

MODEL: PQRY-P168YLMU-A1 14-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-P168YLMU-A1

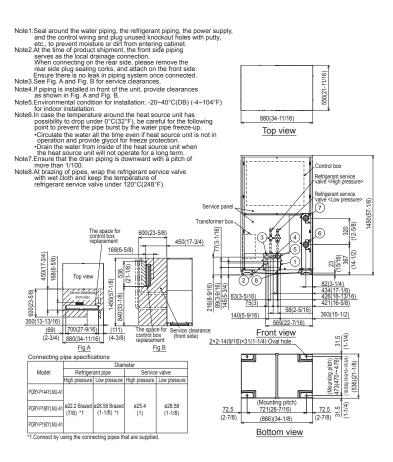
Specifications		Model Name	
Unit Type			PQRY-P168YLMU-A1
Nominal Cooling Capacity (460V)		Btu/h	168,000
Nominal Heating Capacity (460V)		Btu/h	188,000
Operating Temperature Range	Cooling (Indoor)	W.B.	59~75°F (15~24°C)
	Heating (Indoor)	D.B.	59~81° F (15~27°C)
Operating Water Temperature Range	Circulating water	°F	50~113° F (10~45°C)
	Circulating water	°F	50~113° F (10~45°C)
External dimension H x W x D		ln.	57-1/8 x 34-11/16 x 21-11/16
		mm	1,450 x 880 x 550
Net weight		lbs. (kg)	508 (230)
External finish			Galvanized steel sheets
Electrical Power Requirements Voltage, Phase, Hertz			460V, 3-phase, 60Hz
Minimum Circuit Ampacity		А	20
Maximum Overcurrent Protection		А	35
Circulating Water (quality must mee	et regulations)		
Flow Rate	Fi D :		31.7
Flow Rate		L/s	2
Draggura Dran		Ft.	14.7
Pressure Drop		psi	6.38
On anation Values Dance		G/min (gpm)	19.8 ~ 50.9
Operation volume Range	Operation Volume Range		70 ~ 193
Maximum Water Pressure		MPa	2
		psi	290
Water-source Connection for Inlet and Outlet		ln.	1-1/2 NPT
Piping Diameter (Brazed)	Liquid (High Pressure)	In. (mm)	7/8 (22.2)
	Gas (Low Pressure)	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
Indoor Unit	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P06~P96/1~42
Sound pressure level (measured in anechoic room)		dB(A)	56
Compressor Operating Range			16% - 100%
Compressor Type x Quantity			Inverter scroll hermetic compressor x 1
Motor output		kW	11
Lubricant			MEL32
Refrigerant			R410A x 13 lbs. + 4 oz. (6.0 kg)

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Specifications		Model Name
Unit Type		PQRY-P168YLMU-A1
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	11.9 / 13.5
	IEER	18.0 / 21.8
	COP	4.73 / 5.39
	SCHE	19.7 / 19.7

Notes:

DIMENSIONS: PQRY-P168YLMU-A1



CAccessories?
Refrigerant (high pressure) conn. pipe 1pc.
(P144/P168/P192. Packaged in the accessory kit)
Refrigerant (low pressure) conn. pipe 1pc.
(P144/P168/P192. Packaged in the accessory kit)
(P144/P168/P192. Packaged in the accessory kit)
(Water stopper 1pc.
(P144/P168/P192. Packaged in the accessory kit)
(P36aling material for base log (livo types) ... 4pcs. each
(P144/P168/P192. Packaged in the accessory kit)
Sealing material for base log (livo types) ... 4pcs. each
(P144/P168/P192. Packaged in the accessory kit)
Sealing material for panel ... 1pc.
(P144/P168/P192. Packaged in the accessory kit)
(P144/P168/P192. Packaged in the accessory kit)
(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

Unit: mm(in)



278(11)



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