

MODEL: 26 TON PQRY-P336TSLMU-A1

(CONSISTS OF TWO PQRY-P168TLMU-A1 AND ONE CMY-Q200CBK TWINNING KIT)



Job Name:	
System Reference:	Date:

MODULAR WATER-SOURCE VRF HEAT PUMP SYSTEM



FEATURES

- · Single modules up to 20 tons with the ability to combine single modules for systems up to 30 tons
- 208/230V, 3-Phase, 60Hz and 460V, 3-Phase, 60Hz options
- · Designed for closed water loops
- · Dual heat recovery from water loop and refrigerant circuit
- 0-10V output signal to modulate water flow for compliance with energy codes
- Features Variable Evaporating Temperature (VET) technology, which enables the outdoor unit to raise the target evaporation temperature based on the difference between set point and return air temperature, saving energy.
- Water flow can be stopped while the unit is in a thermo-off state, saving on pump energy consumption.
 For twinned systems, both modules must be thermo-off to stop water flow.
- · Enhanced water-side heat exchanger design for improved efficiency and reduced risk of clogging
- · Self-cooling cabinet design
- Inlet water temperature range: 23-113° F
- Max. Total Refrigerant Piping Length: up to 2,460 feet based on model
- Connects to CITY MULTI® indoor units; controlled via CITY MULTI® Controls Network (CMCN)
- · External finish: Acrylic-painted steel
- Stack multiple units on a field-supplied rack to take advantage of vertical space when available
- Extended 10-year parts and compressor warranty available

ACCESSORIES

- □ Twinning Kit (required) (CMY-Q200CBK)
- □ Joint Kit (for details see Pipe Accessories Submittal)
- □ BC Controller (for details see BC Controller Submittal)

SPECIFICATIONS: PQRY-P336TSLMU-A1

Specifications			System	
Unit Type	PQRY-P336TSLMU-A1			
Nominal Cooling Capacity (208/230V)	Nominal Cooling Capacity (208/230V)			
Nominal Heating Capacity (208/230V)		Btu/h	378,000	
Total Net weight of Modules		Lbs. (kg)	962 (436)	
Electrical Power Requirements	Voltage, Phase, I	Hertz	208 / 230V, 3-phase, 60Hz	
Piping Diameter (Brazed)				
Form Totalian Kitta First Iniat and and the Assay	Liquid pipe	In. (mm)	1-1/8 (28.58)	
From Twinning Kit to First Joint or Header (In. / mm)	Gas pipe	In. (mm)	1-5/8 (41.28)	
Max. Total Refrigerant Line Length			2,460	
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541	
Max. Control Wiring Length		Ft.	1,640	
	Total capacity		50~150% of heat source unit capacity	
Indoor Unit	Model/Quantity		P06~P96/2~50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)		dB(A)	59	
Compressor Operating Range			8% - 100%	
	EER		11.1 / 12.3	
ALIDI Detines (Dueted (New Dueted)	IEER		16.8 / 20.1	
AHRI Ratings (Ducted/Non-Ducted)	COP		4.66 / 5.23	
	SCHE		19.7 / 19.0	

Refer to Module Data*1

Specifications			Module 1 ^{*1}	Module 2*1	
Unit Type			PQRY-P168TLMU-A1	PQRY-P168TLMU-A1	
Nominal Cooling Capacity (208/230V) Btu/h			168,000	168,000	
Nominal Heating Capacity (2	208/230V)	Btu/h	188,000	188,000	
Operating Temperature	Cooling (Indoor)	W.B.	59~75°F (15~24°C)		
Range	Heating (Indoor)	D.B.	59~81° F (15~27°C)		
Operating Water	Circulating water	°F	50~113°F (10~45°C)		
Temperature Range	Circulating water	°F	50~113°F (10~45°C)		
External dimension H x W x D		ln.	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	57-1/8 x 34-11/16 x 21-11/16	
Net weight		lbs. (kg)	481 (218)	481 (218)	
External finish		Galvanized steel sheets			
Electrical Power Voltage, Phase, Hertz Requirements		208 / 230V, 3-phase, 60Hz			
Minimum Circuit Ampacity		Α	44 / 39	44 / 39	

SPECIFICATIONS: PQRY-P336TSLMU-A1

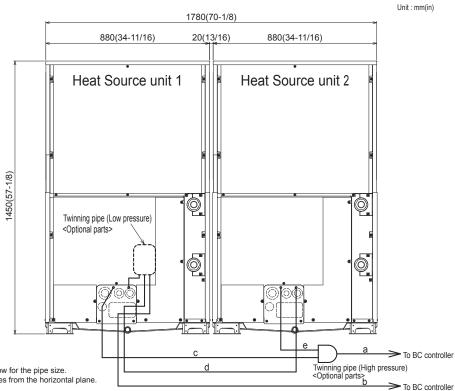
Specifications			Module 1 ^{*1}	Module 2 ^{*1}
Unit Type			PQRY-P168TLMU-A1	PQRY-P168TLMU-A1
Maximum Overcurrent Protection		А	70 / 70	70 / 70
Circulating Water (quality r	nust meet regulat	ions)		
5. 5.		G/min (gpm)	31.7	70 / 70
Flow Rate		L/s	2	2
Pressure Drop		Ft.	14.7	14.7
Pressure Drop		psi	6.38	6.38
Operation Volume Range		G/min (gpm)	19.8 ~ 50.9	19.8 ~ 50.9
Operation volume Range		L/m	75 ~ 193	75 ~ 193
Maximum Water Pressure		MPa	2	2
Maximum Water Pressure		psi	290	290
Water-source Connection for Inlet and Outlet In.		ln.	1-1/2 NPT	1-1/2 NPT
Piping Diameter (Brazed)				
From Modules to Twinning	Liquid (High Pressure)	In. (mm)	7/8 (22.2)	7/8 (22.2)
Kit [In.(mm)]	Gas (Low Pressure)	In. (mm)	1-1/8 (28.58)	1-1/8 (28.58)
Sound pressure level (measured in anechoic room)		dB(A)	56	56
Compressor Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
Motor output kV		kW	11	11
Lubricant			MEL32	MEL32
Refrigerant		R410A x 13 lbs. + 4 oz. (6.0 kg)	R410A x 13 lbs. + 4 oz. (6.0 kg)	
	High pressure pr	rotection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
Protection Devices	Inverter circuit		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection

