CITY MULTI

Model: 6-Ton PQRY-P72TLMU-A1

MITSUBISHI ELECTRIC
Changes for the Better

Job Name:

Schedule Reference: | Date:

VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM

UNIT OPTION

☐ Standard Model PQRY-P72TLMU-A1

ACCESSORIES

☐ BC Controller CMB-P104/105/106/108/1010/1013/1016NU-G1
☐ 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 > 54,0000 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

Specifications		Model Name
Unit Type		PQRY-P72TLMU-A1
Nominal Cooling Capacity	Btu/h	72,000
Nominal Heating Capacity	Btu/h	80,000
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	380 / 172
Electrical Power Requirements	Voltage, Phase, Hertz	208/230V, 3-phase, 60Hz
Cooling Power Input	kW	3.23
Heating Power Input	kW	3.63
Cooling Current (208/230V)	A	9.9 / 9.9
Heating Current (208/230V)	A	11.1 / 10.1
Minimum Circuit Ampacity (MCA) *	A	13 / 12
Maximum Fuse Size	A	20 / 20
Circulating Water (quality must meet regulations)		
Flow Rate	GPM / L/s	25 / 1.5
Pressure Drop	psi	3.48
Operation Volume Range	GPM / L/s	13 - 32 / 1 - 2
Maximum Water Pressure	MPa / psi	2 / 290
Water-source Connection	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)	5/8 / 15.88
	Gas (Low Pressure)	3/4 / 19.05
Indoor Unit	Total Capacity	50 to 150% of Water-source Unit Capacity
	Model / Quantity	P06 to P96 / 1 to 18
Sound Pressure Levels	dB(A)	46
Compressor Operating Range		24 - 100%
Compressor Type x Quantity		Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW	4.3
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

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

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.

