



CITY-MULTI®
WATER SOURCE UNITS

What is Water-Cooled?

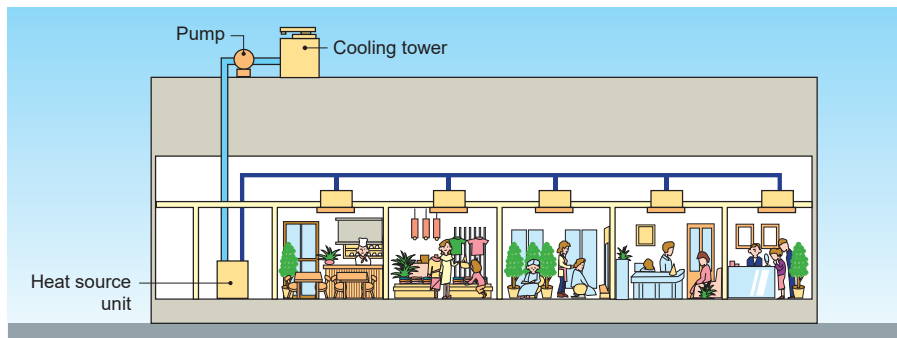
A unique system from Mitsubishi Electric

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 50°F–113°F (10°C–45°C) can be used.

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

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

- Buildings that require year-round cooling

For example,

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

- Installation image



Double heat recovery (WR2-Series)

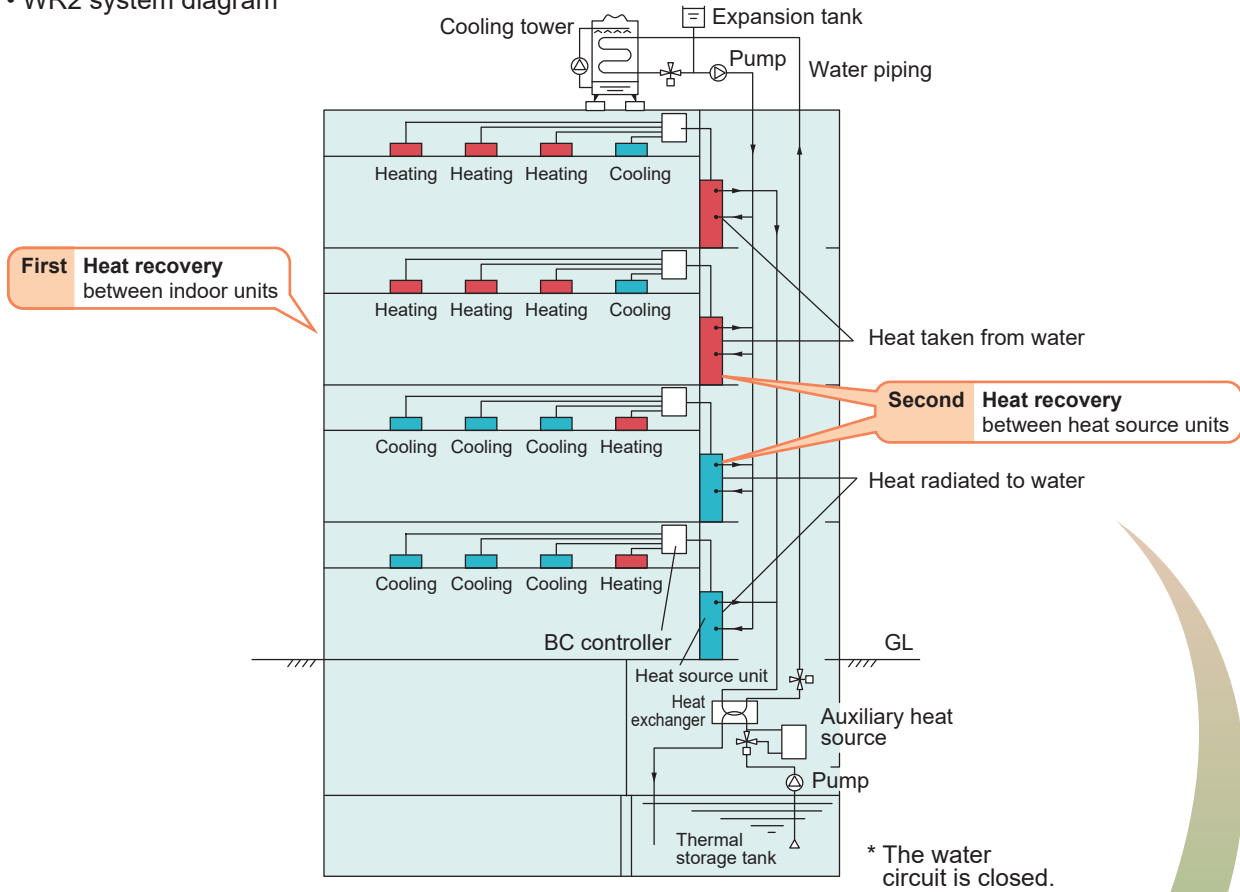
Mitsubishi Electric now offers double heat recovery operation.

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

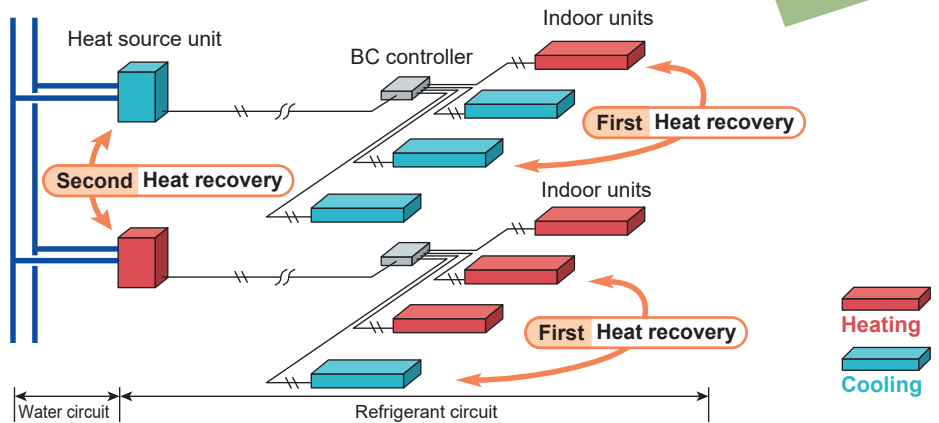
The second heat recovery is within the water loop, where heat is recovered between the PQRV units.

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)

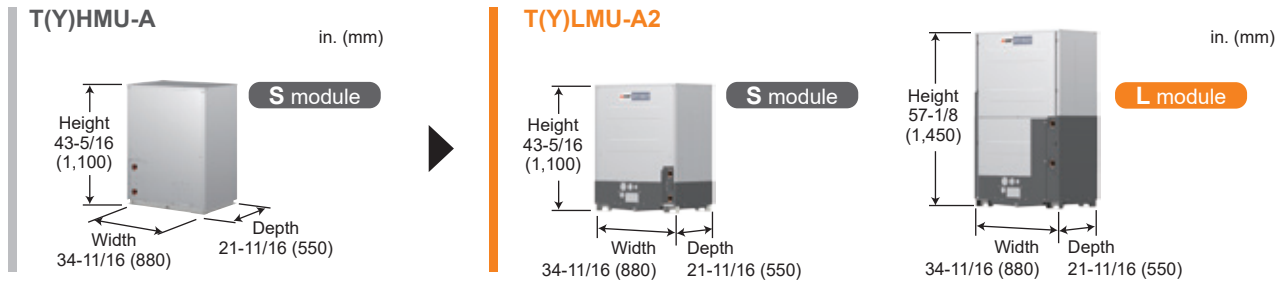


Water-cooled system



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-A2	Single	S	S	S	L	L	L	L	L					
PQHY-P T(Y)HMU-A	Single	S	S	S										
PQHY-P T(Y)SLMU-A2	Combination				S+S	S+S	S+S	S+S	S+S		L+L	L+L	L+L	L+L
PQHY-P T(Y)SHMU-A	Combination				S+S	S+S	S+S	S+S	S+S	S+S+S	S+S+S	S+S+S	S+S+S	S+S+S

<WR2-Series>

Single-module units available up to P240

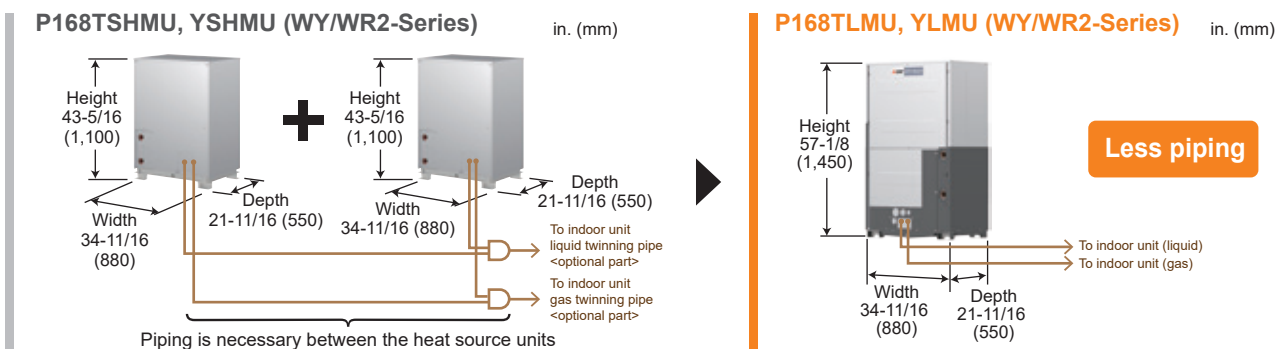
Large capacities up to P336

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

Advantages of single modules in a wide range of capacities

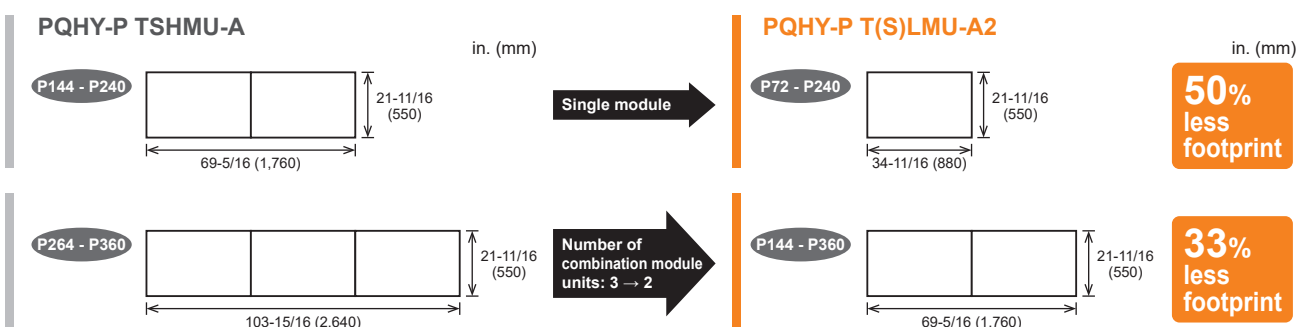
• Less piping

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



• Less footprint

Less footprint by the enhanced lineup of single module units.



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.

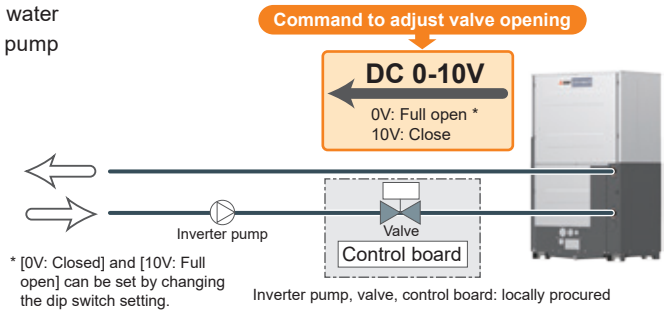
• Control of water flow rate

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.

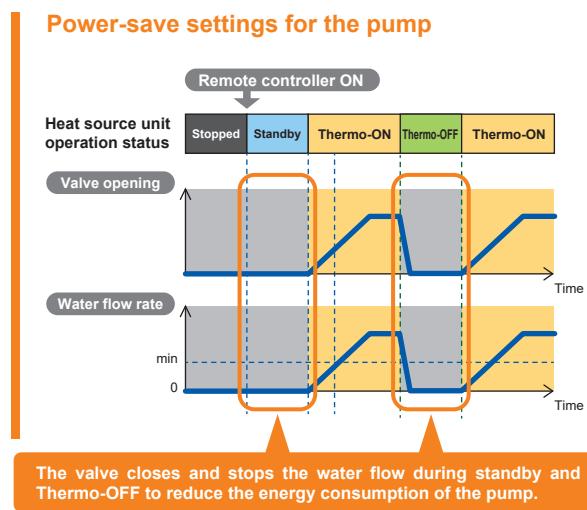
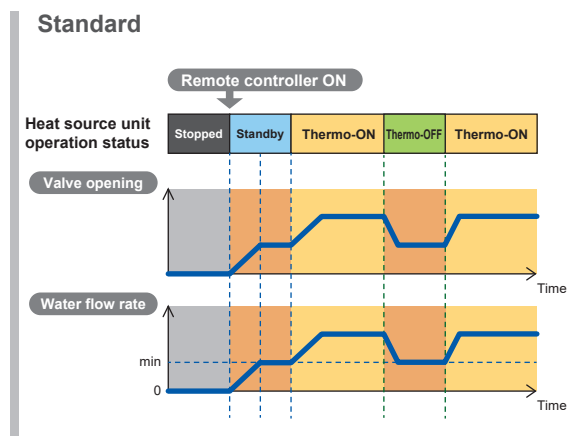


Power-save function

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

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

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



WY-Series

Cooling or Heating Heat pump

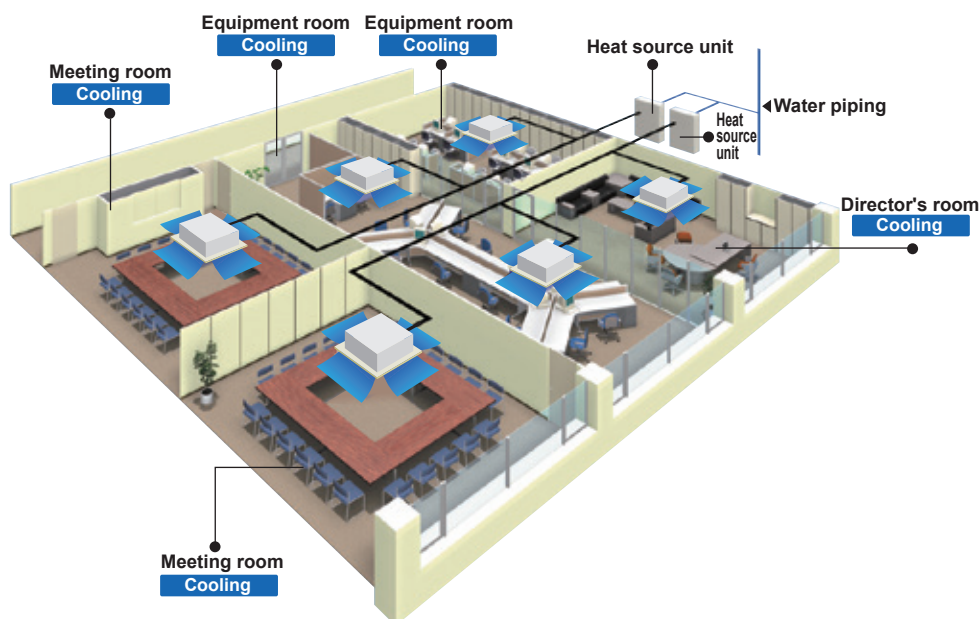
- Optional parts P.132
- Specifications 208-230V, 460V **PQHY-P T(S)LMU-A2/Y(S)LMU-A2** ... P.133 - P.146
- 575V **PQHY-P Z(S)LMU-B** P.147 - P.152



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

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

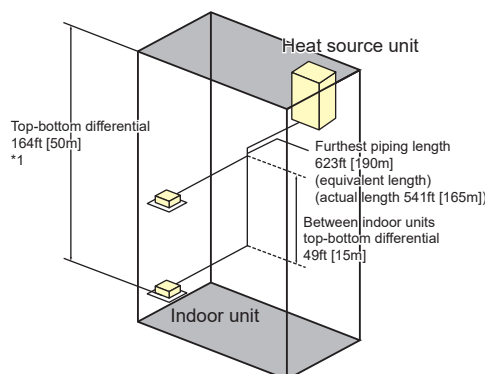
• Installation image (WY-Series)



• System Pipe Lengths

[P72-P360 (WY-Series)]

