A	13	9	13
Maximum Overcurrent Protection	A	20	15	20
Inlet water	Water flow rate	G / h G/min (gpm) m³ / h L / min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4
	Pressure drop	psi kPa	3.48 24	3.48 24
	Operating volume range	G / h G/min (gpm) m³ / h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	7.7	6.0
	Case heater	kW	—	—
External finish	Galvanized steel sheets			
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	406 (184)	406 (184)	406 (184)
Heat exchanger	plate type			
	Water volume in plate	G	1.32	1.32
		l	5.0	5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	3/4 (19.05) Brazed —	3/4 (19.05) Brazed 7/8 (22.2) Brazed
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (460V)

### PQRY-P YSLMU-A1



#### ► Specifications

Heat Source Model	PQRY-P288YSLMU-A1		PQRY-P312YSLMU-A1		PQRY-P336YSLMU-A1	
Indoor Model	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source	3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU / h	288,000		312,000		336,000
	*1 kW	84.4		91.4		98.5
	Power input (460)	kW	20.42	23.41		26.84
	Current input (460)	A	28.4	32.6		37.4
	BTU / h	275,000		297,000		320,000
	kW	80.6		87.0		93.8
	Power input (460)	kW	18.82	21.43	21.59	23.67
	Current input (460)	A	26.2	29.8	30.1	33.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU / h	323,000		350,000		378,000
	*2 kW	94.7		102.6		110.8
	Power input (460)	kW	17.50	19.11		20.77
	Current input (460)	A	24.4	26.6		28.9
	BTU / h	308,000		334,000		361,000
	kW	90.3		97.9		105.8
	Power input (460)	kW	16.13	16.05	17.62	17.96
	Current input (460)	A	22.4	22.3	24.5	25.0
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model / Quantity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity
Sound pressure level (measured in anechoic room)	dB <A>	57.0		58.0		59.0
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	1-1/8 (28.58) Brazed
		in. (mm)	1-3/8 (34.93) Brazed	1-3/8 (34.93) Brazed	1-5/8 (41.28) Brazed	1-5/8 (41.28) Brazed
<b>Set Model</b>						
Model	PQRY-P144YLMU-A1	PQRY-P144YLMU-A1	PQRY-P168YLMU-A1	PQRY-P144YLMU-A1	PQRY-P168YLMU-A1	PQRY-P168YLMU-A1
Minimum Circuit Ampacity	A	16	16	20	16	20
Maximum Overcurrent Protection	A	25	25	35	25	35
Inlet water	Water flow rate	G / h	1,902 + 1,902	1,902 + 1,902	1,902 + 1,902	1,902 + 1,902
		G / min (gpm)	31.7 + 31.7	31.7 + 31.7	31.7 + 31.7	31.7 + 31.7
		m <sup>3</sup> / h	7.20 + 7.20	7.20 + 7.20	7.20 + 7.20	7.20 + 7.20
		L / min	120 + 120	120 + 120	120 + 120	120 + 120
		cfm	4.2 + 4.2	4.2 + 4.2	4.2 + 4.2	4.2 + 4.2
	Pressure drop	psi	6.38	6.38	6.38	6.38
		kPa	44	44	44	44
	Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054	1,189 + 1,189 ~ 3,054 + 3,054	1,189 + 1,189 ~ 3,054 + 3,054	1,189 + 1,189 ~ 3,054 + 3,054
		G / min (gpm)	19.8 + 19.8 ~ 50.9 + 50.9	19.8 + 19.8 ~ 50.9 + 50.9	19.8 + 19.8 ~ 50.9 + 50.9	19.8 + 19.8 ~ 50.9 + 50.9
		m <sup>3</sup> / h	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6	4.5 + 4.5 ~ 11.6 + 11.6
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	9.5	9.5	11.0	11.0
	Case heater	kW	—	—	—	—
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	508 (230)	508 (230)	508 (230)	508 (230)	508 (230)
Heat exchanger	plate type	plate type	plate type	plate type	plate type	plate type
	Water volume in plate	G	1.32	1.32	1.32	1.32
		l	5.0	5.0	5.0	5.0
	Water pressure Max.	psi	290	290	290	290
		MPa	2.0	2.0	2.0	2.0
Pipe between unit and distributor	High pressure 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 —	7/8 (22.2) Brazed 1-1/8 (28.58) Brazed
Optional parts	Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZLMU-A1



