

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PURY-P312TSNU-A1

Seacoast (BS) Model PURY-P312TSNU-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.

System requires firmware Ver. 26.35 or later.

ACCESSORIES

Snow/Wind Guards - (See separate submittal)

Panel Heater - (PAC-PH02EHYU-E) (x1) Panel

Heater - (PAC-PH03EHYU-E(1)) (x1)

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.

Notes:

1. Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F DB, 67°F WB, 26.7" CD B, 19.4" CW B, Outdoor: 95°F DB, (35" CD B.)
 2. Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F DB, 21.1" CD B, Outdoor: 47°F DB, 43°F WB, (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.

Outdoor Model				PURY-P312TSNU-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	312,000						
			kW	91.4						
			Power input	kW	29.8					
			(208-230) Current input	A	91.9-83.1					
(Rated)			BTU/h	298,000						
			kW	87.3						
			Power input	kW	31.42		31.71			
			(208-230) Current input	A	96.9-87.6		97.7-88.4			
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	350,000						
			kW	102.6						
			Power input	kW	30.75					
			(208-230) Current input	A	94.8-85.7					
			(Rated)			BTU/h	334,000			
						kW	97.9			
(208-230)			Power input	kW	28.50		28.10			
			Current input	A	87.8-79.4		86.6-78.3			
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			Total capacity		50~150% of outdoor unit capacity					
