

Job Name:

System Reference:

Date:

**GENERAL FEATURES**

- **Water-Source Heat Recovery:** Water-Source Heat Recovery systems use water for the exchange of energy to provide simultaneous heating and cooling.
- **Water-Source + VRF:** Water-source VRF uses water loops to add the zoning capabilities of variable refrigerant flow to a variety of applications.
- **Variable Evaporating Temperature:** The Variable Evaporating Temperature (VET) feature automatically adjusts the target evaporation temperature based on load, which saves energy.
- **Leak Mitigation Fan:** The built-in leak mitigation fan activates if a refrigerant leak is detected, improving safety and compliance.
- **Water-Side Heat Exchanger Design:** The water-side heat exchanger design improves unit efficiency and reduces clogging risk.

SPECIFICATIONS			SYSTEM
UNIT TYPE			PQRY-M168TXU-A
Cooling Capacity (Nominal)	Cooling Capacity (Nominal)	Btu/h	168000
Heating Capacity (Nominal)	Heating Capacity (Nominal)	Btu/h	188000
Operating Temperature Range	Cooling (Indoor)	°FDB ~ °FDB [°CDB ~ °CDB]	59 ~ 75 [15 ~ 24]
	Heating (Indoor)	°FWB ~ °FWB [°CWB ~ °CWB]	59 ~ 81 [15 ~ 27]
Operating Water Temperature Range	Cooling/Heating ¹	F ~ F [C ~ C]	50 ~ 113 [10 ~ 45]
External Dimensions (H x W x D)	External Dimensions (H x W x D)	inch x inch x inch [mm x mm x mm]	57-3/32 x 34-5/8 x 21-21/32 [1450 x 880 x 550]
Net Weight	Net Weight	lbs [kg]	498.24 [226]
External Finish	External Finish		MUNSELL 5Y 8/1
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance	V AC / V AC , Ø - phase, Hz Hz	208 / 230 , 3 - phase, 60 Hz
Minimum Circuit Ampacity	Minimum Circuit Ampacity**	AWG	48 / 48
Maximum Overcurrent Protection	Maximum Overcurrent Protection**	MOP	80 / 80
SCCR	SCCR	kA	5
Flow Rate	Flow Rate	GPM [L/min]	31.70 [120]
Pressure Drop	Pressure Drop	psi [ft]	6.38 [14.72]
Operation Volume Range	Operation Volume Range	GPM ~ GPM [m3/h ~ m3/h]	19.80 ~ 50.90 [4.50 ~ 11.60]
Refrigerant Piping Diameter (From Twinning Kit to First Joint or Header)	Liquid (High Pressure)	inch [mm]	7/8 [22.2]
	Gas (Low Pressure)	inch [mm]	1-1/8 [28.58]
Max. Total Refrigerant Line Length	Max. Total Refrigerant Line Length	ft [m]	2460 [750]
Max. Refrigerant Line Length (Between ODU & IDU)	Max. Refrigerant Line Length (Between ODU & IDU)	ft [m]	541.34 [165]
Max. Control Wiring Length	Max. Control Wiring Length	ft [m]	656.17 [200]
Indoor Unit Connectable	Total Capacity		252,000
	Model/Quantity		M04 ~ M96 / 34
Sound Power Levels	Sound Power Levels	dB(A)	72
Compressor	Type x Quantity		Scroll x 1
Compressor Motor Output	Compressor Motor Output	kW	10.30
Refrigerant	Pre-charged Refrigerant Amount	lbs , oz [kg]	9 , 14.7 [4.50]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp.)		Over-heat protection, Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER		12.30 / 13.30
	IEER		19.20 / 23.70
	COP		5.09 / 5.75
	SCHE		19.70 / 19.70

