CITY MULTI® Model: 6-TON PUHY-P72YHMU-A MITSUBISHI ELECTRIC

Job Name: Location:

Drawing Reference: Schedule No.

System No.: Date:

OUTDOOR VRFZ HEAT PUMP SYSTEM FEATURES

- 3-phase, 460V systems
- Modular variable refrigerant flow zoning (VRFZ) systems; smaller capacity units can be piped together to form a single, large-capacity two-pipe system
- Compact size for each outdoor module; components can be transported through standard-sized doorways for installation
- Selectable fan static, 0.12 or 0.24"WG external static pressure; factory set to 0"WG
- Max. Total Refrigerant Line Length: 3,280'; Max. Refrigerant Line Length: 541'; Max. Control Wiring Length: 1,650'
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network
- External finish: Pre-coated Galvanized-steel Sheets
- Operating Temperature Range
  Cooling (Outdoor): 23° ~ 109°F (-5° ~ +43°C) DB
  Heating (Outdoor): -4° ~ +60°F (-20° ~ +16°C) WB



PUHY-P72YHMU-A

INVERTER

R410A

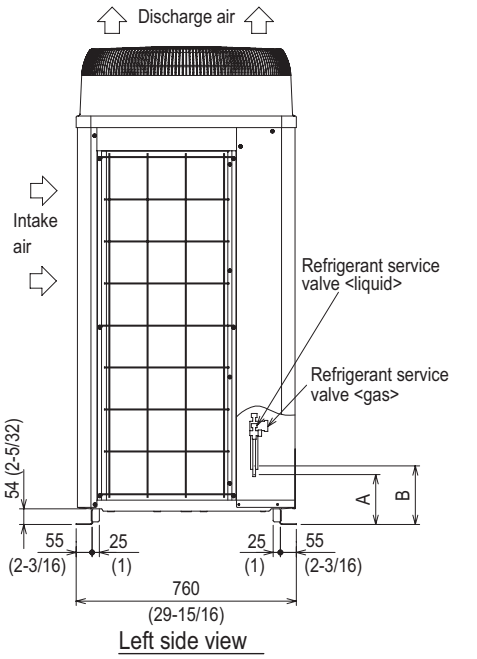
OPTIONAL PARTS

- ☐ Branch Joint (T-Branch: ≤ 72,000 Btu/h)……CMY-Y102S-G2
- ☐ Branch Joint (T-Branch: 73,000-144,000 Btu/h)…..CMY-Y102L-G2
- ☐ Header - 4-Branch (Capacity: ≤ 72,000 Btu/h)…...CMY-Y104-G
- ☐ Header - 8-Branch (Capacity: ≤ 144,000 Btu/h)…...CMY-Y108-G
- ☐ Header - 10-Branch (Capacity: ≤ 234,000 Btu/h)…..CMY-Y1010-G

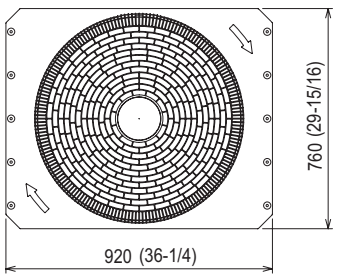
Specifications		Model Name
Unit Type		PUHY-P72YHMU-A
Nominal Cooling Capacity	Btu/h	72,000
Nominal Heating Capacity	Btu/h	80,000
External Dimensions (H x W x D)	In. / mm	65 x 36-1/4 x 29-15/16 / 1,650 x 920 x 760
Net Weight	Lbs. / kg	474 / 215
Electrical Power Requirements	Voltage, Phase, Hertz	460V, 3-phase, 60Hz
Cooling Power Input	kW	5.27
Heating Power Input	kW	5.68
Cooling Current (460V)	A	7.3
Heating Current (460V)	A	7.9
Minimum Circuit Ampacity (MCA)	A	11
Maximum Overcurrent Protection (MOCP)	A	15
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	3/8 / 9.52
	Gas (Low Pressure)	3/4 / 19.05
Indoor Unit	Total Capacity	50 to 130% of Outdoor Unit Capacity
	Model / Quantity	P06 to P96 / 1 to 15
Sound Pressure Levels	dB(A)	58.0
Fan		
Type x Quantity		Propeller Fan x 1
Airflow Rate	CFM	7,050
Direct-drive Inverter Motor Output	kW	0.92
Compressor Operating Range		18% to 100%
Compressor Type x Quantity		Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW	5.1
Compressor Crankcase Heater	kW	0.051
Refrigerant		R410A
Lubricant		MEL32
High-pressure Protection Device		601 psi / 4.15 MPa
Compressor / Fan Protection Device		Overheat Protection / Thermal Switch
Inverter Protection Device		Overheat / Overcurrent Protection
Blue Fin Anti-corrosion Protection: Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants; ≥1µm thick; Salt Spray Test Method - no unusual rust development to 480 hours.		

