

Job Name:

Schedule Reference:

Date:



OUTDOOR VRF HEAT PUMP SYSTEM

ACCESSORIES

- T-Branch Joint (≤ 72,000 Btu/h) CMY-Y102SS-G2
- T-Branch Joint (73,000 - 144,000 Btu/h) CMY-Y102LS-G2
- T-Branch Joint (145,000 - 234,000 Btu/h) CMY-Y202S-G2

- Header - 4 Branch (Capacity: ≤ 72,000 Btu/h) CMY-Y104C-G
- Header - 8 Branch (Capacity: ≤ 144,000 Btu/h) CMY-Y108C-G
- Header - 10 Branch (Capacity: ≤ 234,000 Btu/h) CMY-Y1010C-G

UNIT OPTION

- Standard Model.....PUHY-P144ZKMU-A
- Seacoast (BS) Model.....PUHY-P144ZKMU-A-BS

*** All electrical work shall comply with National (CEC) and local codes and regulations.**

Specifications		Model Name
Unit Type		PUHY-P144ZKMU-A (-BS)
Nominal Cooling Capacity (575V)	Btu/h	144,000
Nominal Heating Capacity (575V)	Btu/h	160,000
Operating Temperature Range	Cooling (Outdoor)	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 68-29/32 x 29-5/32 (1,650 x 1,750 x 740)
Net Weight	Lbs. (kg)	757(343)
External Finish - Colour	(+ power coating for - BS type)	Pre-coated galvanized steel sheet - MUNSELL 5Y 8/1 or similar
Electrical Power Requirements	Voltage, Phase, Hertz	575V, 3-Phase, 60Hz
Minimum Circuit Ampacity (MCA) *	A	21
Maximum Overcurrent Protection (MOP)	A	30
<i>Piping Diameter (Brazed)</i>		
From ODU to First Joint or Header (In. / mm)	Liquid (High Pressure)	1/2 (12.7)
	Gas (Low Pressure)	1-1/8 (28.58)
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~P96/1~31
Sound Pressure Levels	dB(A)	61.0
<i>Fan</i>		
Type x Quantity		Propeller fan x 2
Airflow Rate	CFM	10,950
External Static Pressure	In. WG	Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.
Compressor Operating Range		15% to 100%
Compressor Type x Quantity		Inverter scroll hermetic compressor x 1
Refrigerant		R410A x 26 lbs. + 1 oz. (11.8 kg)
Protection Devices	High Pressure	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	11.7/13.1
	IEER	20.7/23.9
	COP @ 47F - COP @ 17F	3.46/3.73 - 2.32/2.22
Heat Exchanger		Salt resistant cross fin & copper tube

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Notes:

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.



Module: PUHY-P144ZKMU-A (-BS) - DIMENSIONS

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
 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	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P120ZKMU	ø9.52 Brazed (3/8)×2 (ø12.7 Brazed) (1/2)×1×3×4			
PUHY-P144ZKMU	ø12.7 Brazed (1/2)×1	ø28.58 Brazed (1-1/8)×1	ø12.7 (1/2)	ø28.58 (1-1/8)
PUHY-P168ZKMU	ø15.88 Brazed (5/8)×2			

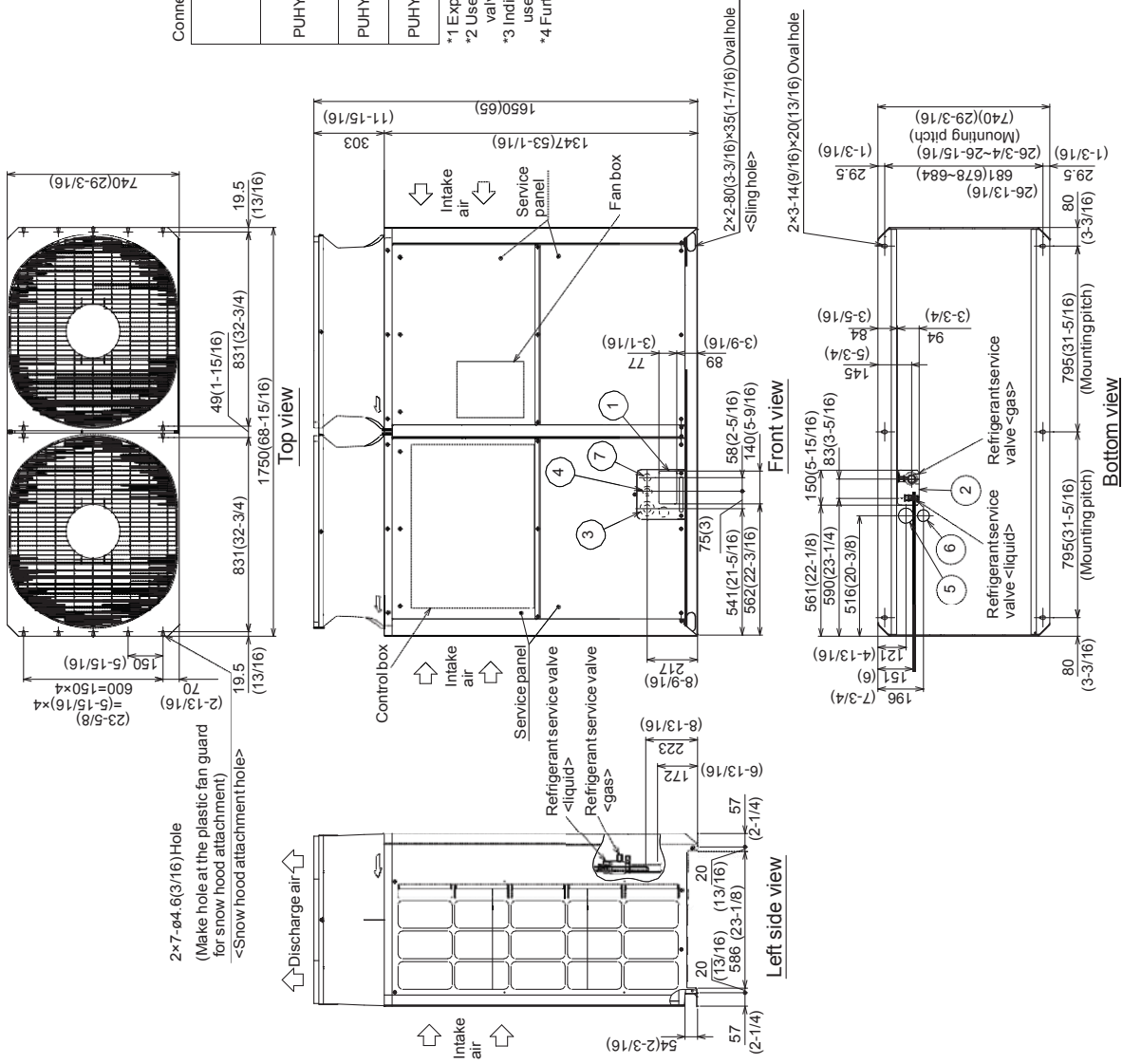
*1 Expand the on-site piping and connect to the refrigerant service valve piping.

*2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

*3 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.

*4 Furthest piping length (OU from IU)≥240m(131ft)

NO.	Usage	Specifications
①	For pipes	Front through hole 140 x 77 Knockout hole (5-9/16) (3-1/16)
②		Bottom through hole 150 x 94 Knockout hole (5-15/16)(3-3/4)
③	For wires	Front through hole ø27.7 or ø34.5 Knockout hole (2-1/2) (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 (1-3/8)



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