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



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

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

Optional parts

• For WY-Series

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

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



► Specifications

Heat Source Model		PQHY-P72TLMU-A2		PQHY-P96TLMU-A2		PQHY-P120TLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	72,000		96,000		120,000		
	*1	21.1		28.1		35.2		
(208-230)	Power input	3.61		5.21		7.51		
	Current input	11.1-10.0		16.0-14.5		23.1-20.9		
(Rated)		69,000		92,000		115,000		
		20.2		27.0		33.7		
(208-230)	Power input	3.60	3.59	5.22	5.45	7.38	7.77	
	Current input	11.1-10.0	11.0-10.0	16.0-14.5	16.8-15.2	22.7-20.5	23.9-21.6	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	80,000		108,000		135,000		
	*2	23.4		31.7		39.6		
(208-230)	Power input	4.04		5.64		7.09		
	Current input	12.4-11.2		17.3-15.7		21.8-19.7		
(Rated)		76,000		103,000		129,000		
		22.3		30.2		37.8		
(208-230)	Power input	3.78	3.36	4.49	4.48	5.78	5.89	
	Current input	11.6-10.5	10.3-9.3	13.8-12.5	13.8-12.4	17.8-16.1	18.1-16.4	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		
	Model / Quantity	P04-P72/1~18		P04-P96/1~24		P04-P96/1~30		
Sound pressure level (measured in anechoic room)		60.5		65.0		71.0		
Refrigerant piping diameter	Liquid pipe	in. (mm) 3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)		
	Gas pipe	in. (mm) 3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	17-16		25-22		35-32		
Maximum Overcurrent Protection	A	30-25		45-35		60-50		
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m ³ / h	5.45		5.76		5.76	
		L / min	91		96		96	
	Pressure drop	cfm	3.2		3.4		3.4	
		psi	3.48		3.48		3.48	
		kPa	24		24		24	
Operating volume range	G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902		
	G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7		
	m ³ / h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 4.3		6.0		7.7		
	Case heater	kW 0.035		0.035		0.035		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	371 (168)		371 (168)		371 (168)		
Heat exchanger		plate type		plate type		plate type		
	Water volume in plate	G	1.22		1.22		1.22	
		l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
Max.	MPa	2.0		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202SS-G2 Header: CMY-Y104/108/1010C-G		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

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

Notes:

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

	Indoor	Water temperature
Cooling	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)

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Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQHY-P216TLMU-A2		PQHY-P240TLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	216,000		224,000		
	*1 kW	63.3		65.7		
(208-230)	Power input kW	19.23		21.14		
	Current input A	59.3-53.6		65.1-58.9		
(Rated)	BTU / h	206,000		214,000		
	kW	60.4		62.7		
(208-230)	Power input kW	18.12	17.22	18.67	18.61	
	Current input A	55.8-50.5	53.1-48.0	57.5-52.0	57.3-51.9	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000		
	*2 kW	71.2		79.1		
(208-230)	Power input kW	13.04		15.12		
	Current input A	40.2-36.3		46.6-42.1		
(Rated)	BTU / h	232,000		258,000		
	kW	68.0		75.6		
(208-230)	Power input kW	11.78	12.07	13.75	14.48	
	Current input A	36.3-32.8	37.2-33.6	42.4-38.3	44.6-40.3	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		
Model / Quantity		P04~P96/2~50		P04~P96/2~50		
Sound pressure level (measured in anechoic room)	dB <A>	72.5		73.0		
Refrigerant piping diameter	Liquid pipe in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		
	Gas pipe in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	78-78		79-78		
Maximum Overcurrent Protection	A	125-125		125-125		
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m ³ / h	11.52		11.52	
		L / min	192		192	
	Pressure drop	cfm	6.8		6.8	
		psi	6.53		6.53	
Operating volume range	kPa	45		45		
	G / h	1,585 ~ 3,804		1,585 ~ 3,804		
	G / min	26.4 ~ 63.4		26.4 ~ 63.4		
	m ³ / h	6.0 ~ 14.4		6.0 ~ 14.4		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		
	Motor output kW	14.5		16.1		
	Case heater kW	0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)		
Net weight	lbs (kg)	538 (244)		538 (244)		
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
MPa		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model			PQHY-P144TSLMU-A2		PQHY-P168TSLMU-A2		PQHY-P192TSLMU-A2	
Indoor Model			Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000		192,000	
	*1	kW	42.2		49.2		56.3	
(208-230)	Power input	kW	7.11		9.33		11.30	
	Current input	A	21.9-19.8		28.7-26.0		34.8-31.5	
(Rated)		BTU / h	138,000		160,000		184,000	
		kW	40.4		46.9		53.9	
(208-230)	Power input	kW	7.13	8.17	8.87	9.66	10.57	11.54
	Current input	A	21.9-19.8	25.1-22.7	27.3-24.7	29.7-26.9	32.5-29.4	35.5-32.1
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000		215,000	
	*2	kW	46.9		55.1		63.0	
(208-230)	Power input	kW	7.45		9.34		11.02	
	Current input	A	22.9-20.7		28.8-26.0		33.9-30.7	
(Rated)		BTU / h	152,000		178,000		204,000	
		kW	44.5		52.2		59.8	
(208-230)	Power input	kW	6.50	7.29	8.05	8.04	9.53	8.82
	Current input	A	20.0-18.1	22.4-20.3	24.8-22.4	24.7-22.4	29.3-26.5	27.2-24.6
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model / Quantity		P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)		dB <A>	63.5		66.5		68.0	
Refrigerant	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-P72TLMU-A2	PQHY-P72TLMU-A2	PQHY-P96TLMU-A2	PQHY-P72TLMU-A2	PQHY-P96TLMU-A2	PQHY-P96TLMU-A2
Minimum Circuit Ampacity	A		17-16	17-16	25-22	17-16	25-22	25-22
Maximum Overcurrent Protection	A		30-25	30-25	45-35	30-25	45-35	45-35
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m ³ / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
	kPa	24	24	24	24	24	24	
Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		
	G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		
	m ³ / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	4.3		6.0		4.3		
	Case heater	0.035		0.035		0.035		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
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)		
		371 (168)		371 (168)		371 (168)		
Net weight	lbs (kg)	371 (168)		371 (168)		371 (168)		
Heat exchanger		plate type	plate type	plate type	plate type	plate type	plate type	
	Water volume	G	1.22	1.22	1.22	1.22	1.22	
	in plate	l	4.6	4.6	4.6	4.6	4.6	
	Water pressure	psi	290	290	290	290	290	
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	
	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	
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 Cooling and heating conditions (Test conditions are based on AHRI 1230)

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

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

Set Model

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

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model			PQHY-P288TSLMU-A2				PQHY-P312TSLMU-A2			
Indoor Model			Non-Ducted		Ducted		Non-Ducted		Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz				3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU / h	288,000				312,000			
		*1 kW	84.4				91.4			
(208-230)	Power input	kW	20.42				23.41			
		A	62.9-56.9				72.1-65.2			
(Rated)	BTU / h	276,000				298,000				
		kW	80.9				87.3			
(208-230)	Power input	kW	20.11		22.67		22.45		24.98	
		A	62.0-56.0		69.9-63.2		69.2-62.6		77.0-69.6	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				59~75°F (15~24°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Heating capacity (Nominal)	*2	BTU / h	323,000				350,000			
		*2 kW	94.7				102.6			
(208-230)	Power input	kW	17.50				19.11			
		A	53.9-48.8				58.9-53.3			
(Rated)	BTU / h	304,000				334,000				
		kW	89.1				97.9			
(208-230)	Power input	kW	15.48		15.36		17.09		17.12	
		A	47.7-43.1		47.3-42.8		52.7-47.6		52.8-47.7	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				59~81°F (15~27°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity				50~130% of heatsource unit capacity			
Model / Quantity		P04~P96/2~50				P04~P96/2~50				
Sound pressure level (measured in anechoic room)	dB <A>		71.0				72.5			
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed				3/4 (19.05) Brazed			
piping diameter	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed				1-3/8 (34.93) Brazed			
Set Model										
Model			PQHY-P144TLMU-A2		PQHY-P144TLMU-A2		PQHY-P168TLMU-A2		PQHY-P144TLMU-A2	
Minimum Circuit Ampacity			A		40-40		40-40		50-48	
Maximum Overcurrent Protection			A		70-70		70-70		90-80	
Inlet water	Water flow rate	G / h	1,902 + 1,902				1,902 + 1,902			
		G / min	31.7 + 31.7				31.7 + 31.7			
		m ³ / h	7.20 + 7.20				7.20 + 7.20			
		L / min	120 + 120				120 + 120			
		cfm	4.2 + 4.2				4.2 + 4.2			
	Pressure drop	psi	6.38		6.38		6.38		6.38	
kPa		44		44		44		44		
Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054				1,189 + 1,189 ~ 3,054 + 3,054				
	G / min	19.8 + 19.8 ~ 50.9 + 50.9				19.8 + 19.8 ~ 50.9 + 50.9				
	m ³ / h	4.5 + 4.5 ~ 11.6 + 11.6				4.5 + 4.5 ~ 11.6 + 11.6				
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1				Inverter scroll hermetic compressor x 1			
	Starting method		Inverter				Inverter			
	Motor output		9.5				9.5			
	Case heater		0.045				0.045			
External finish			Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D			in.		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
			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)			
	Inverter circuit		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)		470 (213)		470 (213)		470 (213)		470 (213)	
Heat exchanger	plate type		plate type				plate type			
	Water volume in plate	G	1.22		1.22		1.22		1.22	
		l	4.6		4.6		4.6		4.6	
	Water pressure Max.	psi	290		290		290		290	
MPa		2.0		2.0		2.0		2.0		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G				Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQHY-P336TSLMU-A2		PQHY-P360TSLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	336,000		360,000		
	*1 kW	98.5		105.5		
(208-230)	Power input kW	26.84		29.43		
	Current input A	82.7-74.8		90.7-82.0		
(Rated)	BTU / h	320,000		344,000		
	kW	93.8		100.8		
(208-230)	Power input kW	25.14	27.11	27.28	28.91	
	Current input A	77.5-70.1	83.6-75.6	84.1-76.0	89.1-80.6	
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	378,000		405,000		
	*2 kW	110.8		118.7		
(208-230)	Power input kW	20.77		22.85		
	Current input A	64.0-57.9		70.4-63.7		
(Rated)	BTU / h	360,000		386,000		
	kW	105.5		113.1		
(208-230)	Power input kW	18.49	19.10	20.56	20.71	
	Current input A	57.0-51.5	58.9-53.2	63.4-57.3	63.8-57.7	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		
Model / Quantity		P04~P96/2~50		P04~P96/2~50		
Sound pressure level (measured in anechoic room)	dB <A>	73.0		74.5		
Refrigerant piping diameter	Liquid pipe in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed		
	Gas pipe in. (mm)	1-5/8 (41.28) Brazed		1-5/8 (41.28) Brazed		
Set Model						
Model		PQHY-P168TLMU-A2	PQHY-P168TLMU-A2	PQHY-P192TLMU-A2	PQHY-P168TLMU-A2	
Minimum Circuit Ampacity	A	50-48		66-63	50-48	
Maximum Overcurrent Protection	A	90-80		110-110	90-80	
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7	
		m ³ / h	7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
kPa		44	44	44	44	
Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		
	G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		
	m ³ / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		
	Motor output kW	11.0		12.4		
	Case heater kW	0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)	470 (213)		470 (213)		
Heat exchanger	Water volume in plate	G	1.22		1.22	
		l	4.6		4.6	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Pipe between unit and distributor	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		
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

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

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

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

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQHY-P216YLMU-A2		PQHY-P240YLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	216,000		224,000		
	*1 kW	63.3		65.7		
(460)	Power input kW	19.23		21.14		
	Current input A	26.8		29.4		
(Rated)	BTU / h	206,000		214,000		
	kW	60.4		62.7		
(460)	Power input kW	18.12	17.22	18.67	18.61	
	Current input A	25.2	24.0	26.0	25.9	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000		
	*2 kW	71.2		79.1		
(460)	Power input kW	13.04		15.12		
	Current input A	18.1		21.0		
(Rated)	BTU / h	232,000		258,000		
	kW	68.0		75.6		
(460)	Power input kW	11.78	12.07	13.75	14.48	
	Current input A	16.4	16.8	19.1	20.1	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity 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)	Model / Quantity	P04~P96/2~50		P04~P96/2~50		
Sound pressure level (measured in anechoic room)	dB <A>	72.5		73.0		
Refrigerant piping diameter	Liquid pipe in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		
	Gas pipe in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	37		40		
Maximum Overcurrent Protection	A	60		70		
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m ³ / h	11.52		11.52	
		L / min	192		192	
	Pressure drop	cfm	6.8		6.8	
		psi	6.53		6.53	
Operating volume range	kPa	45		45		
	G / h	1,585 ~ 3,804		1,585 ~ 3,804		
	G / min	26.4 ~ 63.4		26.4 ~ 63.4		
	m ³ / h	6.0 ~ 14.4		6.0 ~ 14.4		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		
	Motor output kW	14.5		16.1		
	Case heater kW	0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)		
Net weight	lbs (kg)	554 (251)		554 (251)		
Heat exchanger		plate type		plate type		
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
MPa		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

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

Set Model

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

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQHY-P216YSLMU-A2				PQHY-P240YSLMU-A2			
Indoor Model		Non-Ducted		Ducted		Non-Ducted		Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz				3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (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		230,000				
		kW	60.4		67.4				
(460)	Power input	kW	13.09	13.88	15.73	16.79			
	Current input	A	18.2	19.3	21.9	23.4			
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)				
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)				
Heating capacity (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	11.11	10.04	12.83	11.67			
	Current input	A	15.4	14.0	17.8	16.2			
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)				
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)				
Indoor unit connectable	Total capacity	50~130% 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)	Model / Quantity	72.0				74.0			
Refrigerant	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed				
piping diameter	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed				

Set Model

Model		PQHY-P120YLMU-A2		PQHY-P96YLMU-A2		PQHY-P120YLMU-A2		PQHY-P120YLMU-A2		
Minimum Circuit Ampacity	A	16		11		16		16		
Maximum Overcurrent Protection	A	25		15		25		25		
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522					
		G / min	25.4 + 25.4		25.4 + 25.4					
		m ³ / h	5.76 + 5.76		5.76 + 5.76					
		L / min	96 + 96		96 + 96					
		cfm	3.4 + 3.4		3.4 + 3.4					
	Pressure drop	psi	3.48		3.48		3.48			
	kPa	24		24		24				
Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902						
	G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7						
	m ³ / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2						
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1				Inverter scroll hermetic compressor x 1				
	Starting method	Inverter				Inverter				
	Motor output	7.7		6.0		7.7		7.7		
	Case heater	0.035		0.035		0.035		0.035		
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets			
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	400 (181)		400 (181)		400 (181)		400 (181)		
Heat exchanger	Water volume in plate	G	1.22		1.22		1.22		1.22	
		l	4.6		4.6		4.6		4.6	
	Water pressure Max.	psi	290		290		290		290	
		MPa	2.0		2.0		2.0		2.0	
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		1/2 (12.7) Brazed		1/2 (12.7) Brazed		1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G				Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G					

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQHY-P288YSLMU-A2		PQHY-P312YSLMU-A2	
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted
Power source		3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1 BTU / h	288,000			
	*1 kW	84.4			
(460)	Power input kW	20.42			
	Current input A	28.4			
(Rated)	BTU / h	276,000			
	kW	80.9			
(460)	Power input kW	20.11	22.67	22.45	24.98
	Current input A	28.0	31.6	31.3	34.8
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)			
	Inlet water °F	50~113°F (10~45°C)			
Heating capacity (Nominal)	*2 BTU / h	323,000			
	*2 kW	94.7			
(460)	Power input kW	17.50			
	Current input A	24.4			
(Rated)	BTU / h	304,000			
	kW	89.1			
(460)	Power input kW	15.48	15.36	17.09	17.12
	Current input A	21.5	21.4	23.8	23.8
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)			
	Inlet water °F	50~113°F (10~45°C)			
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity			
Model / Quantity		P04~P96/2~50			
Sound pressure level (measured in anechoic room)	dB <A>	71.0			
Refrigerant piping diameter	Liquid pipe in. (mm)	3/4 (19.05) Brazed			
	Gas pipe in. (mm)	1-3/8 (34.93) Brazed			

Set Model

Model	PQHY-P144YLMU-A2	PQHY-P144YLMU-A2	PQHY-P168YLMU-A2	PQHY-P144YLMU-A2	
Minimum Circuit Ampacity	A	19	19	26	
Maximum Overcurrent Protection	A	30	30	45	
Inlet water	Water flow rate	G / h	1,902 + 1,902		
		G / min	31.7 + 31.7		
		m ³ / h	7.20 + 7.20		
		L / min	120 + 120		
		cfm	4.2 + 4.2		
	Pressure drop	psi	6.38	6.38	6.38
kPa		44	44	44	
Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054			
	G / min	19.8 + 19.8 ~ 50.9 + 50.9			
	m ³ / h	4.5 + 4.5 ~ 11.6 + 11.6			
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1			
	Starting method	Inverter			
	Motor output kW	9.5			
	Case heater kW	0.045			
External finish	Galvanized steel sheets				
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	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			
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)			
Net weight	lbs (kg)	497 (225)			
	Heat exchanger	plate type	plate type		
		Water volume in plate	1.22		
		Water pressure Max.	290		
Pipe between unit and distributor	Liquid pipe in. (mm)	1/2 (12.7) Brazed			
	Gas pipe in. (mm)	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				

