

Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM**UNIT OPTION**
 Standard Model.....PURY-P144TNU-A
 Seacoast (BS) Model.....PURY-P144TNU-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-P144TNU-A(-BS)	
Cooling Capacity (Nominal)		BTU/H	144,000
Heating Capacity (Nominal)		BTU/H	160,000
Guaranteed Operating Range ¹	Cooling ²	°F [°C]	23~126 [-5.0~52.0]
	Heating ³	°F [°C]	-4~60 [-20.0~15.5]
Extended Operating Range	Heating	°F [°C]	-18~60 [-18.0~15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 48-7/8 x 29-5/32 [1,818 x 1,240 x 740]
Net Weight		Lbs. [kg]	646 [293]
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	52.0/48.0
Maximum Overcurrent Protection		A	80/70
Recommended Fuse Size		A	60/60
Recommended Minimum Wire Size		AWG [mm]	4/4 [21.2/21.2]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	7/8 [22.2] Brazed
	Gas (Low Pressure)	In. [mm]	1-1/8 [28.58] Brazed
Max. Total Refrigerant Line Length		Ft.	1968
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1640
Indoor Unit Connectable	Total Capacity		50.0~150.0% of outdoor unit capacity
	Model/Quantity		P05~P96/1.0~36.0
Sound Pressure Levels		dB(A)	65.0~65.5
Sound Power Levels		dB(A)	85.5/85.5
FAN ⁴	Type x Quantity		Propeller fan x 2
	Airflow Rate	CFM	9550
	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 23 lbs + 12.0 oz [18.8 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
	Fan Motor		Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER		11.0/12.2
	IEER		23.1/28.7
	COP		3.43/3.84
	SCHE		24.8/27.7

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.)

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: PURY-P144TNU-A-(BS) – DIMENSIONS

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

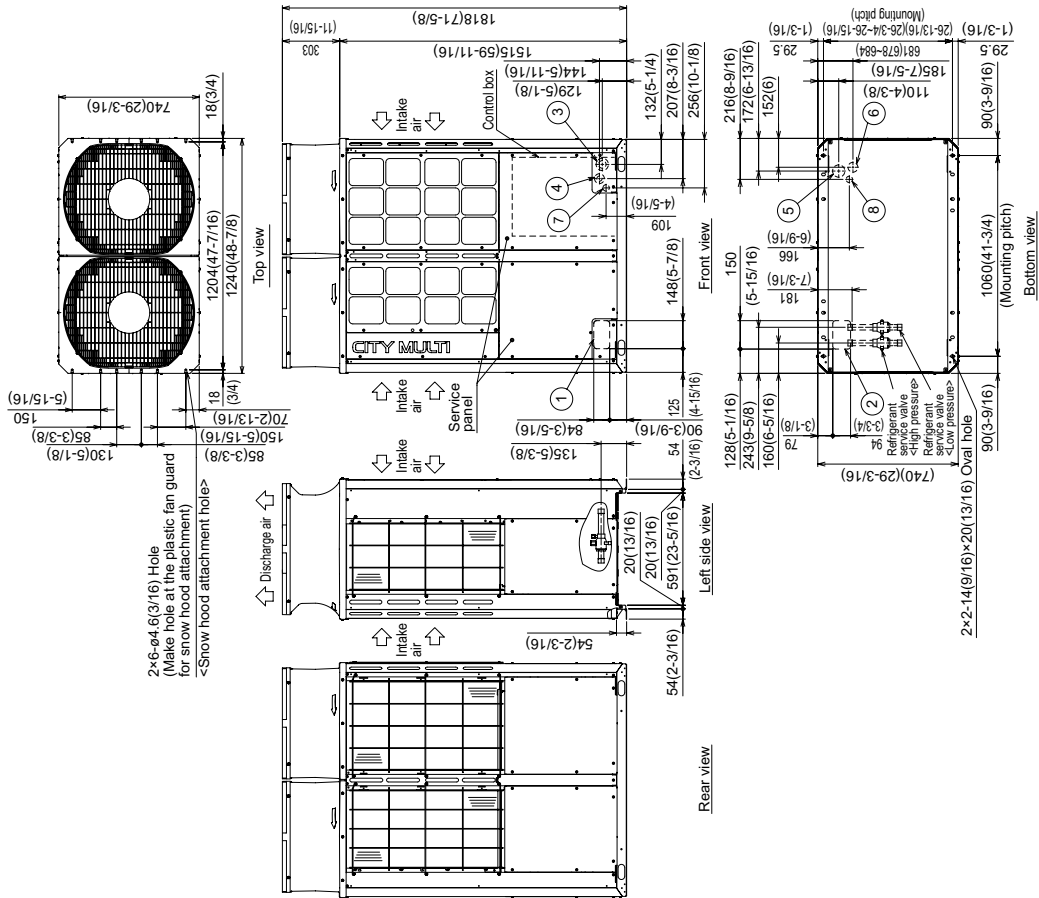
Unit: mm(in)

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	
P96	φ19.05(3/4) Brazed*1	φ22.7(7/8) Brazed*1	φ22.7(7/8)	φ28.3(1-1/8)	φ28.3(1-1/8)
P120	φ19.05(3/4) Brazed*1	φ22.7(7/8) Brazed*1	φ22.7(7/8)	φ28.3(1-1/8)	φ28.3(1-1/8)
P144	φ22.7(7/8) Brazed*1	φ28.3(1-1/8) Brazed*1	φ28.3(1-1/8)	φ34.9(1-3/8)	φ34.9(1-3/8)

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



2-6-φ4.6(3/16) Hole
(Make hole at the plastic fan guard
for snow hood attachment)
<Snow hood attachment 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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