

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PURY-EP312TSNU-A1

Seacoast (BS) Model PURY-EP312TSNU-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, 19.4" CW/B, (35" CD, 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., 8.3" CW/B, (8.3" CD, B.)
Outdoor: 47°F DB, 43°F WB, (8.3" CD, 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-EP312TSNU-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	27.98	
	(208-230)	Current input	86.2-78.0	
		BTU/h	298,000	
		kW	87.3	
	(208-230)	Power input	30.80	30.68
		Current input	94.9-85.9	94.6-85.5
		BTU/h	350,000	
		kW	102.6	
Heating capacity *2 (Nominal)		BTU/h	350,000	
		kW	102.6	
		Power input	30.53	
	(208-230)	Current input	94.1-85.1	
		BTU/h	334,000	
		kW	97.9	
	(208-230)	Power input	28.35	27.78
		Current input	87.4-79.0	85.6-77.4
		BTU/h	350,000	
		kW	102.6	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~126°F (-5~52°C)	
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		50~150% of outdoor unit capacity	
	Model/Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room) *3			dB <A>	87.0/88.5
Refrigerant piping diameter	High pressure	in. (mm)	1-1/8 (28.58) Braze	
	Low pressure	in. (mm)	1-5/8 (41.28) Braze	

Set Model

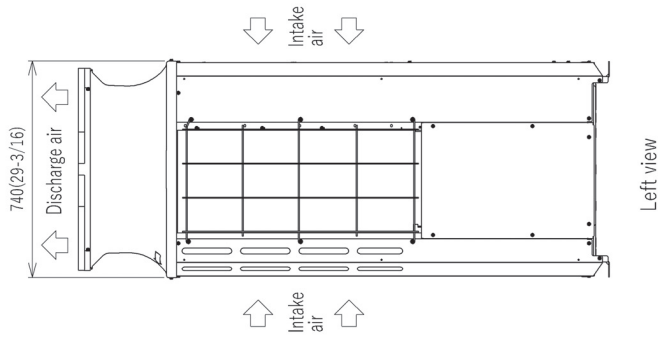
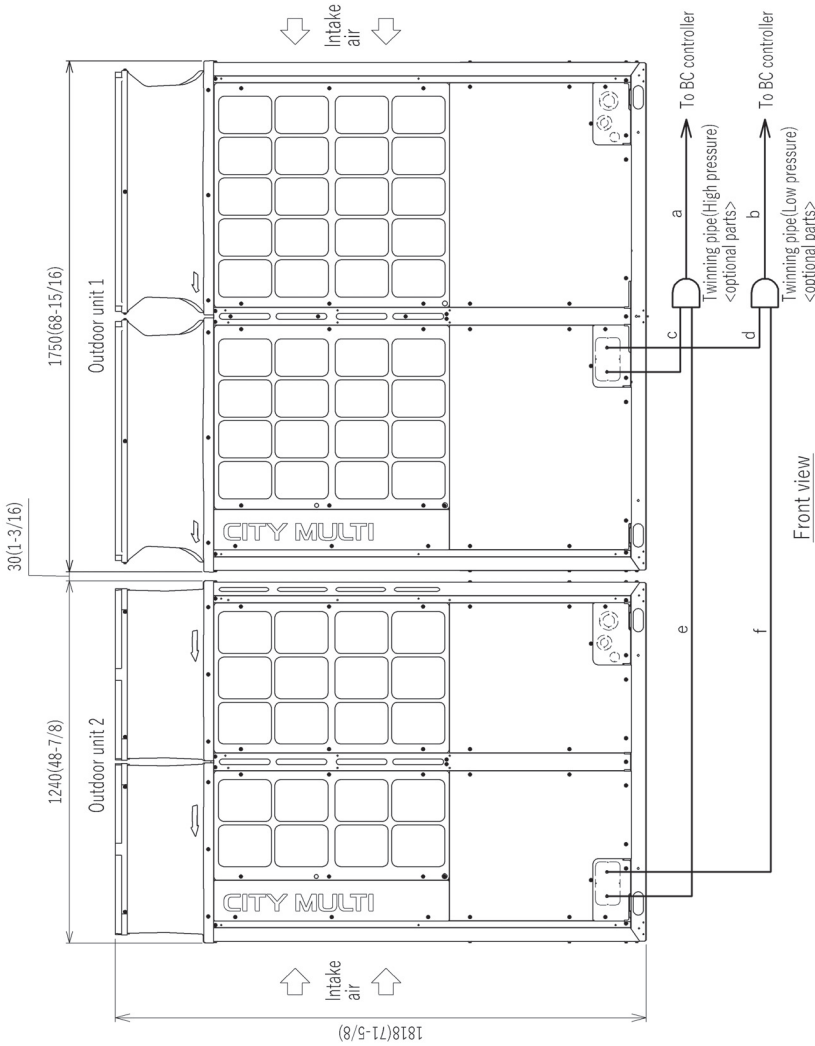
Model		PURY-EP168TNU-A1 (-BS)	PURY-EP144TNU-A1 (-BS)
Minimum Circuit Ampacity (*)		70-70	60-60
Maximum Overcurrent Protection (*)		110-110	100-100
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	9,550
		m³/min	270
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.46±0.46
	*4 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	9.8
	Case heater	kW	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. mm	71-5/8 x 68-15/16 x 29-3/16 1,818 x 1,750 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 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)	777 (352)
Heat exchanger		Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
HIC circuit (HIC: Heat Inter-Change)		-	-
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Braze
	Low pressure	in. (mm)	1-1/8 (28.58) Braze
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, 306S-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-EP312TSNU-A1(-BS) - DIMENSIONS