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQHY-P336YSLMU-A2				PQHY-P360YSLMU-A2			
Indoor Model		Non-Ducted		Ducted		Non-Ducted		Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz				3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (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		344,000				
		kW	93.8		100.8				
(460)	Power input	kW	25.14	27.11	27.28	28.91			
	Current input	A	35.0	37.8	38.0	40.3			
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	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	360,000		386,000				
		kW	105.5		113.1				
(460)	Power input	kW	18.49	19.10	20.56	20.71			
	Current input	A	25.7	26.6	28.6	28.8			
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)				
	Inlet water	°F	50~113°F (10~45°C)		50~113°F (10~45°C)				
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity				50~130% of heatsource unit capacity			
Model / Quantity	P04~P96/2~50				P04~P96/2~50				
Sound pressure level (measured in anechoic room)	dB <A>	73.0				74.5			
Refrigerant	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-P168YSLMU-A2	PQHY-P168YSLMU-A2	PQHY-P192YSLMU-A2	PQHY-P168YSLMU-A2	
Minimum Circuit Ampacity	A	26	26	27	26	
Maximum Overcurrent Protection	A	45	45	45	45	
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7	
		m ³ / h	7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38
kPa		44	44	44	44	
Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		
	G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		
	m ³ / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		
	Motor output	11.0		12.4		
	Case heater	0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)	497 (225)		497 (225)		
Heat exchanger	Water volume in plate	G	1.22		1.22	
		l	4.6		4.6	
	Water pressure Max.	psi	290		290	
		MPa	2.0		2.0	
Pipe between unit and distributor	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	
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WY-Series (575V) PQHY-P ZLMU-B



► Specifications

Heat Source Model		PQHY-P72ZLMU-B		PQHY-P96ZLMU-B		PQHY-P120ZLMU-B		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	72,000		96,000		120,000		
	*1	21.1		28.1		35.2		
(575)	Power input	3.61		5.21		7.51		
	Current input	4.0		5.8		8.3		
(Rated)	BTU/h	69,000		92,000		115,000		
	kW	20.2		27.0		33.7		
(575)	Power input	3.60	3.59	5.22	5.45	7.38	7.77	
	Current input	4.0	4.0	5.8	6.0	8.2	8.6	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	80,000		108,000		135,000		
	*2	23.4		31.7		39.6		
(575)	Power input	4.04		5.64		7.09		
	Current input	4.5		6.2		7.9		
(Rated)	BTU/h	76,000		103,000		129,000		
	kW	22.3		30.2		37.8		
(575)	Power input	3.78	3.36	4.49	4.48	5.78	5.89	
	Current input	4.2	3.7	5.0	4.9	6.4	6.5	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		
	Model/Quantity	P04~P72/1~18		P04~P96/1~24		P04~P96/1~30		
Sound pressure level (measured in anechoic room)	dB <A>	60.5		65.0		71.0		
Refrigerant piping diameter	Liquid pipe	in. (mm) 3/8 (9.52) Brazed		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 90 m)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, total length >= 40 m)		
	Gas pipe	in. (mm) 3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	6		9		13		
Maximum Overcurrent Protection	A	15		15		20		
Inlet water	Water flow rate	G/h	1,440		1,522		1,522	
		G/min	24		25.4		25.4	
		m³/h	5.45		5.76		5.76	
		L/min	91		96		96	
	Pressure drop	cfm	3.2		3.4		3.4	
		psi	3.48		3.48		3.48	
	Operating volume range	kPa	24		24		24	
		G/h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
	G/min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7		
	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 0.035		0.035		0.035		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	400 (181)		400 (181)		400 (181)		
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
Max.	MPa	2.0		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT

WY-Series (575V)

PQHY-P ZLMU-B



► Specifications

Heat Source Model		PQHY-P144ZLMU-B		PQHY-P168ZLMU-B		PQHY-P192ZLMU-B		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	144,000		168,000		192,000		
	*1	42.2		49.2		56.3		
(575)	Power input	8.78		12.05		15.05		
	Current input	9.7		13.4		16.7		
(Rated)	BTU/h	138,000		160,000		184,000		
	kW	40.4		46.9		53.9		
(575)	Power input	9.44	10.12	11.98	12.47	15.17	15.00	
	Current input	10.5	11.2	13.3	13.9	16.9	16.7	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	160,000		188,000		215,000		
	*2	46.9		55.1		63.0		
(575)	Power input	8.11		9.86		11.90		
	Current input	9.0		11.0		13.2		
(Rated)	BTU/h	152,000		178,000		204,000		
	kW	44.5		52.2		59.8		
(575)	Power input	7.29	7.92	8.86	9.66	10.78	11.53	
	Current input	8.1	8.8	9.8	10.7	12.0	12.8	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		
	Model/Quantity	P04-P96/1~36		P04-P96/1~42		P04-P96/1~48		
Sound pressure level (measured in anechoic room)	dB <A>	68.0		70.0		72.0		
Refrigerant piping diameter	Liquid pipe	in. (mm) 1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed		
	Gas pipe	in. (mm) 1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	15		21		26		
Maximum Overcurrent Protection	A	25		35		45		
Inlet water	Water flow rate	G/h	1,902		1,902		1,902	
		G/min	31.7		31.7		31.7	
		m ³ /h	7.20		7.20		7.20	
		L/min	120		120		120	
	Pressure drop	cfm	4.2		4.2		4.2	
		psi	6.38		6.38		6.38	
		kPa	44		44		44	
Operating volume range	G/h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054		
	G/min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9		
	m ³ /h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 9.5		11.0		12.4		
	Case heater	kW 0.045		0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)	499 (226)		499 (226)		499 (226)		
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
Max.	MPa	2.0		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G		

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WY-Series (575V) PQHY-P ZSLMU-B



► Specifications

Heat Source Model		PQHY-P144ZSLMU-B		PQHY-P168ZSLMU-B		PQHY-P192ZSLMU-B	
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted
Power source		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU/h	144,000		168,000		192,000	
	*1 kW	42.2		49.2		56.3	
(575)	Power input kW	7.11		9.33		11.30	
	Current input A	7.9		10.4		12.6	
(Rated)	BTU/h	138,000		160,000		184,000	
	kW	40.4		46.9		53.9	
(575)	Power input kW	7.13	8.17	8.87	9.66	10.57	11.54
	Current input A	7.9	9.1	9.8	10.7	11.7	12.8
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	160,000		188,000		215,000	
	*2 kW	46.9		55.1		63.0	
(575)	Power input kW	7.45		9.34		11.02	
	Current input A	8.3		10.4		12.2	
(Rated)	BTU/h	152,000		178,000		204,000	
	kW	44.5		52.2		59.8	
(575)	Power input kW	6.50	7.29	8.05	8.04	9.53	8.82
	Current input A	7.2	8.1	8.9	8.9	10.6	9.8
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~130% of heatsource unit capacity		50~130% of heatsource unit capacity		50~130% of heatsource unit capacity	
	Model/Quantity	P04~P96/1~36		P04~P96/1~42		P04~P96/1~48	
Sound pressure level (measured in anechoic room)	dB <A>	63.5		66.5		68.0	
Refrigerant piping diameter	Liquid pipe in. (mm)	1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	

Set Model		PQHY-P72ZLMU-B	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P96ZLMU-B	
Minimum Circuit Ampacity	A	6	6	9	6	9	9	
Maximum Overcurrent Protection	A	15	15	15	15	15	15	
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G/min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m³/h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
	kPa	24	24	24	24	24	24	
Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		
	G/min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		
	m³/h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		
Compressor	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		
	Case heater kW	0.035		0.035		0.035		
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	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
Refrigerant	Compressor	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)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	
Heat exchanger		plate type	plate type	plate type	plate type	plate type	plate type	
	Water volume in plate	G	1.22	1.22	1.22	1.22	1.22	
		l	4.6	4.6	4.6	4.6	4.6	
	Water pressure Max.	psi	290	290	290	290	290	
	MPa	2.0	2.0	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	Liquid pipe in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed	
	Gas pipe in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010C-G							

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WY-Series (575V) PQHY-P ZSLMU-B



► Specifications

Heat Source Model			PQHY-P216ZSLMU-B				PQHY-P240ZSLMU-B			
Indoor Model			Non-Ducted		Ducted		Non-Ducted		Ducted	
Power source			3-phase 3-wire 575 V ±10% 60 Hz				3-phase 3-wire 575 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	216,000				240,000			
		*1 kW	63.3				70.3			
(575)	Power input	kW	14.03				16.89			
		Current input	A		15.6		18.8		18.8	
(Rated)	Power input	BTU/h	206,000				230,000			
		kW	60.4				67.4			
(575)	Power input	kW	13.09		13.88		15.73		16.79	
		Current input	A		14.6		17.5		18.7	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				59~75°F (15~24°C)			
		Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)		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			
		Current input	A		14.3		16.2		16.2	
(Rated)	Power input	BTU/h	232,000				258,000			
		kW	68.0				75.6			
(575)	Power input	kW	11.11		10.04		12.83		11.67	
		Current input	A		12.3		14.3		13.0	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				59~81°F (15~27°C)			
		Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity				50~130% of heatsource unit capacity			
	Model/Quantity		P04~P96/2~50				P04~P96/2~50			
Sound pressure level (measured in anechoic room)		dB <A>	72.0				74.0			
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed				5/8 (15.88) Brazed			
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed				1-1/8 (28.58) Brazed			
Set Model			PQHY-P120ZLMU-B				PQHY-P120ZLMU-B			
Minimum Circuit Ampacity		A	13		9		13		13	
Maximum Overcurrent Protection		A	20		15		20		20	
Inlet water	Water flow rate	G/h	1,522 + 1,522				1,522 + 1,522			
		G/min	25.4 + 25.4				25.4 + 25.4			
		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		3.48	
kPa		24		24		24		24		
Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902				793 + 793 ~ 1,902 + 1,902				
	G/min	13.2 + 13.2 ~ 31.7 + 31.7				13.2 + 13.2 ~ 31.7 + 31.7				
	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			
	Motor output		kW		7.7		6.0		7.7	
	Case heater		kW		0.035		0.035		0.035	
External finish			Galvanized steel sheets				Galvanized steel sheets			
External dimension H x W x D		in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	400 (181)		400 (181)		400 (181)		400 (181)		
Heat exchanger	plate type		plate type				plate type			
	Water volume in plate	G	1.22		1.22		1.22		1.22	
		l	4.6		4.6		4.6		4.6	
	Water pressure Max.	psi	290		290		290		290	
MPa		2.0		2.0		2.0		2.0		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		1/2 (12.7) Brazed		1/2 (12.7) Brazed		1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G				Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G			

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WY-Series (575V) PQHY-P ZSLMU-B



► Specifications

Heat Source Model			PQHY-P288ZSLMU-B				PQHY-P312ZSLMU-B			
Indoor Model			Non-Ducted		Ducted		Non-Ducted		Ducted	
Power source			3-phase 3-wire 575 V ±10% 60 Hz				3-phase 3-wire 575 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	288,000				312,000			
		*1 kW	84.4				91.4			
(575)	Power input	kW	20.42				23.41			
		A	22.7				26.1			
(Rated)	BTU/h	276,000				298,000				
		kW	80.9				87.3			
(575)	Power input	kW	20.11	22.67		22.45	24.98			
		A	22.4	25.2		25.0	27.8			
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				59~75°F (15~24°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Heating capacity (Nominal)	*2	BTU/h	323,000				350,000			
		*2 kW	94.7				102.6			
(575)	Power input	kW	17.50				19.11			
		A	19.5				21.3			
(Rated)	BTU/h	304,000				334,000				
		kW	89.1				97.9			
(575)	Power input	kW	15.48	15.36		17.09	17.12			
		A	17.2	17.1		19.0	19.0			
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				59~81°F (15~27°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity				50~130% of heatsource unit capacity			
Model/Quantity		P04~P96/2~50				P04~P96/2~50				
Sound pressure level (measured in anechoic room)	dB <A>		71.0				72.5			
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed				3/4 (19.05) Brazed			
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed				1-3/8 (34.93) Brazed			
Set Model			PQHY-P144ZLMU-B		PQHY-P144ZLMU-B		PQHY-P168ZLMU-B		PQHY-P144ZLMU-B	
Minimum Circuit Ampacity	A		15		15		21		15	
Maximum Overcurrent Protection	A		25		25		35		25	
Inlet water	Water flow rate	G/h	1,902 + 1,902				1,902 + 1,902			
		G/min	31.7 + 31.7				31.7 + 31.7			
		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		
Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054				1,189 + 1,189 ~ 3,054 + 3,054				
	G/min	19.8 + 19.8 ~ 50.9 + 50.9				19.8 + 19.8 ~ 50.9 + 50.9				
	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			
	Motor output		9.5				11.0			
	Case heater		0.045				0.045			
External finish			Galvanized steel sheets				Galvanized steel sheets			
External dimension H x W x D	in.		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
	mm		1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)		499 (226)		499 (226)		499 (226)		499 (226)	
Heat exchanger	plate type		plate type				plate type			
	Water volume in plate	G	1.22		1.22		1.22		1.22	
	Water pressure	psi	290		290		290		290	
	Max.	MPa	2.0		2.0		2.0		2.0	
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		1/2 (12.7) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G				Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G			

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WY-Series (575V) PQHY-P ZSLMU-B



► Specifications

Heat Source Model			PQHY-P336ZSLMU-B				PQHY-P360ZSLMU-B				
Indoor Model			Non-Ducted		Ducted		Non-Ducted		Ducted		
Power source			3-phase 3-wire 575 V ±10% 60 Hz				3-phase 3-wire 575 V ±10% 60 Hz				
Cooling capacity (Nominal)	*1	BTU/h	336,000				360,000				
		*1 kW	98.5				105.5				
(575)	Power input	kW	26.84				29.43				
		A	29.9				32.8				
(Rated)	BTU/h	320,000				344,000					
		kW	93.8				100.8				
(575)	Power input	kW	25.14			27.11			27.28	28.91	
		A	28.0			30.2			30.4	32.2	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				59~75°F (15~24°C)				
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)				
Heating capacity (Nominal)	*2	BTU/h	378,000				405,000				
		*2 kW	110.8				118.7				
(575)	Power input	kW	20.77				22.85				
		A	23.1				25.4				
(Rated)	BTU/h	360,000				386,000					
		kW	105.5				113.1				
(575)	Power input	kW	18.49			19.10			20.56	20.71	
		A	20.6			21.3			22.9	23.1	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				59~81°F (15~27°C)				
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)				
Indoor unit connectable	Total capacity		50~130% of heatsource unit capacity				50~130% of heatsource unit capacity				
Model/Quantity		P04~P96/2~50				P04~P96/2~50					
Sound pressure level (measured in anechoic room)	dB <A>		73.0				74.5				
Refrigerant	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			PQHY-P168ZLMU-B				PQHY-P168ZLMU-B				
Minimum Circuit Ampacity	A		21		21		26		21		
Maximum Overcurrent Protection	A		35		35		45		35		
Inlet water	Water flow rate	G/h	1,902 + 1,902				1,902 + 1,902				
		G/min	31.7 + 31.7				31.7 + 31.7				
		m ³ /h	7.20 + 7.20				7.20 + 7.20				
		L/min	120 + 120				120 + 120				
		cfm	4.2 + 4.2				4.2 + 4.2				
	Pressure drop	psi	6.38		6.38		6.38		6.38		
kPa		44		44		44		44			
Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054				1,189 + 1,189 ~ 3,054 + 3,054					
	G/min	19.8 + 19.8 ~ 50.9 + 50.9				19.8 + 19.8 ~ 50.9 + 50.9					
	m ³ /h	4.5 + 4.5 ~ 11.6 + 11.6				4.5 + 4.5 ~ 11.6 + 11.6					
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1				Inverter scroll hermetic compressor x 1				
	Starting method		Inverter				Inverter				
	Motor output		11.0				12.4				
	Case heater		0.045				0.045				
External finish			Galvanized steel sheets				Galvanized steel sheets				
External dimension H x W x D	in.		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm		1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor		Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)		499 (226)		499 (226)		499 (226)		499 (226)		
Heat exchanger	plate type		plate type				plate type				
	Water volume in plate	G	1.22		1.22		1.22		1.22		
		l	4.6		4.6		4.6		4.6		
	Water pressure Max.	psi	290		290		290		290		
MPa		2.0		2.0		2.0		2.0			
Pipe between unit and distributor	Liquid pipe	in. (mm)	5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed		5/8 (15.88) Brazed		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G				Heat Source Twinning kit: CMY-Y200CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104, 108, 1010C-G				

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

WR2-Series

Simultaneous Cooling and Heating Heat recovery

- Optional parts P.154
- Specifications 208-230V, 460V **PQRY-P T(S)LMU-A2/Y(S)LMU-A2** ... P.155 - P.166
- 575V **PQRY-P Z(S)LMU-B** P.167 - P.173
- BC controllers P.174 - P.183

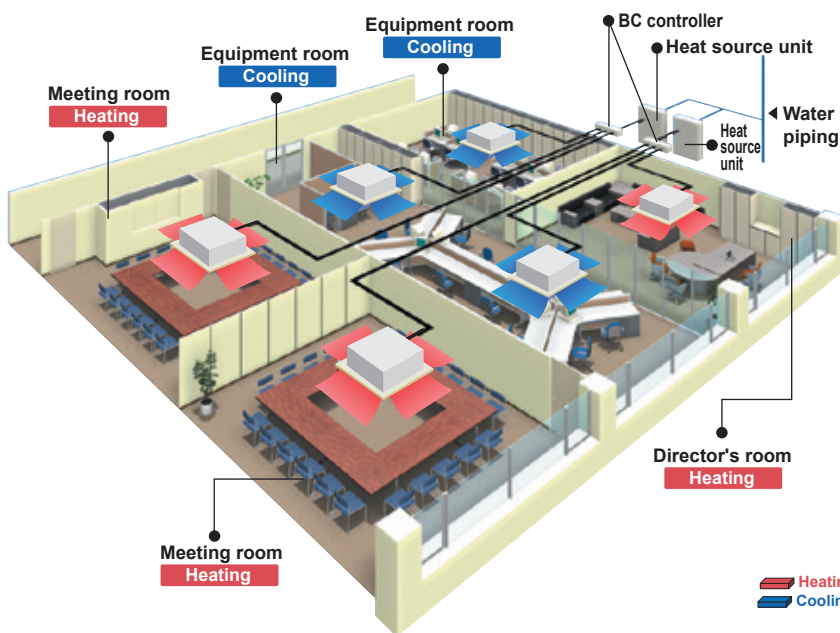


Advanced water heat source unit with the benefits of the R2-Series

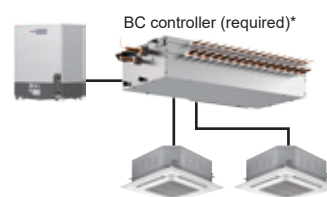
The CITY MULTI WR2-Series provides all of the advantages of the R2-Series with the added benefits of a water heat source system, making it suitable for a wider range of applications in high-rise buildings, cold climates, coastal areas, etc.