connectable			Model/Quantity		P04~P96/2~50					
Sound power level (measured in anechoic room) *4			dB <A>	87.0/88.5						
Refrigerant		High pressure	in. (mm)	1-1/8 (28.58) Brazed						
piping diameter		Low pressure	in. (mm)	1-5/8 (41.28) Brazed						

Set Model

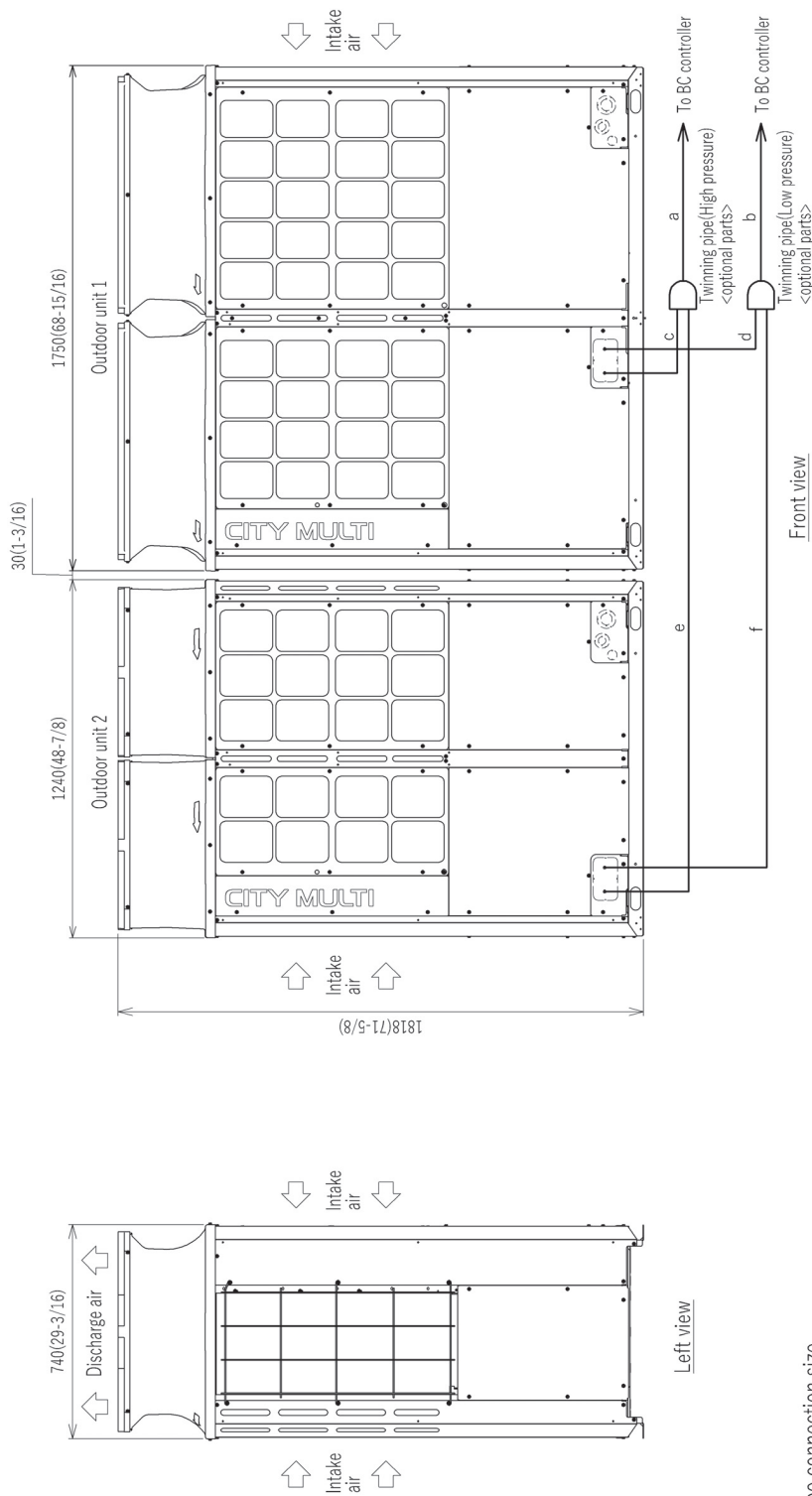
Model			PURY-P168TNU-A1 (-BS)	PURY-P144TNU-A1 (-BS)
Minimum Circuit Ampacity (*)		A	66-64	60-55
Maximum Overcurrent Protection (*)		A	110-100	100-90
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	14,850	9,550
		m3/min	420	270
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92+0.92	0.46+0.46
	*S 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	12.2	9.9
	Case heater	kW	0.045	0.045
	Lubricant		MEL32	MEL32
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>
External dimension H x W x D		in.	71-5/8 x 68-15/16 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16
		mm	1,818 x 1,750 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-heat protection, Over-current protection	Over-heat 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)
	Control		Indoor LEV and BC controller	
Net weight		lbs (kg)	739 (335)	646 (293)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts	Outdoor Twinning kit: CMY-R300NCBK			
	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1			
	CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1			
	Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2			
	Sub BC controller: CMB-P104,108NU-KB2			