Unit: mm (in.)



Twinning pipe connection size

Package unit name	(E)P312T/YSNU
Component unit name	(E)P168T/YNNU
Outdoor unit 1	Outdoor unit 2
(E)P144T/YNNU	CMY-R300NCBK
Outdoor Twinning Kit(optional parts)	CMY-R300NCBK
BC controller	~Twinning pipe
High pressure a	Low pressure b
Low pressure c	High pressure d
~Outdoor unit 1	~Outdoor unit 2
High pressure e	Low pressure f
Low pressure	High pressure
~Outdoor unit 1	~Outdoor unit 2
High pressure	Low pressure
~Outdoor unit 1	~Outdoor unit 2
High pressure	Low pressure
~Outdoor unit 1	~Outdoor unit 2

- 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).

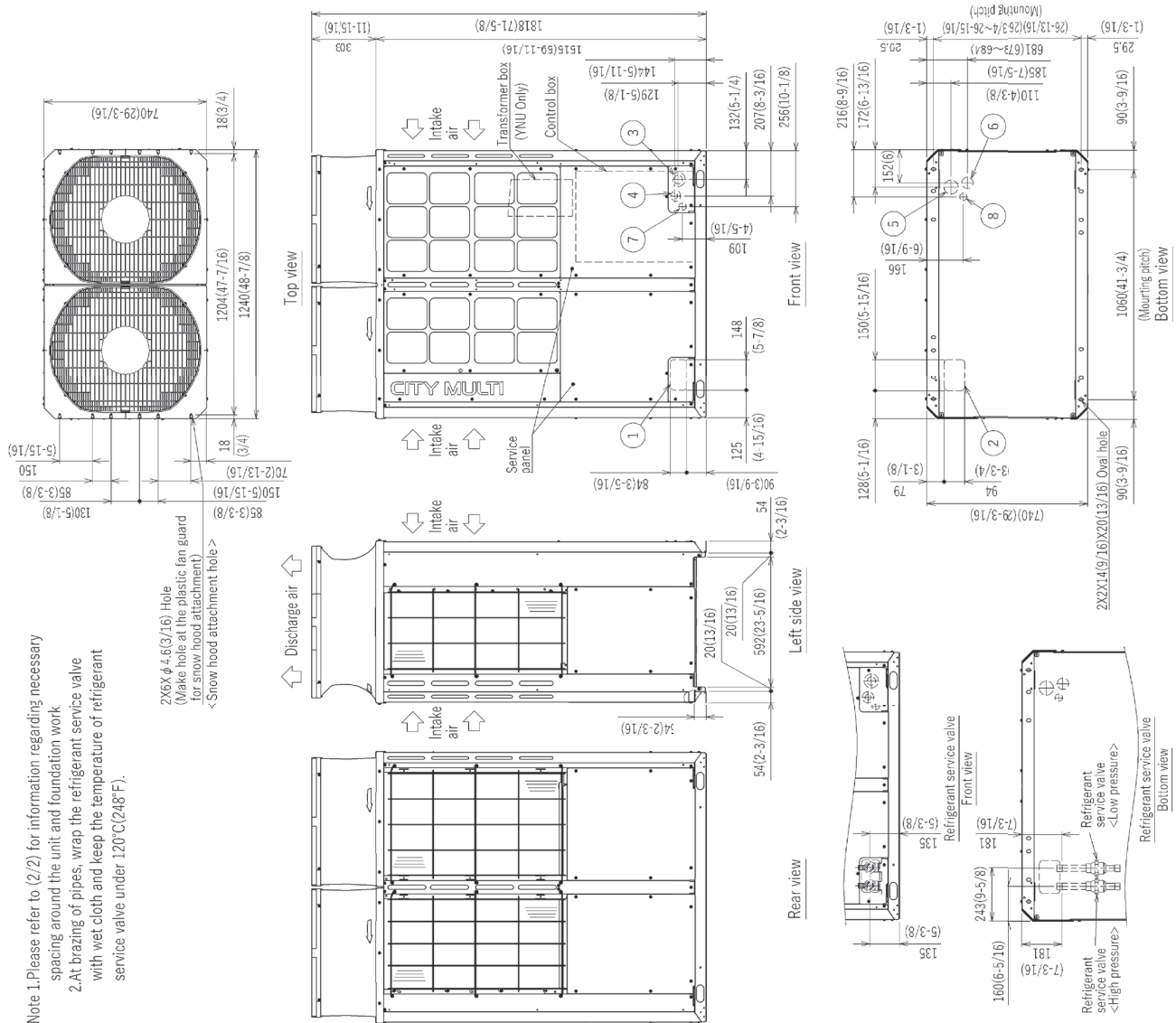
Module: PURY-EP144TNU-A1 - DIMENSIONS

Connecting pipe specifications

Model	Refrigerant pipe "1		Diameter
	High pressure	Low pressure	
