

Job Name:

System Reference:

Date:

**208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM**

**ACCESSORIES**



BC Controller (Required).....for details see BC Controller Submittals  
 Joint Kit.....for details see Pipe Accessories Submittal  
 Snow/Hail Guards Kit.....for details see Snow/Hail Guards Kit Submittal

Specifications		System	
Unit Type		PURY-HP72TNU-A	
Cooling Capacity (Nominal)		BTU/H	72,000
Heating Capacity (Nominal)		BTU/H	80,000
Guaranteed Operating Range	Cooling	°F [°C]	23~126 [-5.0~52.0]
	Heating	°F [°C]	-22~60 [-30.0~15.5]
Extended Operating Range	Heating	°F [°C]	-27.4~60 [-33.0~15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 49-1/4 x 29-3/8 [1,818 x 1,250 x 745]
Net Weight		Lbs. [kg]	609 [276]
External Finish			Pre-coated galvanized steel sheet [MUNSELL 5Y 8/1]
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	60/50
Recommended Minimum Wire Size		AWG [mm]	6/6 [13.3/13.3]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	5/8 [15.88] Brazed
	Gas (Low Pressure)	In. [mm]	3/4 [19.05] Brazed
Max. Total Refrigerant Line Length		Ft.	1,804
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 outdoor unit capacity
	Model/Quantity		P04~P96/1.0~18.0
Sound Pressure Levels		dB(A)	56.5/58.0
Sound Power Levels		dB(A)	75.5/77.0
FAN <sup>4</sup>	Type x Quantity		Propeller fan x 2
	Fan Motor Output	kW	0.46+0.46
	Airflow Rate	CFM	7,400
	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 17 lbs + 10.0 oz [8.0 kg]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)		Over-heat protection, Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER		11.9/13.1
	IEER		20.9/25.6
	COP		3.76/4.09
	SCHE		25.9/25.5

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

<sup>1</sup>Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region  
<sup>2</sup>For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal  
<sup>3</sup>When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating  
<sup>4</sup>Unit will continue to operate in extended operating range, but capacity is not guaranteed

# OUTDOOR UNIT: PURY-HP72TNU-A – DIMENSIONS

PURY-HP72, 96, 120TNU-A

Unit: mm (in.)

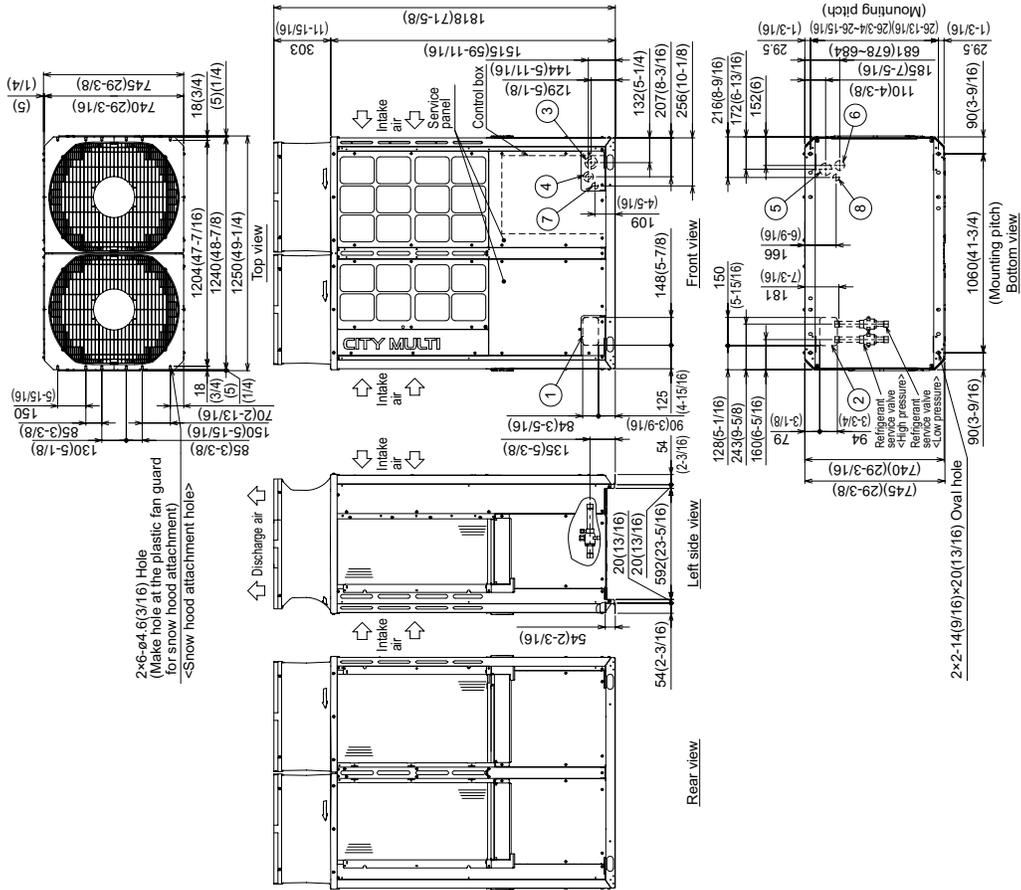
Note 1. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
HP72	φ18.85(3/4) Brazed*1	φ19.05(3/4) Brazed*1	φ28.58(1-1/8)	φ28.58(1-1/8)
HP96	φ22.27(7/8) Brazed*1	φ22.27(7/8) Brazed*1	φ28.58(1-1/8)	φ28.58(1-1/8)
HP120	φ28.58(1-1/8) Brazed*1	φ28.58(1-1/8) Brazed*1	φ28.58(1-1/8)	φ28.58(1-1/8)

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

NO.	Usage	Specifications
①	Frontthrough hole	148(5-7/8) x 84(3-3/8) Knockout hole
②	Bottomthrough hole	150(5-15/16) x 94(3-3/4) Knockout hole
③	Frontthrough hole	φ62.7(2-1/2) or φ34.5(1-3/8) Knockout hole
④	Frontthrough hole	φ43.7(1-3/4) or φ22.7(7/8) Knockout hole
⑤	Bottomthrough hole	φ65(2-9/16) Knockout hole
⑥	Bottomthrough hole	φ52(2-1/8) Knockout hole
⑦	Frontthrough hole	φ34(1-3/8) Knockout hole
⑧	Bottomthrough hole	φ34(1-3/8) Knockout hole



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