

Job Name:

System Reference:

Date:

460V OUTDOOR VRF HEAT PUMP SYSTEM**UNIT OPTION**

Standard Model.....PUHY-P96YNU-A
 Seacoast (BS) Model.....PUHY-P96YNU-A-BS

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
 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			PUHY-P96YNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	96,000
Heating Capacity (Nominal)		BTU/H	108,000
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 [-28.0~15.5]
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]	616 [279]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 3Y 7.8/1.1 or similar]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		460V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	15.0
Maximum Overcurrent Protection		A	20
Recommended Fuse Size		A	20
Recommended Minimum Wire Size		AWG [mm]	12 [3.3]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	3/8 [9.52] Brazed (Pipe Size Dependent on Piping Length)
	Gas (Low Pressure)	In. [mm]	7/8 [22.2] Brazed
Max. Total Refrigerant Line Length		Ft.	3,280
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit Connectable	Total Capacity		50.0~130.0% of outdoor unit capacity
	Model/Quantity		P04~P96/1.0~24.0
Sound Pressure Levels		dB(A)	56.5/58.5
Sound Power Levels		dB(A)	75.5/77.5
FAN ⁴	Type x Quantity		Propeller fan x 2
	Fan Motor Output	kW	0.46+0.46
	Airflow Rate	CFM	6,700
	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			17.0% to 100.0%
Compressor Refrigerant	Type x Quantity		Inverter scroll hermetic compressor x 1
	Type x Original Charge		R410A x 21 lbs + 9.0 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
AHRI Ratings (Ducted/Non-ducted)	EER		13.8/15.1
	IEER		19.8/26.7
	COP		4.0/4.35

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-P96YNU-A(-BS) – DIMENSIONS

PUHY-P96, 120, 144YNU-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
	Liquid	Gas	Liquid	Gas	
P96	ø52(3/8) Brazed ø12.7(1/2) Brazed*1,3	Gas	ø52(3/8)	ø25.4(1)	Liquid
P120	ø52(3/8) Brazed ø12.7(1/2) Brazed*1,2,4	Gas	ø52(3/8)	ø25.4(1)	Liquid
P144	ø52(3/8) Brazed ø12.7(1/2) Brazed	Gas	ø52(3/8)	ø25.4(1)	Liquid

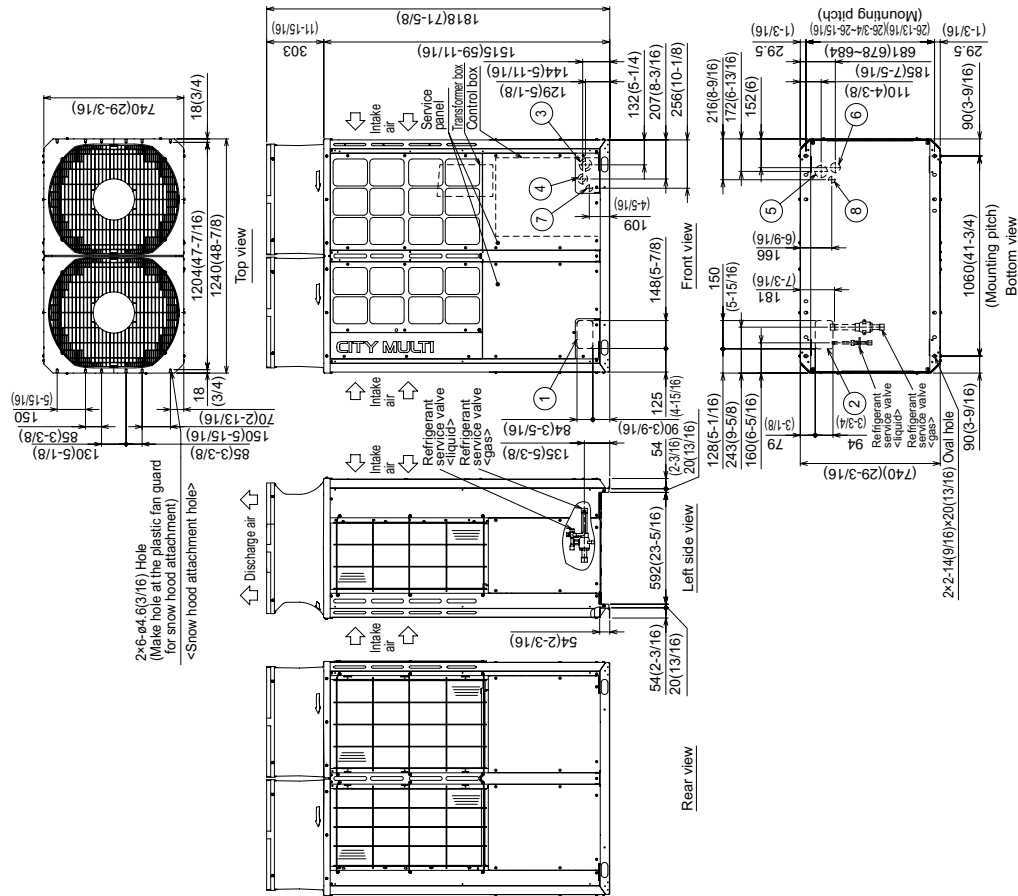
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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 LU)≥90m

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

NO.		Usage	Specifications	
			For pipes	For wires
①	Front through hole	146(5-7/8) × 84(3-5/16) Knockout hole		
②	Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole		
③	Front through hole	ø62.7(2-1/2) or ø54.5(1-3/8) Knockout hole		
④	Bottom through hole	ø62.7(2-1/2) or ø54.5(1-3/8) Knockout hole		
⑤	Front through hole	ø62.7(2-1/2) or ø54.5(1-3/8) Knockout hole		
⑥	Bottom through hole	ø62.7(2-1/2) or ø54.5(1-3/8) Knockout hole		
⑦	Front through hole	ø62.7(2-1/2) or ø54.5(1-3/8) Knockout hole		
⑧	Bottom through hole	ø62.7(2-1/2) or ø54.5(1-3/8) 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.

1340 Satellite Boulevard Suwanee, GA 30024

Toll Free: 800-433-4822 www.mehvac.com

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