CITY MULTI® Model: PUHY-P216TSNU-A1(-BS)

Job Name:

Schedule Reference: | Date:

UNIT OPTION

- ☐ Standard Model PUHY-P216TSNU-A1
- ☐ Seacoast (BS) Model PUHY-P216TSNU-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 seperate 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.

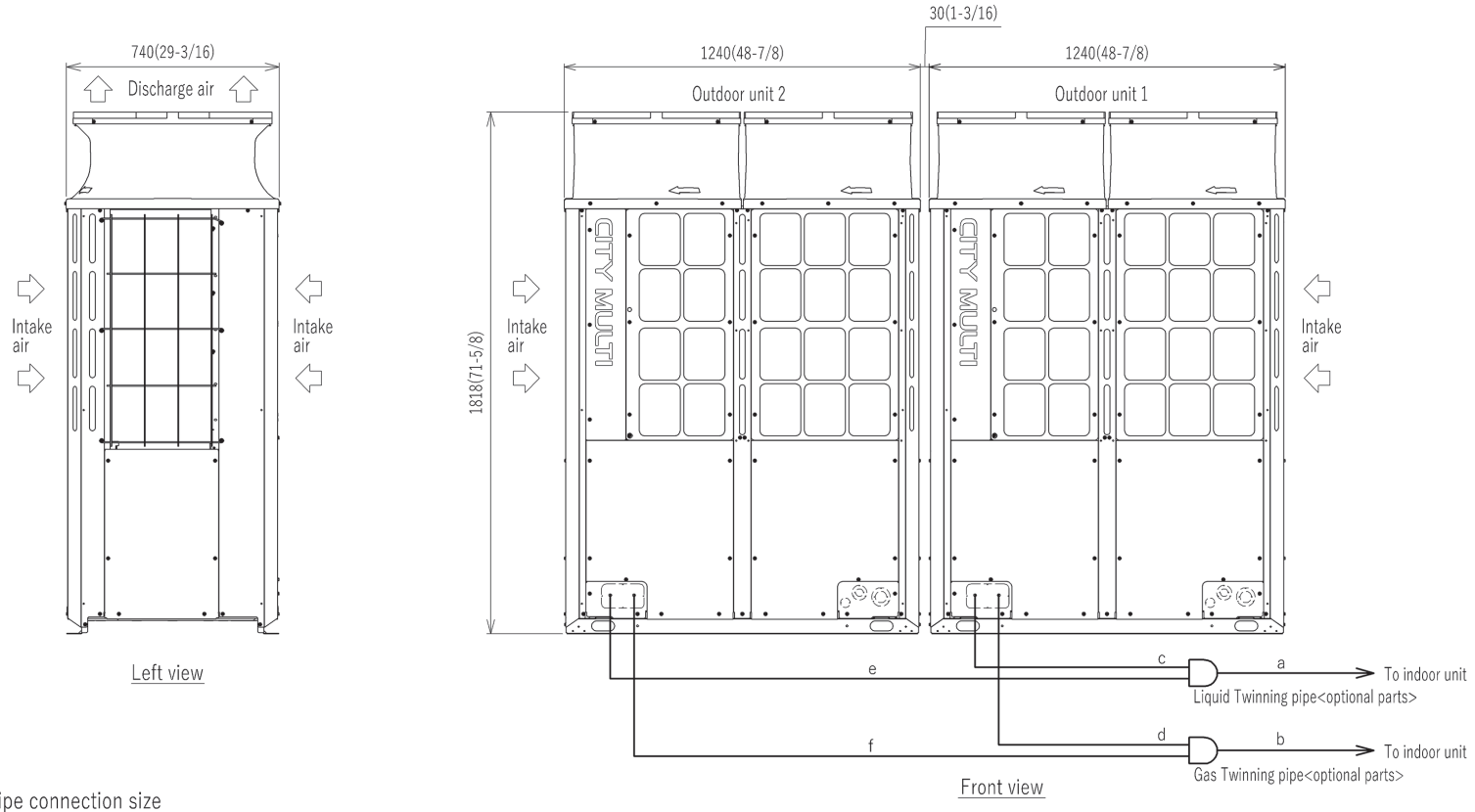
Outdoor Model				PUHY-P216TSNU-A1 (-BS)	
Indoor Model				Non-Ducted	Ducted
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal)			BTU/h	216,000	
			kW	63.3	
	(208-230)	Power input	kW	16.78	
		Current input	A	51.7-46.8	
	(Rated)		BTU/h	206,000	
			kW	60.4	
	(208-230)	Power input	kW	19.19	19.93
		Current input	A	59.1-53.5	61.4-55.5
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	243,000	
			kW	71.2	
	(208-230)	Power input	kW	18.63	
		Current input	A	57.4-51.9	
	(Rated)		BTU/h	232,000	
			kW	68.0	
	(208-230)	Power input	kW	16.82	17.36
		Current input	A	51.8-46.9	53.5-48.4
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~P96/2~50	
Sound power level (measured in anechoic room) *4			dB <A>	81.5/83.0	
Refrigerant piping diameter		Liquid pipe	in. (mm)	5/8 (15.88) Brazed	
		Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	

