

Job Name:

Schedule Reference:

Date:



VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM

ACCESSORIES

- BC Controller Main CMB-P108/1010/1013/16NU-GA1
- BC Controller Main CMB-P108/1010NU-HA1 / 16NU-HA1
- BC Controller Sub CMB-P104/108NU-GB1/ 1016NU-HB1
- Joint Adapter (Port Connector > 54,000 Btu/h) CMY-R160C-J1

- T-Branch Joint (≤ 72,000 Btu/h) CMY-Y102SS-G2
- T-Branch Joint (73,000 - 144,000 Btu/h) CMY-Y102LS-G2
- T-Branch Joint (145,000 - 234,000 Btu/h) CMY-Y202S-G2
- T-Branch Joint (≥ 235,000 Btu/h) CMY-Y302S-G2

UNIT OPTION

- Standard Model PQRV-P192TLMU-A1

Specifications		Model Name
Unit Type		PQRV-P192TLMU-A1
Nominal Cooling Capacity	Btu/h	192,000
Nominal Heating Capacity	Btu/h	215,000
External Dimensions (H x W x D)	In. / mm	57-1/8 x 34-11/16 x 21-11/16 / 1,450 x 880 x 550
Net Weight	Lbs. / kg	479 / 217
Electrical Power Requirements	Voltage, Phase, Hertz	208/230V, 3-phase, 60Hz
Cooling Power Input	kW	15.05
Heating Power Input	kW	11.90
Cooling Current (208/230V)	A	46.4 / 41.9
Heating Current (208/230V)	A	36.7 / 33.1
Minimum Circuit Ampacity (MCA) *	A	54 / 49
Maximum Fuse Size	A	90 / 80
Circulating Water (quality must meet regulations)		
Flow Rate	GPM / L/s	32 / 2
Pressure Drop	psi	6.38
Operation Volume Range	GPM / L/s	20 - 51 / 1 - 3
Maximum Water Pressure	MPa / psi	2 / 290
Water-source Connections (Each for Inlet and Outlet)	In.	NPT1-1/2 Screw (Install strainer (more than 50 meshes) at water inlet piping of the unit)
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	7/8 / 22.2
	Gas (Low Pressure)	1-1/8 / 28.58
Indoor Unit	Total Capacity	50 to 150% of Water-source Unit Capacity
	Model / Quantity	P06 to P96 / 1 to 48
Sound Pressure Levels	dB(A)	58
Compressor Operating Range		14 - 100%
Compressor Type x Quantity		Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW	12.4
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

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Notes:

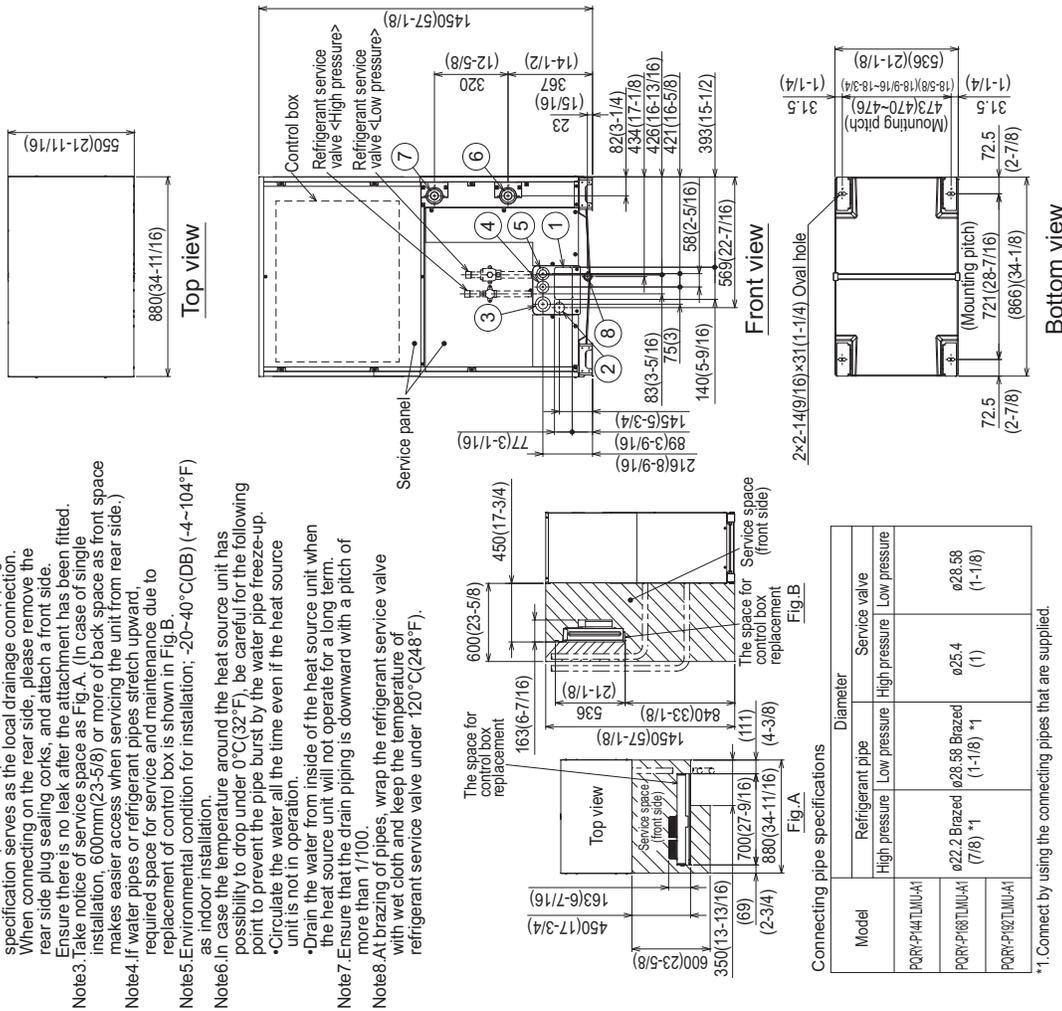
Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories for proper functioning of the unit(s). Use of non-MESCA supported accessories will affect warranty coverage.



