CITY**MULTI**®

MODEL: 16-TON PQRY-P192YSLMU-A1 (CONSISTS OF TWO PQRY-P96YLMU-A1 AND ONE CMY-Q100CBK2 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-Q100CBK2)
- □ Joint Kit (for details see Pipe Accessories Submittal)
- BC Controller (for details see BC Controller Submittal)

SPECIFICATIONS: PQRY-P192YSLMU-A1

Specifications	System PQRY-P192YSLMU-A1			
Unit Type				
Nominal Cooling Capacity (460V)	Btu/h	192,000		
Nominal Heating Capacity (460V)	Btu/h	215,000		
Total Net weight of Modules		Lbs. (kg)	812 (368)	
Electrical Power Requirements	Voltage, Phase,	Hertz	460V, 3-phase, 60Hz	
Piping Diameter (Brazed)			·	
Former Tariana in a Mither First Jaint an Handlar (Ja. Jana)	Liquid pipe	In. (mm)	7/8 (22.2)	
From Twinning Kit to First Joint or Header (In. / mm)	Gas pipe	In. (mm)	1-1/8 (28.58)	
Max. Total Refrigerant Line Length		Ft.	2,460	
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541	
Max. Control Wiring Length		Ft.	1,640	
la de se Helf	Total capacity		50~150% of heat source unit capacity	
Indoor Unit	Model/Quantity		P06~P96/1~48	
Sound pressure level (measured in anechoic room)		dB(A)	51	
Compressor Operating Range			9% - 100%	
	EER		14.4 / 16.2	
	IEER		24.4 / 26.4	
AHRI Ratings (Ducted/Non-Ducted)	COP		5.77 / 5.53	
	SCHE		19.7 / 21.8	

Refer to Module Data^{*1}

Sp	ecifications		Module 1 ^{*1}	Module 2*1 PQRY-P96YLMU-A1 96,000 108,000 59~75°F (15~24°C)		
l	Jnit Type		PQRY-P96YLMU-A1			
Nominal Cooling Capacity	(460V)	Btu/h	96,000			
Nominal Heating Capacity	(460V)	Btu/h	108,000			
Operating Temperature	Cooling (Indoor)	W.B.	59~75°F (15~24°C)			
Range	Heating (Indoor)	D.B.	59~81° F (15~27°C)	59~81° F (15~27°C)		
Operating Water Temperature Range	Circulating water	°F	50~113° F (10~45°C)	50~113° F (10~45°C)		
	Circulating water	°F	50~113° F (10~45°C)	50~113° F (10~45°C)		
		ln.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16		
External dimension H x W	X D	mm	1,100 x 880 x 550	1,100 x 880 x 550		
Net weight Ibs. (kg)			406 (184)	406 (184)		
External finish			Galvanized steel sheets	Galvanized steel sheets		
Electrical Power Voltage, Phase, Hertz Requirements		460V, 3-phase, 60Hz	460V, 3-phase, 60Hz			
Minimum Circuit Ampacity A		Α	9	9		

