CITY MULTI

Model: PUHY-EP120TNU-A-TH(-BS)

Job Name:

Schedule Reference:

Date:

UNIT OPTION

- ☐ Standard Model PUHY-EP120TNU-A-TH
- ☐ Seacoast (BS) Model PUHY-EP120TNU-A-TH-BS

Minimum Operating Temperature
Heating (Outdoor): -25°F (-32°C) WB
Below -22°F (-30°C) WB, an auxiliary heating source is highly recommended.

ACCESSORIES

- ☐ Snow/Wind Guards - (See seperate submittal)
- ☐ Panel Heater - (PAC-PH02EHYU-E) (x1)

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.

Outdoor Model				PUHY-EP120TNU-A (-BS)	
Indoor Model				Non-Ducted	Ducted
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal)			BTU/h	120,000	
			kW	35.2	
	(208-230)	Power input	kW	8.19	
		Current input	A	25.2-22.8	
	(Rated)		BTU/h	114,000	
			kW	33.4	
	(208-230)	Power input	kW	7.57	7.58
		Current input	A	23.3-21.1	23.3-21.1
Temp. range of cooling		Indoor	W.B.	59~75°F (15~24°C)	
		Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity *2 (Nominal)			BTU/h	135,000	
			kW	39.6	
	(208-230)	Power input	kW	9.63	
		Current input	A	29.7-26.8	
	(Rated)		BTU/h	129,000	
			kW	37.8	
	(208-230)	Power input	kW	8.66	9.17
		Current input	A	26.7-24.1	28.2-25.5
Temp. range of heating		Indoor	D.B.	59~81°F (15~27°C)	
		Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable		Total capacity		50~130% of outdoor unit capacity	
		Model/Quantity		P05~P96/1~26	
Sound pressure level (measured in anechoic room) *3			dB <A>	59.5/61.5	
Sound power level (measured in anechoic room) *3			dB <A>	79.5/80.5	
Refrigerant piping diameter		Liquid pipe	in. (mm)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
		Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity (*)			A	40-37	
Maximum Overcurrent Protection (*)			A	60-50	
FAN		Type x Quantity		Propeller fan x 2	
		Airflow rate	cfm	7,750	
			m3/min	220	
		Control, Driving mechanism		Inverter-control, Brushless DC motor	
		Motor output	kW	0.46+0.46	
	*4	External static press.		0 in.WG (0 Pa)	
Compressor		Type x Quantity		Inverter scroll hermetic compressor x 1	
		Starting method		Inverter	
		Motor output	kW	7.4 x 1	
		Case heater	kW	-	
		Lubricant		MEL32	
External finish				Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	
External dimension H x W x D			in.	71-5/8 x 48-7/8 x 29-3/16	
			mm	1,818 x 1,240 x 740	
Protection devices		High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
		Inverter circuit (COMP./FAN)		Over-current protection	
		Fan motor		-	
Refrigerant		Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	
		Control		LEV and HIC circuit	
Net weight			lbs (kg)	633 (287)	
Heat exchanger				Salt-resistant cross fin & aluminium 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/102LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:
1. 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. 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. Cooling mode/Heating mode
4. External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

Specifications are subject to change without notice.

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

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Module: PUHY-EP120TNU-A-TH(-BS) - DIMENSIONS

Unit: mm (in.)

