

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-EP384TSNU-A1

Seacoast (BS) Model PUHY-EP384TSNU-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) (x3)

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-EP384TSNU-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	384,000	
	kW	112.5	
	Power input	kW	31.41
	(208-230) Current input	A	96.8-87.6
(Rated)	BTU/h	364,000	
	kW	106.7	
	Power input	kW	38.77
	(208-230) Current input	A	119.5-108.1
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	430,000	
	kW	126.0	
	Power input	kW	35.13
	(208-230) Current input	A	108.3-97.9
(Rated)	BTU/h	410,000	
	kW	120.2	
	Power input	kW	32.96
	(208-230) Current input	A	101.6-91.9
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~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	
Refrigerant		3/4 (19.05) Braze	
piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Braze
	Gas pipe	in. (mm)	1-5/8 (41.28) Braze

Set Model

Model		PUHY-EP144TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)	PUHY-EP120TNU-A1 (-BS)
Minimum Circuit Ampacity (*)		A	60-60	55-49
Maximum Overcurrent Protection (*)		A	100-100	90-80
FAN	Type x Quantity	Propeller fan x 2		
	Airflow rate	cfm	9,200	7,750
		m3/min	260	220
	Control, Driving mechanism	Inverter-control, Brushless DC motor		
	Motor output	kW	0.46+0.46	0.46+0.46
	*4 External static press.	0 in.WG (0 Pa)	0 in.WG (0 Pa)	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	7.4 x 1
	Case heater	kW	0.045	0.045
	Lubricant	MEL32		
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type)	Pre-coated galvanized steel sheet (+powder coating for -BS type)	Pre-coated galvanized steel sheet (+powder coating for -BS type)
		<MUNSELL 3Y 7.8/1.1 or similar>	<MUNSELL 3Y 7.8/1.1 or similar>	<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	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,240 x 740	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)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
	Control	LEV and HIC circuit		
Net weight		lbs (kg)	680 (308)	633 (287)
Heat exchanger		Salt-resistant cross fin & aluminium tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Braze	1/2 (12.7) Braze
	Gas pipe	in. (mm)	1-1/8 (28.58) Braze	1-1/8 (28.58) Braze
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)		
Optional parts		Outdoor Twinning kit: CMY-Y300CBK2 Joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:

1. 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. Heating conditions (Test conditions are based on AHRI 1230)

Indoor: 70°F D.B./21.1°C D.B., Outdoor: 47°F D.B./4.3°C W.B. (8.3°C D.B./6.1°C W.B.)

3. Cooling mode/Heating mode

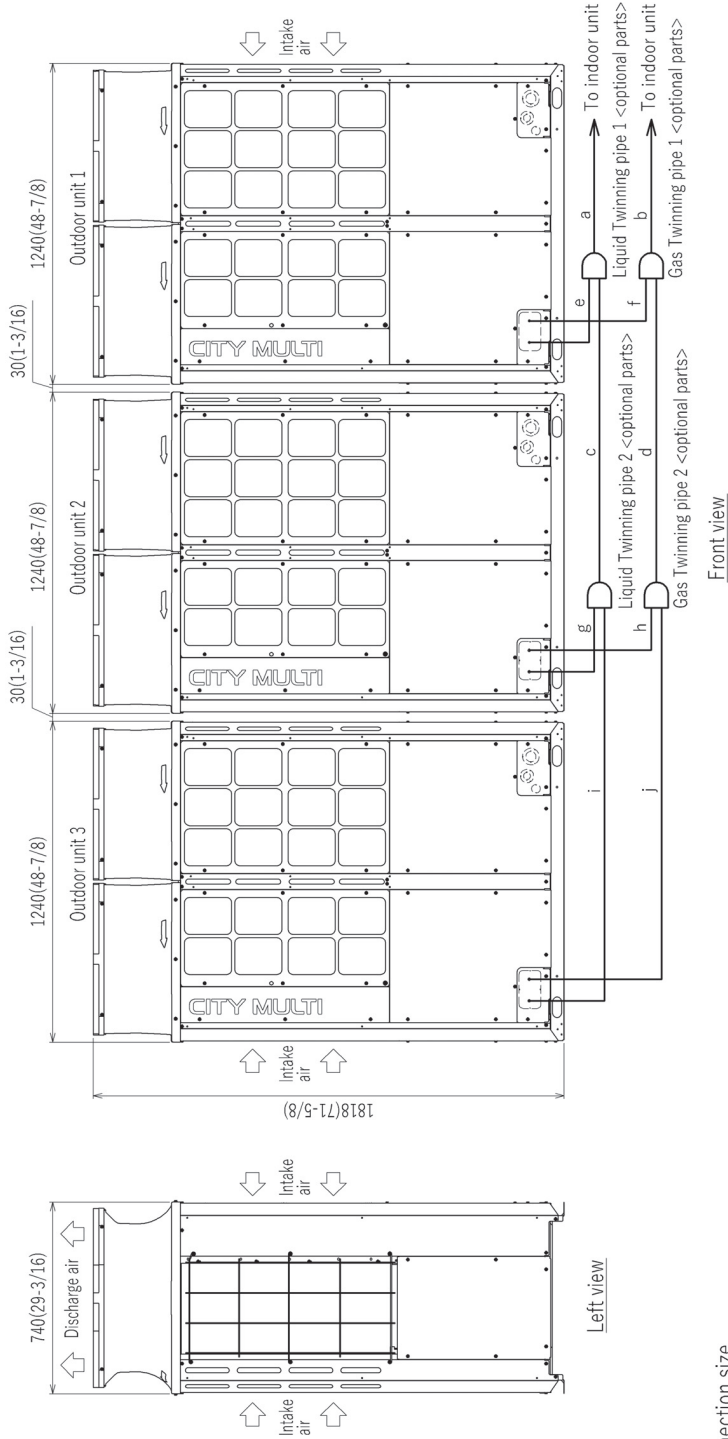
4. External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

