

**PQRY-P THMU-A**



**SPECIFICATIONS**

Model		PQRY-P72THMU-A		PQRY-P96THMU-A		PQRY-P120YHMU-A	
Power source		3-phase 3-wire 208-230 ±10% 60Hz		3-phase 3-wire 208-230 ±10% 60Hz		3-phase 3-wire 460 ±10% 60Hz	
Cooling capacity (Nominal)	*1	BTU / h	72,700	96,300	120,000		
	*1	kW	21.3	28.2	35.2		
Power input		kW	3.97	5.77	7.73		
		A	12.6-11.4	17.9-16.2	10.6		
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)		
	Circulating water	°F(°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	BTU / h	80000	108000	135000		
	*2	kW	23.4	31.7	39.6		
		kW	3.83	6.18	7.62		
		A	11.8-10.7	19.1-17.2	10.6		
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)		
	Circulating water	°F(°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)		
Indoor unit connectable	Total capacity		50~150% of heatsource unit capacity	50~150% of heatsource unit capacity	50~150% of heatsource unit capacity		
	Model / Quantity		P06~P96 / 1~18	P06~P96 / 1~24	P06~P96 / 1~30		
Sound pressure level (measured in anechoic room)		dB <A>	47	49	51		
Refrigerant piping diameter [O.D.]	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		
Circulating water	Water flow rate	G / h	1,522	1,522	1,522		
		G / min	25.4	25.4	25.4		
		cfm	3.4	3.4	3.4		
		m³ / h	5.76	5.76	5.76		
		L / min	96	96	96		
	Pressure drop	kPa	17	17	17		
		psi	2.47	2.47	2.47		
	Operating volume range	G / h	1189 - 1902	1189 - 1902	1189 - 1902		
		G / min	19.8 - 31.7	19.8 - 31.7	19.8 - 31.7		
		m³ / h	4.5 - 7.2	4.5 - 7.2	4.5 - 7.2		
Compressor	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter		
	Motor output	kW	4.5	6.2	8.5		
	Case heater	kW	0.051 (230V)	0.051 (230V)	0.051 (230V)		
External finish			Acrylic painted steel plate	Acrylic painted steel plate	Acrylic painted steel plate		
External dimension HxWxD	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 (COMP.)		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)		
Net weight	lbs (kg)		402 (182)	402 (182)	428 (194)		
Heat exchanger			plate type	plate type	plate type		
	Water volume in plate	G	1.32	1.32	1.32		
		L	5.0	5.0	5.0		
	Water pressure Max.	psi	290	290	290		
MPa		2.0	2.0	2.0			
Optional parts			joint :CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J BC controller : CMB-P104, 105, 106, 108, 1010, 1013, 1016NU-G Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB	joint :CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J BC controller : CMB-P104, 105, 106, 108, 1010, 1013, 1016NU-G Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB	joint :CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J BC controller : CMB-P104, 105, 106, 108, 1010, 1013, 1016NU-G Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB		

\*1,\*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	85°F (29.4°C)	25ft. (7.6m)	0ft. (0m)
Heating	70°F D.B. (21.1°C D.B.)	70°F (21.1°C)		

\*3 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*4 The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40°C DB).

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

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

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

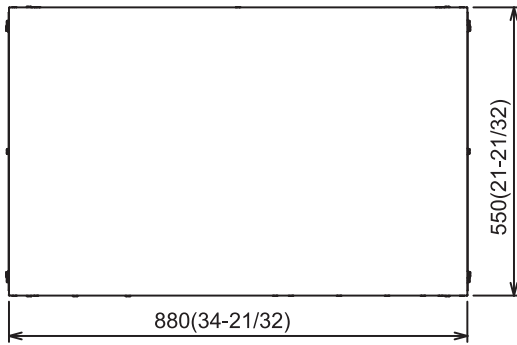
\*Due to continuing improvement, above specification may be subject to change without notice.

\*The data presented is based on a specific combination.

