CITYMULTI®

14-TON PQHY-P168YLMU-A2

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:

System Reference: Date:



ACCESSORIES

- ☐ Optical Relay for Flow Switch (One Piece) RIBTE24B
- ☐ 1.5” EPIV Valve (One Piece) EV150S396NRXME
- ☐ Transformer 50VA (One Piece) TR50VA015
- ☐ 1.5” Temp sensor, optional (One Piece) ..... ZM-TW150NPT KIT
- ☐ Header Kit ..... for details see Pipe Accessories Submittal
- ☐ 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			PQHY-P168YLMU-A2
Cooling Capacity (Nominal)		BTU/H	168,000
Heating Capacity (Nominal)		BTU/H	188,000
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]	497 [225]
External Finish			Galvanized steel sheets
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		460, 3, 60, ±10%
Minimum Circuit Ampacity		A	26.0
Maximum Overcurrent Protection		A	45
SCCR		kA	5
Flow Rate		G/min (gpm)	31.7
		L/min	120
Pressure Drop		psi	6.38
		Ft.	14.7
Operation Volume Range		G/min (gpm)	19.8~50.9
		m3/h	4.5~11.6
Refrigerant Piping Diameter (From Twinning Kit to First Joint or Header)	Liquid (High Pressure)	In. [mm]	5/8 [15.88] Brazed
	Gas (Low Pressure)	In. [mm]	1-1/8 [28.58] Brazed
Max. Total Refrigerant Line Length		Ft.	984
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit Connectable	Total Capacity		50.0~130.0% of heatsource unit capacity
	Model/Quantity		P04~P96/1.0~42.0
Sound Power Level		dB(A)	70.0
Compressor Operating Range			16.0% to 100.0%
Compressor	Type x Quantity		Inverter scroll hermetic x 1
Compressor Motor Output		kW	11.0
Refrigerant	Type x Original Charge		R410A x 13.0 lbs. + 4.0oz. [6.0 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		12.0/12.9
	IEER		16.7/17.9
	COP		4.76/5.48

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: PQHY-P168YLMU-A2 – DIMENSIONS

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).

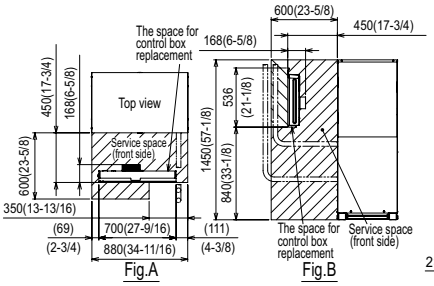
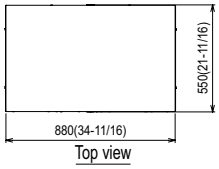


Fig.A Fig.B

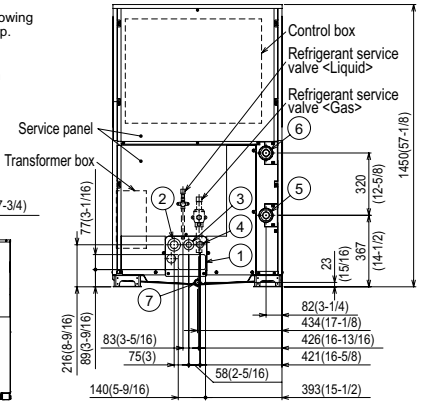
Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PQHY-P144YLMU-A2	ø12.7 Brazed (1/2) *1 *2	ø28.58 Brazed (1-1/8) *1	ø15.88 (5/8)	ø28.58 (1-1/8)
PQHY-P168YLMU-A2	ø15.88 Brazed (5/8) *1			
PQHY-P192YLMU-A2				

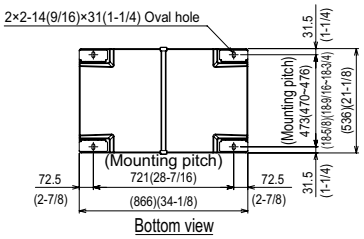
*1.Connect by using the connecting pipes and elbow that are supplied.
*2.Use the pipe joint(field supply) and connect to the refrigerant service valve piping.



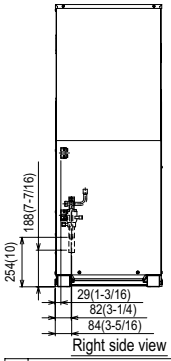
Top view



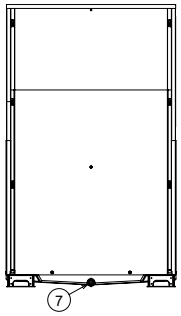
Front view



Bottom view



Right side view



Back view

<accessories (Packaged in the accessory kit)>
- Refrigerant (Liquid) conn. pipe ····· 1pc.
- Refrigerant (Gas) conn. elbow ····· 1pc.
- Water stopper (Liquid,Gas) ····· 1pc. each
- Sealing material for water stopper (Liquid,Gas) ····· 1pc. each
- Sealing material for field piping (Liquid,Gas) ····· 1pc. each
- Sealing material for drain socket ····· 1pc.
- Pipe cover for gas ····· 1pc.
- Sealing material for base leg (two types) ····· 4 pcs.each
- Sealing material for panel ····· 1pc.

Unit: mm(in)

NO.	Usage		Specifications
①	For pipes	Front through hole	140 × 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		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		outlet	NPT1-1/2 Screw
⑦	Drain pipe	Rc3/4 Screw	

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