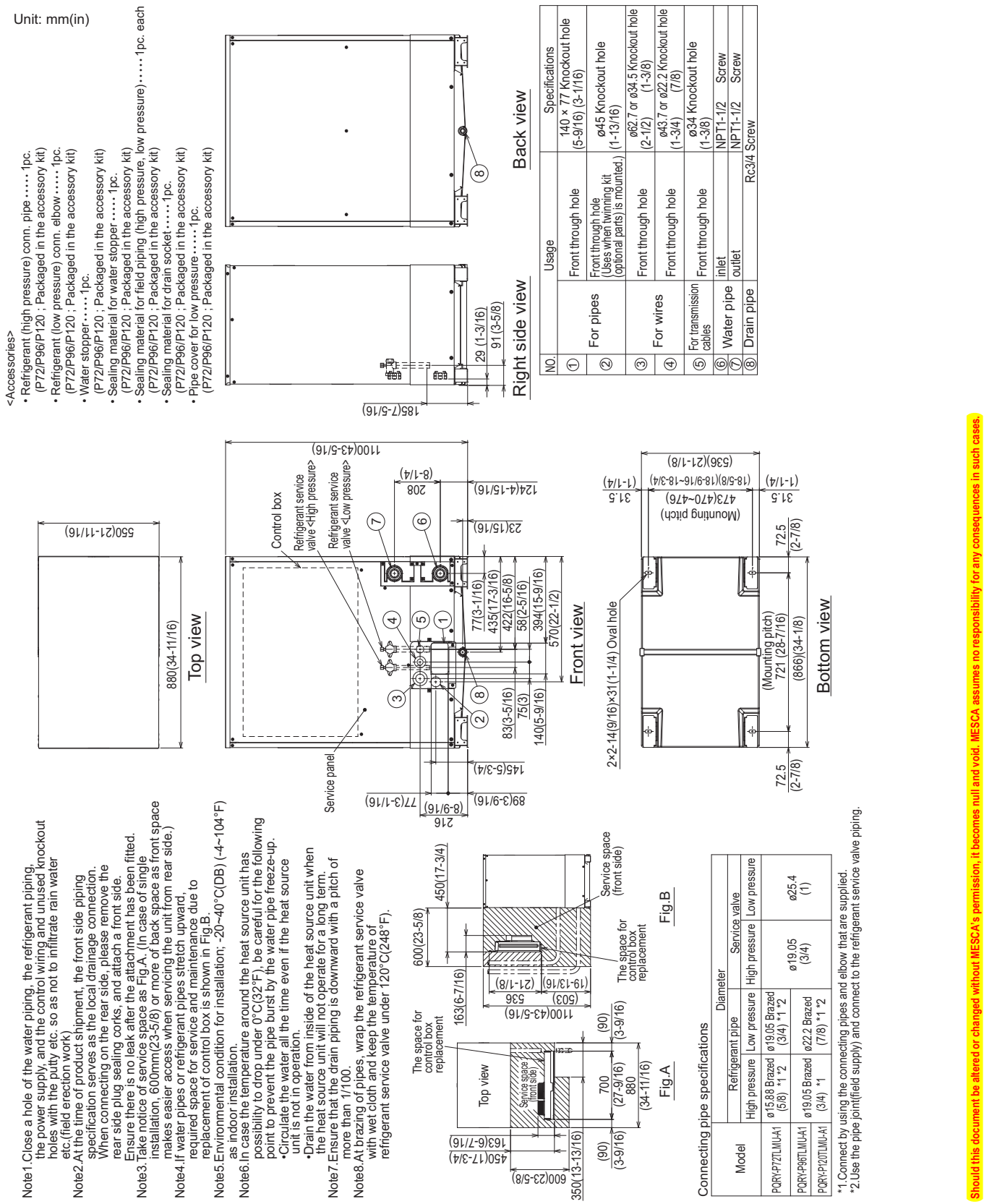
R-410A OZONE-FRIENDLY REFRIGERANT

MITSUBISHI ELECTRIC thinks green

Specifications are subject to change without notice.

Module: PQRY-P72TLMU-A1 - DIMENSIONS

Unit: mm(in)



<Accessories>
- Refrigerant (high pressure) conn. pipe ····· 1pc. (P72/P96/P120 ; Packaged in the accessory kit)
- Refrigerant (low pressure) conn. elbow ····· 1pc. (P72/P96/P120 ; Packaged in the accessory kit)
- Water stopper ····· 1pc. (P72/P96/P120 ; Packaged in the accessory kit)
- Sealing material for water stopper ····· 1pc. (P72/P96/P120 ; Packaged in the accessory kit)
- Sealing material for field piping (high pressure, low pressure) ····· 1pc. each (P72/P96/P120 ; Packaged in the accessory kit)
- Sealing material for drain socket ····· 1pc. (P72/P96/P120 ; Packaged in the accessory kit)
- Pipe cover for low pressure ····· 1pc. (P72/P96/P120 ; Packaged in the accessory kit)

NO.	Usage		Specifications
①	For pipes	Front through hole	140 × 77 Knockout hole (5-9/16) (3-1/16)
②		Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole (1-13/16)
③	For wires	Front through hole	ø62.7 or ø34.5 Knockout hole (2-1/2) (1-3/8)
④		Front through hole	ø43.7 or ø22.2 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		outlet	NPT1-1/2 Screw
⑧	Drain pipe		Rc3/4 Screw

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 of 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		Diameter	Service valve	
	High pressure	Low pressure	High pressure	Low pressure	
PQRY-P72TLMU-A1	ø15.88 Brazed (5/8) *1 *2	ø19.05 Brazed (3/4) *1 *2	ø19.05 (3/4)	ø25.4 (1)	
PQRY-P96TLMU-A1	ø19.05 Brazed (3/4) *1	ø22.2 Brazed (7/8) *1 *2			
PQRY-P120TLMU-A1					

*1. Connect by using the connecting pipes and elbow that are supplied.
*2. Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

Form # SB_PQRY-P72TLMU-A1_201710
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