(EP)96	φ 19.05(3/4)	Brazed	Service valve High pressure Low pressure φ 28.58(1-1/8) φ 28.58(1-1/8) φ 28.58(1-1/8) φ 28.58(1-1/8) φ 28.58(1-1/8) φ 28.58(1-1/8) φ 28.58(1-1/8) φ 28.58(1-1/8)
(EP)20	φ 19.05(3/4)	Brazed	
(EP)44	φ 22.27(7/8)	Brazed	
(EP)44	φ 22.27(7/8)	Brazed	

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

NO.	Usage	Specifications
①	Front through hole	148(5-7/8) x 84(3-5/16) Knockout hole
②	For pipes	Bottom through hole x 94(3-3/4) Knockout hole
③	Front through hole	150(5-15/16) x 94(3-3/4) Knockout hole
④	Front through hole	φ 34.5(1-1/2) or φ 34.5(1-3/8) Knockout hole
⑤	For wires	Front through hole φ 43(1-3/4) or φ 22.2(7/8) Knockout hole
⑥	Bottom through hole	φ 45(2-1/16) Knockout hole
⑦	Bottom through hole	φ 52(2-1/16) Knockout hole
⑧	For transmission	Front through hole φ 34(1-3/8) Knockout hole
⑨	Bottom through hole	φ 34(1-3/8) Knockout hole



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Unit: mm (in.)

