

MODEL: PQRY-P120YLMU-A1 10-TON MODULAR WATER-SOURCE VRF HEAT PUMP SYSTEM



Job Name:	
System Reference:	Date:



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

- □ Joint Kit (for details see Pipe Accessories Submittal)
- □ BC Controller (for details see BC Controller Submittal)

SPECIFICATIONS: PQRY-P120YLMU-A1

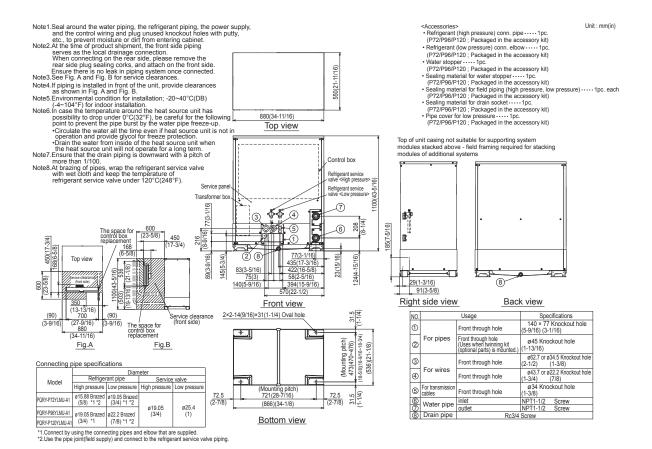
Specifications			Model Name	
Unit Type			PQRY-P120YLMU-A1	
Nominal Cooling Capacity (460V)		Btu/h	120,000	
Nominal Heating Capacity (460V)		Btu/h	135,000	
Operating Temperature Range	Cooling (Indoor)	W.B.	59~75°F (15~24°C)	
	Heating (Indoor)	D.B.	59~81° F (15~27°C)	
Operating Water Temperature Range	Circulating water	°F	50~113° F (10~45°C)	
	Circulating water	°F	50~113° F (10~45°C)	
External dimension H x W x D		In.	43-5/16 x 34-11/16 x 21-11/16	
		mm	1,100 x 880 x 550	
Net weight		lbs. (kg)	406 (184)	
External finish			Galvanized steel sheets	
Electrical Power Requirements Voltage, Phase, Hertz			460V, 3-phase, 60Hz	
Minimum Circuit Ampacity		А	13	
Maximum Overcurrent Protection		А	20	
Circulating Water (quality must me	et regulations)			
Flow Rate		G/min (gpm)	25.4	
Flow Rate		L/s	1.6	
		Ft.	8.0	
Pressure Drop		psi	3.48	
Operation Volume Range		G/min (gpm)	13.2 ~ 31.7	
		L/m	50 ~ 120	
Maximum Water Pressure		MPa	2	
		psi	290	
Water-source Connection for Inlet and Outlet		In.	1-1/2 NPT	
Piping Diameter (Brazed)	Liquid (High Pressure)	In. (mm)	3/4 (19.05)	
	Gas (Low Pressure)	In. (mm)	7/8 (22.2)	
Max. Total Refrigerant Line Length		Ft.	2,460	
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541	
Max. Control Wiring Length		Ft.	1,640	
Indoor Unit	Total capacity		50~150% of heat source unit capacity	
indoor offit	Model/Quantity		P06~P96/1~30	
Sound pressure level (measured in anechoic room)		dB(A)	54	
Compressor Operating Range			14% - 100%	
Compressor Type x Quantity			Inverter scroll hermetic compressor x 1	
Motor output		kW	7.7	
Lubricant			MEL32	
Refrigerant			R410A x 11 lbs. + 1 oz. (5.0 kg)	

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Specifications		Model Name
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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
AHRI Ratings (Ducted/Non-Ducted)	EER	13.4 / 15.6
	IEER	23.2 / 29.0
	COP	5.51 / 5.60
	SCHE	19.7 / 19.7

Notes:

DIMENSIONS: PQRY-P120YLMU-A1





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



