

Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT PUMP SYSTEM



ACCESSORIES

- Header Kit..... for details see Pipe Accessories Submittal
- Joint Kit..... for details see Pipe Accessories Submittal
- Low Ambient Kit..... for details see Low Ambient Kit Submittal
- Snow/Hail Guards Kit..... for details see Snow/Hail Guards Kit Submittal

Specifications		System	
Unit Type		PUHY-HP72TNU-A	
Cooling Capacity (Nominal)		BTU/H	72,000
Heating Capacity (Nominal)		BTU/H	80,000
Guaranteed Operating Range ¹	Cooling ²	°F [°C]	23~126 [-5.0~52.0]
	Heating ³	°F [°C]	-22~60 [-31.0~60.0]
Extended Operating Range	Heating	°F [°C]	-31~60 [-35.0~15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 48-7/8 x 29-3/16 [1,818 x 1,240 x 740]
Net Weight		Lbs. [kg]	609 [276]
External Finish			Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	38.0/35.0
Maximum Overcurrent Protection		A	60/50
Recommended Fuse Size		A	55
Recommended Minimum Wire Size		AWG [mm]	4/6 [21.2/13.3]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	3/8 [9.52] Brazed
	Gas (Low Pressure)	In. [mm]	7/8 [22.2] Brazed
Max. Total Refrigerant Line Length		Ft.	3280
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1640
Indoor Unit Connectable	Total Capacity		50.0~130.0% of outdoor unit capacity
	Model/Quantity		P05~P72/50.0~130.0
Sound Pressure Levels		dB(A)	55.0~57.0
Sound Power Levels		dB(A)	74.0/76.0
FAN ⁴	Type x Quantity		Propeller fan x 2
	Airflow Rate	CFM	6700
	External Static Pressure	In. WG	Selectable; 0.00, 0.12, 0.24, 0.32 In. WG; factory set to 0 In. WG
Compressor Operating Range			15.0% to 100.0%
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1
Refrigerant	Type x Original Charge		R410A x 21 lbs + 10.0 oz [9.8 kg]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)		Over-current protection
	Fan Motor		Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER		11.9/13.1
	IEER		21.1/27.2
	COP		4.03/4.39

NOTES:
 Nominal cooling conditions (Test conditions are based on AHRI 1230)
 Indoor: 80°F DB./67°F WB. (26.7°C DB./19.4°C WB.), Outdoor: 95°F DB. (35°C DB.)
 Nominal heating conditions (Test conditions are based on AHRI 1230)
 Indoor: 70°F DB. (21.1°C DB.), Outdoor: 47°F DB./43°F WB. (8.3°C DB./6.1°C WB.)

¹Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region

²For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal

³When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating

⁴Unit will continue to operate in extended operating range, but capacity is not guaranteed

OUTDOOR UNIT: PUHY-HP72TNU-A – DIMENSIONS

PUHY-HP72, 96, 120TNU-A

Unit: mm (in.)

Note 1. 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).

Model	Refrigerant pipe		Diameter	
	Liquid	Gas	Gas	Service valve
HP72	φ9.52(3/8) Braze ^{*1}			Gas
HP96	φ9.52(3/8) Braze ^{*1}		φ22.7(7/8) Braze ^{*1}	Liquid
	φ12.7(1/2) Braze ^{*1,3}			
HP120	φ9.52(3/8) Braze ^{*1}		φ28.58(1-1/8) Braze ^{*1}	Liquid
	φ12.7(1/2) Braze ^{*1,2,4}			

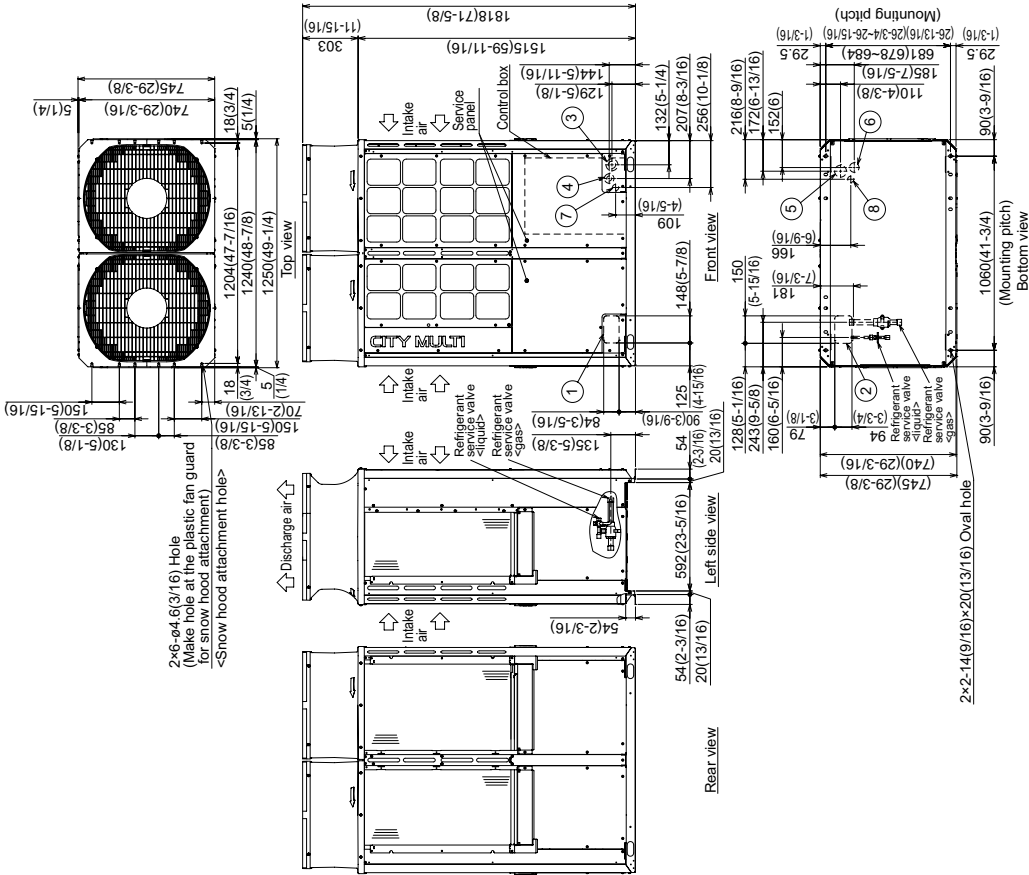
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*2 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.

*3 Furthest piping length (OU from IU) ≥ 90m

*4 Furthest piping length (OU from IU) ≥ 40m

NO.	Usage	Specifications
①	Front through hole	148(5-7/8) x 84(3-5/16) Knockout hole
②	Bottom through hole	150(5-15/16) x 94(3-3/4) Knockout hole
③	Front through hole	φ62.7(2-1/2) or φ54.5(1-3/8) Knockout hole
④	Front through hole	φ43.7(1-3/4) or φ22.7(7/8) Knockout hole
⑤	Bottom through hole	φ43.7(1-3/4) or φ22.7(7/8) Knockout hole
⑥	Bottom through hole	φ52(2-1/8) Knockout hole
⑦	Front through hole	φ34(1-3/8) Knockout hole
⑧	Bottom through hole	φ34(1-3/8) Knockout hole



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

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