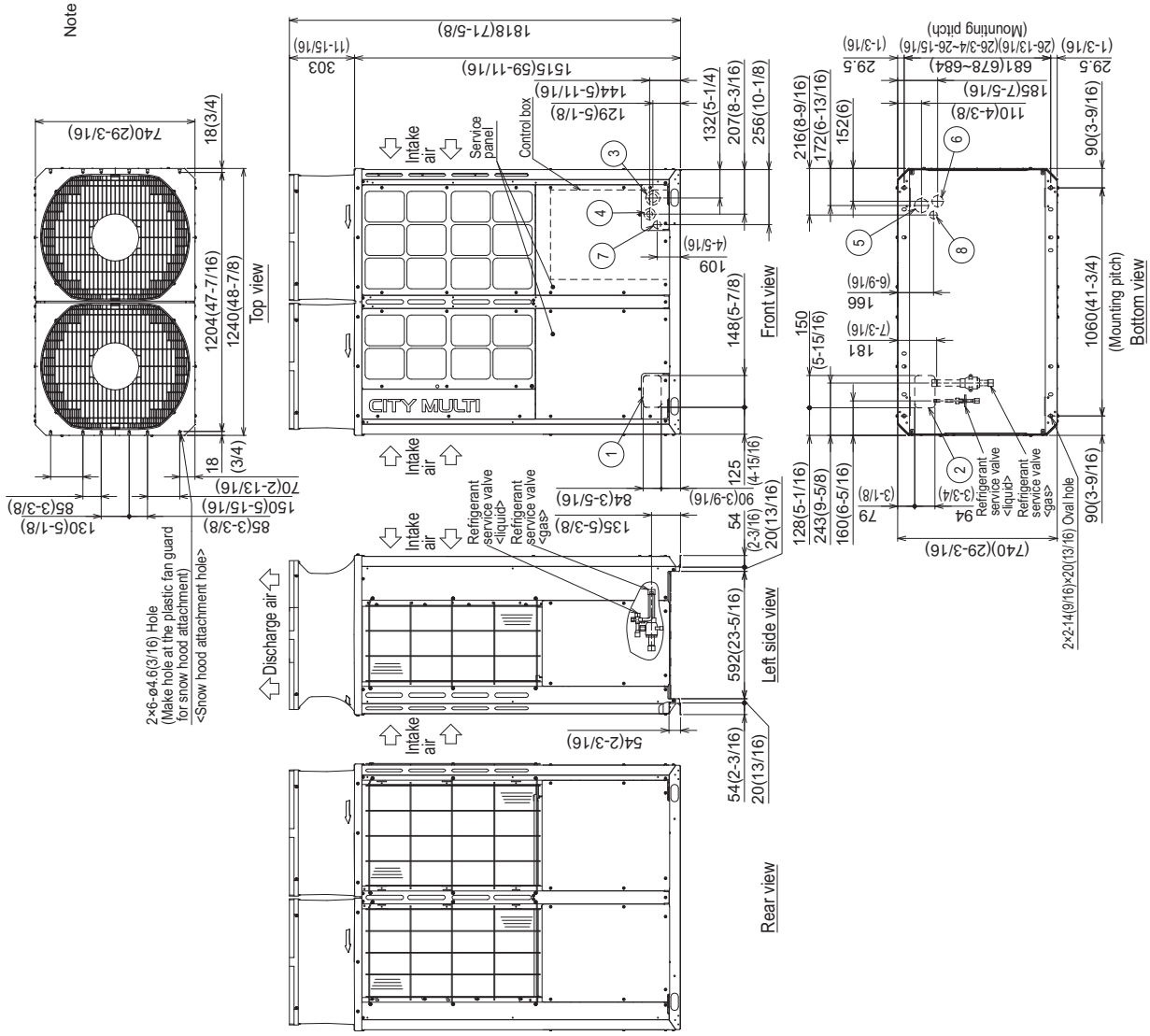
Note 1.Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2.At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
EP96	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,*3	ø22.2(7/8) Brazed*1,*2	ø12.7(1/2)	ø28.58(1-1/8)
EP120	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,*2,*4			
EP144	ø12.7(1/2) Brazed	ø28.58(1-1/8) Brazed		

*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 IU)≥90m
*4 Furthest piping length (OU from IU)≥40m

NO.	Usage		Specifications
①	For pipes	Front through hole	148(5-7/8) × 84(3-5/16) Knockout hole
②		Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole
③	For wires	Front through hole	ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④		Front through hole	ø43.7(1-3/4) or ø22.2(7/8) Knockout hole
⑤		Bottom through hole	ø65(2-9/16) Knockout hole
⑥		Bottom through hole	ø52(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole	ø34(1-3/8) Knockout hole
⑧		Bottom through hole	ø34(1-3/8) Knockout hole



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