## ► Specifications

Heat Source Model		PQRY-P72ZLMU-A1		PQRY-P96ZLMU-A1		PQRY-P120ZLMU-A1	
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	72,000		96,000		120,000
	*1	kW	21.1		28.1		35.2
	(575)	Power input	kW	3.61	5.21		7.51
	(Rated)	Current input	A	4.0	5.8		8.3
		BTU/h	69,000		92,000		114,000
		kW	20.2		27.0		33.4
	(575)	Power input	kW	3.34	5.19	6.95	7.35
		Current input	A	3.7	5.7	7.7	8.2
Temp. range of cooling	Indoor	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2	BTU/h	80,000		108,000		135,000
	*2	kW	23.4		31.7		39.6
	(575)	Power input	kW	4.04	5.64		7.09
	(Rated)	Current input	A	4.5	6.2		7.9
		BTU/h	76,000		103,000		129,000
		kW	22.3		30.2		37.8
	(575)	Power input	kW	3.74	4.48	6.55	5.92
		Current input	A	4.1	4.9	7.3	6.6
Temp. range of heating	Indoor	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity	P04~P96/1~18		P04~P96/1~24		P04~P96/1~30	
Sound pressure level (measured in anechoic room)	dB <A>	46.0		48.0		54.0	
Refrigerant	High pressure	in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed
	Low pressure	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed
Minimum Circuit Ampacity	A		5		7		11
Maximum Overcurrent Protection	A		15		15		15
Inlet water	Water flow rate	G/h	1,522		1,522		1,522
		G/min (gpm)	25.4		25.4		25.4
		m³/h	5.76		5.76		5.76
		L/min	96		96		96
		cfm	3.4		3.4		3.4
	Pressure drop	psi	3.48		3.48		3.48
		kPa	24		24		24
	Operating volume range	G/h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902
		G/min (gpm)	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7
		m³/h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter		Inverter	
	Motor output	kW	4.3		6.0		7.7
	Case heater	kW	-		-		-
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43 5/16 x 34 11/16 x 21 11/16		43 5/16 x 34 11/16 x 21 11/16		43 5/16 x 34 11/16 x 21 11/16	
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	411 (186)		411 (186)		411 (186)	
Heat exchanger	plate type		plate type		plate type		
	Water volume in plate	G	1.32		1.32		1.32
		I	5.0		5.0		5.0
	Water pressure Max.	psi	290		290		290
		MPa	2.0		2.0		2.0
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, 108, 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, 108, 1010, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016NU-G1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZLMU-A1