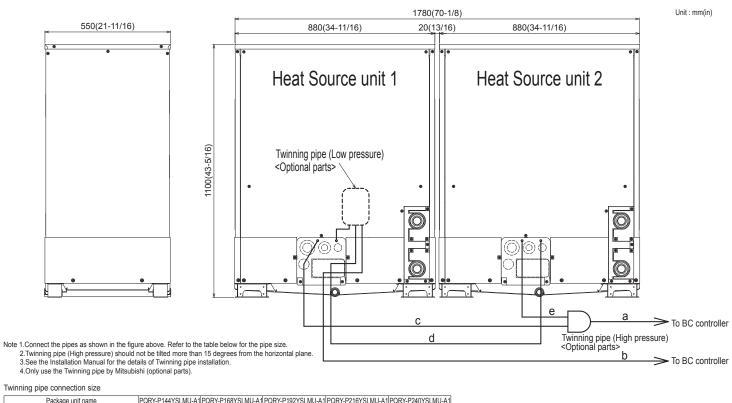
SPECIFICATIONS: PQRY-P192YSLMU-A1

Spec	cifications		Module 1 ^{*1}	Module 2 ⁻¹ PQRY-P96YLMU-A1		
Ur	nit Type		PQRY-P96YLMU-A1			
Maximum Overcurrent Protection A			15	15		
Circulating Water (quality r	nust meet regulat	ions)				
Else Data		G/min (gpm)	25.4	25.4		
Flow Rate		L/s	1.6	1.6		
Pressure Drop		Ft.	8.0	8.0		
		psi	3.48	3.48		
Operation Volume Range		G/min (gpm)	13.2 ~ 31.7	13.2 ~ 31.7		
		L/m	50 ~ 120	50 ~ 120		
Maximum Water Pressure		MPa	2	2		
		psi	290	290		
Water-source Connection for Inlet and Outlet			1-1/2 NPT	1-1/2 NPT		
Piping Diameter (Brazed)						
From Modules to Twinning Kit [In.(mm)]	Liquid (High Pressure)	In. (mm)	5/8 (15.88)	3/4 (19.05)		
	Gas (Low Pressure)	In. (mm)	3/4 (19.05)	7/8 (22.2)		
Sound pressure level (measured in anechoic room)		dB(A)	48	48		
Compressor Type x Quantity			Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1		
Motor output k			6	6		
Lubricant			MEL32	MEL32		
Refrigerant			R410A x 11 lbs. + 1 oz. (5.0 kg)	R410A x 11 lbs. + 1 oz. (5.0 kg)		
	High pressure p	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:

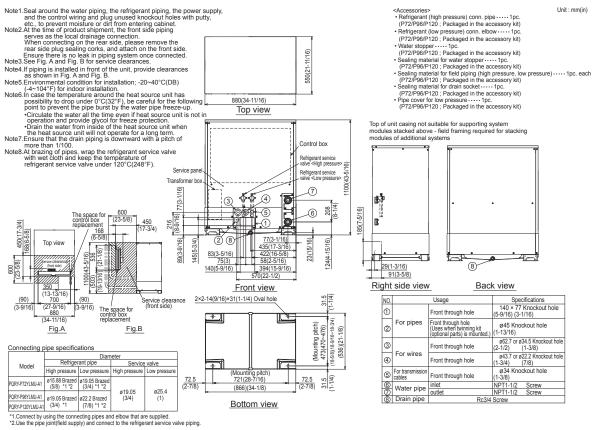
DIMENSIONS: PQRY-P192YSLMU-A1



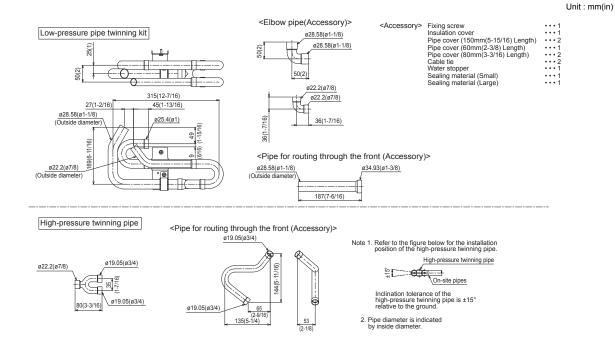
Package unit name		PQRY-P144YSLI	NU-A1	PQRY-P168	YSLMU-A1	PQRY-P192YSLMU-A1	PQRY-P216YSLMU-A1	PQRY-P240YSLMU-A1			
Component unit name	Heat	Heat Source unit 1		PQRY-P72YLM	U-A1	PQRY-P96	SYLMU-A1	PQRY-P96YLMU-A1	PQRY-P120YLMU-A1	PQRY-P120YLMU-A1	
	Heat	Source unit 2		PQRY-P72YLM	U-A1	PQRY-P72	YLMU-A1	PQRY-P96YLMU-A1	PQRY-P96YLMU-A1	PQRY-P120YLMU-A1	
Twinning pipe Kit(optional parts)			CMY-Q100CBK2								
I BU controller~ I winning nine	High	pressure	а	ø22.2(7/8)					ø22.2(ø22.2(7/8) *1	
	Low p	oressure	b	ø28.58(1-1/8)					ø34.93(1-3/8)		
Unit		Unit model		High pressure	Low	/ pressure					
				c or e		d					
Twinning pipe~Heat source unit		P72		ø15.88(5/8) *2	ø19.	.05(3/4) *2					
		e unit P96		ø19.05(3/4) ø22.2	2.2(7/8)						
		P120		010.00(0/4)	92	2.2(110)					

*1.When the piping length is 65 m or longer, use the ø28.58(1-1/8) pipe for the part that exceeds 65 m. *2.When the package unit name"PQRY-P168YSLMU-A", use the ø19.05(3/4) pipe for high pressure and the ø22.2(7/8) pipe for low pressure.

DIMENSIONS: PQRY-P96YLMU-A1



DIMENSIONS: CMY-Q100CBK2 (TWINNING KIT)





COOLING & HEATING

1340 Satellite Boulevard, Suwanee, GA 30024 Toll Free: 800-433-4822 www.mehvac.com





FORM# PQRY-P192YSLMU-A1 - 201710

Specifications are subject to change without notice.

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