

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-EP408TSNU-A-TH

Seacoast (BS) Model PUHY-EP408TSNU-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) (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-EP408TSNU-A (-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	408,000	
			kW	119.6	
		Power input	kW	34.31	
		Current input	A	105.8-95.6	
	(Rated)		BTU/h	390,000	
			kW	114.3	
	(208-230)	Power input	kW	41.87	38.28
		Current input	A	129.1-116.7	118.0-106.7
	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)	(208-230)		BTU/h	455,000	
			kW	133.4	
		Power input	kW	37.71	
		Current input	A	116.3-105.1	
	(Rated)		BTU/h	430,000	
			kW	126.0	
	(208-230)	Power input	kW	35.33	33.88
		Current input	A	108.9-98.5	104.4-94.4
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~P96/3~50		
Sound power level (measured in anechoic room) *3			dB <A>	88.0/88.0	
Refrigerant	Liquid pipe	in. (mm)	3/4 (19.05) Brazed		
piping diameter	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed		

Set Model

Model		PUHY-EP144TNU-A (-BS)	PUHY-EP144TNU-A (-BS)	PUHY-EP120TNU-A (-BS)
Minimum Circuit Ampacity (*)		A	60-60	60-60
Maximum Overcurrent Protection (*)		A	100-100	100-100
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2
	Airflow rate	cfm		7,750
		m3/min		220
	Control, Driving mechanism	Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor
	Motor output	kW		0.46+0.46
	External static press.	0 in.WG (0 Pa)		0 in.WG (0 Pa)
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
	Starting method	Inverter		Inverter
	Motor output	kW		9.3 x 1
	Case heater	kW		-
	Lubricant	MEL32		MEL32
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type)		Pre-coated galvanized steel sheet (+powder coating for -BS type)
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)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP, FAN)	Over-current protection		Over-current protection
	Fan motor	-		-
	Type x original charge	R410A x 23 lbs + 12 oz (10.8 kg)		R410A x 21 lbs + 9 oz (9.8 kg)
Refrigerant		Control		LEV and HIC circuit
Net weight		lbs (kg)	680 (308)	680 (308)
Heat exchanger		Salt-resistant cross fin & aluminum tube		Salt-resistant cross fin & aluminum tube
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		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:

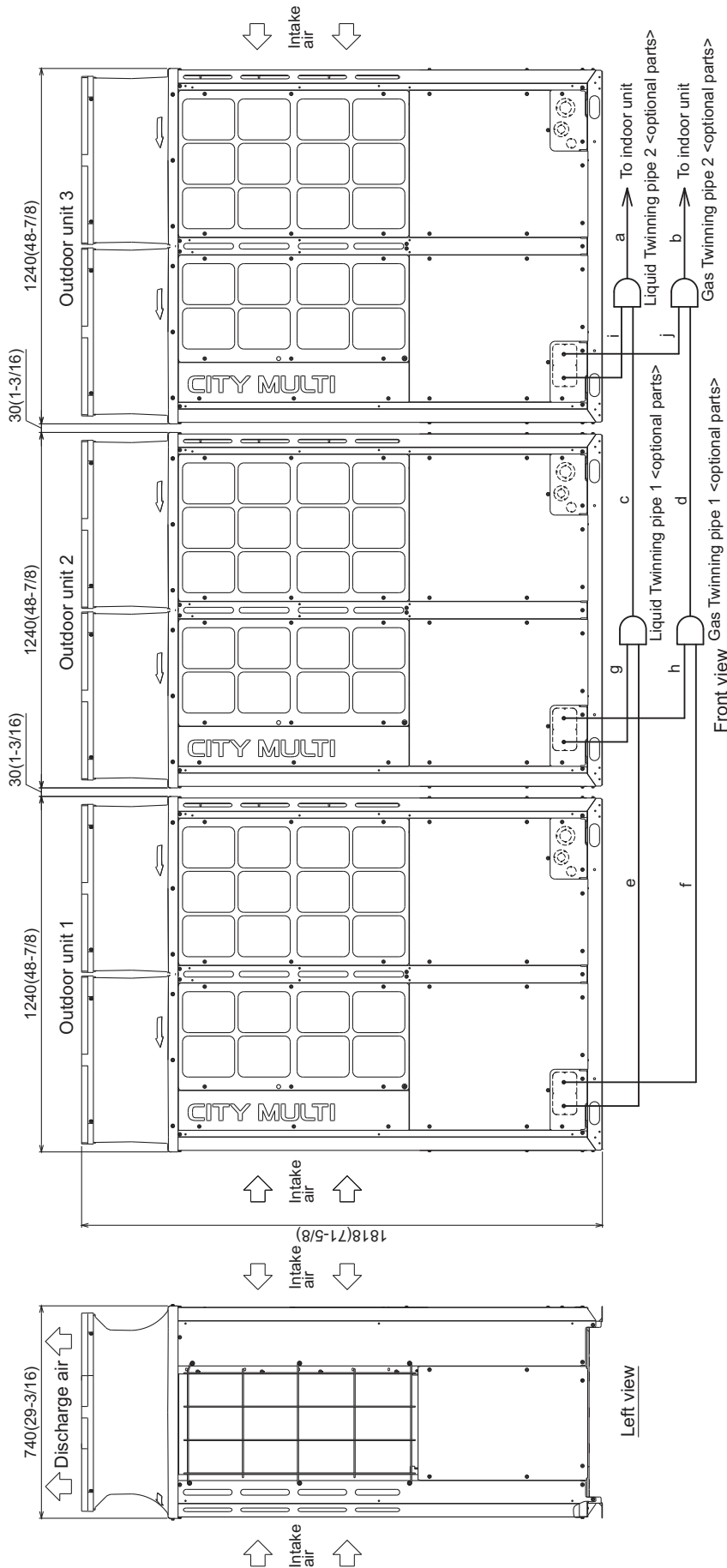
- Cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F DB / 67°F WB, (26.7°C DB / 19.4°C WB), Outdoor: 95°F DB, (35°C DB)
- Heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F DB, (21.1°C DB), Outdoor: 47°F DB / 43°F WB, (8.3°C DB / 6.1°C WB)
- Cooling mode/Heating mode
- 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-EP408TSNU-A-TH(-BS) - DIMENSIONS



Twinning pipe connection size

Package unit name	PUIH-EP367SNU-A-(BS)	PUIH-EP360TNU-A-(BS)	PUIH-EP384TNU-A-(BS)	PUIH-EP408TNU-A-(BS)	PUIH-EP432TNU-A-(BS)
Outdoor unit 1	PUIH-EP120TNU-A-(BS)	PUIH-EP120TNU-A-(BS)	PUIH-EP144TNU-A-(BS)	PUIH-EP144TNU-A-(BS)	PUIH-EP144TNU-A-(BS)
Component unit name	Outdoor unit 2	PUIH-EP120TNU-A-(BS)	PUIH-EP120TNU-A-(BS)	PUIH-EP144TNU-A-(BS)	PUIH-EP144TNU-A-(BS)
	Outdoor unit 3	PUIH-EP96TNU-A-(BS)	PUIH-EP120TNU-A-(BS)	PUIH-EP120TNU-A-(BS)	PUIH-EP144TNU-A-(BS)
Outdoor Twinning Kit(optional parts)			CMY-Y300CBK2		
Indoor unit-Twinning pipe 2	a		ø19.05(3/4)		
Gas	b		ø41.28(1-5/8)		
Liquid	c		ø19.05(3/4)		
Twinning pipe 1-Twinning pipe 2	d		ø34.93(1-3/8)		

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

1. Corroded and piped at significant angles above, below and above and below the horizontal plane.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

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

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

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

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

	Unit model	Liquid e or g or i	Gas f or h or j
Twinning pipe- Outdoor unit	EP96	ø9.52(3/8)	ø22.2(7/8)
	EP120	ø12.7(1/2)	ø28.58(1-1/8)
	FP144	ø12.7(1/2)	ø28.58(1-1/8)

Unit: mm (in.)

Specifications are subject to change without notice.