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

• Installation image (WR2-Series)

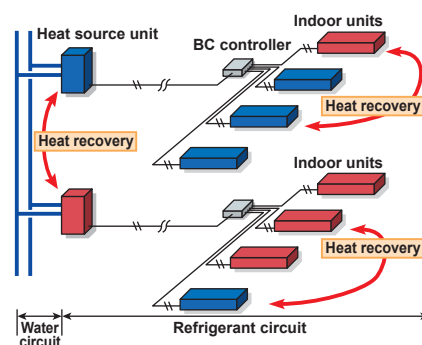


• System example



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

• Double heat recovery (WR2)

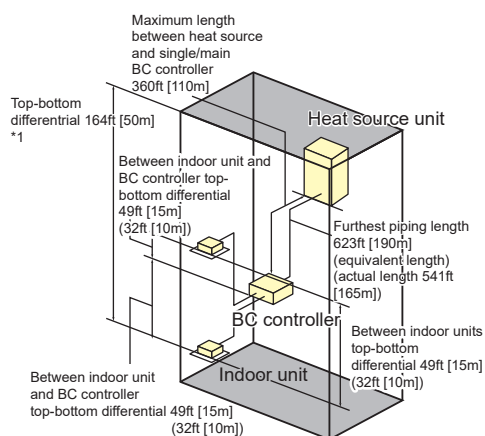


• System pipe lengths

[P72-P336 (WR2-Series)]

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

*1 When the heat source unit is installed below the indoor unit, top-bottom differential is 131ft [40m].
 *2 Details refer to the DATA BOOK.
 *3 Farthest Indoor from BC controller can exceed 131ft [40m] till 197ft [60m] if no Indoor sized P72, P96 connected. Details refer to the DATA BOOK.
 *4 Height between Indoor sized P72, P96 and BC must be less than 32ft [10m], if any.
 *5 Height between Indoor sized P72, P96 and IU must be less than 65ft [20m], if any.
 *6 Height between BC (Main or Sub) and BC (Sub) must be less than 32ft [10m] if two BC(sub) are installed or IU size is P72, P96.



Optional parts

• For WR2-Series

Description		Model	Remarks	
Twinning kit		CMY-Q100CBK2	For PQRV-P144-P240TSLMU-A/YSLMU-A/ZSLMU	
		CMY-Q200CBK	For PQRV-P288-P336TSLMU-A/YSLMU-A/ZSLMU	
For BC controller	2-Branch joint pipe	Between BC controller and indoor units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: -P72
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P73-P96
	Joint and reducer	Between Main BC and Sub BC *Not necessary when J2 type BC controller is used.	CMY-R201S-G	Total down-stream indoor unit capacity: -P126
			CMY-R202S-G	Total down-stream indoor unit capacity: P127-P216
			CMY-R203S-G	Total down-stream indoor unit capacity: P217-P234
			CMY-R204S-G	Total down-stream indoor unit capacity: P235-P360
			CMY-R205S-G	Total down-stream indoor unit capacity: P361-
	Reducer	Between outdoor/heat source units and BC controller	CMY-R301S-G	For J2 type (Outdoor unit capacity: P72-P120)
			CMY-R302S-G1	For JA2 type (Outdoor unit capacity: P72-P336)
			CMY-R304S-G1	For KA2 type (Outdoor unit capacity: P72-P432)
		Between Main BC controller and Sub BC controller	CMY-R303S-G1	For JA2 type (When using the Sub BC controller)
			CMY-R305S-G1	For KA2 type (When using the Sub BC controller)
			CMY-R306S-G	For KB2 type
	Joint pipe kit		CMY-R160-J2	Joint for connecting two nozzles

HEAT SOURCE UNIT WR2-Series (208-230V) PQRY-P TLMU-A2



► Specifications

Heat Source Model		PQRY-P72TLMU-A2		PQRY-P96TLMU-A2		PQRY-P120TLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	72,000		96,000		120,000		
	*1	21.1		28.1		35.2		
(208-230)	Power input	3.61		5.21		7.51		
	Current input	11.1-10.0		16.0-14.5		23.1-20.9		
(Rated)		69,000		92,000		115,000		
		20.2		27.0		33.7		
(208-230)	Power input	3.60	3.59	5.22	5.45	7.38	7.77	
	Current input	11.1-10.0	11.0-10.0	16.0-14.5	16.8-15.2	22.7-20.5	23.9-21.6	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	80,000		108,000		135,000		
	*2	23.4		31.7		39.6		
(208-230)	Power input	4.04		5.64		7.09		
	Current input	12.4-11.2		17.3-15.7		21.8-19.7		
(Rated)		76,000		103,000		129,000		
		22.3		30.2		37.8		
(208-230)	Power input	3.78	3.36	4.49	4.48	5.78	5.89	
	Current input	11.6-10.5	10.3-9.3	13.8-12.5	13.8-12.4	17.8-16.1	18.1-16.4	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96/1~18		P04-P96/1~24		P04-P96/1~30		
Sound pressure level (measured in anechoic room)	dB <A>	60.5		65.0		71.0		
Refrigerant piping diameter	High pressure	in. (mm) 5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed		
	Low pressure	in. (mm) 3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	17-16		25-22		35-32		
Maximum Overcurrent Protection	A	30-25		45-35		60-50		
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m ³ / h	5.45		5.76		5.76	
		L / min	91		96		96	
	Pressure drop	cfm	3.2		3.4		3.4	
		psi	3.48		3.48		3.48	
	Operating volume range	kPa	24		24		24	
		G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
	G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7		
	m ³ / h	3.0 ~ 7.2		3.0 ~ 7.2		3.0 ~ 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 4.3		6.0		7.7		
	Case heater	kW 0.035		0.035		0.035		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	377 (171)		377 (171)		377 (171)		
Heat exchanger		plate type		plate type		plate type		
	Water volume in plate	G 1.22		1.22		1.22		
	Water pressure	i 4.6		4.6		4.6		
	Max.	psi 290		290		290		
	MPa	2.0		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (208-230V) PQRY-P TLMU-A2



► Specifications

Heat Source Model		PQRY-P144TLMU-A2		PQRY-P168TLMU-A2		PQRY-P192TLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000		
	*1 kW	42.2		49.2		56.3		
(208-230)	Power input	8.78		12.05		15.05		
	Current input	27.0-24.4		37.1-33.6		46.4-41.9		
(Rated)	BTU / h	138,000		160,000		184,000		
	kW	40.4		46.9		53.9		
(208-230)	Power input	9.44	10.12	11.98	12.47	15.17	15.00	
	Current input	29.1-26.3	31.2-28.2	36.9-33.4	38.4-34.7	46.7-42.3	46.2-41.8	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000		
	*2 kW	46.9		55.1		63.0		
(208-230)	Power input	8.11		9.86		11.90		
	Current input	25.0-22.6		30.4-27.5		36.7-33.1		
(Rated)	BTU / h	152,000		178,000		204,000		
	kW	44.5		52.2		59.8		
(208-230)	Power input	7.29	7.92	8.86	9.66	10.78	11.53	
	Current input	22.4-20.3	24.4-22.0	27.3-24.7	29.7-26.9	33.2-30.0	35.5-32.1	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96/1~36		P04-P96/1~42		P04-P96/1~48		
Sound pressure level (measured in anechoic room)	dB <A>	68.0		70.0		72.0		
Refrigerant piping diameter	High pressure	in. (mm) 7/8 (22.2) Braze		7/8 (22.2) Braze		7/8 (22.2) Braze		
	Low pressure	in. (mm) 1-1/8 (28.58) Braze		1-1/8 (28.58) Braze		1-1/8 (28.58) Braze		
Minimum Circuit Ampacity	A	40-40		50-48		66-63		
Maximum Overcurrent Protection	A	70-70		90-80		110-110		
Inlet water	Water flow rate	G / h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m ³ / h	7.20		7.20		7.20	
		L / min	120		120		120	
	Pressure drop	cfm	4.2		4.2		4.2	
		psi	6.38		6.38		6.38	
		kPa	44		44		44	
Operating volume range	G / h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054		
	G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9		
	m ³ / h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 9.5		11.0		12.4		
	Case heater	kW 0.045		0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)	481 (218)		481 (218)		481 (218)		
Heat exchanger			plate type		plate type		plate type	
	Water volume	G	1.22		1.22		1.22	
	in plate	l	4.6		4.6		4.6	
	Water pressure	psi	290		290		290	
Max.	MPa	2.0		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMYR302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMYR302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (208-230V) PQRY-P TLMU-A2



► Specifications

Heat Source Model		PQRY-P216TLMU-A2		PQRY-P240TLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	216,000		224,000		
	*1 kW	63.3		65.7		
(208-230)	Power input kW	19.23		21.14		
	Current input A	59.3-53.6		65.1-58.9		
(Rated)	BTU / h	206,000		214,000		
	kW	60.4		62.7		
(208-230)	Power input kW	18.12	17.22	18.67	18.61	
	Current input A	55.8-50.5	53.1-48.0	57.5-52.0	57.3-51.9	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000		
	*2 kW	71.2		79.1		
(208-230)	Power input kW	13.04		15.12		
	Current input A	40.2-36.3		46.6-42.1		
(Rated)	BTU / h	232,000		258,000		
	kW	68.0		75.6		
(208-230)	Power input kW	11.78	12.07	13.75	14.48	
	Current input A	36.3-32.8	37.2-33.6	42.4-38.3	44.6-40.3	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	72.5		73.0		
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		
Minimum Circuit Ampacity	A	78-78		79-78		
Maximum Overcurrent Protection	A	125-125		125-125		
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m³ / h	11.52		11.52	
		L / min	192		192	
	Pressure drop	cfm	6.8		6.8	
		psi	6.53		6.53	
		kPa	45		45	
Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804		
	G / min	26.4 ~ 63.4		26.4 ~ 63.4		
	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		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)		
Net weight	lbs (kg)	549 (249)		549 (249)		
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
MPa		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMYR302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMYR302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (208-230V) PQRY-P TSLMU-A2



► Specifications

Heat Source Model		PQRY-P144TSLMU-A2		PQRY-P168TSLMU-A2		PQRY-P192TSLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000		
	*1 kW	42.2		49.2		56.3		
(208-230)	Power input	7.11		9.33		11.30		
	Current input	21.9-19.8		28.7-26.0		34.8-31.5		
(Rated)	BTU / h	138,000		160,000		184,000		
	kW	40.4		46.9		53.9		
(208-230)	Power input	6.96	8.17	8.87	9.66	10.57	11.54	
	Current input	21.4-19.4	25.1-22.7	27.3-24.7	29.7-26.9	32.5-29.4	35.5-32.1	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000		
	*2 kW	46.9		55.1		63.0		
(208-230)	Power input	7.45		9.34		11.02		
	Current input	22.9-20.7		28.8-26.0		33.9-30.7		
(Rated)	BTU / h	152,000		178,000		204,000		
	kW	44.5		52.2		59.8		
(208-230)	Power input	6.50	7.29	8.05	8.04	9.53	8.82	
	Current input	20.0-18.1	22.4-20.3	24.8-22.4	24.7-22.4	29.3-26.5	27.2-24.6	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96/1~36		P04-P96/1~42		P04-P96/1~48		
Sound pressure level (measured in anechoic room)	dB <A>	63.5		66.5		68.0		
Refrigerant	High pressure	in. (mm) 7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
	Low pressure	in. (mm) 1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Set Model								
Model		PQRY-P72TLMU-A2	PQRY-P72TLMU-A2	PQRY-P96TLMU-A2	PQRY-P72TLMU-A2	PQRY-P96TLMU-A2	PQRY-P96TLMU-A2	
Minimum Circuit Ampacity	A	17-16	17-16	25-22	17-16	25-22	25-22	
Maximum Overcurrent Protection	A	30-25	30-25	45-35	30-25	45-35	45-35	
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m ³ / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
	kPa	24	24	24	24	24	24	
Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		
	G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		
	m ³ / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 4.3		6.0		4.3		
	Case heater	kW 0.035		0.035		0.035		
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	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)	377 (171)	377 (171)	377 (171)	377 (171)	377 (171)	377 (171)	
Heat exchanger	plate type		plate type	plate type	plate type	plate type	plate type	
	Water volume	G	1.22	1.22	1.22	1.22	1.22	
	in plate	l	4.6	4.6	4.6	4.6	4.6	
	Water pressure	psi	290	290	290	290	290	
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	High pressure	in. (mm) 5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	
	Low pressure	in. (mm) -	3/4 (19.05) Brazed	-	7/8 (22.2) Brazed	-	7/8 (22.2) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 303, 304, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 303, 304, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (208-230V) PQRY-P TSLMU-A2



► Specifications

Heat Source Model		PQRY-P216TSLMU-A2		PQRY-P240TSLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	216,000		240,000		
	*1 kW	63.3		70.3		
(208-230)	Power input kW	14.03		16.89		
	Current input A	43.2-39.1		52.0-47.1		
(Rated)	BTU / h	206,000		230,000		
	kW	60.4		67.4		
(208-230)	Power input kW	13.09	13.88	15.73	16.79	
	Current input A	40.3-36.5	42.8-38.7	48.5-43.8	51.7-46.8	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000		
	*2 kW	71.2		79.1		
(208-230)	Power input kW	12.88		14.58		
	Current input A	39.7-35.9		44.9-40.6		
(Rated)	BTU / h	232,000		258,000		
	kW	68.0		75.6		
(208-230)	Power input kW	11.11	10.04	12.83	11.67	
	Current input A	34.2-30.9	30.9-28.0	39.5-35.7	35.9-32.5	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	72.0		74.0		
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		
Set Model						
Model		PQRY-P120TLMU-A2	PQRY-P96TLMU-A2	PQRY-P120TLMU-A2	PQRY-P120TLMU-A2	
Minimum Circuit Ampacity	A	35-32	25-22	35-32	35-32	
Maximum Overcurrent Protection	A	60-50	45-35	60-50	60-50	
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4	
		m ³ / h	5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48
	kPa	24	24	24	24	
Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		
	G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		
	m ³ / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		
	Motor output kW	7.7		7.7		
	Case heater kW	0.035		0.035		
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	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)		
Net weight	lbs (kg)	377 (171)		377 (171)		
Heat exchanger	plate type	377 (171)		377 (171)		
		plate type		plate type		
	Water volume in plate	G	1.22	1.22	1.22	1.22
	Water pressure Max.	psi	290	290	290	290
Pipe between unit and distributor	High pressure in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed		
	Low pressure in. (mm)	-		-		
Optional parts		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (208-230V) PQRY-P TSLMU-A2