^{*1} Each individual module requires a separate electrical connection. Reference electrical data for each individual module.

Notes:

DIMENSIONS: PQRY-P336TSLMU-A1

550(21-11/16)



- Note 1.Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.

 2.Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.

 3.See the Installation Manual for the details of Twinning pipe installation.

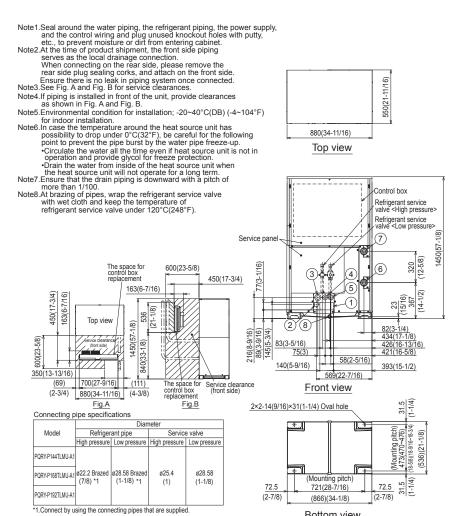
 4.Only use the Twinning pipe by Mitsubishi (optional parts).

Twinning pipe connection size

Package unit r	Package unit name		PQRY-P288TSLMU-A1	PQRY-P312TSLMU-A1	PQRY-P336TSLMU-A1
Component unit name	Heat Source unit 1		PQRY-P144TLMU-A1	PQRY-P168TLMU-A1	PQRY-P168TLMU-A1
Component unit name	Heat Source unit 2		PQRY-P144TLMU-A1	PQRY-P144TLMU-A1	PQRY-P168TLMU-A1
Twinning pipe Kit(optional parts)			CMY-Q200CBK		
BC controller~Twinning pipe	High pressure	а	a ø28.58(1-1/8)		
Do controller 1 willing pipe	Low pressure	b	ø34.93	(1-3/8)	ø41.28(1-5/8)

		High pressure	Low pressure
	Unit model	c or e	d
Twinning pipe~Heat source unit	P144	-00.0(7(0)	ø28.58(1-1/8)
I willing pipe Treat source unit	D168	ø22.2(7/8)	

DIMENSIONS: PQRY-P168TLMU-A1

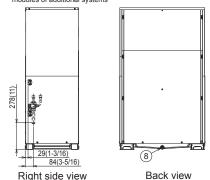


Bottom view

- <Accessories>

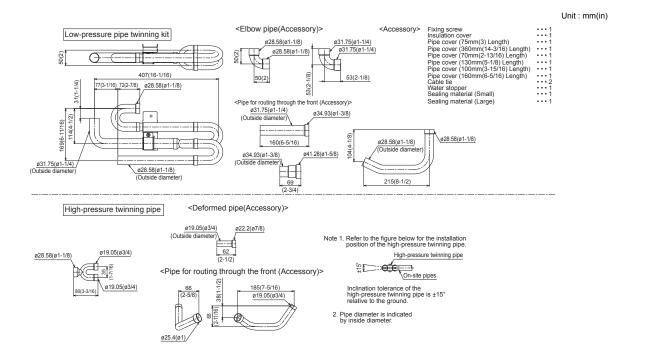
- Sealing material for base leg (two types) · · · · 4pc. each (P144/P168/P192; Packaged in the accessory kit)
 Sealing material for panel · · · · 1pc.
 (P144/P168/P192; Packaged in the accessory kit)

Top of unit casing not suitable for supporting system modules stacked above - field framing required for stacking modules of additional systems



NO.		Usage	Specifications	
1		Front through hole	140 × 77 Knockout hole (5-9/16) (3-1/16)	
2	For pipes	Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole (1-13/16)	
3		Front through hole	ø62.7 or ø34.5 Knockout ho (2-1/2) (1-3/8)	
4	For wires	Front through hole	ø43.7 or ø22.2 Knockout ho (1-3/4) (7/8)	
⑤	For transmission cables	Front through hole	ø34 Knockout hole (1-3/8)	
⑥ ⑦	Water pipe	inlet	NPT1-1/2 Screw	
7		outlet	NPT1-1/2 Screw	
8	Drain pipe	Rc3/4 Screw		

DIMENSIONS: CMY-Q200CBK (TWINNING KIT)





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