

Job Name:

System Reference:

Date:

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

Standard Model.....PURY-P120TNU-A  
Seacoast (BS) Model.....PURY-P120TNU-A-BS

**ACCESSORIES**

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

Specifications			System
Unit Type			PURY-P120TNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	120,000
Heating Capacity (Nominal)		BTU/H	135,000
Guaranteed Operating Range	Cooling	°F [°C]	23~126 [-5.0~52.0]
	Heating	°F [°C]	-13~60 [-25.0~15.5]
Extended Operating Range	Heating	°F [°C]	-18.0~60 [-18.0~15.5]
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]	598 [271]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 5Y 8/1]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	43.0/40.0
Maximum Overcurrent Protection		A	70/60
Recommended Fuse Size		A	50/50
Recommended Minimum Wire Size		AWG [mm]	6/6 [13.3/13.3]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	3/4 [19.05] Braze
	Gas (Low Pressure)	In. [mm]	1-1/8 [28.58] Braze
Max. Total Refrigerant Line Length		Ft.	1,968
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~P96/1.0~30.0
Sound Pressure Levels		dB(A)	60.0/62.0
Sound Power Levels		dB(A)	80.0/80.5
FAN <sup>4</sup>	Type x Quantity		Propeller fan x 2
	Fan Motor Output	kW	0.46+0.46
	Airflow Rate	CFM	8,300
	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		12.1/13.2
	IEER		23.3/28.8
	COP		3.61/4.01
	SCHE		25.3/29.1

**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.)

<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-P120TNU-A(-BS) – DIMENSIONS

PURY-P96,120,144TNU-A(-BS)

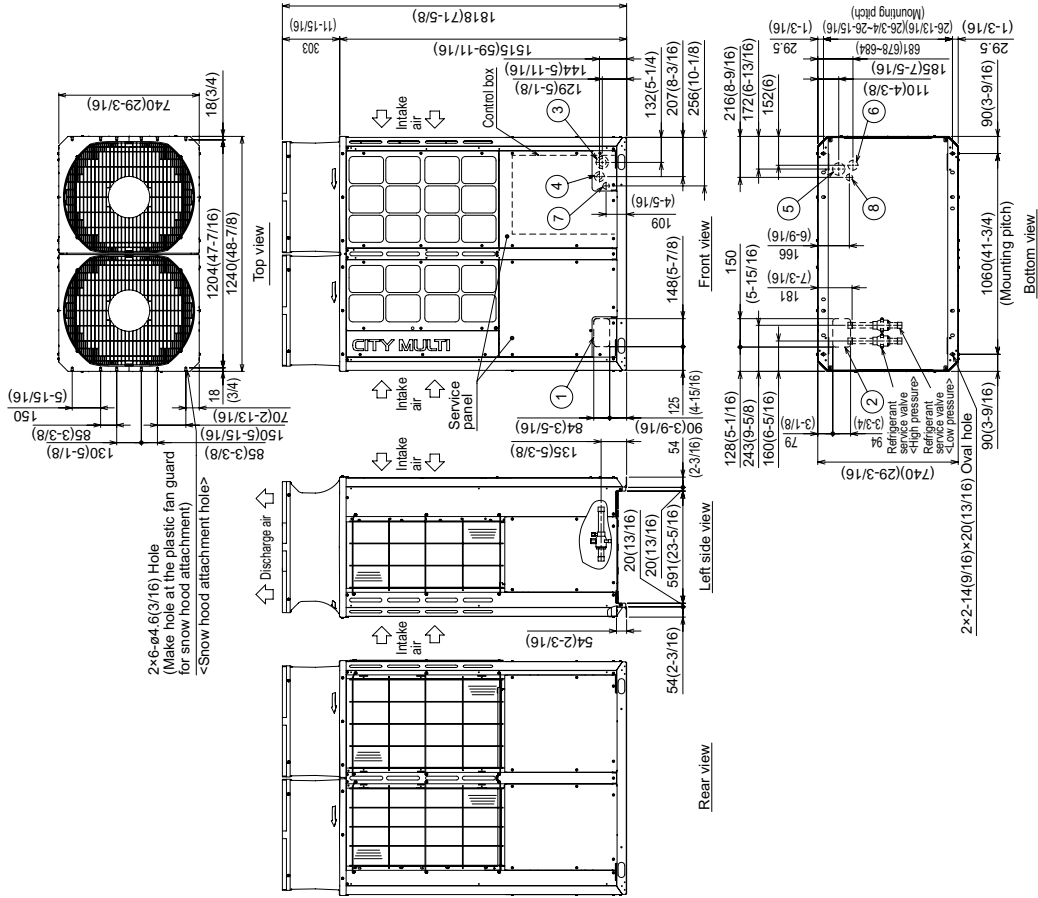
Unit: mm(in)

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		Diameter		Service valve	
	High pressure	Low pressure	High pressure	Low pressure	High pressure	Low pressure
P96	φ19.05(3/4) Brazed <sup>*1</sup>	φ22.7(7/8) Brazed <sup>*1</sup>	φ22.7(7/8)	φ28.6(1-1/8)	φ28.6(1-1/8)	φ28.6(1-1/8)
P120	φ19.05(3/4) Brazed <sup>*1</sup>	φ22.7(7/8) Brazed <sup>*1</sup>	φ22.7(7/8)	φ28.6(1-1/8)	φ28.6(1-1/8)	φ28.6(1-1/8)
P144	φ22.7(7/8) Brazed <sup>*1</sup>	φ28.6(1-1/8) Brazed <sup>*1</sup>	φ28.6(1-1/8)	φ34.9(1-3/8)	φ34.9(1-3/8)	φ34.9(1-3/8)

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



NO.	Usage	Specifications
①	For pipes	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 150(5-15/16) x 94(3-3/4) Knockout hole
④		Front through hole 150(5-15/16) x 94(3-3/4) Knockout hole
⑤		Front through hole 150(5-15/16) x 94(3-3/4) Knockout hole
⑥		Front through hole 150(5-15/16) x 94(3-3/4) Knockout hole
⑦		Front through hole 150(5-15/16) x 94(3-3/4) Knockout hole
⑧		Front through hole 150(5-15/16) x 94(3-3/4) Knockout hole

NOTES:  
SEACOAST PROTECTION  
Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.  
Standard: Salt Spray Test Method - no unusual rust development to 480 hours.  
Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

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