MITSUBISHI ELECTRIC
Heating and Cooling

Submittal Data: PUHY-P144ZKMU-B (-BS)

CITY MULTI

Job Name:	Location:
Schedule Reference:	Submitted By:
Submitted To:	Reference: ☐ Approval: ☐ Construction: ☐
Engineer:	Date: / Application:

☐ Standard Model

☐ Seacoast (-BS) Model

• Snow/Wind Guards - (See separate submittal)

Specifications:

Indoor Model				Non-Ducted	Ducted
Power source				3-phase 3-wire 575V ±10% 60 Hz	
Cooling capacity (Nominal)			*1 BTU/h	140,000	
			kW	42.2	
		Power input	kW	11.02	
	(575)	Current input	A	12.2	
	(Rated)		BTU/h	138,000	
			kW	40.4	
		Power input	kW	13.76	13.49
	(575)	Current input	A	15.3	15.0
Temp. range of cooling		Indoor	W.B.	59 ~ 75°F (15 ~ 24°C)	
		Outdoor	D.B.	23 ~ 115°F (-5 ~ 46°C)	
Heating capacity (Nominal)			*2 BTU/h	160,000	
			kW	46.9	
		Power input	kW	12.65	
	(575)	Current input	A	14.1	
	(Rated)		BTU/h	152,000	
			kW	44.5	
		Power input	kW	11.58	11.79
	(575)	Current input	A	12.9	13.1
Temp. range of heating		Indoor	D.B.	59 ~ 81°F (15 ~ 27°C)	
		Outdoor	W.B.	- 4 ~ 60°F (-20 ~ 15.5°C)	
Indoor unit connectable		Total capacity		50 ~ 130% of outdoor unit capacity	
		Model / Quantity		P04 ~ P96 / 1 ~ 36	
Sound power level		(measured in anechoic room)	dB <A>	81.5	
Refrigerant piping diameter		Liquid pipe	in. (mm)	1/2 (12.7) Brazed	
		Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity			A	21	
Maximum Overcurrent Protection			A	30	
Fan		Type x Quantity		Propeller fan x2	
		Airflow rate	cfm	11,300	
			m^3/min	320	
			L/s	5,330	
		Control, Driving mechanism		Inverter-control , Brushless DC motor	
		Motor output	kW	0.92 x 2	
	*3	External static press.		0 in.WG (0 Pa)	
Compressor		Type x Quantity		Inverter scroll hermetic compressor x1	
		Starting method		Inverter	
		Motor output	kW	10.8 x 1	
		Case heater	kW	0.045	
		Lubricant		MEL32	
External finish				Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			in. (mm)	64-31/32 x 68-29/32 x 29-5/32 (1650 x 1,750 x 740)	
Protection devices		High Pressure protection		High pressure senor, High pressure switch at 4.15 MPa (601 psi)	
		Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	
		Compressor		-	
		Fan Motor		-	
Refrigerant		Type x original charge		R410A x 26 lbs + 1 oz (11.8kg)	
		Control		LEV and HIC circuit	
Net weight			lbs (kg)	748 (339)	
Heat Exchanger				Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)				Copper pipe, tube-in-tube structure	
Defrosting method				Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts				Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2	
				Header: CMY-Y104/108/1010C-G	
Compressor Operating Range				14.9% to 100%	
AHRI Ratings (Ducted / Non-Ducted)		EER		9.90/9.90	
		IEER		18.50/17.10	
		COP @ 47F - COP @ 17F		3.46/3.73 - 2.32/2.22	

Notes:

1.Nominal Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

2.Nominal Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

3.External static pressure option is available (0.12 in.WG, 0.24 in.WG, 30 Pa, 60 Pa).

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

5.Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s).

6.Mitsubishi Electric Sales Canada Inc. (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.

7.Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes. MESCA assumes no responsibility for any consequences in such cases.

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Outdoor Unit Outline and Dimensions:

Note1.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).