► Specifications

Heat Source Model		PQRY-P288TSLMU-A2		PQRY-P312TSLMU-A2		PQRY-P336TSLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	288,000		312,000		336,000		
	*1	84.4		91.4		98.5		
(208-230)	Power input	20.42		23.41		26.84		
	Current input	62.9-56.9		72.1-65.2		82.7-74.8		
(Rated)		276,000		298,000		320,000		
		80.9		87.3		93.8		
(208-230)	Power input	20.11	22.67	22.45	24.98	25.14	27.11	
	Current input	62.0-56.0	69.9-63.2	69.2-62.6	77.0-69.6	77.5-70.1	83.6-75.6	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	323,000		350,000		378,000		
	*2	94.7		102.6		110.8		
(208-230)	Power input	17.50		19.11		20.77		
	Current input	53.9-48.8		58.9-53.3		64.0-57.9		
(Rated)		304,000		334,000		360,000		
		89.1		97.9		105.5		
(208-230)	Power input	15.48	15.36	17.09	17.12	18.49	19.10	
	Current input	47.7-43.1	47.3-42.8	52.7-47.6	52.8-47.7	57.0-51.5	58.9-53.2	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96(2-50) (Connectable branch pipe number is max. 48.)		P04-P96(2-50) (Connectable branch pipe number is max. 48.)		P04-P96(2-50) (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	71.0		72.5		73.0		
Refrigerant	High pressure	in. (mm) 1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
	Low pressure	in. (mm) 1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed		
Set Model								
Model		PQRY-P144TLMU-A2	PQRY-P144TLMU-A2	PQRY-P168TLMU-A2	PQRY-P144TLMU-A2	PQRY-P168TLMU-A2	PQRY-P168TLMU-A2	
Minimum Circuit Ampacity	A	40-40		50-48	40-40		50-48	
Maximum Overcurrent Protection	A	70-70		90-80	70-70		90-80	
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7		31.7 + 31.7	
		m ³ / h	7.20 + 7.20		7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38	6.38	6.38
	kPa	44	44	44	44	44	44	
Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		
	G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		
	m ³ / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 9.5		11.0		9.5		
	Case heater	kW 0.045		0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
Net weight	lbs (kg)	481 (218)		481 (218)		481 (218)		
Heat exchanger		plate type		plate type		plate type		
	Water volume	G	1.22	1.22	1.22	1.22	1.22	
	in plate	l	4.6	4.6	4.6	4.6	4.6	
	Water pressure	psi	290	290	290	290	290	
Max.	MPa	2.0	2.0	2.0	2.0	2.0		
Pipe between unit and distributor	High pressure	in. (mm) 7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
	Low pressure	in. (mm) -	1-1/8 (28.58) Brazed	-	1-1/8 (28.58) Brazed	-	1-1/8 (28.58) Brazed	
Optional parts		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1		
		Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YLMU-A2



► Specifications

Heat Source Model		PQRY-P72YLMU-A2		PQRY-P96YLMU-A2		PQRY-P120YLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (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		115,000		
	kW	20.2		27.0		33.7		
(460)	Power input kW	3.60	3.59	5.22	5.45	7.38	7.77	
	Current input A	5.0	5.0	7.2	7.6	10.2	10.8	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (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	3.78	3.36	4.49	4.48	5.78	5.89	
	Current input A	5.2	4.6	6.2	6.2	8.0	8.2	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96/1~18		P04-P96/1~24		P04-P96/1~30		
Sound pressure level (measured in anechoic room)	dB <A>	60.5		65.0		71.0		
Refrigerant piping diameter	High pressure in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed		
	Low pressure in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	8		11		16		
Maximum Overcurrent Protection	A	15		15		25		
Inlet water	Water flow rate	G / h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m³ / h	5.45		5.76		5.76	
		L / min	91		96		96	
	Pressure drop	cfm	3.2		3.4		3.4	
		psi	3.48		3.48		3.48	
	Operating volume range	kPa	24		24		24	
		G / h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
	G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7		
	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	0.035		0.035		0.035		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	406 (184)		406 (184)		406 (184)		
Heat exchanger		plate type		plate type		plate type		
	Water volume in plate	G		1.22		1.22		
	Water pressure	l		4.6		4.6		
	Max.	psi		290		290		
Optional parts		MPa		2.0		2.0		
		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YLMU-A2



► Specifications

Heat Source Model		PQRY-P144YLMU-A2		PQRY-P168YLMU-A2		PQRY-P192YLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	144,000		168,000		192,000		
	*1 kW	42.2		49.2		56.3		
(460)	Power input kW	8.78		12.05		15.05		
	Current input A	12.2		16.8		20.9		
(Rated)	BTU / h	138,000		160,000		184,000		
	kW	40.4		46.9		53.9		
(460)	Power input kW	9.44	10.12	11.98	12.47	15.17	15.00	
	Current input A	13.1	14.1	16.7	17.3	21.1	20.9	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	160,000		188,000		215,000		
	*2 kW	46.9		55.1		63.0		
(460)	Power input kW	8.11		9.86		11.90		
	Current input A	11.3		13.7		16.5		
(Rated)	BTU / h	152,000		178,000		204,000		
	kW	44.5		52.2		59.8		
(460)	Power input kW	7.29	7.92	8.86	9.66	10.78	11.53	
	Current input A	10.1	11.0	12.3	13.4	15.0	16.0	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96/1~36		P04-P96/1~42		P04-P96/1~48		
Sound pressure level (measured in anechoic room)	dB <A>	68.0		70.0		72.0		
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	19		26		27		
Maximum Overcurrent Protection	A	30		45		45		
Inlet water	Water flow rate	G / h	1,902		1,902		1,902	
		G / min	31.7		31.7		31.7	
		m ³ / h	7.20		7.20		7.20	
		L / min	120		120		120	
	Pressure drop	cfm	4.2		4.2		4.2	
		psi	6.38		6.38		6.38	
	Operating volume range	kPa	44		44		44	
		G / h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054	
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
Motor output	kW	9.5		11.0		12.4		
	Case heater kW	0.045		0.045		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)	508 (230)		508 (230)		508 (230)		
Heat exchanger	Water volume in plate	plate type		plate type		plate type		
		G	1.22		1.22		1.22	
	l	4.6		4.6		4.6		
	Water pressure	psi	290		290		290	
Max.	MPa	2.0		2.0		2.0		
Optional parts	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1	Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2		Sub BC controller: CMB-P104,108NU-KB2		Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2		
	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1	Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2		Sub BC controller: CMB-P104,108NU-KB2		Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2		
joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1	Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2		Sub BC controller: CMB-P104,108NU-KB2		Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2			

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YLMU-A2



► Specifications

Heat Source Model		PQRY-P216YLMU-A2		PQRY-P240YLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1 BTU / h	216,000		224,000		
	*1 kW	63.3		65.7		
(460)	Power input kW	19.23		21.14		
	Current input A	26.8		29.4		
(Rated)	BTU / h	206,000		214,000		
	kW	60.4		62.7		
(460)	Power input kW	18.12	17.22	18.67	18.61	
	Current input A	25.2	24.0	26.0	25.9	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU / h	243,000		270,000		
	*2 kW	71.2		79.1		
(460)	Power input kW	13.04		15.12		
	Current input A	18.1		21.0		
(Rated)	BTU / h	232,000		258,000		
	kW	68.0		75.6		
(460)	Power input kW	11.78	12.07	13.75	14.48	
	Current input A	16.4	16.8	19.1	20.1	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)		P04~P96/2~50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	72.5		73.0		
Refrigerant piping diameter	High pressure in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		
	Low pressure in. (mm)	1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed		
Minimum Circuit Ampacity	A	37		40		
Maximum Overcurrent Protection	A	60		70		
Inlet water	Water flow rate	G / h	3,044		3,044	
		G / min	50.7		50.7	
		m³ / h	11.52		11.52	
		L / min	192		192	
	Pressure drop	cfm	6.8		6.8	
		psi	6.53		6.53	
		kPa	45		45	
Operating volume range	G / h	1,585 ~ 3,804		1,585 ~ 3,804		
	G / min	26.4 ~ 63.4		26.4 ~ 63.4		
	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		0.045		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 25 lbs + 13 oz (11.7 kg)		R410A x 25 lbs + 13 oz (11.7 kg)		
Net weight	lbs (kg)	565 (256)		565 (256)		
Heat exchanger			plate type		plate type	
	Water volume in plate	G	2.43		2.43	
		l	9.2		9.2	
	Water pressure Max.	psi	290		290	
MPa		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

- *Due to continuing improvement, above specifications may be subject to change without notice.
- *The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)
- *The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.
- *The Heat Source Unit should not be installed at outdoor.
- *Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
- *Be sure to provide interlocking for the unit operation and water circuit.
- *Install the supplied insulation material to the unused drain-socket.
- *When installing insulation material around both water and refrigerant piping, follow the installation manual.
- *The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YSLMU-A2



► Specifications

Heat Source Model		PQRY-P144YSLMU-A2		PQRY-P168YSLMU-A2		PQRY-P192YSLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	144,000		168,000		192,000		
	*1	42.2		49.2		56.3		
(460)	Power input	7.11		9.33		11.30		
	Current input	9.9		13.0		15.7		
(Rated)	BTU / h	138,000		160,000		184,000		
	kW	40.4		46.9		53.9		
(460)	Power input	6.96	8.17	8.87	9.66	10.57	11.54	
	Current input	9.7	11.3	12.3	13.4	14.7	16.0	
Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	160,000		188,000		215,000		
	*2	46.9		55.1		63.0		
(460)	Power input	7.45		9.34		11.02		
	Current input	10.3		13.0		15.3		
(Rated)	BTU / h	152,000		178,000		204,000		
	kW	44.5		52.2		59.8		
(460)	Power input	6.50	7.29	8.05	8.04	9.53	8.82	
	Current input	9.0	10.1	11.2	11.2	13.2	12.3	
Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	°F 50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96/1~36		P04-P96/1~42		P04-P96/1~48		
Sound pressure level (measured in anechoic room)		63.5		66.5		68.0		
Refrigerant	High pressure	in. (mm) 7/8 (22.2) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
	Low pressure	in. (mm) 1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
Set Model								
Model		PQRY-P72YLMU-A2	PQRY-P72YLMU-A2	PQRY-P96YLMU-A2	PQRY-P72YLMU-A2	PQRY-P96YLMU-A2	PQRY-P96YLMU-A2	
Minimum Circuit Ampacity	A	8	8	11	8	11	11	
Maximum Overcurrent Protection	A	15	15	15	15	15	15	
Inlet water	Water flow rate	G / h	1,522 + 1,522		1,522 + 1,522		1,522 + 1,522	
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4	
		m ³ / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L / min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	psi	3.48	3.48	3.48	3.48	3.48	3.48
	kPa	24	24	24	24	24	24	
Operating volume range	G / h	793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902		
	G / min	13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7		
	m ³ / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW 4.3		6.0		4.3		
	Case heater	kW 0.035		0.035		0.035		
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets			
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
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)	
		406 (184)	406 (184)	406 (184)	406 (184)	406 (184)	406 (184)	
Net weight	lbs (kg)	406 (184)		406 (184)		406 (184)		
Heat exchanger	plate type		plate type	plate type	plate type	plate type	plate type	
	Water volume in plate	G	1.22	1.22	1.22	1.22	1.22	
	Water pressure	psi	290	290	290	290	290	
	Max.	MPa	2.0	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	High pressure	in. (mm) 5/8 (15.88) Brazed	5/8 (15.88) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	3/4 (19.05) Brazed	
	Low pressure	in. (mm) -	3/4 (19.05) Brazed	-	7/8 (22.2) Brazed	-	7/8 (22.2) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2			

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YSLMU-A2



► Specifications

Heat Source Model		PQRY-P216YSLMU-A2				PQRY-P240YSLMU-A2				
Indoor Model		Non-Ducted		Ducted		Non-Ducted		Ducted		
Power source		3-phase 3-wire 460 V ±10% 60 Hz				3-phase 3-wire 460 V ±10% 60 Hz				
Cooling capacity (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		230,000				
		kW		60.4		67.4				
(460)	Power input	kW		13.09		15.73		16.79		
	Current input	A		18.2		21.9		23.4		
Temp. range of cooling	Indoor	W.B.		59~75°F (15~24°C)		59~75°F (15~24°C)				
	Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)				
Heating capacity (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		11.11		12.83		11.67		
	Current input	A		15.4		17.8		16.2		
Temp. range of heating	Indoor	D.B.		59~81°F (15~27°C)		59~81°F (15~27°C)				
	Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)				
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity				50~150% of heat source unit capacity				
	Model / Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)				P04~P96/2~50 (Connectable branch pipe number is max. 48.)				
Sound pressure level (measured in anechoic room)		dB <A>		72.0		74.0				
Refrigerant piping diameter	High pressure	in. (mm)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)				
	Low pressure	in. (mm)		1-1/8 (28.58) Brazed		1-3/8 (34.93) Brazed				
Set Model										
Model		PQRY-P120YLMU-A2		PQRY-P96YLMU-A2		PQRY-P120YLMU-A2		PQRY-P120YLMU-A2		
Minimum Circuit Ampacity	A	16		11		16		16		
Maximum Overcurrent Protection	A	25		15		25		25		
Inlet water	Water flow rate	G / h		1,522 + 1,522		1,522 + 1,522				
		G / min		25.4 + 25.4		25.4 + 25.4				
		m ³ / h		5.76 + 5.76		5.76 + 5.76				
		L / min		96 + 96		96 + 96				
		cfm		3.4 + 3.4		3.4 + 3.4				
	Pressure drop	psi		3.48		3.48		3.48		
kPa		24		24		24				
Operating volume range	G / h		793 + 793 ~ 1,902 + 1,902		793 + 793 ~ 1,902 + 1,902					
	G / min		13.2 + 13.2 ~ 31.7 + 31.7		13.2 + 13.2 ~ 31.7 + 31.7					
	m ³ / h		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2					
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1				Inverter scroll hermetic compressor x 1				
	Starting method	Inverter		Inverter		Inverter		Inverter		
	Motor output	kW		7.7		7.7		7.7		
	Case heater	kW		0.035		0.035		0.035		
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets			
External dimension H x W x D	in.		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16	
	mm		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	406 (184)		406 (184)		406 (184)		406 (184)		
Heat exchanger	plate type		plate type		plate type		plate type			
	Water volume in plate	G		1.22		1.22		1.22		
	l		4.6		4.6		4.6			
	Water pressure	psi		290		290		290		
Max.	MPa		2.0		2.0		2.0			
Pipe between unit and distributor	High pressure	in. (mm)		3/4 (19.05) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed		
	Low pressure	in. (mm)		-		-		7/8 (22.2) Brazed		
Optional parts		Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2				Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2				

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (460V) PQRY-P YSLMU-A2



► Specifications

Heat Source Model		PQRY-P288YSLMU-A2		PQRY-P312YSLMU-A2		PQRY-P336YSLMU-A2		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	288,000		312,000		336,000		
	*1	84.4		91.4		98.5		
(460)	Power input	20.42		23.41		26.84		
	Current input	28.4		32.6		37.4		
(Rated)	BTU / h	276,000		298,000		320,000		
	kW	80.9		87.3		93.8		
(460)	Power input	20.11	22.67	22.45	24.98	25.14	27.11	
	Current input	28.0	31.6	31.3	34.8	35.0	37.8	
Temp. range of cooling	Indoor	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	323,000		350,000		378,000		
	*2	94.7		102.6		110.8		
(460)	Power input	17.50		19.11		20.77		
	Current input	24.4		26.6		28.9		
(Rated)	BTU / h	304,000		334,000		360,000		
	kW	89.1		97.9		105.5		
(460)	Power input	15.48	15.36	17.09	17.12	18.49	19.10	
	Current input	21.5	21.4	23.8	23.8	25.7	26.6	
Temp. range of heating	Indoor	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P04-P96(2-50) (Connectable branch pipe number is max. 48.)		P04-P96(2-50) (Connectable branch pipe number is max. 48.)		P04-P96(2-50) (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	71.0		72.5		73.0		
Refrigerant	High pressure	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
	Low pressure	1-3/8 (34.93) Brazed		1-3/8 (34.93) Brazed		1-5/8 (41.28) Brazed		
Set Model								
Model		PQRY-P144YLMU-A2	PQRY-P144YLMU-A2	PQRY-P168YLMU-A2	PQRY-P144YLMU-A2	PQRY-P168YLMU-A2	PQRY-P168YLMU-A2	
Minimum Circuit Ampacity	A	19	19	26	19	26	26	
Maximum Overcurrent Protection	A	30	30	45	30	45	45	
Inlet water	Water flow rate	G / h	1,902 + 1,902		1,902 + 1,902		1,902 + 1,902	
		G / min	31.7 + 31.7		31.7 + 31.7		31.7 + 31.7	
		m ³ / h	7.20 + 7.20		7.20 + 7.20		7.20 + 7.20	
		L / min	120 + 120		120 + 120		120 + 120	
		cfm	4.2 + 4.2		4.2 + 4.2		4.2 + 4.2	
	Pressure drop	psi	6.38	6.38	6.38	6.38	6.38	6.38
	kPa	44	44	44	44	44	44	
Operating volume range	G / h	1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		1,189 + 1,189 ~ 3,054 + 3,054		
	G / min	19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		19.8 + 19.8 ~ 50.9 + 50.9		
	m ³ / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	9.5		11.0		11.0		
	Case heater	0.045		0.045		0.045		
External finish	Galvanized steel sheets							
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)	
	Net weight	508 (230)		508 (230)		508 (230)		
Heat exchanger	plate type		plate type	plate type	plate type	plate type	plate type	
	Water volume	G	1.22	1.22	1.22	1.22	1.22	
	in plate	l	4.6	4.6	4.6	4.6	4.6	
	Water pressure	psi	290	290	290	290	290	
Max.	MPa	2.0	2.0	2.0	2.0	2.0	2.0	
Pipe between unit and distributor	High pressure	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed	
	Low pressure	—	1-1/8 (28.58) Brazed	—	1-1/8 (28.58) Brazed	—	1-1/8 (28.58) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Q200CBK		Heat Source Twinning kit: CMY-Q200CBK		Heat Source Twinning kit: CMY-Q200CBK		Heat Source Twinning kit: CMY-Q200CBK	
	joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1	
	Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2	

