

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P192TSNU-A1

Seacoast (BS) Model PUHY-P192TSNU-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) (x2)

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-P192TSNU-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	192,000				
			kW	56.3				
			Power input	14.29				
			(208-230) Current input	44.0-39.8				
			(Rated)	BTU/h	184,000			
				kW	53.9			
			Power input	16.97	16.93			
			(208-230) Current input	52.3-47.3	52.2-47.2			
			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	216,000	
						kW	63.3	
			Power input	15.95				
			(208-230) Current input	49.1-44.4				
			(Rated)	BTU/h	206,000			
				kW	60.4			
			Power input	14.43	14.83			
			(208-230) Current input	44.5-40.2	45.7-41.3			
			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~P96/1~48				
Sound power level (measured in anechoic room) *4				dB <A> 79.0/81.0				
Refrigerant piping diameter		Liquid pipe	in. (mm)	5/8 (15.88) Braze				
		Gas pipe	in. (mm)	1-1/8 (28.58) Braze				

Set Model

Model		PUHY-P96TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)
Minimum Circuit Ampacity (*)	A	40-36	40-36
Maximum Overcurrent Protection (*)	A	60-50	60-50
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6,700
		m3/min	190
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.46+0.46
Compressor	*5 External static press.	0 in.WG (0 Pa)	0 in.WG (0 Pa)
	Type x Quantity	Inverter scroll hermetic compressor x1	Inverter scroll hermetic compressor x1
	Starting method	Inverter	Inverter
	Motor output	kW	5.5 x 1
	Case heater	kW	0.035
External finish	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>
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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-current protection	Over-current protection
	Fan motor	-	-
Refrigerant	Type x original charge	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
	Control	LEV and HIC circuit	LEV and HIC circuit
Net weight	lbs (kg)	580 (263)	580 (263)
Heat exchanger	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper 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)	3/8 (9.52) Braze
	Gas pipe	in. (mm)	7/8 (22.2) Braze
Defrosting method	Auto-defrost mode (Reversed refrigerant cycle)		Auto-defrost mode (Reversed refrigerant cycle)
Optional parts	Outdoor Twinning kit: CMY-Y100CBK3		Outdoor Twinning kit: CMY-Y100CBK3
	Joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2		Joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-G2
	Header: CMY-Y104/108/1010C-G		Header: CMY-Y104/108/1010C-G

Notes:

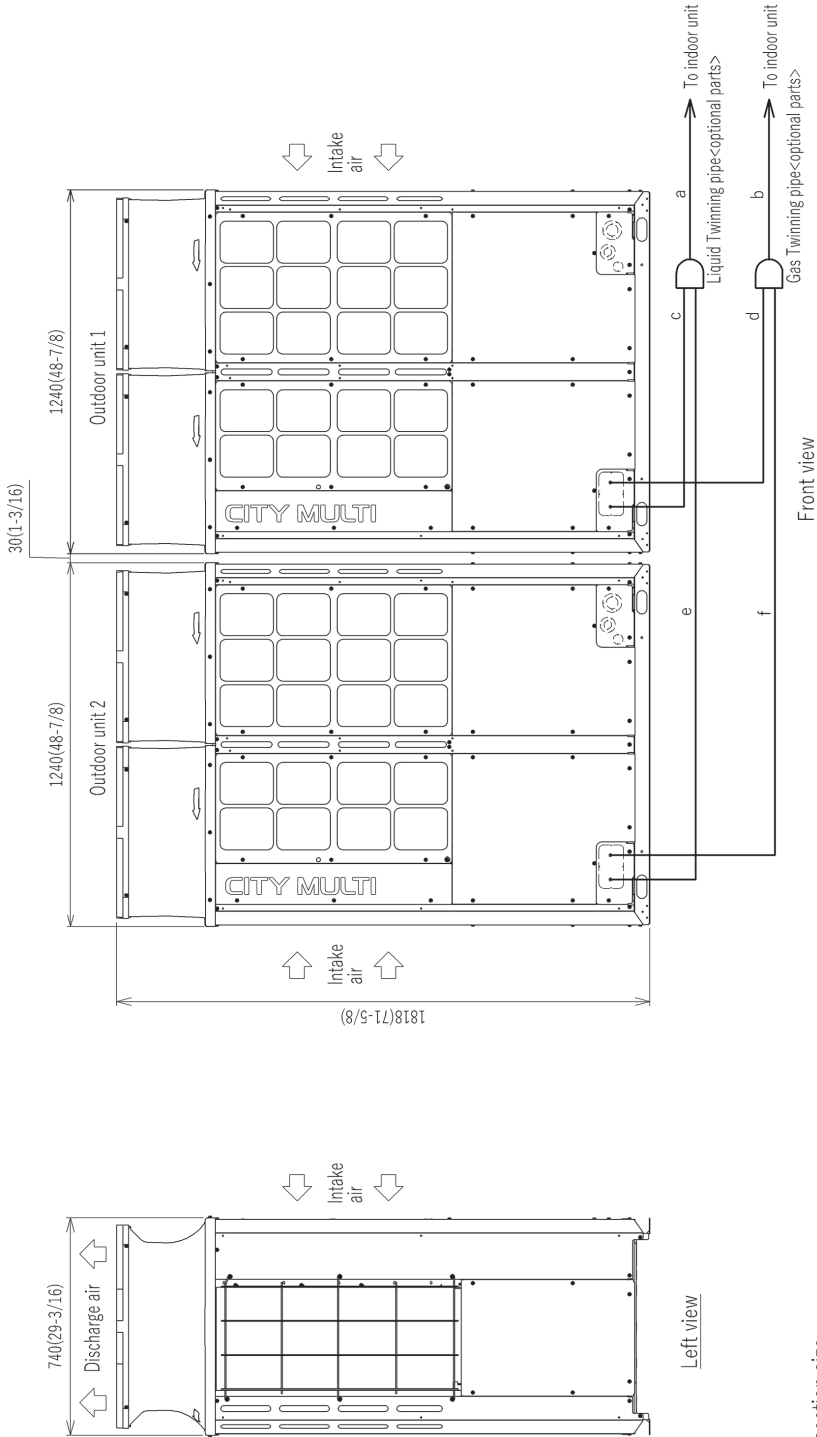
- 1.Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
 - 2.Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C 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.

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

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Module: PUHY-P192TSNU-A1(-BS) - DIMENSIONS



Twinning pipe connection size

Package unit name	(E)P192T/YSNU	P216T/YSNU	EP216T/YSNU	P240T/YSNU	EP240T/YSNU
Component unit name	Outdoor unit 1	P120T/YNU	EP120T/YNU	P120T/YNU	EP120T/YNU
Outdoor unit 2	(E)P96T/YNU	P96T/YNU	EP96T/YNU	P120T/YNU	EP120T/YNU
Outdoor Twinning Kit(optional parts)	CMY-Y100CBK3	CMY-Y100CBK3	CMY-Y100CBK2	CMY-Y100CBK3	CMY-Y300CBK2
Indoor unit					
~Twinning pipe	Liquid	a	φ 15.88(5/8)	φ 15.88(5/8)	φ 15.88(5/8)
	Gas	b	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 34.93(1-3/8)
Twinning pipe	Liquid	c	φ 9.52(3/8)	φ 12.7(1/2)	φ 12.7(1/2)
~Outdoor unit 1	Gas	d	φ 28.58(1-1/8)	φ 28.58(1-1/8)	φ 28.58(1-1/8)
Twinning pipe	Liquid	e	φ 9.52(3/8)	φ 9.52(3/8)	φ 12.7(1/2)
~Outdoor unit 2	Gas	f	φ 22.2(7/8)	φ 22.2(7/8)	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. Twinning pipes must be installed horizontally using a level vessel.

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: mm (in.)