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-EP384TSNU-A1(-BS) - DIMENSIONS



Twining pipe connection size

Package unit name	(E)P336T/YSNU	(E)P360T/YSNU	(E)P384T/YSNU	(E)P408T/YSNU	(E)P432T/YSNU
Outdoor unit 1	(E)P120T/YNU	(E)P120T/YNU	(E)P144T/YNU	(E)P144T/YNU	(E)P144T/YNU
Outdoor unit 2	(E)P120T/YNU	(E)P120T/YNU	(E)P120T/YNU	(E)P120T/YNU	(E)P120T/YNU
Outdoor unit 3	(E)P96T/YNU	(E)P120T/YNU	(E)P120T/YNU	(E)P120T/YNU	(E)P144T/YNU
Outdoor Twining Kit(optional parts)	CMY-Y300CBK2	CMY-Y300CBK2	CMY-Y300CBK2	CMY-Y300CBK2	CMY-Y300CBK2
Indoor unit					
~Twining pipe 1	a	φ 19.05(3/4)	φ 19.05(3/4)	φ 19.05(3/4)	φ 19.05(3/4)
~Twining pipe 2	b	φ 41.28(1-5/8)	φ 41.28(1-5/8)	φ 41.28(1-5/8)	φ 41.28(1-5/8)
~Twining pipe 3	c	φ 19.05(3/4)	φ 19.05(3/4)	φ 19.05(3/4)	φ 19.05(3/4)
~Twining pipe 4	d	φ 34.93(1-3/8)	φ 34.93(1-3/8)	φ 34.93(1-3/8)	φ 34.93(1-3/8)
~Twining pipe 5	e	φ 12.7(1/2)	φ 12.7(1/2)	φ 12.7(1/2)	φ 12.7(1/2)
~Outdoor unit 1	f	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)
~Outdoor unit 2	g	φ 12.7(1/2)	φ 12.7(1/2)	φ 12.7(1/2)	φ 12.7(1/2)
~Outdoor unit 3	h	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)
~Twining pipe 2	i	φ 9.52(3/8)	φ 12.7(1/2)	φ 12.7(1/2)	φ 12.7(1/2)
~Outdoor unit 3	j	φ 22.2(7/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

2. Twining pipes must be installed horizontally using a level vessel.

Be sure to see the Installation Manual for details of Twining pipe installation.

3. The pipe section before the Twining pipe (section "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section

(* including the straight pipe that is supplied with the Twining pipe).

4. Only use the Twining pipe by Mitsubishi (optional parts).

Unit: mm (in.)

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Module: PUHY-EP120_144TNU-A1(-BS) - DIMENSIONS