#### ► Specifications

Heat Source Model		PQRY-P144ZLMU-A1		PQRY-P168ZLMU-A1		PQRY-P192ZLMU-A1	
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	144,000		168,000		192,000	
	*1 kW	42.2		49.2		56.3	
(575)	Power input kW	8.78		12.05		15.05	
	Current input A	9.7		13.4		16.7	
(Rated)	BTU/h	137,000		161,000		183,000	
	kW	40.2		47.2		53.6	
(575)	Power input kW	8.07	9.98	11.10	11.88	13.87	14.19
	Current input A	9.0	11.1	12.3	13.2	15.4	15.8
Temp. range of cooling	Indoor W.B. Inlet water °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	160,000		188,000		215,000	
	*2 kW	46.9		55.1		63.0	
(575)	Power input kW	8.11		9.86		11.90	
	Current input A	9.0		11.0		13.2	
(Rated)	BTU/h	152,000		179,000		205,000	
	kW	44.5		52.5		60.1	
(575)	Power input kW	7.47	7.90	9.09	9.72	10.97	11.56
	Current input A	8.3	8.8	10.1	10.8	12.2	12.8
Temp. range of heating	Indoor D.B. Inlet water °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model/Quantity	50~150% of heat source unit capacity P04~P96/1~36		50~150% of heat source unit capacity P04~P96/1~42		50~150% of heat source unit capacity P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>	54.0		56.0		58.0	
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity	A	13		16		20	
Maximum Overcurrent Protection	A	20		25		30	
Inlet water	Water flow rate G/h	1,902		1,902		1,902	
	G/min (gpm)	31.7		31.7		31.7	
	m³/h	7.20		7.20		7.20	
	L/min	120		120		120	
	cfm	4.2		4.2		4.2	
	Pressure drop psi	6.38		6.38		6.38	
	kPa	44		44		44	
	Operating volume range G/h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
	G/min (gpm)	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9	
	m³/h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter		Inverter		Inverter	
	Motor output kW	9.5		11.0		12.4	
	Case heater kW	-		-		-	
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm		1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)	512 (232)		512 (232)		512 (232)	
Heat exchanger	plate type		plate type		plate type		
	Water volume G	1.32		1.32		1.32	
	I	5.0		5.0		5.0	
	Water pressure psi	290		290		290	
	Max. MPa	2.0		2.0		2.0	
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 1010, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 1010, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 Install the supplied insulation material to the unused drain-socket.

\*9 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*10 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQRY-P144ZSLMU-A1		PQRY-P168ZSLMU-A1		
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	144,000		168,000		
	*1 kW	42.2		49.2		
	Power input (575)	7.11		9.33		
	Current input (Rated)	7.9		10.4		
	BTU/h	137,000		161,000		
	kW	40.2		47.2		
	Power input (575)	6.53	7.72	8.58	9.22	
	Current input (575)	7.2	8.6	9.5	10.2	
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU/h	160,000		188,000		
	*2 kW	46.9		55.1		
	Power input (575)	7.45		9.34		
	Current input (Rated)	8.3		10.4		
	BTU/h	152,000		179,000		
	kW	44.5		52.5		
	Power input (575)	6.86	7.22	8.60	8.03	
	Current input (575)	7.6	8.0	9.5	8.9	
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)		
Indoor unit connectable	Total capacity Model/Quantity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		
		P04~P96/1~42		P04~P96/1~42		
Sound pressure level (measured in anechoic room)	dB <A>	49.0		50.0		
Refrigerant	High pressure piping diameter	in. (mm)		7/8 (22.2) Brazed		
	Low pressure piping diameter	in. (mm)		1-1/8 (28.58) Brazed		
Set Model						
Model	PQRY-P72ZLMU-A1	PQRY-P72ZLMU-A1	PQRY-P96ZLMU-A1	PQRY-P72ZLMU-A1		
Minimum Circuit Ampacity	A	5	5	7	5	
Maximum Overcurrent Protection	A	15	15	15	15	
Inlet water	Water flow rate	G/h G/min (gpm) m³/h L/min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4		
	Pressure drop	psi kPa	3.48 24	3.48 24	3.48 24	
	Operating volume range	G/h G/min (gpm) m³/h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2		
	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter	Inverter	Inverter	Inverter	
Compressor	Motor output	kW	4.3	4.3	6.0	
	Case heater	kW	-	-	-	
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	411 (186)	411 (186)	411 (186)	411 (186)	
Heat exchanger	plate type		plate type		plate type	
	Water volume in plate	G	1.32	1.32	1.32	
	Water pressure Max.	I psi MPa	5.0 290 2.0	5.0 290 2.0	5.0 290 2.0	
	High pressure and distributor	in. (mm)	5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed
	Low pressure and distributor	in. (mm)	-	3/4 (19.05) Brazed	-	7/8 (22.2) Brazed
Optional parts		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 1010, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 The Heat Source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit.

\*9 Install the supplied insulation material to the unused drain-socket.

