

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-EP144TNU-A1

Seacoast (BS) Model PUHY-EP144TNU-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. Cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F FD.B./67°F WB. (26.7°C DB./19.4°C WB), Outdoor: 95°F DB. (35°C DB.)
2. Heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F DB. (21.1°C DB.), Outdoor: 47°F DB./43°F WB. (8.3°C DB./6.1°C WB.)
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.

Outdoor Model		PUHY-EP144TNU-A1 (-BS)	
Indoor Model		Non-Ducted	Ducted
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal)	(208-230)	BTU/h	144,000
		kW	42.2
		Power input	kW 10.63
	(Rated)	Current input	A 32.7-29.6
		BTU/h	138,000
		kW	40.4
Temp. range of cooling	(208-230)	Power input	kW 12.72
		Current input	A 39.2-35.4
		Current input	A 39.1-35.4
	(Rated)	BTU/h	160,000
		kW	46.9
		Power input	kW 11.84
Heating capacity *2 (Nominal)	(208-230)	Current input	A 36.5-33.0
		BTU/h	152,000
		kW	44.5
	(Rated)	Power input	kW 10.74
		Current input	A 33.1-29.9
		Current input	A 33.9-30.7
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	P04-P96/1-36	
Sound power level (measured in anechoic room) *3		dB <A>	84.0/83.5
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Braze
	Gas pipe	in. (mm)	1-1/8 (28.58) Braze
Minimum Circuit Ampacity (*)		A	60-60
Maximum Overcurrent Protection (*)		A	100-100
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
	*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	9.3 x 1
	Case heater	kW	0.045
	Lubricant		MEL32
	External finish		
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)	680 (308)
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	

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

Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.

Module: PUHY-EP144TNU-A1(-BS) - DIMENSIONS

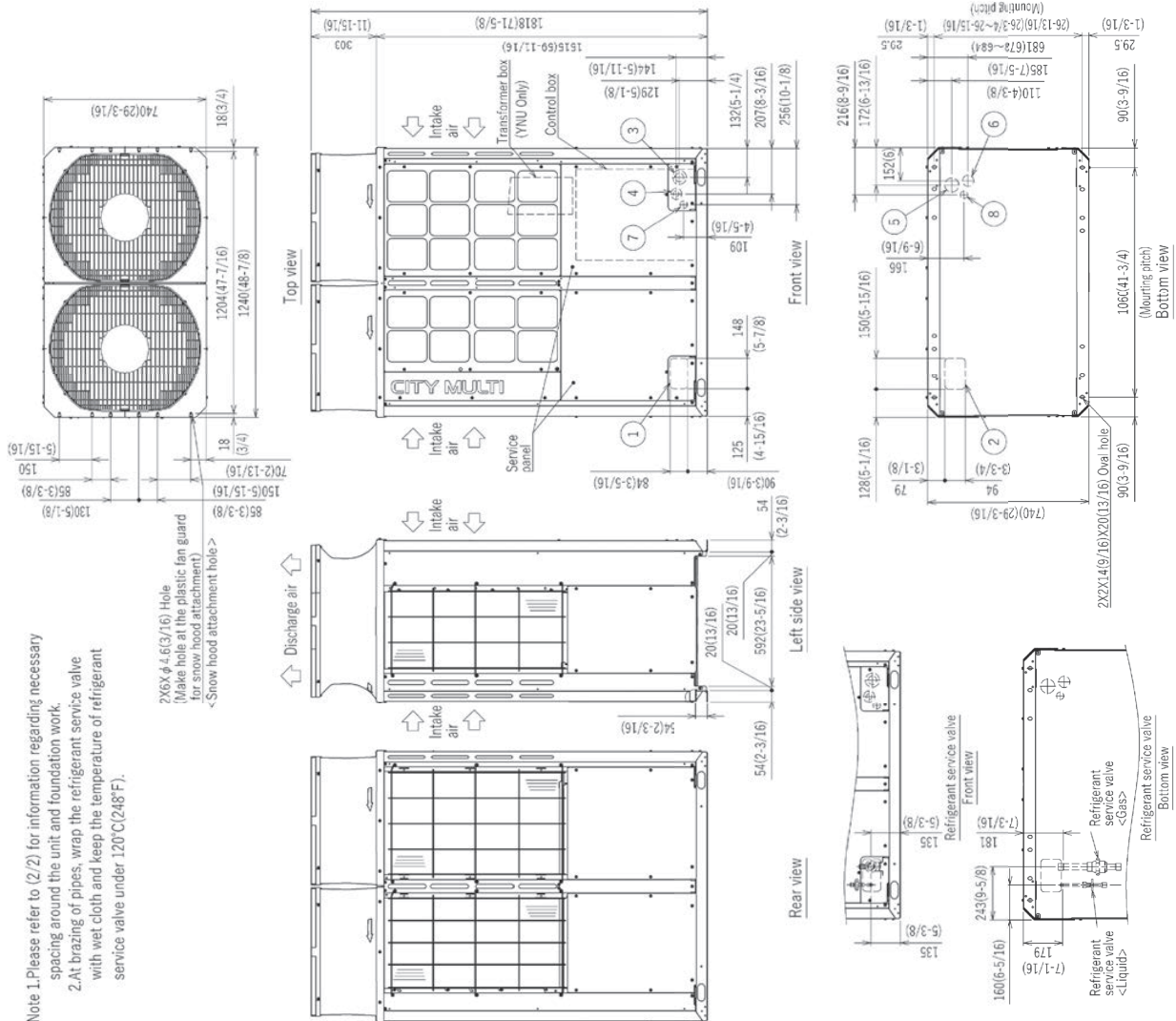
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
(E)P96	φ 9.52(3/8)	Brazed	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P96	φ 12.7(1/2)	Brazed *3	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P120	φ 9.52(3/8)	Brazed	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P120	φ 12.7(1/2)	Brazed *4	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P144	φ 12.7(1/2)	Brazed	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) $\geq 90\text{m}$ (295ft)
- *4 Furthest piping length (OU from IU) $\geq 40\text{m}$ (131ft)

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

2X6X4.4(3/16) Hole
 (Make hole at the plastic fan guard
 for snow load attachment)
 < Snow load attachment hole >

Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.