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

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Module: PURY-P312TSNU-A1(-BS) - DIMENSIONS

Unit: mm (in.)



Twining pipe connection size

Package unit name	(E)P312T/YSNU
Component unit name	(E)P168T/YSNU
Outdoor unit 1	(E)P144T/YSNU
Outdoor unit 2	CMY-R300NCBK
BC controller	CMY-R300NCBK
~Twining pipe	High pressure a ϕ 28.58 (1-1/8)
~Twining pipe	Low pressure b ϕ 41.28 (1-5/8)
Twining pipe	High pressure c ϕ 22.2 (7/8)
~Outdoor unit 1	Low pressure d ϕ 28.58 (1-1/8)
Twining pipe	High pressure e ϕ 22.2 (7/8)
~Outdoor unit 2	Low pressure f 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" 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 Twining pipe).
4. Only use the Twining pipe by Mitsubishi (optional parts).

Module: PURY-P144TNU-A1 - DIMENSIONS

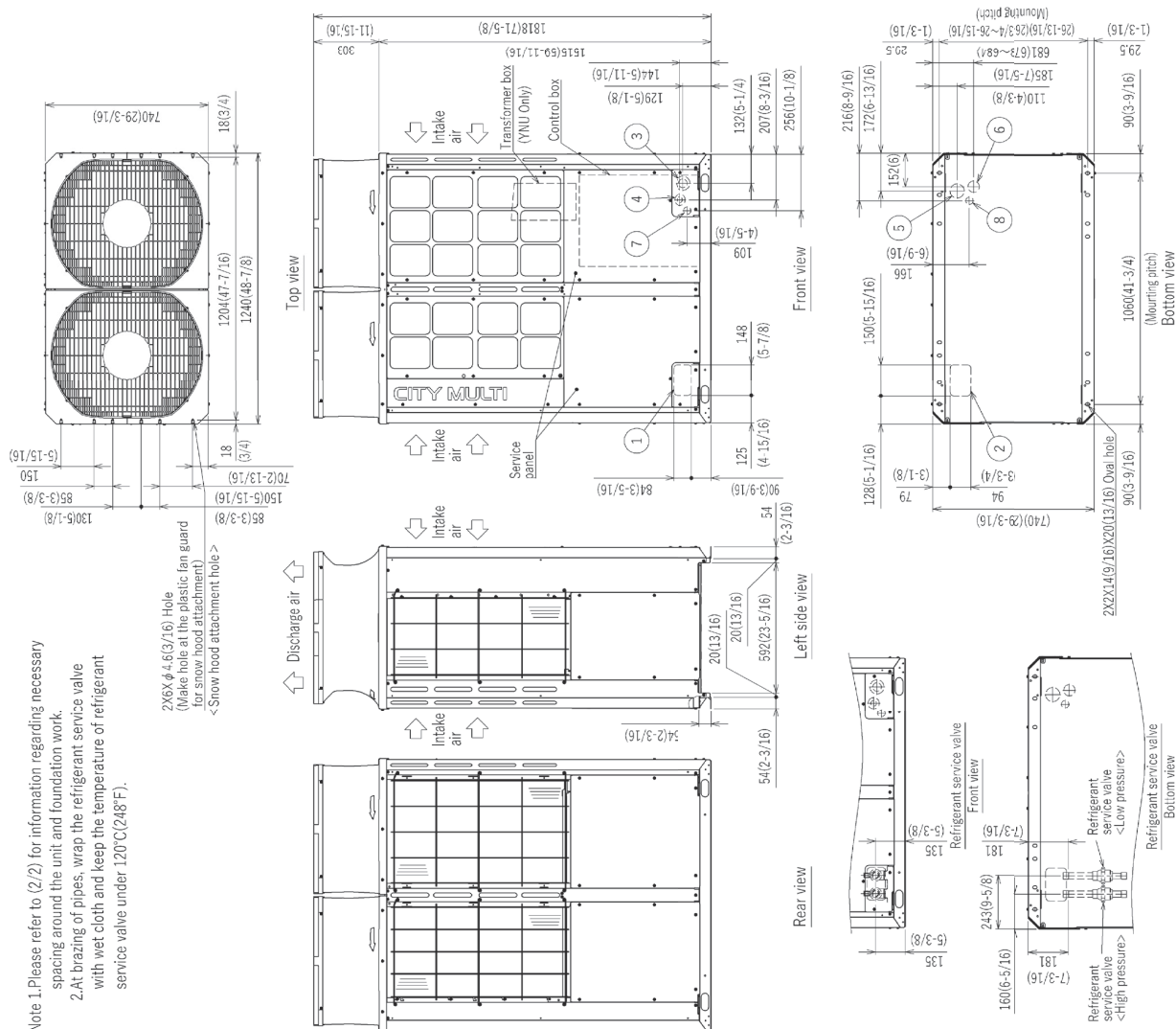
Connecting pipe specifications

Model	Refrigerant pipe *1		Diameter
	High pressure	Low pressure	
(E)P96	φ 19.05(3/4)	Brazed φ 22.7(7/8)	Service valve High pressure φ 28.58(1-1/8)
(E)P100	φ 19.05(3/4)	Brazed φ 28.38(1-1/8)	Low pressure φ 28.58(1-1/8)
(E)P120	φ 22.7(7/8)	Brazed φ 28.38(1-1/8)	Service valve High pressure φ 28.58(1-1/8)
(E)P140	φ 22.7(7/8)	Brazed φ 28.38(1-1/8)	Low pressure φ 28.58(1-1/8)

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

No.	Usage	Specifications
①	Front trough hole	148(5-7/8) X 84(5-5/16) Knockout hole
②	For pipes	Bottom trough hole 150(5-15/16) X 94(3-3/4) Knockout hole
③		Front trough hole 162(2-1/2) or 43(5-1/3) Knockout hole
④	Front trough hole	43(7-1/3-4) or 42(2-7/8) Knockout hole
⑤	For wires	Bottom trough hole 85(2-9/16) Knockout hole
⑥		Bottom trough hole 52(2-1/16) Knockout hole
⑦	For transmission	Front trough hole 34(1-3/8) Knockout hole
⑧	Front trough hole	43(4-1/8-3/8) Knockout hole

Unit: mm (in.)