\*10 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*11 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQRY-P192ZSLMU-A1		PQRY-P216ZSLMU-A1	
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	192,000		216,000	
	*1 kW	56.3		63.3	
	Power input (575)	11.30		14.03	
	Current input (Rated)	12.6		15.6	
	BTU/h	183,000		206,000	
	kW	53.6		60.4	
	Power input (575)	10.40	10.98	12.93	13.24
	Current input (575)	11.6	12.2	14.4	14.7
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)	59~75°F (15~24°C) 50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	215,000		243,000	
	*2 kW	63.0		71.2	
	Power input (575)	11.02		12.88	
	Current input (Rated)	12.2		14.3	
	BTU/h	205,000		232,000	
	kW	60.1		68.0	
	Power input (575)	10.16	8.90	11.88	10.35
	Current input (575)	11.3	9.9	13.2	11.5
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)	59~81°F (15~27°C) 50~113°F (10~45°C)	
Indoor unit connectable	Total capacity Model/Quantity		50~150% of heat source unit capacity P04~P96/2~50	50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>		51.0		55.0
Refrigerant	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 for the part that exceeds 65 m) 1-1/8 (28.58) Brazed	
Set Model					
Model	PQRY-P96ZLMU-A1	PQRY-P96ZLMU-A1	PQRY-P120ZLMU-A1	PQRY-P120ZLMU-A1	
Minimum Circuit Ampacity	A	7	7	11	7
Maximum Overcurrent Protection	A	15	15	15	15
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522
		G/min (gpm)	25.4 + 25.4		25.4 + 25.4
		m³/h	5.76 + 5.76		5.76 + 5.76
		L/min	96 + 96		96 + 96
		cfrm	3.4 + 3.4		3.4 + 3.4
Operating volume range	Pressure drop	psi	3.48	3.48	3.48
		kPa	24	24	24
		G/h	793 + 793 ~ 1,902 + 1,902	793 + 793 ~ 1,902 + 1,902	
Compressor		G/min (gpm)	13.2 + 13.2 ~ 31.7 + 31.7	13.2 + 13.2 ~ 31.7 + 31.7	
		m³/h	3.0 + 3.0 ~ 7.2 + 7.2	3.0 + 3.0 ~ 7.2 + 7.2	
	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter	Inverter	Inverter
External finish	Motor output	kW	6.0	6.0	7.7
	Case heater	kW	-	-	6.0
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Compressor	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection
	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)
Net weight	lbs (kg)	411 (186)	411 (186)	411 (186)	411 (186)
Heat exchanger	plate type		plate type	plate type	plate type
	Water volume in plate	G	1.32	1.32	1.32
		l	5.0	5.0	5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0	290 2.0
	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
Optional parts		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 1010, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 The Heat Source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit.

\*9 Install the supplied insulation material to the unused drain-socket.

\*10 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*11 When the high pressure piping length is 65 m or less, use 7/8 (22.2) pipe. When the high pressure piping length exceeds 65 m, use 1-1/8 (28.58) pipe for the part that exceeds 65 m.

\*12 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZSLMU-A1

## ► Specifications



Heat Source Model		PQRY-P240ZSLMU-A1		PQRY-P288ZSLMU-A1	
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted
Power source		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	240,000		288,000
	*1	kW	70.3		84.4
	(575)	Power input	16.89		20.42
	(Rated)	Current input	A	18.8	22.7
		BTU/h	228,000		275,000
		kW	66.8		80.6
	(575)	Power input	kW	15.57	18.82
		Current input	A	17.3	21.43
				18.0	23.9
Temp. range of cooling	Indoor	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)		59~75°F (15~24°C) 50~113°F (10~45°C)
	Inlet water				
Heating capacity (Nominal)	*2	BTU/h	270,000		323,000
	*2	kW	79.1		94.7
	(575)	Power input	kW	14.58	17.50
	(Rated)	Current input	A	16.2	19.5
		BTU/h	258,000		308,000
		kW	75.6		90.3
	(575)	Power input	kW	13.45	16.13
		Current input	A	15.0	16.05
				13.4	17.9
Temp. range of heating	Indoor	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)		59~81°F (15~27°C) 50~113°F (10~45°C)
	Inlet water				
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model/Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	57.0		57.0	
Refrigerant	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		1-1/8 (28.58) Brazed
piping diameter	Low pressure	in. (mm)	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed

Set Model

Model	PQRY-P120ZLMU-A1	PQRY-P120ZLMU-A1	PQRY-P144ZLMU-A1	PQRY-P144ZLMU-A1
Minimum Circuit Ampacity	A	11	11	13
Maximum Overcurrent Protection	A	15	15	20
Inlet water	Water flow rate	G/h G/min (gpm) m³/h L/min cfm	1,522 + 1,522 25.4 + 25.4 5.76 + 5.76 96 + 96 3.4 + 3.4	1,902 + 1,902 31.7 + 31.7 7.20 + 7.20 120 + 120 4.2 + 4.2
	Pressure drop	psi kPa	3.48 24	3.48 24
	Operating volume range	G/h G/min (gpm) m³/h	793 + 793 ~ 1,902 + 1,902 13.2 + 13.2 ~ 31.7 + 31.7 3.0 + 3.0 ~ 7.2 + 7.2	1,189 + 1,189 ~ 3,054 + 3,054 19.8 + 19.8 ~ 50.9 + 50.9 4.5 + 4.5 ~ 11.6 + 11.6
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	7.7	9.5
	Case heater	kW	-	-
External finish	Galvanized steel sheets			
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection		Over-heat protection
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	411 (186)	411 (186)	512 (232)
Heat exchanger	plate type	plate type	plate type	plate type
	Water volume in plate	G l	1.32 5.0	1.32 5.0
	Water pressure Max.	psi MPa	290 2.0	290 2.0
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	3/4 (19.05) Brazed -	3/4 (19.05) Brazed 7/8 (22.2) Brazed
				7/8 (22.2) Brazed - 1-1/8 (28.58) Brazed
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016NU-GA1, 108, 1010, 1016NU-HA1 Sub BC controller: CMB-P104, 108NU-GB1, CMB-P1016NU-HB1		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 The Heat Source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit.

\*9 Install the supplied insulation material to the unused drain-socket.

\*10 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*11 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQRY-P312ZSLMU-A1	
Indoor Model		Non-Ducted	
Power source			3-phase 3-wire 575 V ±10% 60 Hz
Cooling capacity (Nominal)	*1 BTU/h	312,000	
	*1 kW	91.4	
	Power input (575)	kW	23.41
	Current input (575)	A	26.1
(Rated)	BTU/h	297,000	
	kW	87.0	
	Power input (575)	kW	21.59
	Current input (575)	A	24.0
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU/h	350,000	
	*2 kW	102.6	
	Power input (575)	kW	19.11
	Current input (575)	A	21.3
(Rated)	BTU/h	334,000	
	kW	97.9	
	Power input (575)	kW	17.62
	Current input (575)	A	19.6
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model/Quantity	50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	58.0	
Refrigerant	High pressure piping diameter	in. (mm)	
	Low pressure piping diameter	in. (mm)	
Set Model			
Model	PQRY-P168ZLMU-A1		PQRY-P144ZLMU-A1
Minimum Circuit Ampacity	A	16	13
Maximum Overcurrent Protection	A	25	20
Inlet water	Water flow rate	G/h	1,902 + 1,902
		G/min (gpm)	31.7 + 31.7
		m³/h	7.20 + 7.20
		L/min	120 + 120
		cfrm	4.2 + 4.2
	Pressure drop	psi	6.38
		kPa	44
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054
		G/min (gpm)	19.8 + 19.8 ~ 50.9 + 50.9
		m³/h	4.5 + 4.5 ~ 11.6 + 11.6
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter
	Motor output	kW	11.0
	Case heater	kW	-
External finish			
Galvanized steel sheets			
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection	
	Compressor	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	512 (232)	512 (232)
Heat exchanger	plate type		
	Water volume in plate	G	1.32
		I	5.0
	Water pressure Max.	psi	290
		MPa	2.0
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	7/8 (22.2) Brazed
		in. (mm)	-
Optional parts		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 The Heat Source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit.

