CITYMULTI® Model: 8-TON PUHY-P96TKMU-U (-BS)

MITSUBISHI ELECTRIC

Job Name:

Schedule Reference: | Date:

OUTDOOR VRF HEAT PUMP SYSTEM FEATURES

- Assembled in USA
- INVERTER-driven compressor
- Air-source, heat pump system
- Long line lengths - for details see Engineering Manual
- Connects to CITY MULTI indoor units
- Controlled via CITY MULTI Controls Network



PUHY-P96TKMU-U (-BS)

INVERTER

R410A

UNIT OPTION

□ Standard Model……PUHY-P96TKMU-U
□ Seacoast (BS) Model……PUHY-P96TKMU-U-BS

OPTIONAL PARTS

□ Joint Kit……for details see Pipe Accesories Submittal
□ Header Kit……for details see Pipe Accesories Submittal
□ Low Ambient Kit ……for details see Low Ambient Kit Submittal
□ Snow/Hail Guards Kit……for details see Snow/Hail Guards Kit Submittal
□ Base Pan Heater Kit……for details see Base Pan Heater Kit Submittal

Specifications		Model Name
Unit Type		**PUHY-P96TKMU-U (-BS)**
Nominal Cooling Capacity (208/230V)	**Btu/h**	96,000
Nominal Heating Capacity (208/230V)	**Btu/h**	108,000
Operating Temperature Range *1	**Cooling (Outdoor) *2**	23~115° F (-5~46° C) DB
	Heating (Outdoor)	-4~60° F (-20~15.5° C) WB
External Dimensions (H x W x D)	**In. (mm)**	64-31/32 x 48-1/16 x 29-5/32 (1,650 x 1,220 x 740)
Net Weight	**Lbs. (kg)**	532 (241)
External Finish		Pre-coated galvanized steel sheet
Electrical Power Requirements	**Voltage, Phase, Hertz**	208 / 230V, 3-Phase, 60Hz
Minimum Circuit Ampacity (MCA)	**A**	34 / 31
Maximum Fuse Size	**A**	40
Piping Diameter		
From ODU to first joint or header (Brazed) (In. / mm)	**Liquid (High Pressure)**	3/8 (9.52) Brazed (1/2 [12.7] Brazed, if length from outdoor unit to farthest indoor unit is >= 295' [90m])
	Gas (Low Pressure)	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	**Total Capacity**	50~130% of outdoor unit capacity
	Model / Quantity	P06~P96/1~20
Sound Pressure Levels	**dB(A)**	58
Fan		
Type x Quantity		Propeller fan x 1
Airflow Rate	**CFM**	6,200
External Static Pressure	**In. WG**	Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.
Compressor Operating Range		16% to 100%
Compressor Type x Quantity		Inverter scroll hermetic compressor x 1
Refrigerant		R410A x 25 lbs + 6 oz (11.5 kg)
Protection Devices	**High Pressure**	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp. / Fan)	Over-current protection
	Fan Motor	Thermal switch
AHRI Ratings (Ducted/Non-Ducted)	**EER**	12.6 / 13.7
	IEER	19.7 / 20.7
	COP	3.95 / 4.22
Blue Fin Anti-corrosion Protection: Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants **Standard:** ≥1µm thick; Salt Spray Test Method - no unusual rust development to 480 hours. **Seacoast (BS):** ≥1µm thick; Salt Spray Test Method - no unusual rust development to 960 hours.		

NOTES:
*1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
*2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

Specifications are subject to change without notice.
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Model: PUHY-P96TKMU-U (-BS) – DIMENSIONS

Unit : mm(in.)

