CITYMULTI®

20-TON PQRY-P240TLMU-A1

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:

System Reference: Date:

208/230V MODULAR WATER-SOURCE VRF HEAT PUMP SYSTEM



ACCESSORIES

- ☐ Transformer 50VA (One Piece) TR50VA015
- ☐ 2" Temp sensor, optional (One Piece) ..... ZM-TW200NPT KIT
- ☐ 2" EPIV Valve (One Piece) EV200S761ARXME
- ☐ Optical Relay for Flow Switch (One Piece) RIBTE24B
- ☑ BC Controller (Required) ..... for details see BC Controller Submittals
- ☐ Joint Kit ..... for details see Pipe Accessories Submittal

NOTE:
Requires two transformers
Requires one optical relay
Requires two temp sensors per one EPIV valve if optional temps sensors are used.

Specifications			System
Unit Type			PQRY-P240TLMU-A1
Cooling Capacity (Nominal)		BTU/H	240,000
Heating Capacity (Nominal)		BTU/H	270,000
Operating Temperature Range	Cooling (Indoor)	°F WB [°C WB]	59~75 [15.0~24.0]
	Heating (Indoor)	°F DB [°C DB]	59~81 [15.0~27.0]
Operating Water Temperature Range[1]	Cooling/Heating	°F [°C]	50~113.0 [10~45.0]
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]	558 [253]
External Finish			Galvanized steel sheets
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		208/230, 3, 60, ±10%
Minimum Circuit Ampacity		A	79.0/71.0
Maximum Overcurrent Protection		A	125/125
SCCR		kA	5
Flow Rate		G/min (gpm)	50.7
		L/min	192
Pressure Drop		psi	6.53
		Ft.	15.1
Operation Volume Range		G/min (gpm)	26.4~63.4
		m3/h	6.0~14.4
Refrigerant Piping Diameter (From Twinning Kit to First Joint or Header)	Liquid (High Pressure)	In. [mm]	7/8 [22.2] Brazed (Pipe Size Dependent on Piping Length)
	Gas (Low Pressure)	In. [mm]	1-3/8 [34.93] Brazed
Max. Total Refrigerant Line Length		Ft.	2,460
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit Connectable	Total Capacity		50.0~150.0% of heatsource unit capacity
	Model/Quantity		P06~P96/2.0~50.0
Sound Pressure Level		dB(A)	58.0/58.0
Compressor Operating Range			12.0% to 100.0%
Compressor	Type x Quantity		Inverter scroll hermetic x 1
Compressor Motor Output		kW	16.1
Refrigerant	Type x Original Charge		R410A x 25.0 lbs. + 13.0oz. [11.7 kg]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 Mpa (601 psi)
	Inverter Circuit		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Lubricant			MEL32
AHRI Ratings (Ducted/Non-ducted)	EER		10.8/11.0
	IEER		18.8/21.2
	COP		4.52/9.05
	SCHE		19.7/19.7

NOTES:
[1]23°F EWT (Entering water temperature) is possible with glycol.

Specifications are subject to change without notice.

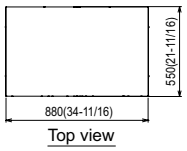
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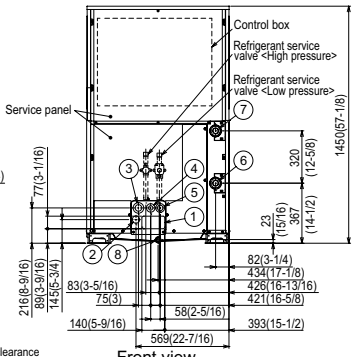
OUTDOOR UNIT: PQRY-P240TLMU-A1 – DIMENSIONS

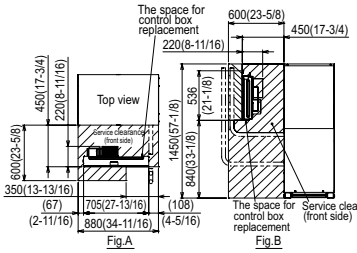
Note1.Seal around the water piping, the refrigerant piping, the power supply, and the control wiring and plug unused knockout holes with putty, etc., to prevent moisture or dirt from entering cabinet.
Note2.At the time of product shipment, the front side piping serves as the local drainage connection.
When connecting on the rear side, please remove the rear side plug sealing corks, and attach on the front side.
Ensure there is no leak in piping system once connected.
Note3.See Fig. A and Fig. B for service clearances.
Note4.If piping is installed in front of the unit, provide clearances as shown in Fig. A and Fig. B.
Note5.Environmental condition for installation; -20~40°C(DB) (-4~104°F) for 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 heat source unit is not in operation and provide glycol for freeze protection.
•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).

Unit : mm(in)

<Accessories>
- Refrigerant (high pressure) conn. pipe····· 1pc. (P216/P240 ; Packaged in the accessory kit)
- Refrigerant (low pressure) conn. pipe····· 1pc. (P216/P240 ; Packaged in the accessory kit)
- Water stopper····· 1pc. (P216/P240 ; Packaged in the accessory kit)
- Sealing material for water stopper····· 1pc. (P216/P240 ; Packaged in the accessory kit)
- Sealing material for field piping (high pressure, low pressure)····· 1pc. each (P216/P240 ; Packaged in the accessory kit)
- Sealing material for drain socket····· 1pc. (P216/P240 ; Packaged in the accessory kit)
- Pipe cover for low pressure····· 1pc. (P216/P240 ; Packaged in the accessory kit)
- Sealing material for base leg (two types)····· 4pc. each (P216/P240 ; Packaged in the accessory kit)
- Sealing material for panel····· 1pc. (P216/P240 ; Packaged in the accessory kit)



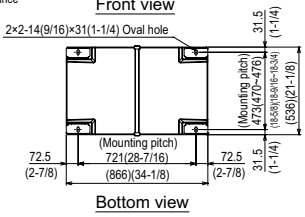




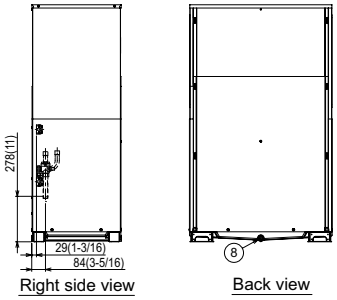
Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PQRY-P216TLMU-A1	ø22.2 Brazed (7/8) *1 *2	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PQRY-P240TLMU-A1		ø34.93 Brazed (1-3/8) *1 *3		

*1.Connect by using the connecting pipes that are supplied.
*2.When the piping length is 65 m or longer, use the ø28.58(1-1/8) pipe for the part that exceeds 65 m.
*3.Use the pipe joint(field supply) and connect to the refrigerant service valve piping.



Top of unit casing not suitable for supporting system modules stacked above - field framing required for stacking modules of additional systems



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	

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FORM# PQRY-P240TLMU-A1 - 202207

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