

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P432TSNU-A-TH

Seacoast (BS) Model PUHY-P432TSNU-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-P432TSNU-A (-BS)			
Indoor Model				Non-Ducted		Ducted	
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity *1 (Nominal)			BTU/h	432,000			
			kW	126.6			
(208-230)	Power input	kW	38.31				
	Current input	A	118.1-106.8				
(Rated)	BTU/h	410,000					
	kW	120.2					
(208-230)	Power input	kW	44.00	40.62			
	Current input	A	135.7-122.7	125.2-113.2			
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	480,000			
			kW	140.7			
(208-230)	Power input	kW	41.66				
	Current input	A	128.4-116.1				
(Rated)	BTU/h	455,000					
	kW	133.4					
(208-230)	Power input	kW	39.35	37.55			
	Current input	A	121.3-109.7	115.8-104.7			
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~P96/3~50			
Sound power level (measured in anechoic room) *4			dB <A>	88.0/89.0			
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-P144TNU-A (-BS)	PUHY-P144TNU-A (-BS)	PUHY-P144TNU-A (-BS)
Minimum Circuit Ampacity (*)		A	60-55	60-55
Maximum Overcurrent Protection (*)		A	100-90	100-90
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	9,200	9,200
		m3/min	260	260
	Control, Driving mechanism	Inverter-control, Brushless DC motor	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)	0 in.WG (0 Pa)
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method	Inverter	Inverter	Inverter
	Motor output	kW	9.6 x 1	9.6 x 1
	Case heater	kW	-	-
	Lubricant	MEL32	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>	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)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-current protection	Over-current protection	Over-current protection
	Fan motor	-	-	-
Refrigerant	Type x original charge	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
	Control	LEV and HIC circuit	LEV and HIC circuit	LEV and HIC circuit
Net weight		lbs (kg)	649 (294)	649 (294)
Heat exchanger		Salt-resistant cross fin & copper tube	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	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:

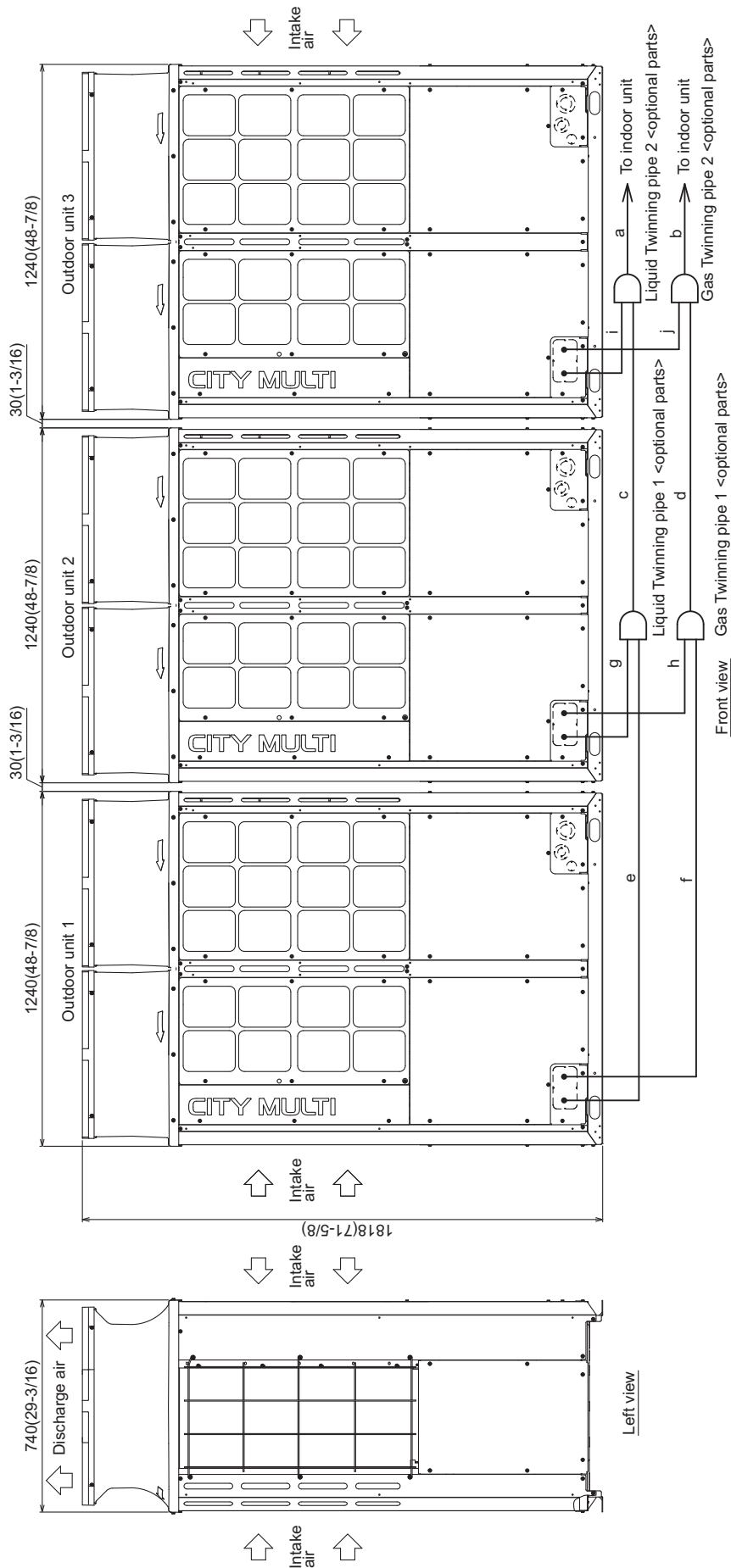
- Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
- Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C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