Set Model

Model			PUHY-P120TNU-A1 (-BS)	PUHY-P96TNU-A1 (-BS)
Minimum Circuit Ampacity (*)		A	50-46	40-36
Maximum Overcurrent Protection (*)		A	80-70	60-50
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,750	6,700
		m3/min	220	190
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.46+0.46	0.46+0.46
*5	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	7.7 x 1	5.5 x 1
	Case heater	kW	0.045	0.035
	Lubricant		MEL32	MEL32
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	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	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	
Net weight		lbs (kg)	605 (274)	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)	1/2 (12.7) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	7/8 (22.2) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 Joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G	

Notes:
1.Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)
2.Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.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.



Twinning pipe connection size

Package unit name			(E)P192T/YSNU	P216T/YSNU	EP216T/YSNU	P240T/YSNU	EP240T/YSNU
Component unit name	Outdoor unit 1		(E)P96T/YNU	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-Y300CBK2	CMY-Y100CBK3	CMY-Y300CBK2
Indoor unit ~Twinning pipe	Liquid	a	ϕ15.88(5/8)	ϕ15.88(5/8)	ϕ15.88(5/8)	ϕ15.88(5/8)	ϕ15.88(5/8)
	Gas	b	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)	ϕ34.93(1-3/8)	ϕ28.58(1-1/8)	ϕ34.93(1-3/8)
Twinning pipe ~Outdoor unit 1	Liquid	c	ϕ9.52(3/8)	ϕ12.7(1/2)	ϕ12.7(1/2)	ϕ12.7(1/2)	ϕ12.7(1/2)
	Gas	d	ϕ22.2(7/8)	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)
Twinning pipe ~Outdoor unit 2	Liquid	e	ϕ9.52(3/8)	ϕ9.52(3/8)	ϕ9.52(3/8)	ϕ12.7(1/2)	ϕ12.7(1/2)
	Gas	f	ϕ22.2(7/8)	ϕ22.2(7/8)	ϕ22.2(7/8)	ϕ28.58(1-1/8)	ϕ28.58(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.)