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZLMU-B



► Specifications

Heat Source Model		PQRY-P72ZLMU-B		PQRY-P96ZLMU-B		PQRY-P120ZLMU-B		
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	
Power source		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		
Cooling capacity (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		
	Current input A	4.0		5.8		8.3		
(Rated)	BTU/h	69,000		92,000		115,000		
	kW	20.2		27.0		33.7		
(575)	Power input kW	3.60	3.59	5.22	5.45	7.38	7.77	
	Current input A	4.0	4.0	5.8	6.0	8.2	8.6	
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Heating capacity (Nominal)	*2 BTU/h	80,000		108,000		135,000		
	*2 kW	23.4		31.7		39.6		
(575)	Power input kW	4.04		5.64		7.09		
	Current input A	4.5		6.2		7.9		
(Rated)	BTU/h	76,000		103,000		129,000		
	kW	22.3		30.2		37.8		
(575)	Power input kW	3.78	3.36	4.49	4.48	5.78	5.89	
	Current input A	4.2	3.7	5.0	4.9	6.4	6.5	
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)		
	Inlet water °F	50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model/Quantity	P04~P96/1~18		P04~P96/1~24		P04~P96/1~30		
Sound pressure level (measured in anechoic room)	dB <A>	60.5		65.0		71.0		
Refrigerant piping diameter	High pressure in. (mm)	5/8 (15.88) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed		
	Low pressure in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	6		9		13		
Maximum Overcurrent Protection	A	15		15		20		
Inlet water	Water flow rate	G/h	1,440		1,522		1,522	
		G / min	24		25.4		25.4	
		m³/h	5.45		5.76		5.76	
		L/min	91		96		96	
	Pressure drop	cfm	3.2		3.4		3.4	
		psi	3.48		3.48		3.48	
	Operating volume range	kPa	24		24		24	
		G/h	793 ~ 1,902		793 ~ 1,902		793 ~ 1,902	
		G / min	13.2 ~ 31.7		13.2 ~ 31.7		13.2 ~ 31.7	
		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	0.035		0.035		0.035		
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	406 (184)		406 (184)		406 (184)		
Heat exchanger	Water volume in plate	plate type		plate type		plate type		
		G	1.22		1.22		1.22	
	l	4.6		4.6		4.6		
	Water pressure	psi	290		290		290	
Max.	MPa	2.0		2.0		2.0		
Optional parts		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,301,306S-G, CMY-R302,303,304,305S-G1 BC controller: CMB-P104,106,108,1012,1016NU-J2 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2		

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

HEAT SOURCE UNIT WR2-Series (575V) PQRY-P ZLMU-B



► Specifications

Heat Source Model		PQRY-P144ZLMU-B		PQRY-P168ZLMU-B		PQRY-P192ZLMU-B			
Indoor Model		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted		
Power source		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz		3-phase 3-wire 575 V ±10% 60 Hz			
Cooling capacity (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)	Total capacity	BTU/h		138,000		160,000		184,000	
		kW		40.4		46.9		53.9	
(575)	Power input	9.44	10.12	11.98	12.47	15.17	15.00		
	Current input	10.5	11.2	13.3	13.9	16.9	16.7		
Temp. range of cooling	Indoor	W.B.		59~75°F (15~24°C)		59~75°F (15~24°C)		59~75°F (15~24°C)	
	Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h		160,000		188,000		215,000	
	*2	kW		46.9		55.1		63.0	
(575)	Power input	kW		8.11		9.86		11.90	
	Current input	A		9.0		11.0		13.2	
(Rated)	Total capacity	BTU/h		152,000		178,000		204,000	
		kW		44.5		52.2		59.8	
(575)	Power input	7.29	7.92	8.86	9.66	10.78	11.53		
	Current input	8.1	8.8	9.8	10.7	12.0	12.8		
Temp. range of heating	Indoor	D.B.		59~81°F (15~27°C)		59~81°F (15~27°C)		59~81°F (15~27°C)	
	Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)		50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity			
	Model/Quantity	P04~P96/1~36		P04~P96/1~42		P04~P96/1~48			
Sound pressure level (measured in anechoic room)	dB <A>	68.0		70.0		72.0			
Refrigerant piping diameter	High pressure	in. (mm)		7/8 (22.2) Brazed		7/8 (22.2) Brazed			
	Low pressure	in. (mm)		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed			
Minimum Circuit Ampacity	A	15		21		26			
Maximum Overcurrent Protection	A	25		35		45			
Inlet water	Water flow rate	G/h	1,902		1,902		1,902		
		G / min	31.7		31.7		31.7		
		m ³ /h	7.20		7.20		7.20		
		L/min	120		120		120		
	Pressure drop	cfm	4.2		4.2		4.2		
		psi	6.38		6.38		6.38		
	Operating volume range	kPa	44		44		44		
		G/h	1,189 ~ 3,054		1,189 ~ 3,054		1,189 ~ 3,054		
	G / min	19.8 ~ 50.9		19.8 ~ 50.9		19.8 ~ 50.9			
	m ³ /h	4.5 ~ 11.6		4.5 ~ 11.6		4.5 ~ 11.6			
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1			
	Starting method	Inverter		Inverter		Inverter			
	Motor output	kW		9.5		11.0			
	Case heater	kW		0.045		0.045			
External finish		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets			
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16			
	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550			
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection			
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)			
Net weight	lbs (kg)	510 (231)		510 (231)		510 (231)			
Heat exchanger		plate type		plate type		plate type			
	Water volume in plate	G		1.22		1.22			
	Water pressure	l		4.6		4.6			
	Max.	psi		290		290			
	MPa	2.0		2.0		2.0			
Optional parts		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 303, 304, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2		joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 303, 304, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2			

Notes:

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

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

*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQRY-P144ZSLMU-B				PQRY-P168ZSLMU-B				
Indoor Model		Non-Ducted		Ducted		Non-Ducted		Ducted		
Power source		3-phase 3-wire 575 V ±10% 60 Hz				3-phase 3-wire 575 V ±10% 60 Hz				
Cooling capacity (Nominal)	*1	BTU/h		144,000		168,000				
	*1	kW		42.2		49.2				
(575)	Power input	kW		7.11		9.33				
	Current input	A		7.9		10.4				
(Rated)		BTU/h		138,000		160,000				
		kW		40.4		46.9				
(575)	Power input	kW		6.96		8.17		8.87		
	Current input	A		7.7		9.1		9.8		
Temp. range of cooling	Indoor	W.B.		59~75°F (15~24°C)		59~75°F (15~24°C)				
	Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)				
Heating capacity (Nominal)	*2	BTU/h		160,000		188,000				
	*2	kW		46.9		55.1				
(575)	Power input	kW		7.45		9.34				
	Current input	A		8.3		10.4				
(Rated)		BTU/h		152,000		178,000				
		kW		44.5		52.2				
(575)	Power input	kW		6.50		7.29		8.05		
	Current input	A		7.2		8.1		8.9		
Temp. range of heating	Indoor	D.B.		59~81°F (15~27°C)		59~81°F (15~27°C)				
	Inlet water	°F		50~113°F (10~45°C)		50~113°F (10~45°C)				
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity				50~150% of heat source unit capacity				
	Model/Quantity	P04~P96/1~36				P04~P96/1~42				
Sound pressure level (measured in anechoic room)		dB <A>				63.5				
Refrigerant piping diameter	High pressure	in. (mm)		7/8 (22.2) Brazed		7/8 (22.2) Brazed				
	Low pressure	in. (mm)		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed				
Set Model										
Model	PQRY-P72ZLMU-B		PQRY-P72ZLMU-B		PQRY-P96ZLMU-B		PQRY-P72ZLMU-B			
Minimum Circuit Ampacity	A		6		6		9			
Maximum Overcurrent Protection	A		15		15		15			
Inlet water	Water flow rate	G/h		1,522 + 1,522		1,522 + 1,522				
		G / min		25.4 + 25.4		25.4 + 25.4				
		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		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					
	Motor output		kW		4.3		6.0			
	Case heater		kW		0.035		0.035			
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	
	mm		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		Over-heat protection				Over-heat protection			
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
Net weight	lbs (kg)		406 (184)		406 (184)		406 (184)		406 (184)	
Heat exchanger	plate type		plate type		plate type		plate type			
	Water volume	G		1.22		1.22		1.22		
	in plate	l		4.6		4.6		4.6		
	Water pressure	psi		290		290		290		
Pipe between unit and distributor	High pressure	in. (mm)		5/8 (15.88) Brazed		5/8 (15.88) Brazed		3/4 (19.05) Brazed		
	Low pressure	in. (mm)		-		3/4 (19.05) Brazed		-		
Optional parts										
Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2					Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2					

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model			PQRY-P192ZSLMU-B				PQRY-P216ZSLMU-B			
Indoor Model			Non-Ducted		Ducted		Non-Ducted		Ducted	
Power source			3-phase 3-wire 575 V ±10% 60 Hz				3-phase 3-wire 575 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	192,000		216,000		216,000		216,000	
		*1 kW	56.3		63.3		63.3		63.3	
(575)	Power input	kW	11.30		14.03		14.03		14.03	
		Current input	A		12.6		15.6		15.6	
(Rated)	BTU/h	184,000		206,000		206,000		206,000		
		kW		53.9		60.4		60.4		
(575)	Power input	kW	10.57	11.54		13.09	13.88		13.88	
		Current input	A		12.8		14.6		15.4	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				59~75°F (15~24°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Heating capacity (Nominal)	*2	BTU/h	215,000		243,000		243,000		243,000	
		*2 kW	63.0		71.2		71.2		71.2	
(575)	Power input	kW	11.02		12.88		12.88		12.88	
		Current input	A		12.2		14.3		14.3	
(Rated)	BTU/h	204,000		232,000		232,000		232,000		
		kW		59.8		68.0		68.0		
(575)	Power input	kW	9.53	8.82		11.11	10.04		10.04	
		Current input	A		9.8		12.3		11.2	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				59~81°F (15~27°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity				50~150% of heat source unit capacity				
Model/Quantity	P04~P96/1~48				P04~P96/2~50 (Connectable branch pipe number is max. 48.)					
Sound pressure level (measured in anechoic room)	dB <A>	68.0				72.0				
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Set Model			PQRY-P96ZLMU-B		PQRY-P96ZLMU-B		PQRY-P120ZLMU-B		PQRY-P96ZLMU-B	
Minimum Circuit Ampacity	A	9		9		13		9		
Maximum Overcurrent Protection	A	15		15		20		15		
Inlet water	Water flow rate	G/h	1,522 + 1,522				1,522 + 1,522			
		G / min	25.4 + 25.4				25.4 + 25.4			
		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		3.48	
kPa		24		24		24		24		
Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902				793 + 793 ~ 1,902 + 1,902				
	G / min	13.2 + 13.2 ~ 31.7 + 31.7				13.2 + 13.2 ~ 31.7 + 31.7				
	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		6.0		7.7		6.0		
	Case heater	kW		0.035		0.035		0.035		
	External finish	Galvanized steel sheets				Galvanized steel sheets				
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		
Net weight	lbs (kg)	406 (184)		406 (184)		406 (184)		406 (184)		
Heat exchanger	Water volume in plate	G	1.22		1.22		1.22		1.22	
		l	4.6		4.6		4.6		4.6	
	Water pressure Max.	psi	290		290		290		290	
		MPa	2.0		2.0		2.0		2.0	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed		3/4 (19.05) Brazed	
	Low pressure	in. (mm)	-		7/8 (22.2) Brazed		-		7/8 (22.2) Brazed	
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2				Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2			

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQRY-P240ZSLMU-B				PQRY-P288ZSLMU-B				
Indoor Model		Non-Ducted		Ducted		Non-Ducted		Ducted		
Power source		3-phase 3-wire 575 V ±10% 60 Hz				3-phase 3-wire 575 V ±10% 60 Hz				
Cooling capacity (Nominal)	*1	BTU/h	240,000		288,000					
	*1	kW	70.3		84.4					
(575)	Power input	kW	16.89		20.42					
	Current input	A	18.8		22.7					
(Rated)		BTU/h	230,000		276,000					
		kW	67.4		80.9					
(575)	Power input	kW	15.73	16.79	20.11	22.67				
	Current input	A	17.5	18.7	22.4	25.2				
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				59~75°F (15~24°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Heating capacity (Nominal)	*2	BTU/h	270,000		323,000					
	*2	kW	79.1		94.7					
(575)	Power input	kW	14.58		17.50					
	Current input	A	16.2		19.5					
(Rated)		BTU/h	258,000		304,000					
		kW	75.6		89.1					
(575)	Power input	kW	12.83	11.67	15.48	15.48				
	Current input	A	14.3	13.0	17.2	17.1				
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				59~81°F (15~27°C)			
	Inlet water	°F	50~113°F (10~45°C)				50~113°F (10~45°C)			
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity				50~150% of heat source unit capacity				
	Model/Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)				P04~P96/2~50 (Connectable branch pipe number is max. 48.)				
Sound pressure level (measured in anechoic room)		dB <A>	74.0				71.0			
Refrigerant piping diameter	High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)				1-1/8 (28.58) Brazed			
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed				1-3/8 (34.93) Brazed			
Set Model										
Model	PQRY-P120ZLMU-B		PQRY-P120ZLMU-B		PQRY-P144ZLMU-B		PQRY-P144ZLMU-B			
Minimum Circuit Ampacity	A	13	13	15	15					
Maximum Overcurrent Protection	A	20	20	25	25					
Inlet water	Water flow rate	G/h	1,522 + 1,522		1,902 + 1,902					
		G / min	25.4 + 25.4		31.7 + 31.7					
		m³/h	5.76 + 5.76		7.20 + 7.20					
		L/min	96 + 96		120 + 120					
		cfm	3.4 + 3.4		4.2 + 4.2					
	Pressure drop	psi	3.48	3.48	6.38	6.38				
	kPa	24	24	44	44					
Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902				1,189 + 1,189 ~ 3,054 + 3,054				
	G / min	13.2 + 13.2 ~ 31.7 + 31.7				19.8 + 19.8 ~ 50.9 + 50.9				
	m³/h	3.0 + 3.0 ~ 7.2 + 7.2				4.5 + 4.5 ~ 11.6 + 11.6				
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1				Inverter scroll hermetic compressor x 1				
	Starting method	Inverter				Inverter				
	Motor output	kW	7.7	7.7	9.5	9.5				
	Case heater	kW	0.035	0.035	0.045	0.045				
External finish: Galvanized steel sheets										
External dimension H x W x D	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor	Over-heat protection				Over-heat protection				
Refrigerant	Type x original charge	R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)		
Net weight	lbs (kg)	406 (184)		406 (184)		510 (231)		510 (231)		
Heat exchanger	plate type		plate type		plate type		plate type			
	Water volume in plate	G	1.22	1.22	1.22	1.22				
	Water pressure	psi	290	290	290	290				
	Max.	MPa	2.0	2.0	2.0	2.0				
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed		3/4 (19.05) Brazed		7/8 (22.2) Brazed		7/8 (22.2) Brazed	
	Low pressure	in. (mm)	-		7/8 (22.2) Brazed		-		1-1/8 (28.58) Brazed	
Optional parts	Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2				Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2					

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

*Due to continuing improvement, above specifications may be subject to change without notice.
*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)
*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

*The Heat Source Unit should not be installed at outdoor.
*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
*Be sure to provide interlocking for the unit operation and water circuit.