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Module: PUHY-P432TSNU-A-TH(-BS) - DIMENSIONS



Twinning pipe connection size

Package unit name		PUHY-P336T(SNU-A)-(BS)	PUHY-P360T(SNU-A)-(BS)	PUHY-P384T(SNU-A)-(BS)	PUHY-P408T(SNU-A)-(BS)	PUHY-P432T(SNU-A)-(BS)
Component unit name	Outdoor unit 1	PUHY-P120TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P144TNU-A-(BS)	PUHY-P144TNU-A-(BS)
	Outdoor unit 2	PUHY-P120TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P144TNU-A-(BS)	PUHY-P144TNU-A-(BS)
	Outdoor unit 3	PUHY-P96TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P120TNU-A-(BS)	PUHY-P144TNU-A-(BS)
Outdoor Twinning Kit(optional parts)		CMY-Y300CGBK2				
Indoor unit~ Twinning pipe 2	Liquid	ø19.05(3/4)				
	Gas	ø41.28(1-5/8)				
Twinning pipe 1~Twinning pipe 2	Liquid	ø19.05(3/4)				
	Gas	ø34.93(1-3/8)				
	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.

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
P96	ø9.52(3/8)	ø2.27(1/8)
P120	ø12.7(1/2)	ø2.858(1-1/8)
P144	ø12.7(1/2)	ø2.858(1-1/8)

Unit: mm (in.)

Specifications are subject to change without notice.

Module: PUHY-P144TNU-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
P96	ø5.52(3/8) Brazed [ø12.7(1/2) Brazed]*1,3	Gas	Liquid
P120	ø5.52(3/8) Brazed [ø12.7(1/2) Brazed]*1,2,4	Gas	Liquid
P144	ø12.7(1/2) Brazed	Gas	Liquid

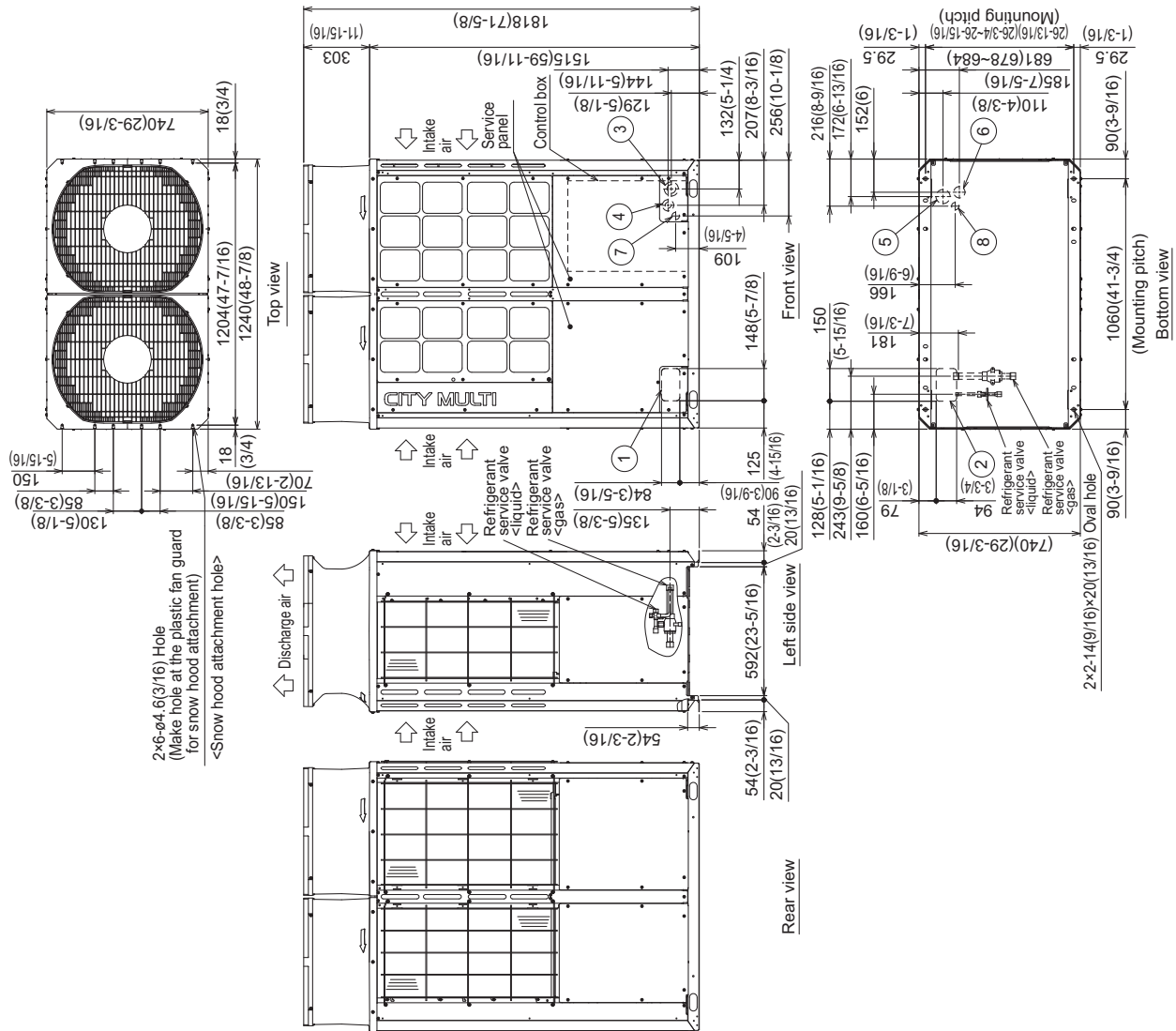
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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		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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