Module: PUHY-EP120_144NU-A-TH(-BS) - DIMENSIONS

Unit: mm (in.)

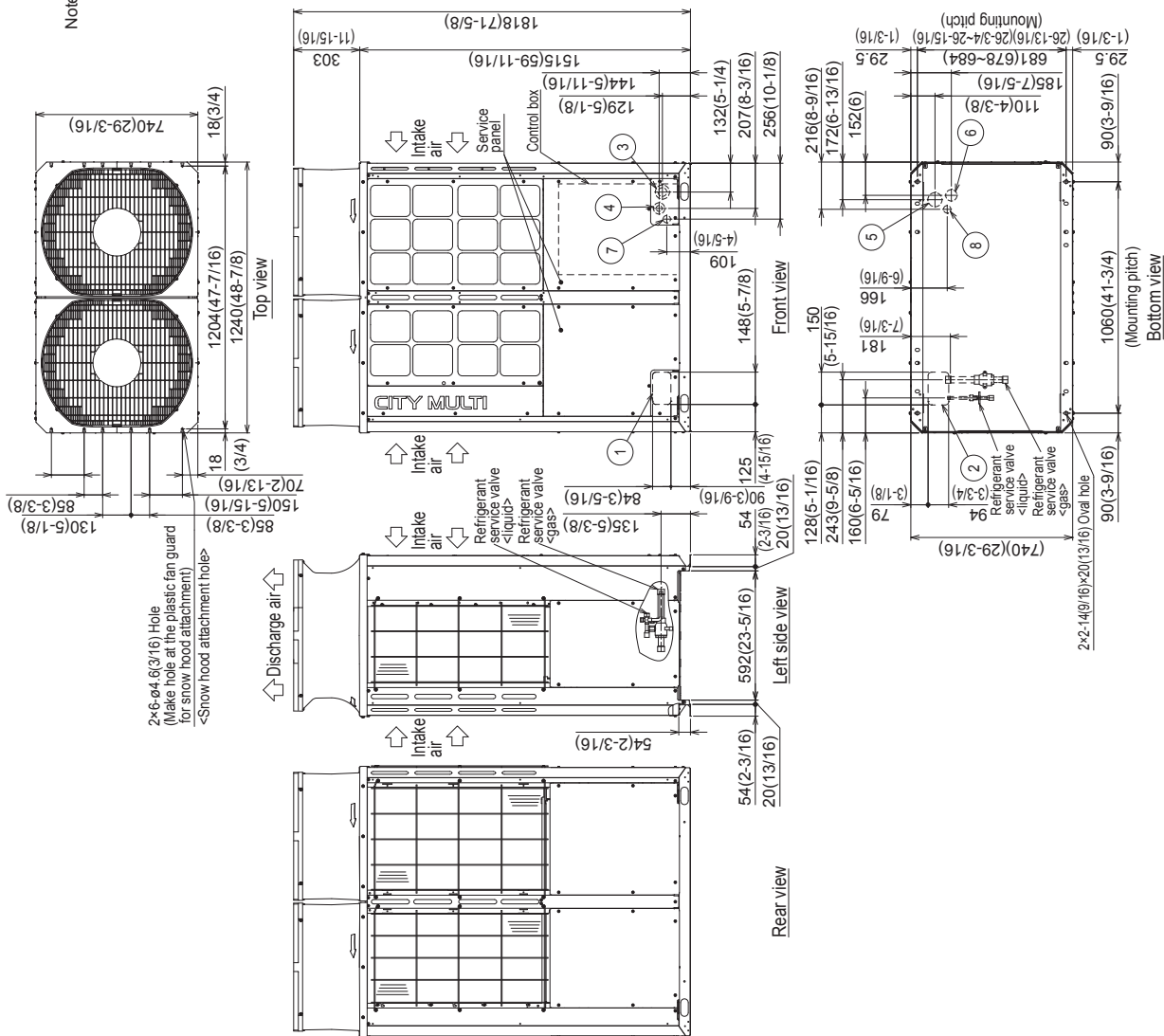
Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C (248°F).

Connecting pipe specifications

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

- *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		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	For wires	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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