*Install the supplied insulation material to the unused drain-socket.
*When installing insulation material around both water and refrigerant piping, follow the installation manual.
*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQRY-P312ZSLMU-B		
Indoor Model		Non-Ducted	Ducted	
Power source		3-phase 3-wire 575 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	312,000	
	*1	kW	91.4	
(575)	Power input	kW	23.41	
	Current input	A	26.1	
(Rated)		BTU/h	298,000	
		kW	87.3	
(575)	Power input	kW	22.45	24.98
	Current input	A	25.0	27.8
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Inlet water	°F	50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU/h	350,000	
	*2	kW	102.6	
(575)	Power input	kW	19.11	
	Current input	A	21.3	
(Rated)		BTU/h	334,000	
		kW	97.9	
(575)	Power input	kW	17.09	17.12
	Current input	A	19.0	19.0
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Inlet water	°F	50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		
	Model/Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)		dB <A>	72.5	
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-3/8 (34.93) Brazed	
Set Model				
Model		PQRY-P168ZLMU-B		PQRY-P144ZLMU-B
Minimum Circuit Ampacity		A	21	15
Maximum Overcurrent Protection		A	35	25
Inlet water	Water flow rate	G/h	1,902 + 1,902	
		G / min	31.7 + 31.7	
		m³/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	psi	6.38	6.38
	kPa	44	44	
Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054		
	G / min	19.8 + 19.8 ~ 50.9 + 50.9		
	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	9.5
	Case heater	kW	0.045	0.045
External finish		Galvanized steel sheets		
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16
		mm		1,450 x 880 x 550
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 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	510 (231)		510 (231)
Heat exchanger			plate type	plate type
	Water volume	G	1.22	1.22
	in plate	l	4.6	4.6
	Water pressure	psi	290	290
Max.	MPa	2.0	2.0	
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	
	Low pressure	in. (mm)	-	
Optional parts	Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G-1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2			

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

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

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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



► Specifications

Heat Source Model		PQRY-P336ZSLMU-B	
Indoor Model		Non-Ducted	Ducted
Power source		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1 BTU/h	336,000	
	*1 kW	98.5	
(575)	Power input kW	26.84	
	Current input A	29.9	
(Rated)	BTU/h	320,000	
	kW	93.8	
(575)	Power input kW	25.14	27.11
	Current input A	28.0	30.2
Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)	
	Inlet water °F	50~113°F (10~45°C)	
Heating capacity (Nominal)	*2 BTU/h	378,000	
	*2 kW	110.8	
(575)	Power input kW	20.77	
	Current input A	23.1	
(Rated)	BTU/h	360,000	
	kW	105.5	
(575)	Power input kW	18.49	19.10
	Current input A	20.6	21.3
Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)	
	Inlet water °F	50~113°F (10~45°C)	
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity	
	Model/Quantity	P04~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	73.0	
Refrigerant piping diameter	High pressure in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure in. (mm)	1-5/8 (41.28) Brazed	

Model		PQRY-P168ZLMU-B	PQRY-P168ZLMU-B
Minimum Circuit Ampacity	A	21	21
Maximum Overcurrent Protection	A	35	35
Inlet water	Water flow rate	G/h	1,902 + 1,902
		G / min	31.7 + 31.7
		m³/h	7.20 + 7.20
		L/min	120 + 120
		cfm	4.2 + 4.2
	Pressure drop	psi	6.38
	kPa	44	44
Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054	
	G / min	19.8 + 19.8 ~ 50.9 + 50.9	
	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	0.045
External finish		Galvanized steel sheets	
External dimension H x W x D	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
	mm	1,450 x 880 x 550	1,450 x 880 x 550
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit	Over-heat protection, Over-current protection	
	Compressor	Over-heat protection	
Refrigerant	Type x original charge	R410A x 13 lbs + 4 oz (6.0 kg)	R410A x 13 lbs + 4 oz (6.0 kg)
Net weight	lbs (kg)	510 (231)	510 (231)
Heat exchanger	plate type		plate type
	Water volume	G	1.22
	in plate	l	4.6
	Water pressure	psi	290
Max.	MPa	2.0	
Pipe between unit and distributor	High pressure in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure in. (mm)	-	1-1/8 (28.58) Brazed
Optional parts		Heat Source Twinning kit: CMY-Q200CBK joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G-1 Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104, 108NU-KB2	

Notes:

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

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

*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

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

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

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

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

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

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

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

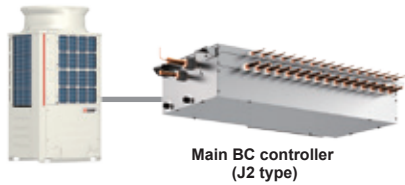
*When installing insulation material around both water and refrigerant piping, follow the installation manual.

*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Lineup of BC controllers

The BC controller lineup includes the J2 type (main BC controller), the JA2 and KA2 types (main BC controller used with sub BC controller), and the KB2 type (sub BC controller).

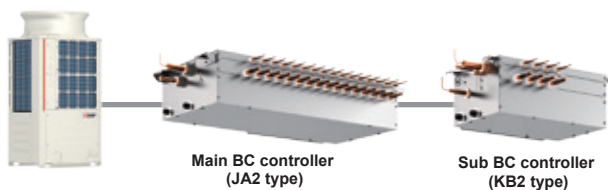
- System with a single BC controller



Main BC controller (J2 type)

Model	Number of branches	Connectable outdoor unit capacity
CMB-P104NU-J2	4	(E)P72 to (E)P120
CMB-P106NU-J2	6	
CMB-P108NU-J2	8	
CMB-P1012NU-J2	12	
CMB-P1016NU-J2	16	

- System with multiple BC controllers



Main BC controller (JA2 and KA2 types)

Model	Number of branches	Connectable outdoor unit capacity
CMB-P108NU-JA2	8	(E)P72 to (E)P336
CMB-P1012NU-JA2	12	
CMB-P1016NU-JA2	16	
CMB-P1016NU-KA2	16	(E)P72 to (E)P432

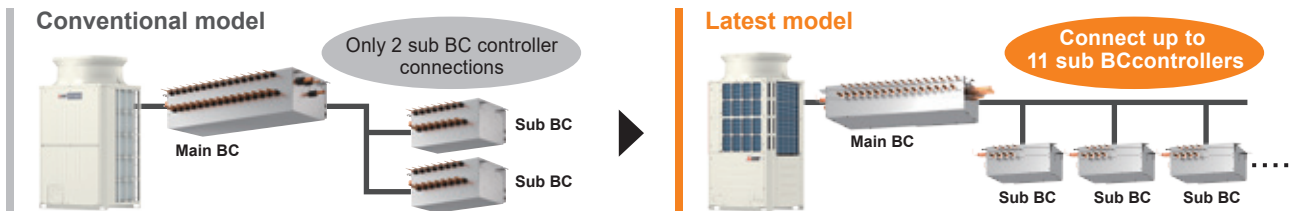
Sub BC controller (KB2 types)

Model	Number of branches	Connectable Main BC controller
CMB-P104NU-KB2	4	CMB-P108/1012/1016NU-JA2, CMB-P1016NU-KA2
CMB-P108NU-KB2	8	

Sub BC controller connections increased

Only two sub BC controllers could be connected to a main BC controller in previous models. Up to 11 sub BC controllers can now be connected to the latest BC controller, allowing for more flexibility in system design.

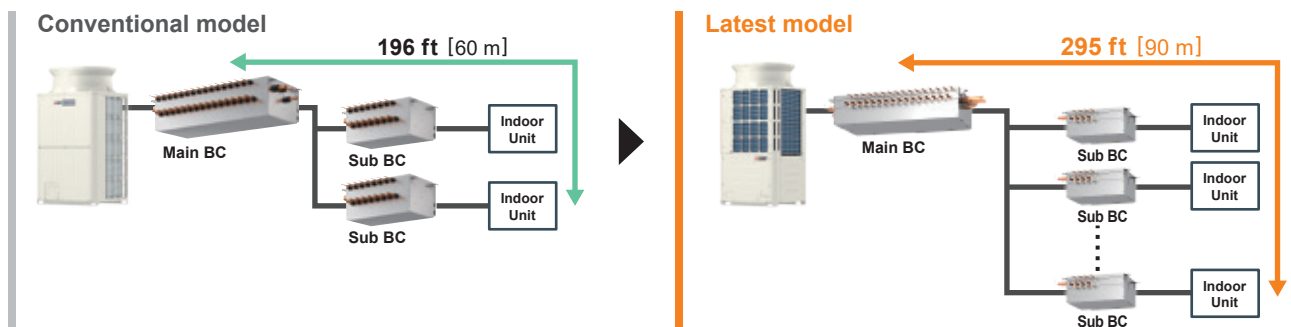
The line-branching method enables the creation of system designs that use less refrigerant.



Greater flexibility in refrigerant piping design

The piping length from the main BC controller to indoor units has been increased from 196 ft [60 m] to 295 ft [90 m], providing greater flexibility in piping design.

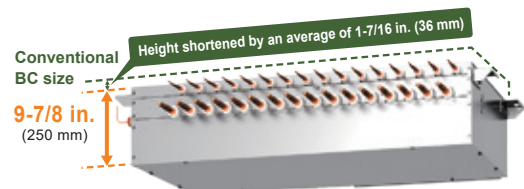
*Sub BC controllers should be used when piping length is 196 ft [60 m] or more.



Reduced height

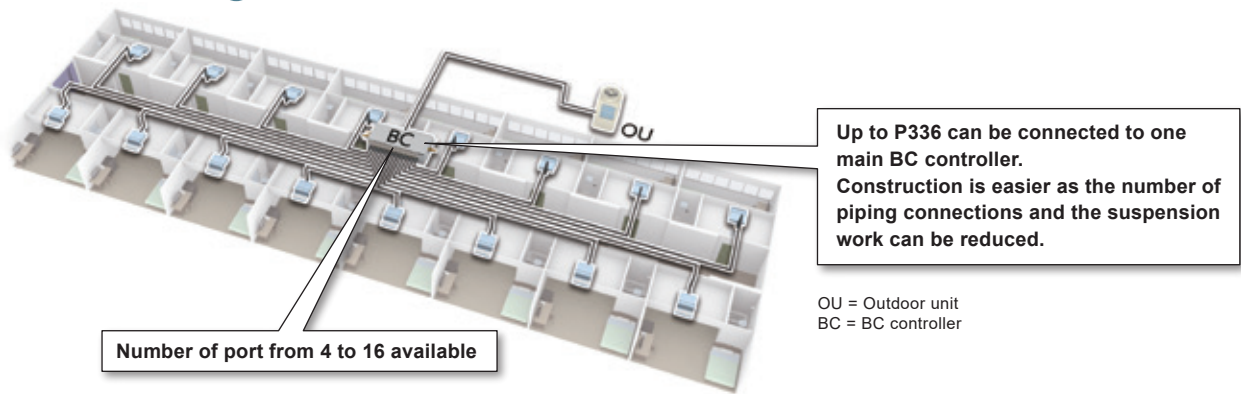
With an average lower height of 1-7/16 in. (36 mm) compared to previous sub BC controllers, the latest design can be installed in ceilings with limited space.

* Servicing space is required.



Refer to the DATA BOOK for the restrictions for using an old-type BC controller.

BC controller design can be selected from various patterns depending on use. Pattern using multi-branch main BC controller

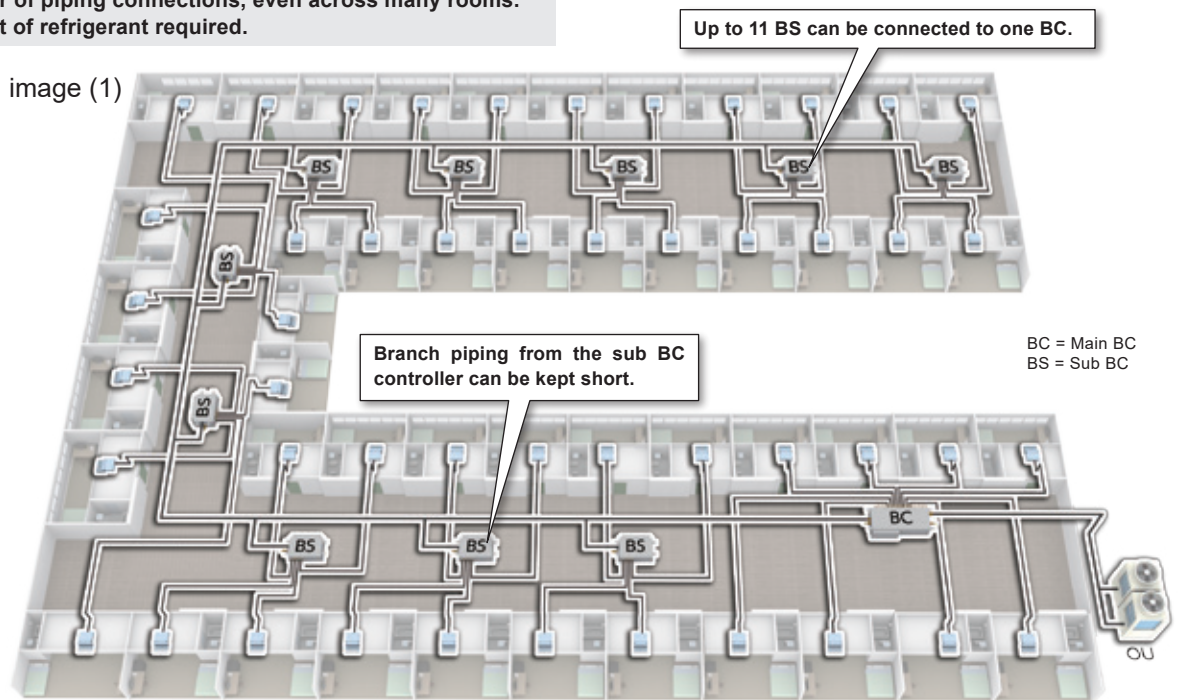


The line-branching method with a main BC controller and sub BC controllers

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

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

• Installation image (1)



*When you install sub BC controller, please refer to DATA BOOK for full detail.

Comparison of piping design for 48 rooms

Conventional model	Latest model
<p>Branch piping from sub BC controller is long</p> <p>*The 16 branch BC controller is an older model, and is not possible in this design. This design is not possible with the latest sub BC controller.</p>	<p>The sub BC controller can be installed near the indoor units, so the branch piping can be greatly reduced. This also reduces the length of system piping, enabling using less refrigerant design.</p>

Overall branch piping length reduced → **Refrigerant amount reduced by 20%***

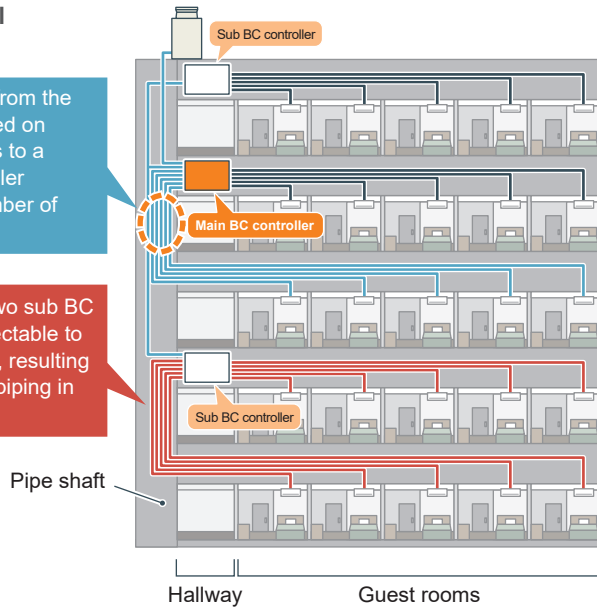
* Outdoor unit: P336
 * Indoor units: P08 × 48 units
 * BC controllers: Conventional HA1 + HB1 (16-branch) × 2 units
 Latest JA2 + KB2 (4-branch) × 10 units

• Installation image (2)

Conventional model

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

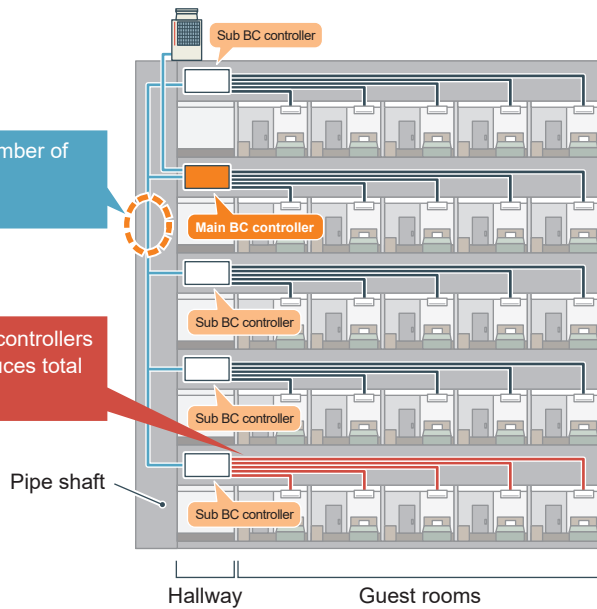
Originally, only up to two sub BC controllers were connectable to the main BC controller, resulting in the need for longer piping in certain applications.