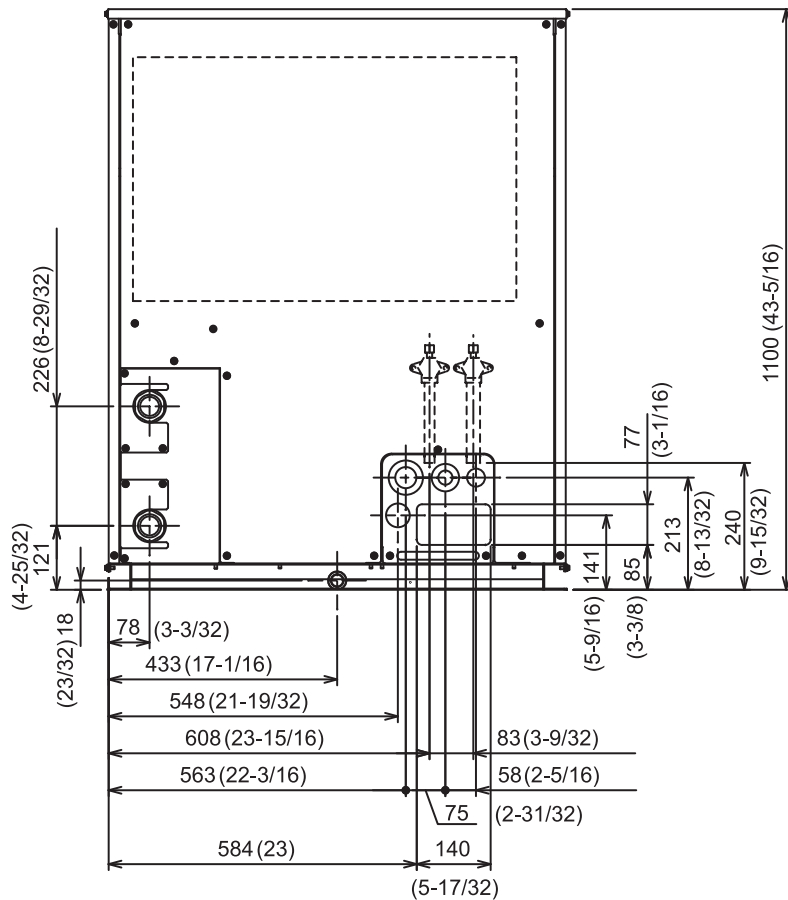
**PQRY-P THMU-A**

PQRY-P72/96/120THMU-A

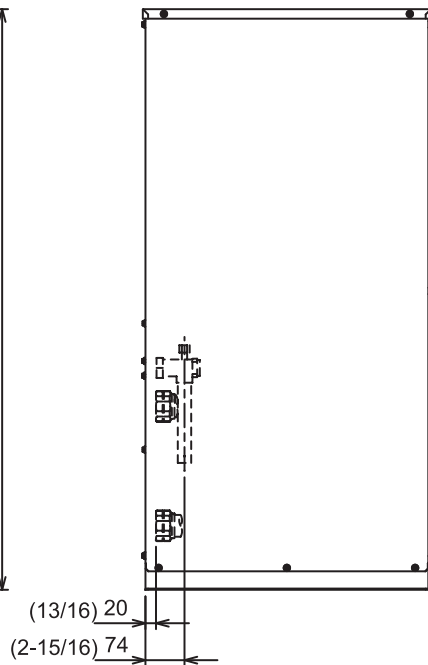
Top view



Front view



Side view





PQRY-P TSHMU-A

SPECIFICATIONS

Model		PQRY-P144TSHMU-A		PQRY-P168TSHMU-A		PQRY-P192TSHMU-A	
Power source		3-phase 3-wire 208-230 ±10% 60Hz		3-phase 3-wire 208-230 ±10% 60Hz		3-phase 3-wire 208-230 ±10% 60Hz	
Cooling capacity (Nominal)	*1	BTU / h	145,400	169,100	192,600		
	*1	kW	42.6	49.6	56.4		
Power input		kW	8.18	10.02	11.89		
		A	25.9-23.4	31.4-28.4	37.0-33.4		
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	59~75°F (15~24°C)	59~75°F (15~24°C)		
	Circulating water	°F(°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)		
Heating capacity (Nominal)	*2	BTU / h	160,000	188,000	216,000		
	*2	kW	46.9	55.1	63.3		
Power input		kW	7.89	10.32	12.74		
		A	24.3-22.0	31.8-28.8	39.3-35.5		
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	59~81°F (15~27°C)	59~81°F (15~27°C)		
	Circulating water	°F(°C)	50~113°F (10~45°C)	50~113°F (10~45°C)	50~113°F (10~45°C)		
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity		
	Model / Quantity		P06~P96 / 1~36	P06~P96 / 1~42	P06~P96 / 1~48		
Sound pressure level (measured in anechoic room)		dB <A>	50	51	52		
Refrigerant piping diameter [O.D.]	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		PQRY-P72THMU-A		PQRY-P96THMU-A		PQRY-P168THMU-A		PQRY-P192THMU-A	
Circulating water	Water flow rate	G / h	1522 + 1522		1522 + 1522		1522 + 1522		
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4		
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4		
		m³ / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76		
		L / min	96 + 96		96 + 96		96 + 96		
	Pressure drop	kPa	17	17	17	17	17	17	
psi		2.47	2.47	2.47	2.47	2.47	2.47		
Operating volume range	G / h	1189 + 1189 ~ 1902 + 1902		1189 + 1189 ~ 1902 + 1902		1189 + 1189 ~ 1902 + 1902			
	G / min	19.8 + 19.8 ~ 31.7 + 31.7		19.8 + 19.8 ~ 31.7 + 31.7		19.8 + 19.8 ~ 31.7 + 31.7			
	m³ / h	4.5 + 4.5 ~ 7.2 + 7.2		4.5 + 4.5 ~ 7.2 + 7.2		4.5 + 4.5 ~ 7.2 + 7.2			
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter		
	Motor output	4.5		6.2		4.5			
	Case heater	0.051 (230V)		0.051 (230V)		0.051 (230V)			
External finish		Acrylic painted steel plate		Acrylic painted steel plate		Acrylic painted steel plate			
External dimension HxWxD	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 (COMP.)	Over-heat protection		Over-heat protection		Over-heat protection			
	Compressor	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
Refrigerant	Type x original charge	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)	R410A x (11 lbs + 1 oz) (5 kg)		
Net weight	lbs (kg)	402 (182)	402 (182)	402 (182)	402 (182)	402 (182)	402 (182)		
Heat exchanger	Water volume in plate	G	1.32	1.32	1.32	1.32	1.32		
		L	5.0	5.0	5.0	5.0	5.0		
	Water pressure Max.	psi	290	290	290	290	290		
		MPa	2.0	2.0	2.0	2.0	2.0		
Optional parts		Heat Source Twinning kit : CMY-Q100VBK joint : CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB		Heat Source Twinning kit : CMY-Q100VBK joint : CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB		Heat Source Twinning kit : CMY-Q100VBK joint : CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB			