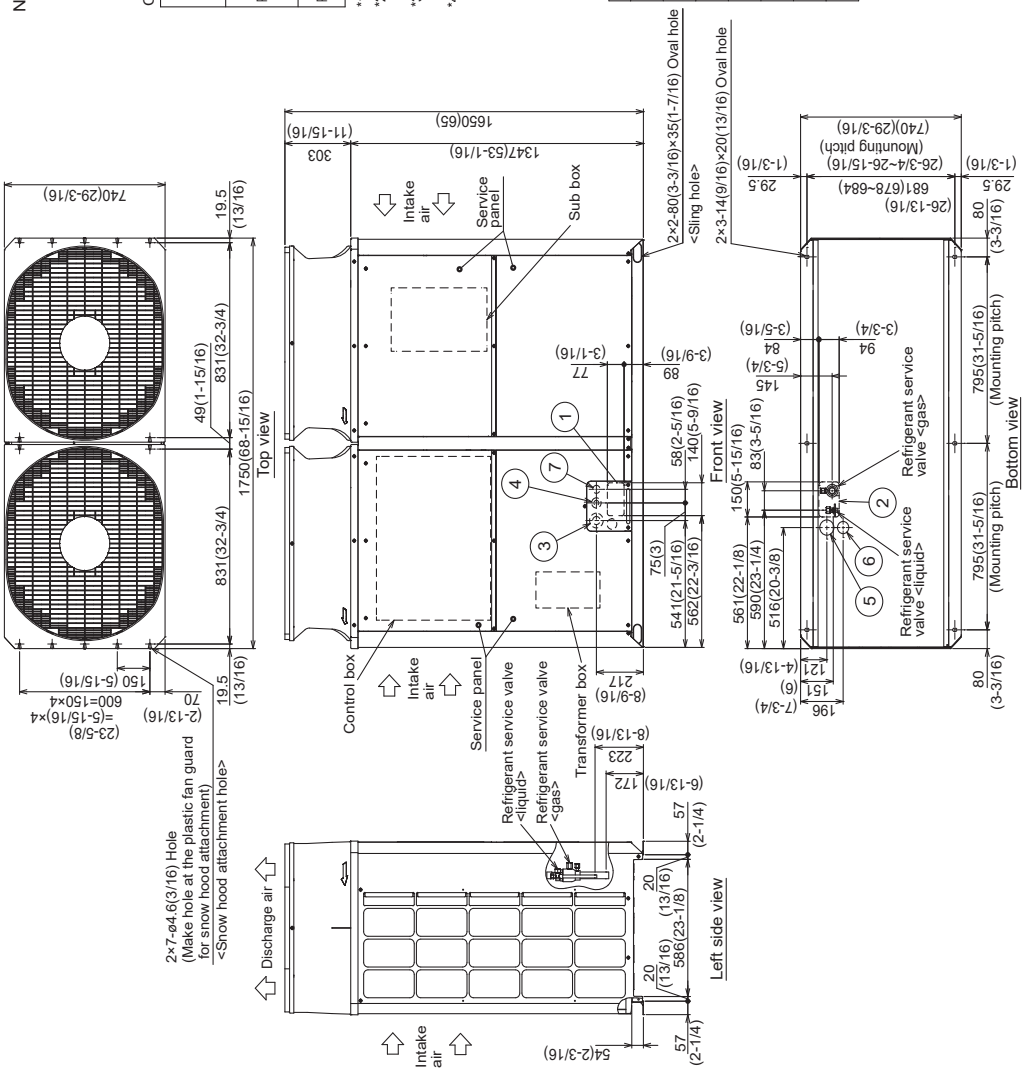
Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P120ZKMU	ø9.52 Brazed (3/8) *2 (ø12.7 Brazed) (1/2)*1 *3 *4	ø28.58 Brazed (1-1/8) *1	ø12.7 (1/2)	ø28.58 (1-1/8)
PUHY-P144ZKMU	ø12.7 Brazed (1/2)*1			

*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)≥40m(131ft)

NO.	Usage		Specifications
①	For pipes	Front through hole	140 × 77 Knockout hole (5-9/16) (3-1/16)
②		Bottom through hole	150 × 94 Knockout hole (5-15/16) (3-3/4)
③	For wires	Front through hole	ø62.7 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)

Unit: mm (in.)



CONFORMS TO ANSI/UL STD. 1995 CERTIFIED TO CAN/CSA STD. C22. 2 NO. 236

MITSUBISHI ELECTRIC
Changes for the Better

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Specifications are subject to change without notice.