

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P120TNU-A1

Seacoast (BS) Model PUHY-P120TNU-A1-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 separate 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.

Notes:

1. Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
 2. Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)
 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
 4. Cooling mode/Heating mode
 5. External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
- * Due to continuing improvement, above specifications may be subject to change without notice.

Specifications are subject to change without notice.

Outdoor Model				PUHY-P120TNU-A1 (-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				
			Power input		kW		8.88		
			(208-230) Current input		A		27.3-24.7		
(Rated)			BTU/h		115,000				
			kW		33.7				
			Power input		kW		10.91	10.80	
			(208-230) Current input		A		33.6-30.4	33.3-30.1	
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				
			Power input		kW		9.97		
			(208-230) Current input		A		30.7-27.8		
			(Rated)			BTU/h		129,000	
						kW		37.8	
			Power input		kW		9.01	9.33	
			(208-230) Current input		A		27.7-25.1	28.7-26.0	
Temp. range of heating *3			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		P04~P96/1~30				
Sound power level (measured in anechoic room) *4				dB <A>		80.0/81.0			
Refrigerant			Liquid pipe	in. (mm)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)				
piping diameter			Gas pipe	in. (mm)	1-1/8 (28.58) Brazed				
Minimum Circuit Ampacity (*)				A		50-46			
Maximum Overcurrent Protection (*)				A		80-70			
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		
			*5 External static press.		0 in.WG (0 Pa)				
Compressor			Type x Quantity		Inverter scroll hermetic compressor x 1				
			Starting method		Inverter				
			Motor output		kW		7.7 x 1		
			Case heater		kW		0.045		
			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)		605 (274)			
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/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G					

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

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Module: PUHY-P120TNU-A1(-BS) - DIMENSIONS

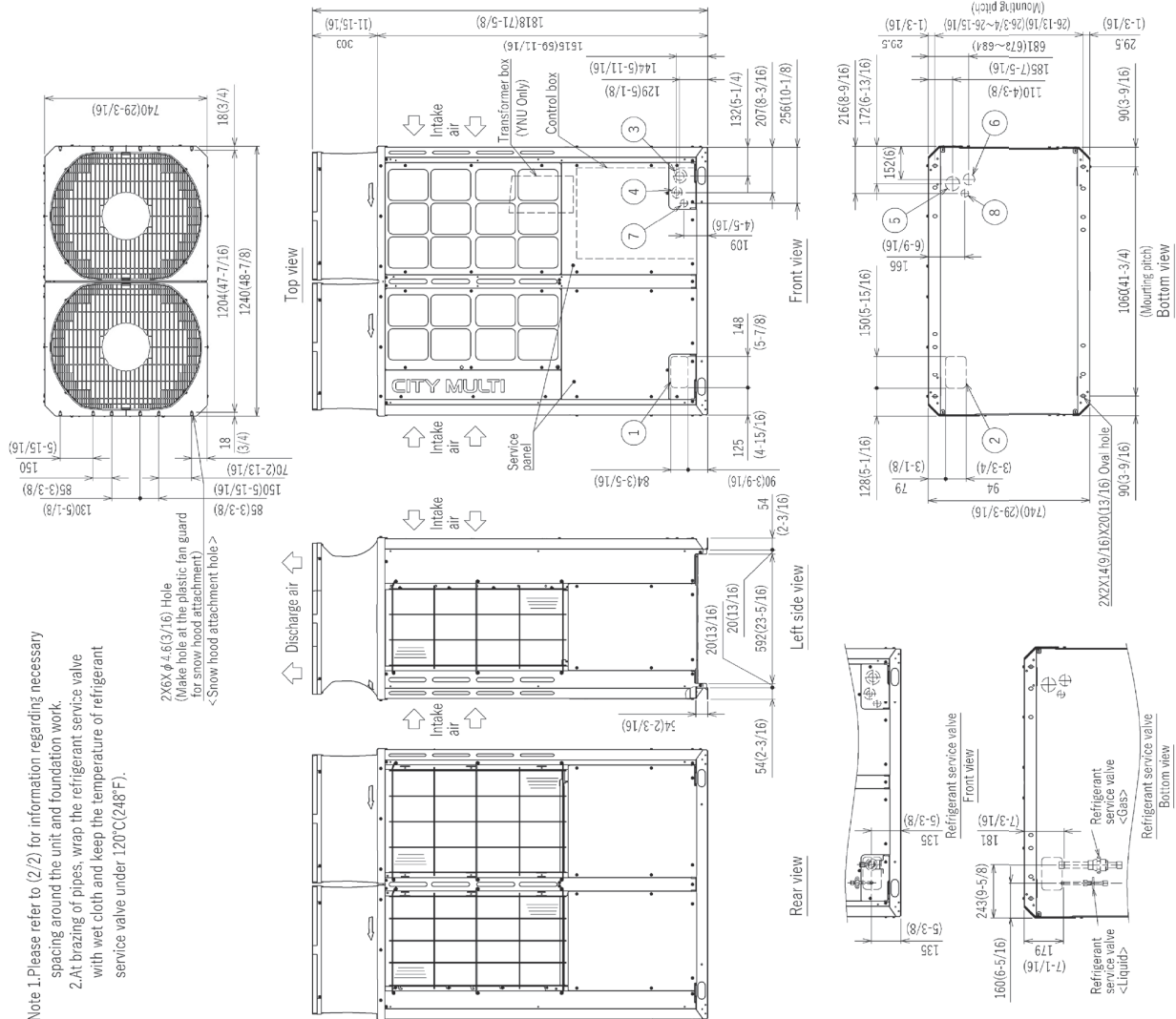
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
(E)P96	φ 9.52(3/8)	φ 22.2(7/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P96	φ 12.7(1/2)	φ 22.2(7/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P120	φ 9.52(3/8)	φ 28.58(1-1/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P120	φ 12.7(1/2)	φ 28.58(1-1/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P144	φ 12.7(1/2)	φ 28.58(1-1/8)	φ 12.7(1/2)	φ 28.58(1-1/8)

- *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 (295ft)
- *4 Furthest piping length (OU from IU) ≧ 40m (131ft)

No.	Usage	Specifications
①	For pipes	Front through hole 148(5-7/8) X 84(3-5/16) Knockout hole
②	For pipes	Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole
③	For pipes	Front through hole 162(7-1/2) or 164(6-5/8) Knockout hole
④	For wires	Front through hole 148(5-7/8) X 84(3-5/16) Knockout hole
⑤	For wires	Bottom through hole 162(7-1/2) or 164(6-5/8) Knockout hole
⑥	For wires	Front through hole 148(5-7/8) X 84(3-5/16) Knockout hole
⑦	For transmission cables	Front through hole 148(5-7/8) X 84(3-5/16) Knockout hole
⑧	For transmission cables	Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole



Note 1. Please refer to (2/2) 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).

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