Module: PUHY-P96_120TSNU-A1(-BS) - DIMENSIONS

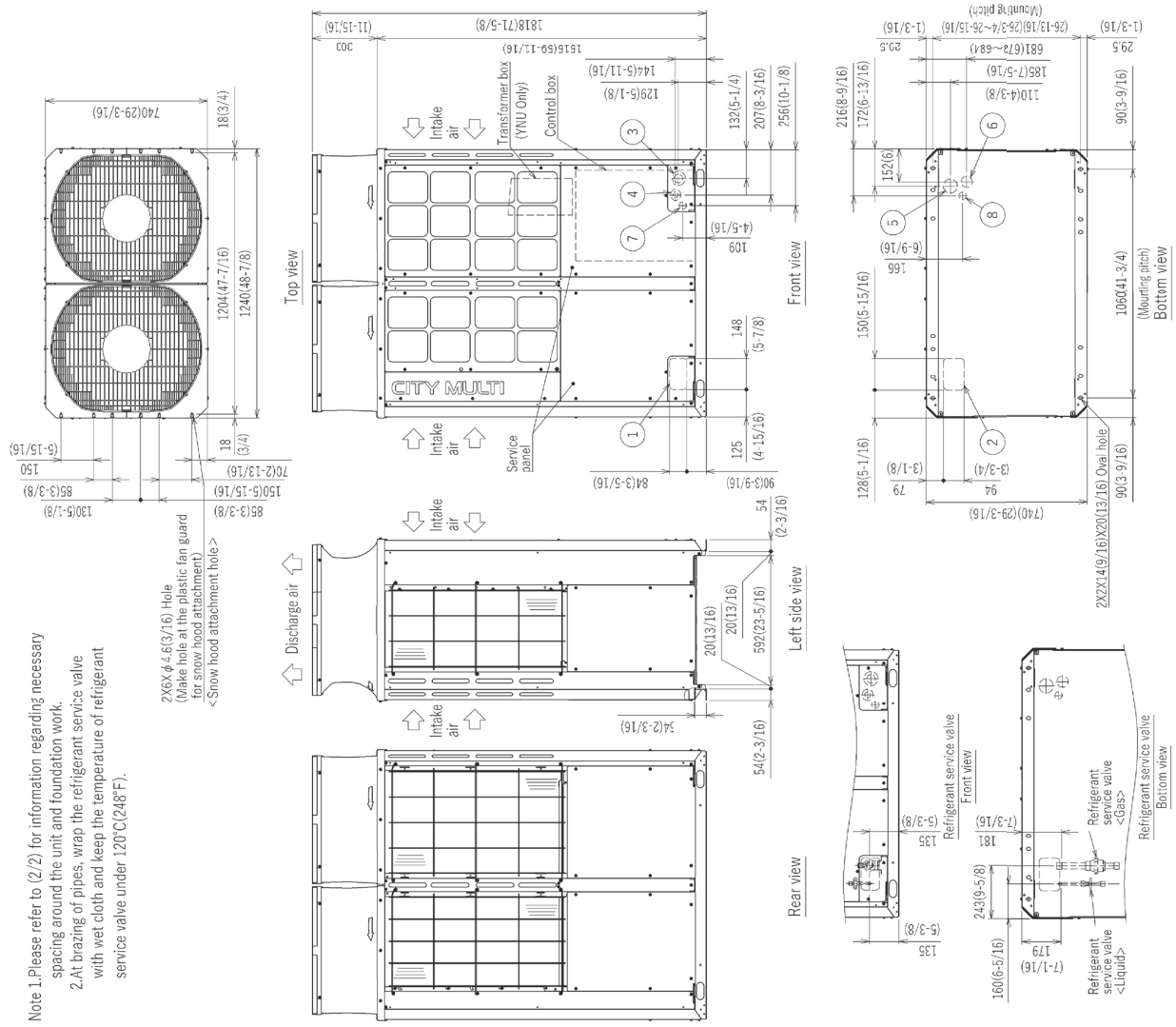
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
(E)P96	ϕ9.52(3/8) Brazed	ϕ22.2(7/8) Brazed	ϕ12.7(1/2)	ϕ28.58(1-1/8)
(E)P96	ϕ12.7(1/2) Brazed *3	ϕ22.2(7/8) Brazed	ϕ12.7(1/2)	ϕ28.58(1-1/8)
(E)P120	ϕ9.52(3/8) Brazed	ϕ28.58(1-1/8) Brazed	ϕ12.7(1/2)	ϕ28.58(1-1/8)
(E)P120	ϕ12.7(1/2) Brazed *2,4	ϕ28.58(1-1/8) Brazed	ϕ12.7(1/2)	ϕ28.58(1-1/8)
(E)P144	ϕ12.7(1/2) Brazed	ϕ28.58(1-1/8) Brazed	ϕ12.7(1/2)	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 n 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	For wires	Front through hole	ϕ62.7(2-1/2) or ϕ34.5(1-3/8) Knockout hole
④		Front through hole	ϕ43.7(1-3/4) or ϕ22.2(7/8) Knockout hole
⑤		Bottom through hole	ϕ65(2-9/16) Knockout hole
⑥		Bottom through hole	ϕ52(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole	ϕ34(1-3/8) Knockout hole
⑧		Bottom through hole	ϕ34(1-3/8) 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).

MITSUBISHI ELECTRIC
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