\*1,\*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	85°F (29.4°C)	25ft. (7.6m)	0ft. (0m)
Heating	70°F D.B. (21.1°C D.B.)	70°F (21.1°C)		

\*3 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*4 The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40°C DB).

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

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

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

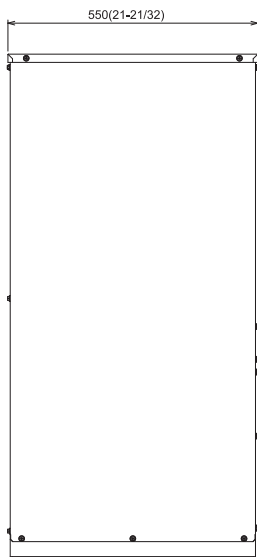
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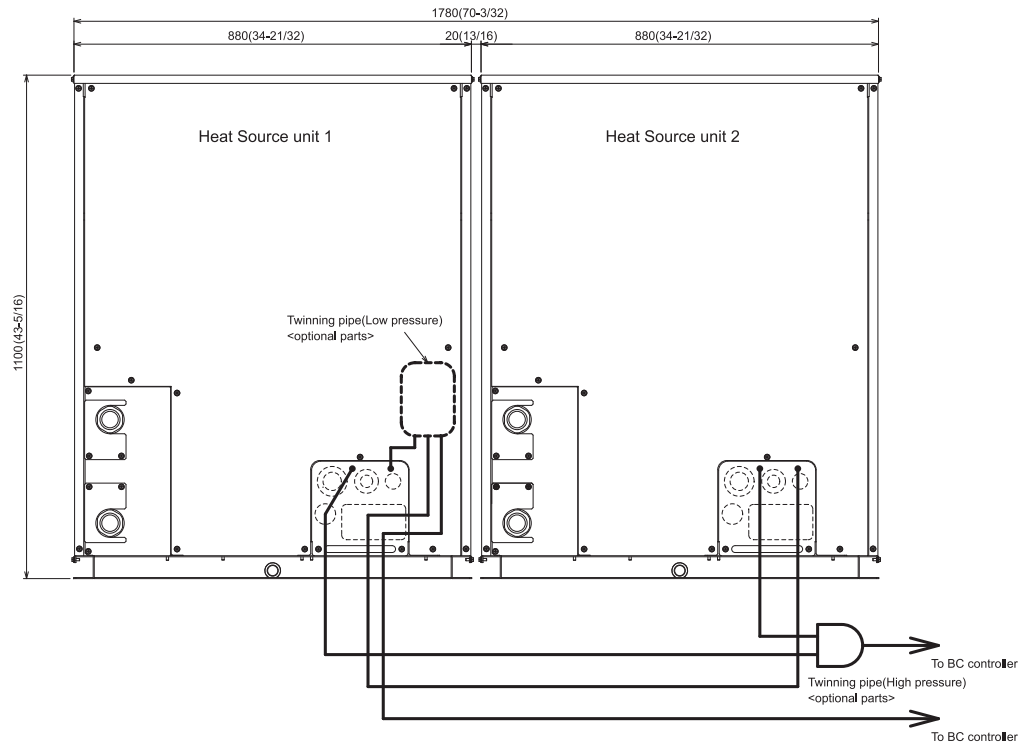
**PQRY-P TSHMU-A**