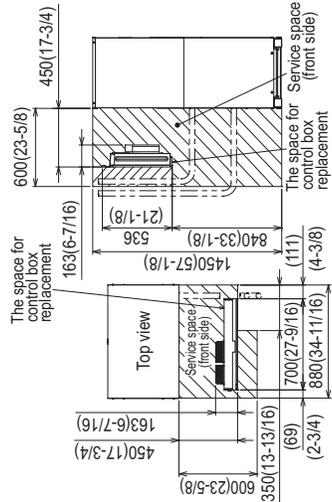
Module: PQRV-P192TLMU-A1 - DIMENSIONS

Unit: mm(in)

- <Accessories>
- 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)
 - Water stopper.....1pc.
(P144/P168/P192; Packaged in the accessory kit)
 - Sealing material for water stopper.....1pc.
(P144/P168/P192; Packaged in the accessory kit)
 - Sealing material for field piping (high pressure, low pressure).....1pc. each
(P144/P168/P192; Packaged in the accessory kit)
 - Sealing material for drain socket.....1pc.
(P144/P168/P192; Packaged in the accessory kit)
 - Pipe cover for low pressure.....1pc.
(P144/P168/P192; Packaged in the accessory kit)
 - Sealing material for base leg (two types).....4pc. each
(P144/P168/P192; Packaged in the accessory kit)
 - Sealing material for panel.....1pc.
(P144/P168/P192; Packaged in the accessory kit)



- Note1. Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc. so as not to infiltrate rain water etc.(field erection work)
- Note2. At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.
- Note3. Take notice of service space as Fig.A. (In case of single installation, 600mm(23-5/8) or more of back space as front space makes easier access when servicing the unit from rear side.)
- Note4. If water pipes or refrigerant pipes stretch upward, required space for service and maintenance due to replacement of control box is shown in Fig.B.
- Note5. Environmental condition for installation: -20~40°C(DB) (-4~104°F) as indoor installation.
- Note6. In case the temperature around the heat source unit has possibility to drop under 0°C(32°F), be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
- Circulate the water all the time even if the heat source unit is not in operation.
 - Drain the water from inside of the heat source unit when the heat source unit will not operate for a long term.
- Note7. Ensure that the drain piping is downward with a pitch of more than 1/100.
- Note8. At brazing or pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).



Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PQRV-P141TLMU-A1	ø22.2 Brazed (7/8) *1	ø25.4 (1-1/8)	ø28.58 (1-1/8)	ø28.58 (1-1/8)

*1. Connect by using the connecting pipes that are supplied.

No.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole (5-9/16) (3-1/16)
②	For pipes	Front through hole (Uses when twinning kit (optional parts) is mounted.) (1-13/16)
③	For wires	Front through hole ø45 Knockout hole (2-1/2) (1-3/8)
④	For transmission cables	Front through hole ø43.7 or ø34.5 Knockout hole (1-3/4) (7/8)
⑤	For transmission cables	Front through hole ø34 Knockout hole (1-3/8)
⑥	Water pipe inlet	NPT1-1/2 Screw
⑦	Water pipe outlet	NPT1-1/2 Screw
⑧	Drain pipe	Rc3/4 Screw



Form # SB_PQRV-P192TLMU-A1_201710
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