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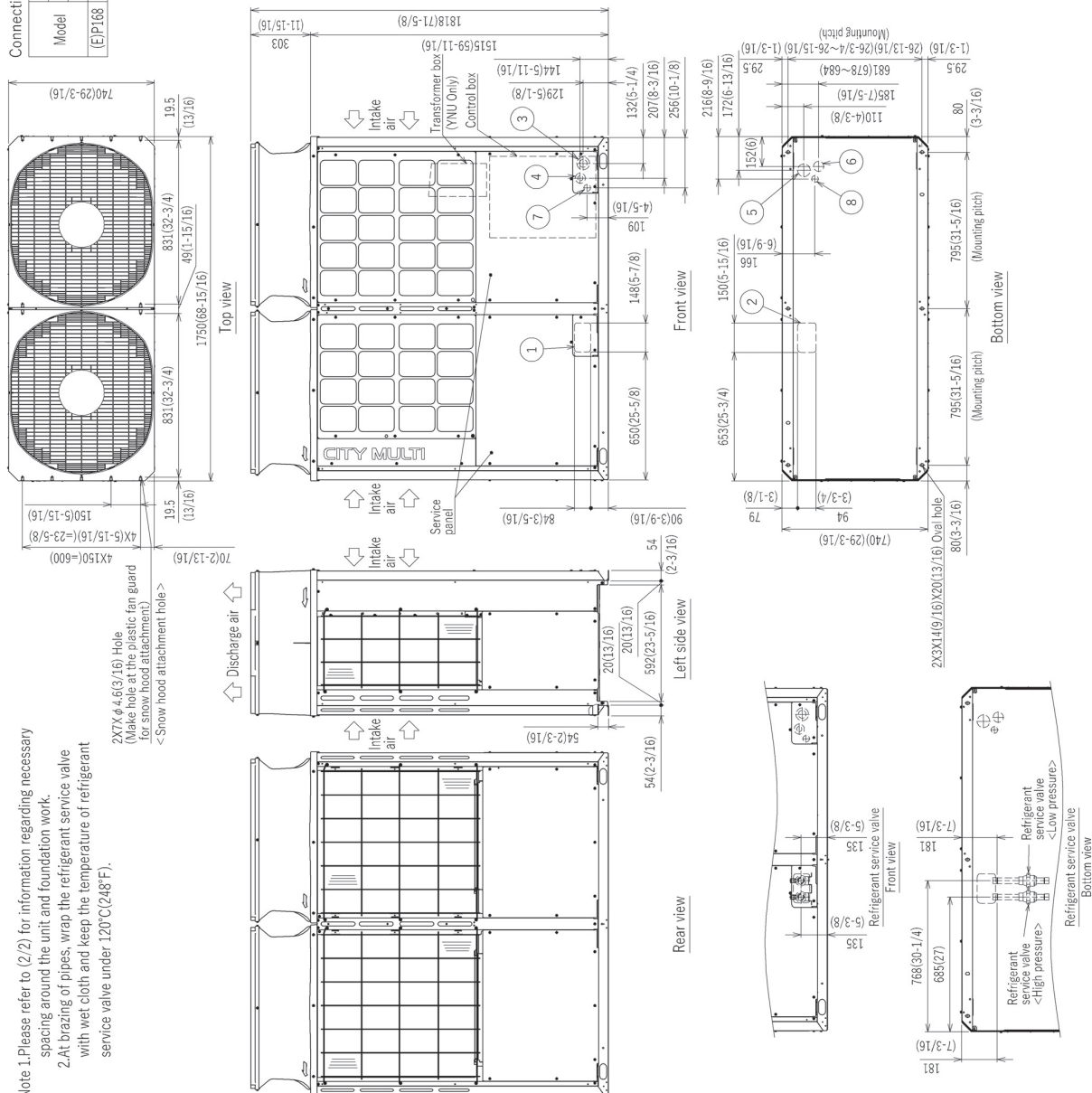
Specifications are subject to change without notice.

Unit: mm (in.)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
(EP)68	φ 22.2(7/8)	φ 28.5(1-1/8) Braze	φ 28.5(1-1/8)	φ 28.5(1-1/8)

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



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