\*9 Install the supplied insulation material to the unused drain-socket.

\*10 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*11 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F)

as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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

# HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZSLMU-A1



## ► Specifications

Heat Source Model		PQRY-P336ZSLMU-A1	
Indoor Model		Non-Ducted	
Power source			3-phase 3-wire 575 V ±10% 60 Hz
Cooling capacity (Nominal)	*1 BTU/h	336,000	
	*1 kW	98.5	
	Power input (575)	kW	26.84
	Current input (575)	A	29.9
(Rated)	BTU/h	320,000	
	kW	93.8	
	Power input (575)	kW	24.76
	Current input (575)	A	27.6
Temp. range of cooling	Indoor Inlet water	W.B. °F	59~75°F (15~24°C) 50~113°F (10~45°C)
Heating capacity (Nominal)	*2 BTU/h	378,000	
	*2 kW	110.8	
	Power input (575)	kW	20.77
	Current input (575)	A	23.1
(Rated)	BTU/h	361,000	
	kW	105.8	
	Power input (575)	kW	19.16
	Current input (575)	A	21.3
Temp. range of heating	Indoor Inlet water	D.B. °F	59~81°F (15~27°C) 50~113°F (10~45°C)
Indoor unit connectable	Total capacity Model/Quantity	50~150% of heat source unit capacity P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	59.0	
Refrigerant	High pressure piping diameter	in. (mm)	
	Low pressure piping diameter	in. (mm)	
Set Model			
Model		PQRY-P168ZLMU-A1	PQRY-P168ZLMU-A1
Minimum Circuit Ampacity		16	16
Maximum Overcurrent Protection		25	25
Inlet water	Water flow rate	G/h	1,902 + 1,902
		G/min (gpm)	31.7 + 31.7
		m³/h	7.20 + 7.20
		L/min	120 + 120
		cfrm	4.2 + 4.2
	Pressure drop	psi	6.38
		kPa	44
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054
Compressor		G/min (gpm)	19.8 + 19.8 ~ 50.9 + 50.9
		m³/h	4.5 + 4.5 ~ 11.6 + 11.6
	Type x Quantity	Inverter scroll hermetic compressor x 1	
	Starting method	Inverter	Inverter
External finish	Motor output	kW	11.0
	Case heater	kW	-
	Galvanized steel sheets		
External dimension H x W x D		in.	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection	
	Compressor	Over-heat protection	Over-heat protection
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	512 (232)	512 (232)
Heat exchanger	plate type		
	Water volume in plate	G	1.32
		I	5.0
	Water pressure Max.	psi	290
		MPa	2.0
Pipe between unit and distributor	High pressure Low pressure	in. (mm)	7/8 (22.2) Brazed - 7/8 (22.2) Brazed 1-1/8 (28.58) Brazed
Optional parts		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-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	Water temperature
Cooling	81°F D.B./66°F W.B. (27°C D.B./19°C W.B.)	86°F (30°C)
Heating	68°F D.B. (20°C D.B.)	68°F (20°C)

\*3 The ambient temperature of the Heat Source Unit needs to be kept below 104°F.D.B. (40°C.D.B.)

\*4 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*5 The Heat Source Unit should not be installed at outdoor.

\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*7 Be sure to provide interlocking for the unit operation and water circuit.

\*8 The Heat Source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit.

\*9 Install the supplied insulation material to the unused drain-socket.

\*10 When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*11 Inlet Water Temperature Range can be as low -5°C (23°F) and Anti-freeze shall be added if inlet water temperature is below 10°C (50°F) as per recommended concentration and system settings. Please consult with your local representative and technical literature for more details.

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