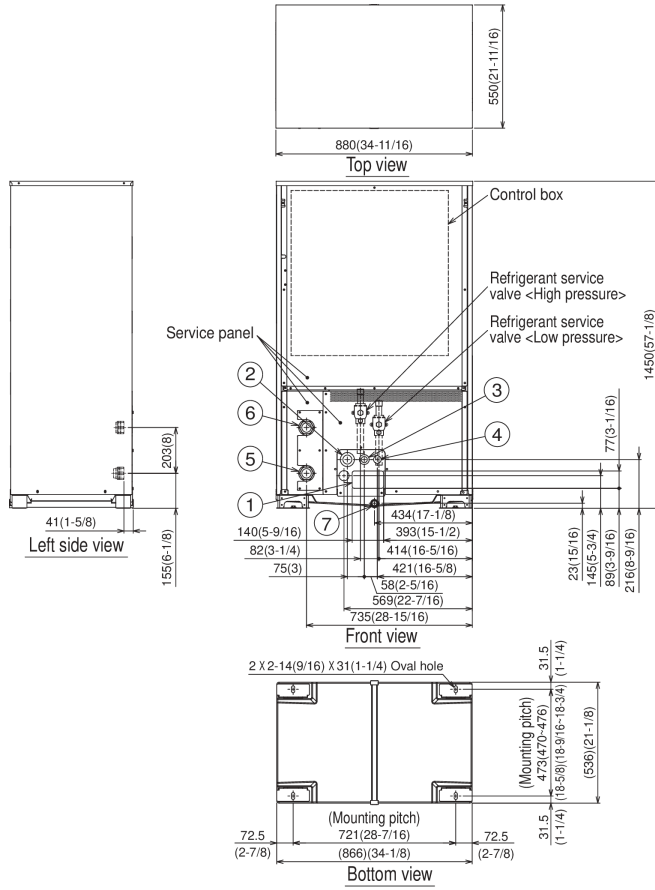
Notes¹23°F EWT (Entering water temperature) is possible with glycol.

**If MOCP, MCA, and Recommended Fuse Size have two values, this is for 208V/230V. Otherwise there will be one value for 460V. Please refer to the manuals for any further clarification.

OUTDOOR UNIT ACCESSORIES: PQRY-M168TXU-A

Branch Pipe (Joint)	Total down-stream Indoor capacity from 73,000 to 144,000 Btu/h	☐	CMY-Y102LS-G2R1
	Total down-stream Indoor capacity less than 72,000 Btu/h	☐	CMY-Y102SS-G2R1
Control Wire	M-Net Control Wire - 1,000 Foot Roll	☐	CW162S-1000
	M-Net Control Wire - 250 Foot Roll	☐	CW162S-250
EPIV Valve	1.5" EPIV Valve w/Shared Logic Module	☐	EV150NRXEMEV
	1.5" BELIMO Insertion Temp Sensor	☐	ZM-TW150NPT KIT
Notes			

OUTDOOR UNIT DIMENSIONS: PQR-M168TXU-A



- <Accessories (Packaged in the accessory kit)>
- Refrigerant (high pressure) conn. pipe *****1pc.
 - Refrigerant (low pressure) conn. pipe *****1pc.
 - Refrigerant (low pressure) conn. elbow *****1pc.
 - Water stopper *****1pc.
 - Sealing material for water stopper *****1pc.
 - Sealing material for field piping (high pressure, low pressure) *****1pc. each

No.	Usage	Specifications
①	For pipes	Front through hole 140 x 77 Knockout hole (5-9/16) (3-1/16)
②	For wires	Front through hole ø62.7 or ø34.5 Knockout hole (2-1/2) (1-3/8)
③	For wires	Front through hole ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
④	For transmission cables	Front through hole ø34 Knockout hole (1-3/8)
⑤	Water pipe inlet	NPT1-1/2 Screw
⑥	Water pipe outlet	NPT1-1/2 Screw
⑦	Drain pipe	Rc3/4 Screw

PQR-M72, 96, 120, 144, 168, 192, 216, 240TXU-A

Unit: mm(in)

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