Latest model

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

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

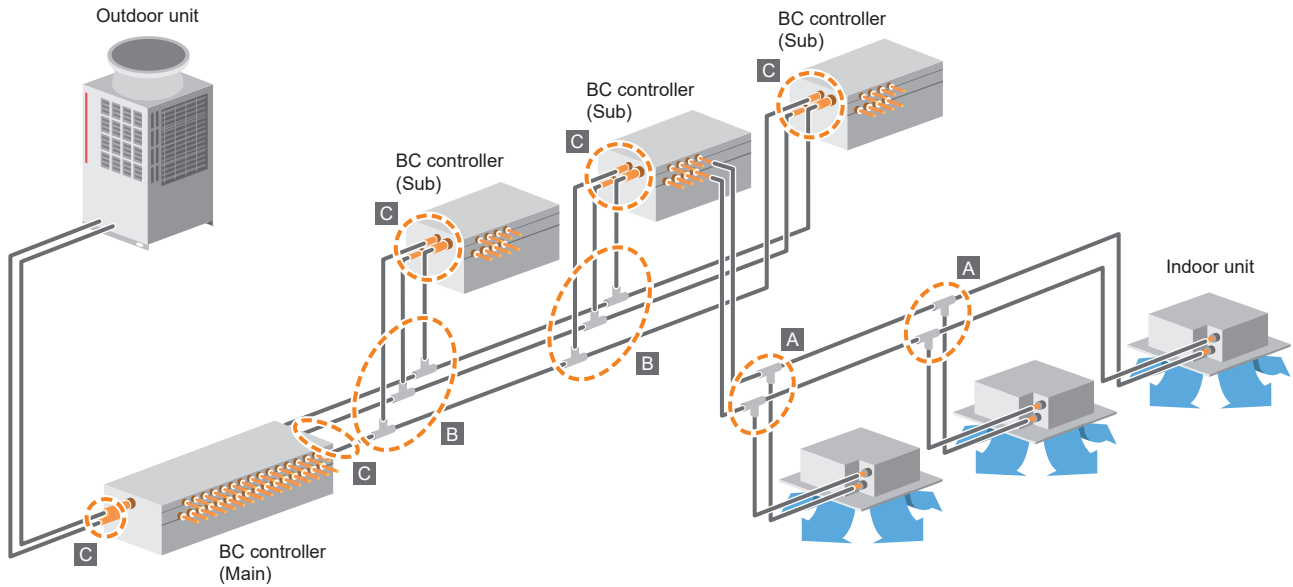


Refrigerant amount reduced by 20%*

* Outdoor unit: P192 (PURY-P)
 * Indoor units: P06 × 25 units
 * BC controllers: Conventional GA1 + HB1 (16-branch) × 2 units
 Latest JA2 + KB2 (8-branch) × 4 units

Optional parts

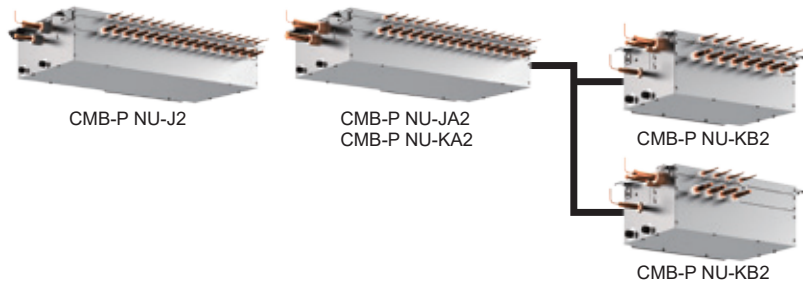
- For BC controllers



A	Branch pipe (Joint)	Between BC and indoor units	CMY-Y102SS-G2	Total down-stream indoor unit capacity: -P72
			CMY-Y102LS-G2	Total down-stream indoor unit capacity: P73-P96
B	Joint and Reducer	Between Main BC and Sub BC	CMY-R201S-G	Total down-stream indoor unit capacity: -P126
			CMY-R202S-G	Total down-stream indoor unit capacity: P127-P216
			CMY-R203S-G	Total down-stream indoor unit capacity: P217-P234
			CMY-R204S-G	Total down-stream indoor unit capacity: P235-P360
			CMY-R205S-G	Total down-stream indoor unit capacity: P361-
C	Reducer	Between outdoor units and BC	CMY-R301S-G	For J2 type (Outdoor unit capacity: P72-P120)
			CMY-R302S-G1	For JA2 type (Outdoor unit capacity: P72-P336)
			CMY-R304S-G1	For KA2 type (Outdoor unit capacity: P72-P432)
		Between Main BC and Sub BC	CMY-R303S-G1	For JA2 type (When using the Sub BC controller)
			CMY-R305S-G1	For KA2 type (When using the Sub BC controller)
			CMY-R306S-G	For KB2 type
			Joint pipe kit	CMY-R160-J2

◆Item "B" is not necessary when J2-type BC controller is used.

CMB-P NU-J2 CMB-P NU-JA2 CMB-P NU-KA2 CMB-P NU-KB2



J2 type

CMB-P NU-J2

► Specifications

Model		CMB-P104NU-J2	CMB-P106NU-J2			CMB-P108NU-J2			CMB-P1012NU-J2			CMB-P1016NU-J2					
Number of branch		4	6			8			12			16					
Power source		1-phase 208-230 V															
		60 Hz			60 Hz			60 Hz			60 Hz						
Power input (208/230)	Cooling	0.061/0.078			0.091/0.118			0.122/0.157			0.182/0.235			0.243/0.314			
	Heating	0.030/0.039			0.046/0.059			0.061/0.078			0.091/0.118			0.122/0.157			
Current input (208/230)	Cooling	0.30/0.35			0.44/0.52			0.59/0.69			0.88/1.03			1.17/1.37			
	Heating	0.15/0.18			0.22/0.26			0.30/0.35			0.44/0.52			0.59/0.69			
External finish		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)															
Connectable outdoor/heat source unit capacity		P72 to P120															
Indoor unit capacity connectable to 1 branch *11		Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.)															
External dimension		250 x 596 x 398			250 x 596 x 398			250 x 596 x 398			250 x 911 x 545			250 x 1,135 x 545			
HxWxD		9-7/8 x 23-1/2 x 15-11/16			9-7/8 x 23-1/2 x 15-11/16			9-7/8 x 23-1/2 x 15-11/16			9-7/8 x 35-7/8 x 21-1/2			9-7/8 x 44-11/16 x 21-1/2			
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	
		mm(in.) O.D.	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed
		mm(in.) O.D.	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed
	*12	mm(in.) O.D.	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed
	To indoor unit	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe
		Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)
Field drain pipe size		in. 3/4 NPT			3/4 NPT			3/4 NPT			3/4 NPT			3/4 NPT			
Net weight		kg (lbs) 25 (56)			28 (62)			32 (71)			48 (106)			58 (128)			
Sound power level (measured in anechoic room)	Rated operation	dB <A> 59			59			59			59			59			
	Defrost	dB <A> 71			71			71			71			71			
Accessories		Square Washer			Square Washer			Square Washer			Square Washer			Square Washer			

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
11. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

JA2 type

CMB-P NU-JA2

► Specifications

Model			CMB-P108NU-JA2			CMB-P1012NU-JA2			CMB-P1016NU-JA2				
Number of branch			8			12			16				
Power source			60 Hz			1-phase 208-230 V			60 Hz				
Power input (208/230)	Cooling	kW	0.137/0.176			0.198/0.255			0.258/0.333				
	Heating	kW	0.076/0.098			0.106/0.137			0.137/0.176				
Current input (208/230)	Cooling	A	0.66/0.77			0.95/1.11			1.25/1.45				
	Heating	A	0.37/0.43			0.52/0.60			0.66/0.77				
External finish			Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)										
Connectable outdoor/heat source unit capacity			P72 to P336										
Indoor unit capacity connectable to 1 branch *11			Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.)										
External dimension HxWxD	mm	250 x 911 x 545			250 x 1,135 x 545			250 x 1,135 x 545					
	in.	9-7/8 x 35-7/8 x 21-1/2			9-7/8 x 44-11/16 x 21-1/2			9-7/8 x 44-11/16 x 21-1/2					
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe	Connectable unit capacity	High press. pipe	Low press. pipe			
		mm(in.) O.D.	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
	*12	mm(in.) O.D.	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
		mm(in.) O.D.	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed		
	*12	mm(in.) O.D.	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed		
		mm(in.) O.D.	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed		
	*12	mm(in.) O.D.	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed		
		mm(in.) O.D.	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed		
	*12	mm(in.) O.D.	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed		
		mm(in.) O.D.	P336	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	P336	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	P336	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed		
	To indoor unit	mm(in.) O.D.	Liquid pipe		Gas pipe		Liquid pipe		Gas pipe		Liquid pipe		
			Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed	Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	
To other BC controller	Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe	Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe	Total down-stream Indoor unit capacity	High press. pipe	Liquid pipe	Low press. pipe	
		mm(in.) O.D.	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed	to P72	15.88 (5/8) Brazed	9.52 (3/8) Brazed
	mm(in.) O.D.	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed	P73 to P108	19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
		mm(in.) O.D.	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P109 to P126	19.05 (3/4) Brazed	12.7 (1/2) Brazed
	mm(in.) O.D.	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed	P127 to P144	22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P145 to P216	22.2 (7/8) Brazed	15.88 (5/8) Brazed
	mm(in.) O.D.	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed	P217 to P234	28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
		mm(in.) O.D.	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	34.93 (1-3/8) Brazed	P235 to P288	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed
	mm(in.) O.D.	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed	P289 or above	28.58 (1-1/8) Brazed	19.05 (3/4) Brazed	41.28 (1-5/8) Brazed
Field drain pipe size	in.	3/4 NPT			3/4 NPT			3/4 NPT					
Net weight	kg (lbs)	48 (106)			60 (133)			66 (146)					
Sound power level (measured in anechoic room)	Rated operation	dB <A>	69			69			69				
	Defrost	dB <A>	74			74			74				
Accessories			Square Washer			Square Washer			Square Washer				

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
11. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

KA2 type

CMB-P NU-KA2

► Specifications

Model		CMB-P1016NU-KA2						
Number of branch		16						
Power source		1-phase 208-230 V						
		60 Hz						
Power input (208/230)	Cooling	kW	0.258/0.333					
	Heating	kW	0.137/0.176					
Current input (208/230)	Cooling	A	1.25/1.45					
	Heating	A	0.66/0.77					
External finish		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)						
Connectable outdoor/heat source unit capacity		P72 to P432						
Indoor unit capacity connectable to 1 branch *11		Model P54 or smaller (Use optional joint pipe combining 2 branches when the total unit capacity exceeds P55.)						
External dimension		mm						
HxWxD		250 x 1,135 x 545 9-7/8 x 44-11/16 x 21-1/2						
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity	High press. pipe		Low press. pipe			
			mm(in.) O.D.	P72	15.88 (5/8) Brazed	19.05 (3/4) Brazed		
			mm(in.) O.D.	P96	19.05 (3/4) Brazed	22.2 (7/8) Brazed		
			*12	mm(in.) O.D.	P120	19.05 (3/4) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	
				mm(in.) O.D.	P144 to P192	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
			*12	mm(in.) O.D.	P216	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
				mm(in.) O.D.	P240	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
			*12	mm(in.) O.D.	P264 to P288	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	
				mm(in.) O.D.	P312	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed or 41.28 (1-5/8) Brazed	
				mm(in.) O.D.	P336 to P384	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	
				mm(in.) O.D.	P432	28.58 (1-1/8) Brazed	41.28 (1-5/8) Brazed	
			To indoor unit	Liquid pipe			Gas pipe	
				mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed		Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)	
			To other BC controller	Total down-stream Indoor unit capacity		High press. pipe	Liquid pipe	Low press. pipe
				mm(in.) O.D. to P72		15.88 (5/8) Brazed	9.52 (3/8) Brazed	19.05 (3/4) Brazed
				mm(in.) O.D. P73 to P108		19.05 (3/4) Brazed	9.52 (3/8) Brazed	22.2 (7/8) Brazed
				mm(in.) O.D. P109 to P126		19.05 (3/4) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
				mm(in.) O.D. P127 to P144		22.2 (7/8) Brazed	12.7 (1/2) Brazed	28.58 (1-1/8) Brazed
				mm(in.) O.D. P145 to P216		22.2 (7/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
				mm(in.) O.D. P217 to P234		28.58 (1-1/8) Brazed	15.88 (5/8) Brazed	28.58 (1-1/8) Brazed
mm(in.) O.D. P235 to P288		28.58 (1-1/8) Brazed		19.05 (3/4) Brazed	34.93 (1-3/8) Brazed			
mm(in.) O.D. P289 or above		28.58 (1-1/8) Brazed		19.05 (3/4) Brazed	41.28 (1-5/8) Brazed			
Field drain pipe size		in. 3/4 NPT						
Net weight		kg (lbs) 69 (153)						
Sound power level (measured in anechoic room)	Rated operation	dB <A> 66						
	Defrost	dB <A> 73						
Accessories		Square Washer						

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
11. For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.

KB2 type

CMB-P NU-KB2

► Specifications

Model		CMB-P104NU-KB2								
Number of branch		4								
Power source		1-phase 208-230 V								
		60 Hz								
Power input (208/230)	Cooling	kW	0.061/0.078							
	Heating	kW	0.030/0.039							
Current input (208/230)	Cooling	A	0.30/0.35							
	Heating	A	0.15/0.18							
External finish		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)								
Connectable Main BC controller		CMB-P108/1012/1016NU-JA2, CMB-P1016NU-KA2								
The maximum number of connectable Sub BC controllers		11								
The maximum connectable capacity of indoor units		P126 for each								
External dimension		250 x 596 x 398								
HxWxD		9-7/8 x 23-1/2 x 15-11/16								
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity		High press. pipe		Low press. pipe				
		mm(in.) O.D.		-		-				
	To indoor unit	Liquid pipe			Gas pipe					
		mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed			Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)				
	To other BC controller	Total down-stream Indoor unit capacity		High press. pipe		Liquid pipe		Low press. pipe		
		mm(in.) O.D.	to P72		15.88 (5/8) Brazed		9.52 (3/8) Brazed		19.05 (3/4) Brazed	
		mm(in.) O.D.	P73 to P108		19.05 (3/4) Brazed		9.52 (3/8) Brazed		22.2 (7/8) Brazed	
		mm(in.) O.D.	P109 to P126		19.05 (3/4) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed	
		mm(in.) O.D.	P127 to P144		22.2 (7/8) Brazed		12.7 (1/2) Brazed		28.58 (1-1/8) Brazed	
		mm(in.) O.D.	P145 to P216		22.2 (7/8) Brazed		15.88 (5/8) Brazed		28.58 (1-1/8) Brazed	
mm(in.) O.D.		P217 to P234		28.58 (1-1/8) Brazed		15.88 (5/8) Brazed		28.58 (1-1/8) Brazed		
mm(in.) O.D.		P235 to P288		28.58 (1-1/8) Brazed		19.05 (3/4) Brazed		34.93 (1-3/8) Brazed		
mm(in.) O.D.	P289 or above		28.58 (1-1/8) Brazed		19.05 (3/4) Brazed		41.28 (1-5/8) Brazed			
Field drain pipe size		in.		3/4 NPT						
Net weight		kg (lbs)		22 (49)						
Sound power level (measured in anechoic room)	Rated operation	dB <A>		59						
	Defrost	dB <A>		71						
Accessories		Square Washer								

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
11. Can't use singleness. (MAIN BC CONTROLLER is necessary)

KB2 type

CMB-P NU-KB2

► Specifications

Model		CMB-P108NU-KB2							
Number of branch		8							
Power source		1-phase 208-230 V							
		60 Hz							
Power input (208/230)	Cooling	kW	0.122/0.157						
	Heating	kW	0.061/0.078						
Current input (208/230)	Cooling	A	0.59/0.69						
	Heating	A	0.30/0.35						
External finish		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)							
Connectable Main BC controller		CMB-P108/1012/1016NU-JA2, CMB-P1016NU-KA2							
The maximum number of connectable Sub BC controllers		11							
The maximum connectable capacity of indoor units		P126 for each							
External dimension		250 x 596 x 398							
HxWxD		9-7/8 x 23-1/2 x 15-11/16							
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity		High press. pipe		Low press. pipe			
		mm(in.) O.D.		-		-			
	To indoor unit	Liquid pipe			Gas pipe				
		mm(in.) O.D.	Indoor unit Model 18 or smaller 6.35 (1/4) Brazed bigger than 18 9.52 (3/8) Brazed			Indoor unit Model 18 or smaller 12.7 (1/2) Brazed bigger than 18 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)			
	To other BC controller	Total down-stream Indoor unit capacity		High press. pipe		Liquid pipe		Low press. pipe	
		mm(in.) O.D.		to P72		15.88 (5/8) Brazed		9.52 (3/8) Brazed	
		mm(in.) O.D.		P73 to P108		19.05 (3/4) Brazed		9.52 (3/8) Brazed	
		mm(in.) O.D.		P109 to P126		19.05 (3/4) Brazed		12.7 (1/2) Brazed	
		mm(in.) O.D.		P127 to P144		22.2 (7/8) Brazed		12.7 (1/2) Brazed	
		mm(in.) O.D.		P145 to P216		22.2 (7/8) Brazed		15.88 (5/8) Brazed	
mm(in.) O.D.		P217 to P234		28.58 (1-1/8) Brazed		15.88 (5/8) Brazed			
mm(in.) O.D.		P235 to P288		28.58 (1-1/8) Brazed		19.05 (3/4) Brazed			
mm(in.) O.D.		P289 or above		28.58 (1-1/8) Brazed		19.05 (3/4) Brazed			
Field drain pipe size		in.		3/4 NPT					
Net weight		kg (lbs)		29 (64)					
Sound power level (measured in anechoic room)	Rated operation	dB <A>		59					
	Defrost	dB <A>		71					
Accessories		Square Washer							

Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
4. Sound power level differs depending on the connected outdoor/heat source unit capacity or operation condition.
The sound power level at the rated operation is the value of the cooling mode.
5. The sound power level values were obtained in an anechoic room. Actual sound power level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The solenoid valve switching sound is 74 dB (sound power level) regardless of the unit model.
7. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
8. This unit is not designed for outside installations.
9. When brazing the pipes, be sure to braze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
10. Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
11. Can't use singleness. (MAIN BC CONTROLLER is necessary)