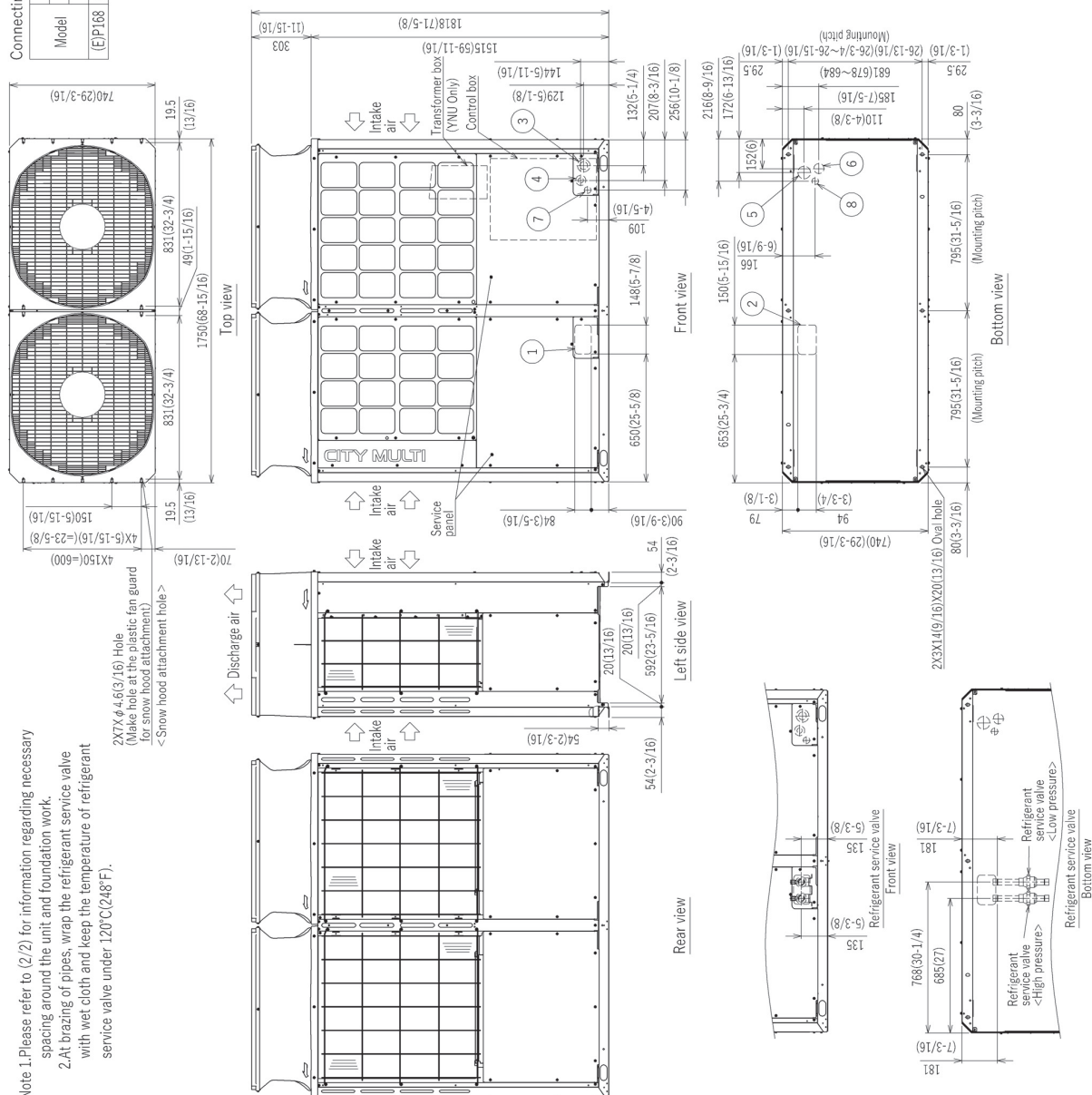
Module: PURY-EP168TNU-A1(-BS) - DIMENSIONS

Unit: mm (in.)

Connecting pipe specifications

Model	Refrigerant pipe *1		Diameter
	High pressure	Low pressure	
(E)P168	φ22.7(7/8) Braze	φ28.58(1-1/8) Braze	Service valve High pressure Low pressure φ28.58(1-1/8) φ28.58(1-1/8)

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



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).

2X7X4.6(3/16) Hole
(Make hole at the plastic fan guard
for snow hood attachment)
<Snow hood attachment hole>

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 φ62.7(2-1/2) or φ34.5(1-3/8) Knockout hole
④		Front through hole φ43.7(1-3/4) or φ22.7(7/8) Knockout hole
⑤	For wires	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

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