

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P144TNU-A-TH

Seacoast (BS) Model PUHY-P144TNU-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 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-P144TNU-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	144,000			
		kW	42.2			
		Power input	11.08			
		(208-230) Current input	34.1-30.9			
		(Rated)	BTU/h	138,000		
			kW	40.4		
(208-230)	Power input	kW	12.84	13.36		
	Current input	A	39.6-35.8	41.2-37.2		
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	160,000			
		kW	46.9			
		Power input	12.21			
		(208-230) Current input	37.6-34.0			
		(Rated)	BTU/h	152,000		
			kW	44.5		
(208-230)	Power input	kW	11.06	11.39		
	Current input	A	34.1-30.8	35.1-31.7		
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~P96/1~36		
Sound power level (measured in anechoic room) *4		dB <A>	83.0/84.0			
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	60-55			
Maximum Overcurrent Protection (*)		A	100-90			
FAN		Type x Quantity		Propeller fan x 2		
		Airflow rate		cfm	9,200	
				m3/min	260	
		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	9.6 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 23 lbs + 12 oz (10.8 kg)		
		Control		LEV and HIC circuit		
Net weight		lbs (kg)	649 (294)			
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-P144TNU-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	Refrigerant pipe		Diameter	
	Liquid	Gas	Liquid	Gas
P96	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,3	Gas	ø12.7(1/2) Brazed*1,2	ø28.58(1-1/8)
P120	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,2,4	Gas	ø12.7(1/2) Brazed	ø28.58(1-1/8)
P144	ø12.7(1/2) Brazed	Gas	ø28.58(1-1/8) Brazed	ø28.58(1-1/8)

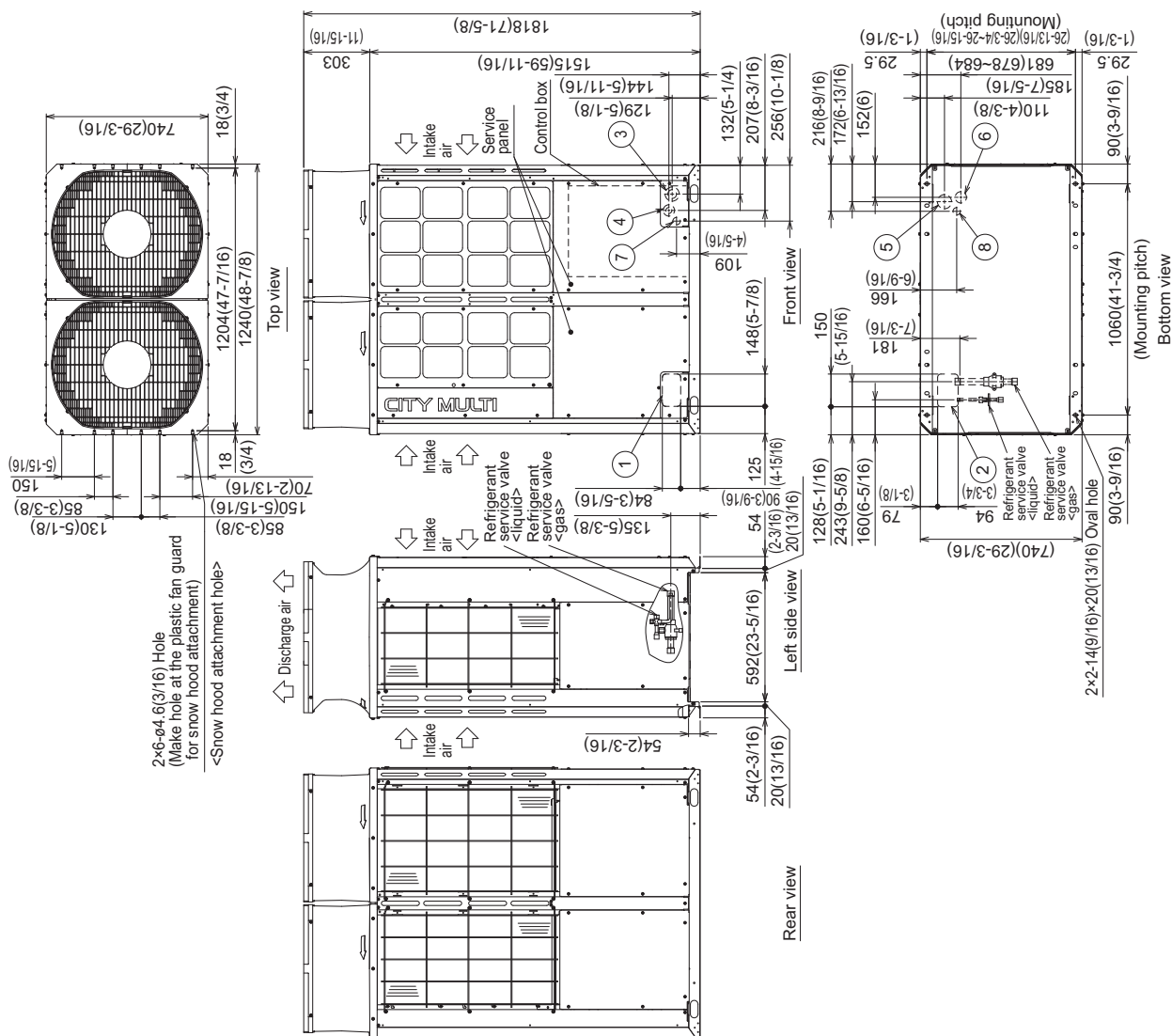
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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

*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) × 84(3-5/16) Knockout hole
③		Front through hole ø62.7(2-1/2) or ø64.5(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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