Model: PUHY-P72YHMU-A – DIMENSIONS

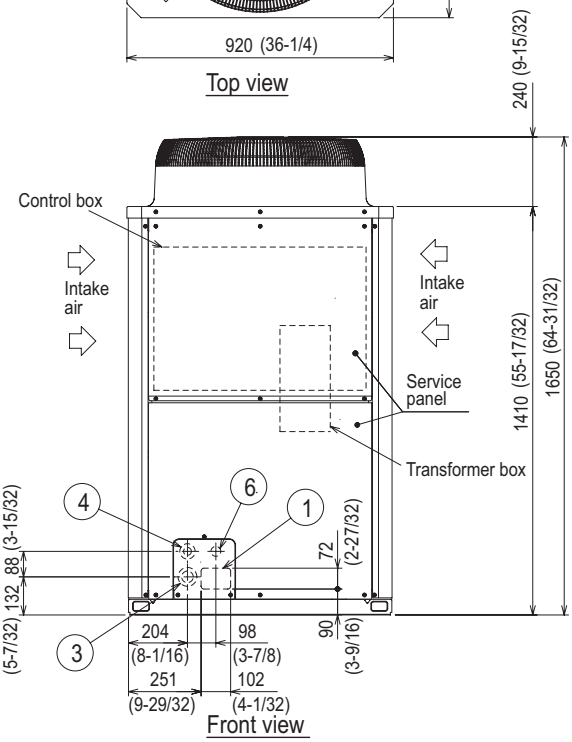
Unit : mm(in)



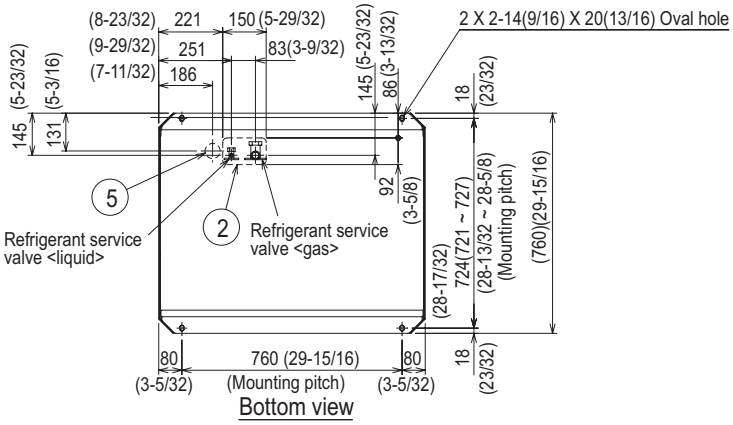
Left side view



Top view



Front view



Bottom view

Accessories

- Connecting pipe

Gas	· Elbow (IDø25.4 [1] X ODø25.4 [1])·····P72, P96	1 pc.
	· Pipe (IDø25.4 [1] X ODø19.05 [3/4])·····P72	1 pc.
	· Pipe (IDø25.4 [1] X ODø22.2 [7/8])·····P96	1 pc.
Liquid	· Pipe (IDø9.52 [3/8] X ODø9.52 [3/8])·····P72, P96	1 pc.

Connecting pipe specifications

Model	Position dimensions for the refrigerant service valve		Connection specifications for the refrigerant service valve *1	
	Liquid	Gas	Liquid	Gas
	A	B		
PUHY-P72YHMU (-BS)	142 (5-19/32)	170 (6-23/32)	ø9.52 Brazed (3/8)	ø19.05 Brazed (3/4)
PUHY-P96YHMU (-BS)		172 (6-25/32)	ø9.52 Brazed (3/8) (ø12.7 Brazed)*2 (1/2)	ø22.2 Brazed (7/8)

*1 Use the connecting pipes (for bottom and front pipes) that are supplied.
*2 Total length ≧ 90m (295')

Note 1. Refer to the Engineering or Installation manual for information regarding necessary clearance around the unit, and installation site requirements.
2. When brazing the pipes, protect the refrigerant service valve by wrapping it with a wet cloth to keep its temperature under 120°C (248°F).

NO.	Usage		Specifications
①	For pipes	Front access hole	102 X 72 Knockout hole (4-1/32) (2-27/32)
②		Bottom access hole	150 X 92 Knockout hole (5-29/32)(3-5/8)
③	For wires	Front access hole	ø62.7 or ø34.5 Knockout hole (2-15/32) (1-3/8)
④		Front access hole	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
⑤		Bottom access hole	ø52 Knockout hole (2-1/16)
⑥	For transmission cables	Front access hole	ø34 Knockout hole (1-11/32)

Certificate Number FM33568

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of quality warranties for the production of refrigeration and air conditioning equipment.

ISO Authorization System
The ISO 9000 series is a plant authorization system relating to quality warranties as stipulated by the ISO. ISO 9001 certifies quality warranties based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

Certificate Number EC97J1227

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Specifications are subject to change without notice.

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