

Job Name: _____ Location: _____

Engineer Name: _____ Contractor: _____

System No.: _____ Date: _____

MODULAR WATER-SOURCE VRF HEAT RECOVERY SYSTEM FEATURES

- 3-phase, 575V, 60Hz
- 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 Piping Length: 1,804' (P72, 96,120), 2,461' (P144,168,192,216,240); Max. Refrigerant Line Length: 541'; Max. Control Wiring Length: 1,640'
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network (CMCN)
- External finish: Galvanized 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° ~ 95°F (10° ~ 35°C)



PQRV-P96ZKMU-A

OPTIONAL PARTS

- Branch Joint (T-Branch: ≤ 72,000 Btu/h).....CMY-Y102SS-G2
- Branch Joint (T-Branch: 73,000-144,000 Btu/h)....CMY-Y102LS-G2
- Joint Adapter (Port Connector: > 54,000 Btu/h).....CMY-R160C-J
- BC Controller.....CMB-P104/105/106/108/1010/1013/1016NU-G
- Main BC Controller.....CMB-P108/1010/1013/1016NU-GA/NU-HA
- Sub BC Controller.....CMB-P104/108NU-GB/-P1016NU-HB

* All electrical work shall comply with National (NEC) and local codes and regulations.

Specifications		Model Name
Unit Type		PQRV-P96ZKMU-A
Nominal Cooling Capacity	Btu/h	96,000
Nominal Heating Capacity	Btu/h	108,000
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	404 / 183
Electrical Power Requirements	Voltage, Phase, Hertz	575V, 3-phase, 60Hz
Cooling Power Input	kW	5.93
Heating Power Input	kW	6.17
Cooling Current (575V)	A	6.6
Heating Current (575V)	A	6.8
Minimum Circuit Ampacity (MCA) *	A	11
Maximum Circuit Breaker Size	A	15
<i>Circulating Water (quality must meet regulations)</i>		
Flow Rate	GPM	25.4
Pressure Drop	psi	3.48
Operation Volume Range	GPM	20 - 32
Maximum Water Pressure	MPa / psi	2 / 290
Water-source Connections (Each for Inlet and Outlet)	In.	Rc1-1/2 Screw (Install strainer (more than 50 meshes) at water inlet piping of the unit)
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	3/4 / 19.05
	Gas (Low Pressure)	7/8 / 22.2
Indoor Unit	Total Capacity	50 to 150% of Water-source Unit Capacity
	Model / Quantity	P06 to P96 / 1 to 24
Sound Pressure Level	dB(A)	48
Compressor Operating Range		Cooling: 18 -100%, Heating: 19 - 100%
Compressor Type x Quantity		Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW	6
Compressor Crankcase Heater	kW	-
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

Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.