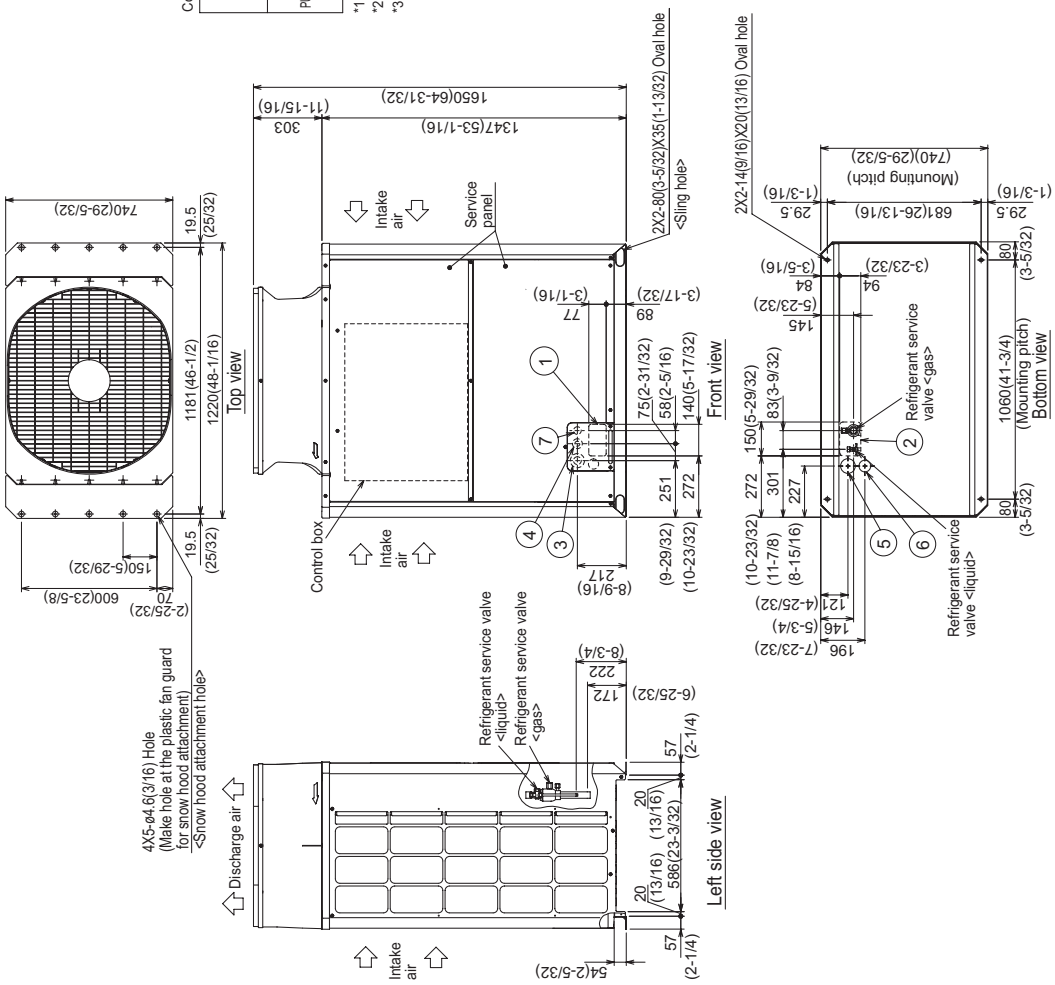
Note1.Please refer to the engineering manual for information regarding necessary spacing around the unit and foundation work. Outdoor unit must be mounted at least 12" off the ground or 12" above the highest average snow depth, whichever is greater."
2.At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P96TKMU	ø9.52 Brazed (3/8) *1 ø12.7 Brazed (1/2) *2 *3	ø22.2 Brazed (7/8) *2	ø9.52 (3/8)	ø28.58 (1-1/8)

*1 Expand the on-site piping and connect to the refrigerant service valve piping.
*2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.
*3 Furthest piping length (OU from IU) ≦ 90m(295ft)

NO.	Usage		Specifications
①	For pipes	Front through hole	140 × 77 Knockout hole (5-17/32) (3-1/16)
②		Bottom through hole	150 × 94 Knockout hole (5-29/32) (3-23/32)
③	For wires	Front through hole	ø62.7 or ø34.5 Knockout hole (2-15/32) (1-3/8)
④		Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
⑤		Bottom through hole	ø65 Knockout hole (2-9/16)
⑥		Bottom through hole	ø52 Knockout hole (2-1/16)
⑦	For transmission cables	Front through hole	ø34 Knockout hole (1-11/32)



AHRI CERTIFIED www.ahridirectory.org Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

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