

Job Name:

Location:

Engineer Name:

Contractor:

System No.:

Date:

MODULAR WATER-SOURCE VRF HEAT PUMP SYSTEM FEATURES

- 3-phase, 208/230V
- Modular variable refrigerant flow (VRF) systems; smaller capacity units can be piped together to form a single, large-capacity two-pipe system
- Designed for closed water loops; water quality must meet regulations
- Self-cooling cabinet design
- Compact size for each water-source module
- Max. Total Refrigerant Line Length: 984' (P72,96,120), 1,640' (P144,168,192,216,240,264,288,312,336,360); Max. Refrigerant Line Length: 541'; Max. Control Wiring Length: 1,640'
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network
- External finish: Acrylic-painted Steel Sheets
- Operating Indoor Temperature Range
Cooling: 59° ~ 75°F (15° ~ 24°C) WB
Heating: 59° ~ 81°F (15° ~ 27°C) DB
- Operating Water Temperature Range
Cooling: 50° ~ 113°F (10° ~ 45°C)
Heating: 50° ~ 113°F (10° ~ 45°C)



PQHY-P120THMU-A

OPTIONAL PARTS

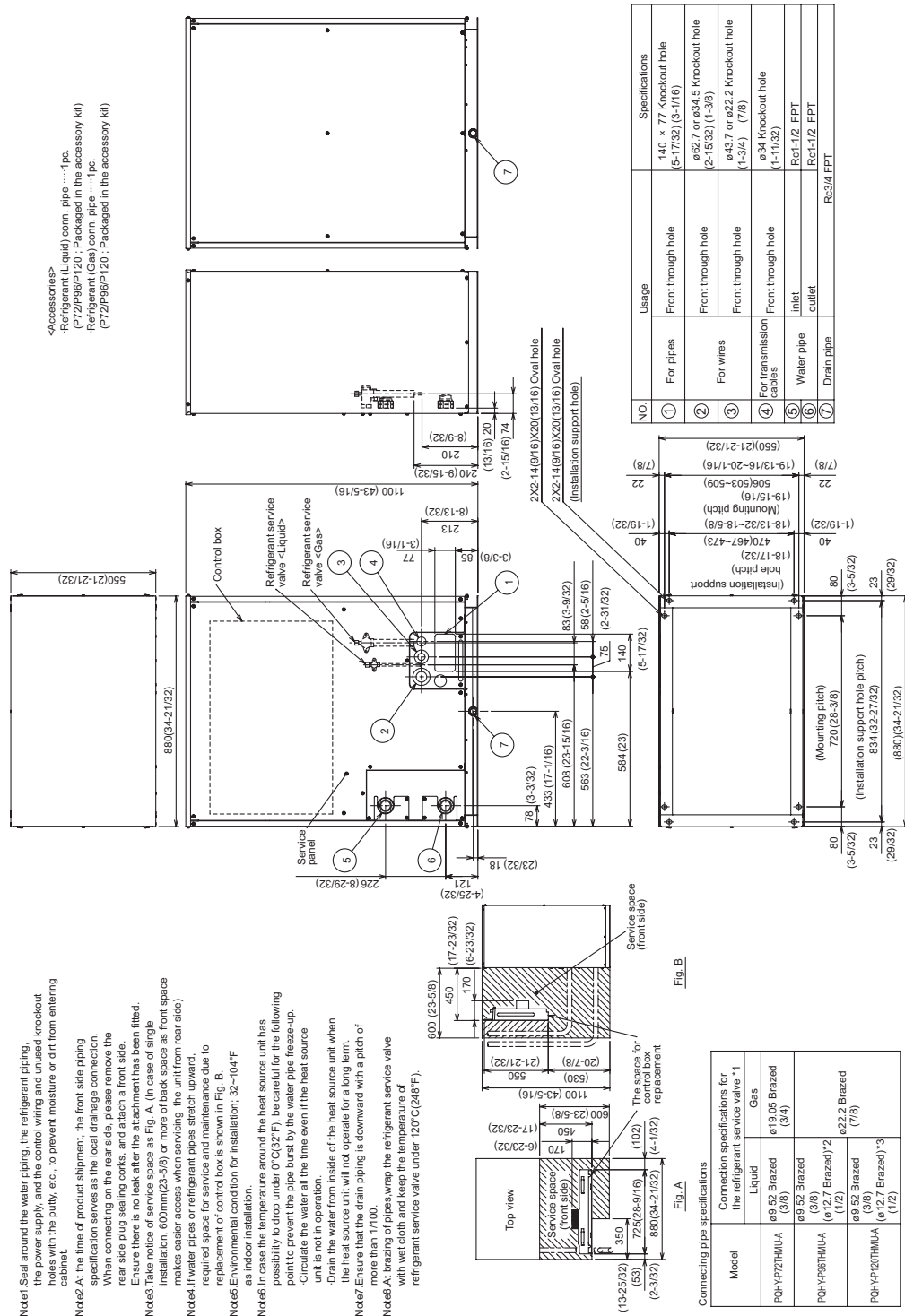
- ☐ Branch Joint (T-Branch: ≤ 72,000 Btu/h).....CMY-Y102S-G2
- ☐ Branch Joint (T-Branch: 73,000-144,000 Btu/h).....CMY-Y102L-G2
- ☐ Header - 4-Branch (Capacity: ≤ 72,000 Btu/h).....CMY-Y104-G
- ☐ Header - 8-Branch (Capacity: ≤ 144,000 Btu/h).....CMY-Y108-G
- ☐ Header - 10-Branch (Capacity: ≤ 234,000 Btu/h).....CMY-Y1010-G

Specifications		Model Name
Unit Type		PQHY-P120THMU-A
Nominal Cooling Capacity	Btu/h	120,000
Nominal Heating Capacity	Btu/h	135,000
External Dimensions (H x W x D)	In. / mm	43-5/16 x 34-11/16 x 21-11/16 / 1,100 x 880 x 550
Net Weight	Lbs. / kg	433 / 196
Electrical Power Requirements	Voltage, Phase, Hertz	208/230V, 3-phase, 60Hz
Cooling Power Input	kW	7.51
Heating Power Input	kW	7.62
Cooling Current (208/230V)	A	22.9 / 20.8
Heating Current (208/230V)	A	23.5 / 21.3
Minimum Circuit Ampacity (MCA)	A	29 / 26
Maximum Fuse Size	A	50 / 40
<i>Circulating Water (quality must meet regulations)</i>		
Flow Rate	GPM	25
Pressure Drop	Ft. / psi	6 / 3
Operation Volume Range	GPM	20 - 32
Maximum Water Pressure	MPa / psi	2 / 290
Water-source Connection	In.	1-1/2 FPT
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	3/8 / 9.52 (1/2 / 12.7 if total length ≥ 131' / 40 m)
	Gas (Low Pressure)	7/8 / 22.2
Indoor Unit	Total Capacity	50 to 130% of Water-source Unit Capacity
	Model / Quantity	P06 to P96 / 1 to 26
Sound Pressure Levels	dB(A)	51
Compressor Operating Range		14 - 100%
Compressor Type x Quantity		Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW	7.9
Compressor Crankcase Heater	kW	0.051
Refrigerant		R410A
Lubricant		MEL32
High-pressure Protection Device		601 psi / 4.15 MPa
Compressor / Fan Protection Device		Overheat Protection
Inverter Protection Device		Overheat / Overcurrent Protection



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SB PQHY-P120THMU-A 201611



Unit: mm (in.)