

# MODEL: PQHY-P72TLMU-A1 6-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
- · 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: 984' (P72,96,120), 1,640' (P144,168,192,216,240,264,288,312,336,360)
- 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)
- □ Header Kit (for details see Pipe Accessories Submittal)

## **SPECIFICATIONS: PQHY-P72TLMU-A1**

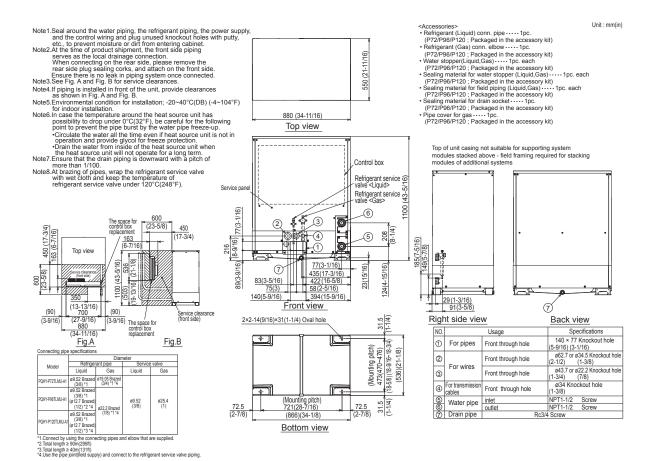
Specifications		Model Name	
Unit Type			PQHY-P72TLMU-A1
Nominal Cooling Capacity (208/230V)		Btu/h	72,000
Nominal Heating Capacity (208/230V)		Btu/h	80,000
Operating Temperature Range	Cooling (Indoor)	W.B.	59~75°F (15~24°C)
	Heating (Indoor)	D.B.	59~81° F (15~27°C)
Operating Water Temperature Range	Cooling	°F	50~113° F (10~45° C)
	Heating	°F	50~113° F (10~45° C)
External dimension H x W x D		ln.	43-5/16 x 34-11/16 x 21-11/16
		mm	1,100 x 880 x 550
Net weight		lbs. (kg)	375 (170)
External finish			Galvanized steel sheets
Electrical Power Requirements Voltage, Phase, Hertz			208 / 230V, 3-phase, 60Hz
Minimum Circuit Ampacity		А	13 / 12
Maximum Overcurrent Protection		Α	20 / 20
Circulating Water (quality must mee	et regulations)		
Flow Rate		G/min (gpm)	25.4
Flow Rate		L/s	1.6
Dronouro Dron		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		ln.	1-1/2 NPT
Piping Diameter (Brazed)	Liquid (High Pressure)	In. (mm)	3/8 (9.52)
	Gas (Low Pressure)	In. (mm)	3/4 (19.05)
Max. Total Refrigerant Line Length		Ft.	984
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit	Total capacity		50~130% of heatsource unit capacity
Indoor offic	Model/Quantity		P06~P96/1~15
Sound pressure level (measured in anechoic room)		dB(A)	46
Compressor Operating Range			24% - 100%
Compressor Type x Quantity			Inverter scroll hermetic compressor x 1
Motor output		kW	4.3
Lubricant			MEL32
Refrigerant			R410A x 11 lbs. + 1 oz. (5.0 kg)

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Unit Type		PQHY-P72TLMU-A1
	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
Protection Devices	Inverter circuit	Over-heat protection, Over-current protection
	Compressor	Over-heat protection
	EER	17.4 / 20.7
AHRI Ratings ( Ducted/Non-Ducted)	IEER	24.2 / 28.1
	COP	5.62 / 6.15

Notes:

### **DIMENSIONS: PQHY-P72TLMU-A1**





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