PQRY-P144/168/192TSHMU-A

Side view



Front view





**PQRY-P TSHMU-A**

**SPECIFICATIONS**

Model	PQRY-P216TSHMU-A		PQRY-P240TSHMU-A	
Power source	3-phase 3-wire 208-230 ±10% 60Hz		3-phase 3-wire 208-230 ±10% 60Hz	
Cooling capacity (Nominal)	*1	BTU / h	216,000	
	*1	kW	63.3	
	Power input	kW	13.90	
	Current input	A	42.8-38.7	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Circulating water	°F(°C)	50~113°F (10~45°C)	
Heating capacity (Nominal)	*2	BTU / h	243,000	
	*2	kW	71.2	
	Power input	kW	14.22	
	Current input	A	43.9-39.7	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Circulating water	°F(°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	P06~P96 / 2~50 (Connectable branch pipe number is max 48.)		P06~P96 / 2~50 (Connectable branch pipe number is max 48.)
Sound pressure level (measured in anechoic room)	dB <A>		53	
Refrigerant piping diameter [O.D.]	High pressure	in. (mm)	1-1/8 (28.58) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	

Set Model	PQRY-P120THMU-A		PQRY-P96THMU-A		PQRY-P120THMU-A		PQRY-P120THMU-A			
Circulating water	Water flow rate	G / h	1522 + 1522		1522 + 1522		1522 + 1522			
		G / min	25.4 + 25.4		25.4 + 25.4		25.4 + 25.4			
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4			
		m³ / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76			
		L / min	96 + 96		96 + 96		96 + 96			
		Pressure drop	kPa	17		17		17		
	psi	2.47		2.47		2.47				
Operating volume range	G / h	1189 + 1189 ~ 1902 + 1902		1189 + 1189 ~ 1902 + 1902		1189 + 1189 ~ 1902 + 1902				
	G / min	19.8 + 19.8 ~ 31.7 + 31.7		19.8 + 19.8 ~ 31.7 + 31.7		19.8 + 19.8 ~ 31.7 + 31.7				
	m³ / h	4.5 + 4.5 ~ 7.2 + 7.2		4.5 + 4.5 ~ 7.2 + 7.2		4.5 + 4.5 ~ 7.2 + 7.2				
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor				
	Starting method	Inverter		Inverter		Inverter				
	Motor output	8.5		6.3		8.5				
	Case heater	0.051 (230V)		0.051 (230V)		0.051 (230V)				
External finish	Acrylic painted steel plate				Acrylic painted steel plate					
External dimension HxWxD	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 (COMP.)	Over-heat protection				Over-heat protection				
	Compressor	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
Refrigerant	Type x original charge	R410A x (11 lbs + 1 oz) (5 kg)		R410A x (11 lbs + 1 oz) (5 kg)		R410A x (11 lbs + 1 oz) (5 kg)		R410A x (11 lbs + 1 oz) (5 kg)		
Net weight	lbs (kg)	402 (182)		402 (182)		402 (182)		402 (182)		
		plate type		plate type		plate type		plate type		
Heat exchanger	Water volume in plate	G	1.32		1.32		1.32		1.32	
		L	5.0		5.0		5.0		5.0	
	Water pressure	psi	290		290		290		290	
		MPa	2.0		2.0		2.0		2.0	
Optional parts	Heat Source Twinning kit : CMY-Q100VBK				Heat Source Twinning kit : CMY-Q100VBK					
	joint : CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J				joint : CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J					
	Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA				Main BC controller : CMB-P108, 1010, 1013, 1016NU-GA					
Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB				Sub BC controller : CMB-P104, 108NU-GB, CMB-P1016NU-HB						

\*1,\*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.)	85°F (29.4°C)	25ft. (7.6m)	0ft. (0m)
Heating	70°F D.B. (21.1°C D.B.)	70°F (21.1°C)		

\*3 The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*4 The ambient temperature of the Heat Source Unit needs to be kept below 104°F DB(40°C DB).

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

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

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

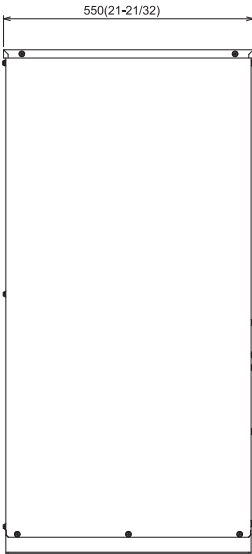
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**PQRY-P TSHMU-A**

PQRY-P216/240TSHMU-A

Side view



Front view