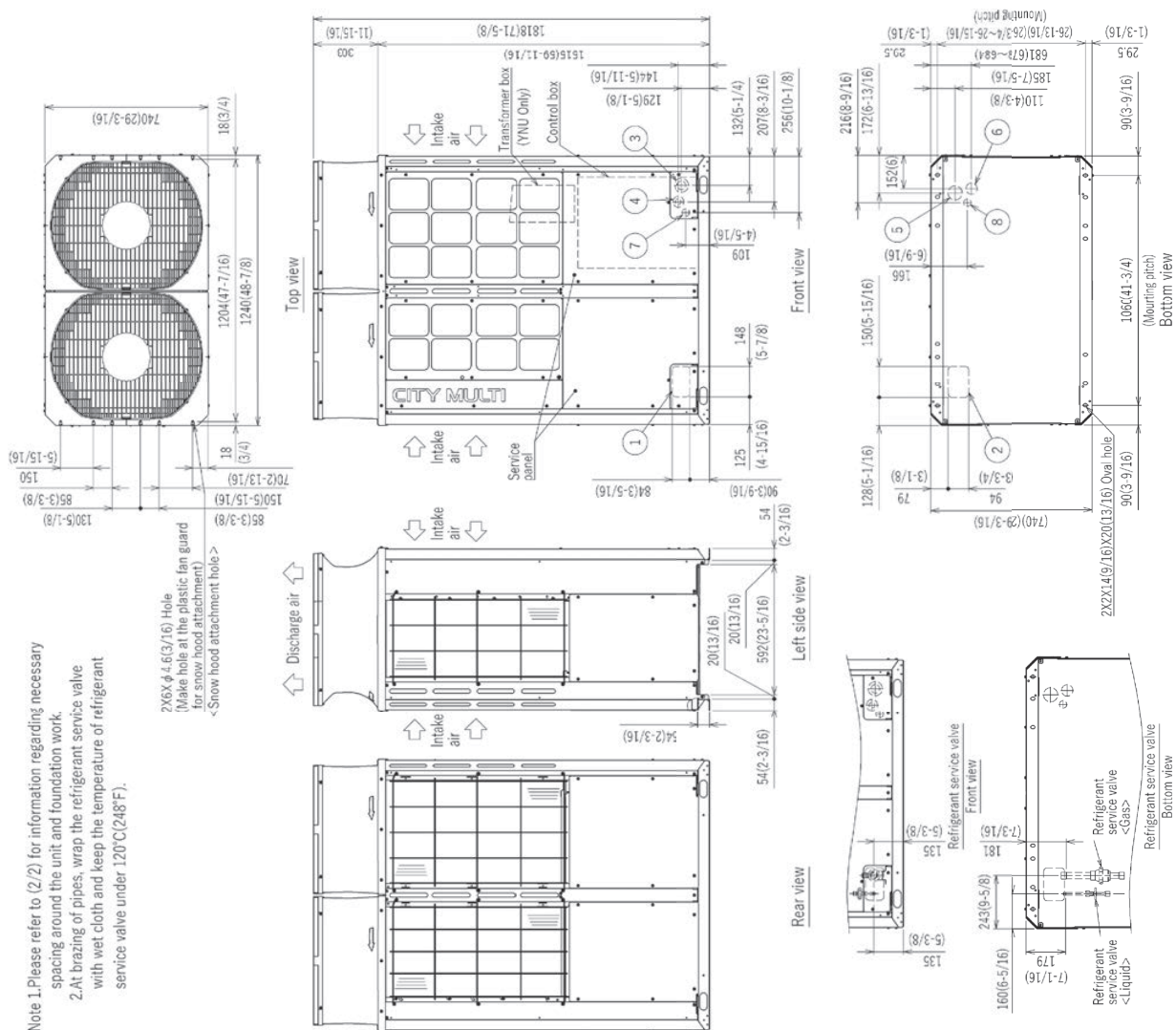
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter		
	Refrigerant pipe *1		Service valve
	Liquid	Gas	
(E)P96	φ52(3/8)	φ22(7/8)	φ12.7(1/2)
(E)P96	φ12.7(1/2)	φ22(7/8)	φ28.58(1-1/8)
(E)P120	φ52(3/8)	φ28.58(1-1/8)	φ12.7(1/2)
(E)P120	φ12.7(1/2)	φ28.58(1-1/8)	φ28.58(1-1/8)
(E)P144	φ12.7(1/2)	φ28.58(1-1/8)	φ12.7(1/2)
(E)P144	φ12.7(1/2)	φ28.58(1-1/8)	φ28.58(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(3-1/5)
②	For pipes	Bottom through hole 150(5-15/16) X 94(3-3/4)
③	For pipes	Front through hole 150(5-15/16) X 94(3-3/4)
④	For pipes	Bottom through hole 150(5-15/16) X 94(3-3/4)
⑤	For wires	Front through hole 148(5-7/8) X 84(3-1/5)
⑥	For wires	Bottom through hole 150(5-15/16) X 94(3-3/4)
⑦	For transmission cables	Front through hole 148(5-7/8) X 84(3-1/5)
⑧	For transmission cables	Bottom through hole 150(5-15/16) X 94(3-3/4)



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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