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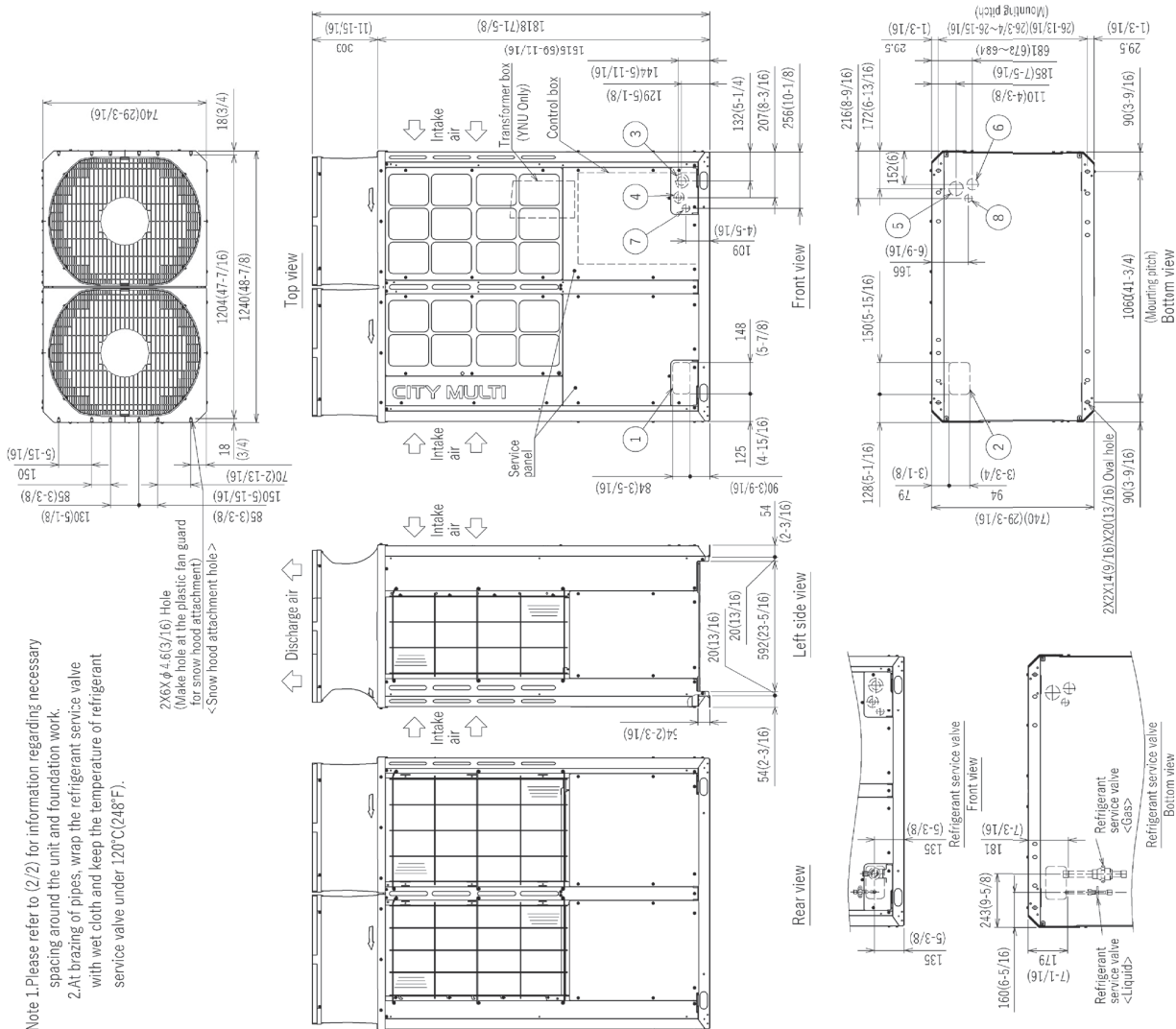
Unit: mm (in.)

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)	Brazed	φ 12.7(1/2)
(E)P96	φ 12.7(1/2)	φ 22.2(7/8)	Brazed	φ 12.7(1/2)
(E)P120	φ 9.52(3/8)	φ 28.58(1-1/8)	Brazed	φ 12.7(1/2)
(E)P120	φ 12.7(1/2)	φ 28.58(1-1/8)	Brazed	φ 12.7(1/2)
(E)P144	φ 12.7(1/2)	φ 28.58(1-1/8)	Brazed	φ 12.7(1/2)

- *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		Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole
③		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		Bottom through hole 165(6-9/16) Knockout hole
⑥		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		Bottom through hole 165(6-9/16) 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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