CITY MULTI® Model: PURY-EP264TSNU-A1(-BS)

Job Name:

Schedule Reference: | Date:

UNIT OPTION

- ☐ Standard Model PURY-EP264TSNU-A1
- ☐ Seacoast (BS) Model PURY-EP264TSNU-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-E1) (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				PURY-EP264TSNU-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	264,000	
			kW	77.4	
	(208-230)	Power input	kW	21.86	
		Current input	A	67.4-60.9	
	(Rated)		BTU/h	252,000	
			kW	73.9	
	(208-230)	Power input	kW	25.30	25.43
		Current input	A	78.0-70.5	78.4-70.9
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	295,000	
			kW	86.5	
	(208-230)	Power input	kW	24.56	
		Current input	A	75.7-68.5	
	(Rated)		BTU/h	280,000	
			kW	82.1	
	(208-230)	Power input	kW	22.65	22.30
		Current input	A	69.8-63.1	68.7-62.1
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>	87.0/87.0	
Refrigerant piping diameter		High pressure	in. (mm)	1-1/8 (28.58) Brazed	
		Low pressure	in. (mm)	1-3/8 (34.93) Brazed	

Set Model

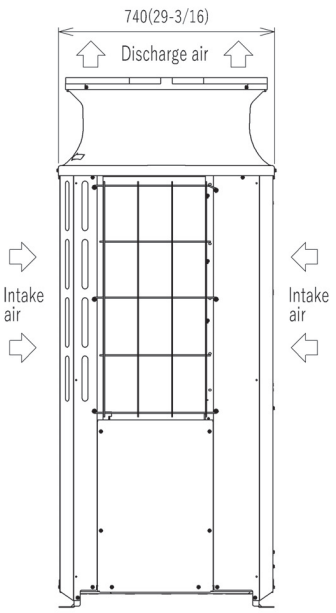
Model			PURY-EP144TNU-A1 (-BS)	PURY-EP120TNU-A1 (-BS)
Minimum Circuit Ampacity (*)		A	60-60	56-55
Maximum Overcurrent Protection (*)		A	100-100	90-90
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	9,550	8,300
		m^3/min	270	235
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.46+0.46	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	7.6
	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 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 23 lbs + 12 oz (10.8 kg)	R410A x 17 lbs + 10 oz (8.0 kg)
	Control		Indoor LEV and BC controller	
Net weight		lbs (kg)	680 (308)	622 (282)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	in. (mm)	7/8 (22.2) Brazed	3/4 (19.05) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
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	

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.Cooling mode/Heating mode
4.The sound pressure level measured by the conventional method in JIS for reference purpose.
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).

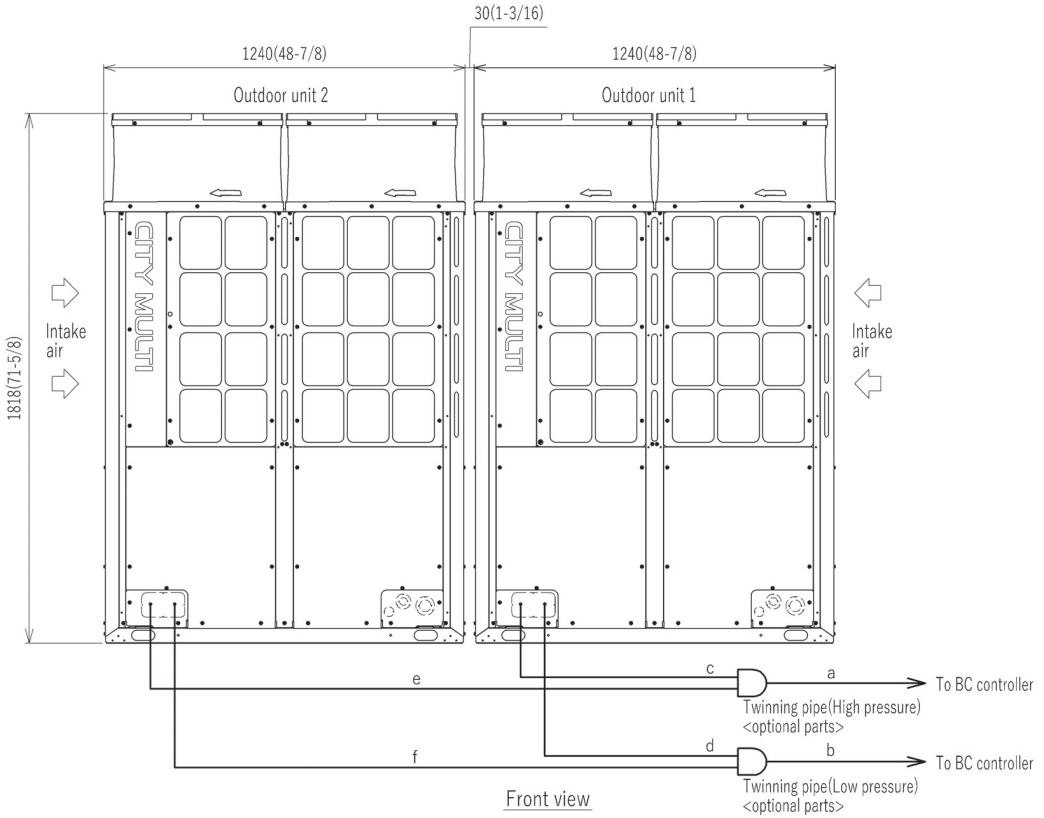
Specifications are subject to change without notice.

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

Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.



Left view



Front view

Twinning pipe connection size

Package unit name			(E)P192T/YSNU	P216T/YSNU	EP216T/YSNU	(E)P240T/YSNU	(E)P264T/YSNU	(E)P288T/YSNU
Component unit name	Outdoor unit 1		(E)P96T/YNU	P120T/YNU	EP120T/YNU	(E)P120T/YNU	(E)P144T/YNU	(E)P144T/YNU
	Outdoor unit 2		(E)P96T/YNU	P96T/YNU	EP96T/YNU	(E)P120T/YNU	(E)P120T/YNU	(E)P144T/YNU
Outdoor Twinning Kit(optional parts)			CMY-R200NCBK	CMY-R200NCBK	CMY-R200NCBK	CMY-R200NCBK	CMY-R300NCBK	CMY-R300NCBK
BC controller ~Twinning pipe	High pressure	a	φ22.2(7/8)	* φ22.2(7/8)(φ28.58(1-1/8))	* φ22.2(7/8)(φ28.58(1-1/8))	* φ22.2(7/8)(φ28.58(1-1/8))	φ28.58(1-1/8)	φ28.58(1-1/8)
	Low pressure	b	φ28.58(1-1/8)	φ28.58(1-1/8)	φ34.93(1-3/8)	φ34.93(1-3/8)	φ34.93(1-3/8)	φ34.93(1-3/8)
Twinning pipe ~Outdoor unit 1	High pressure	c	φ19.05(3/4)	φ19.05(3/4)	φ19.05(3/4)	φ19.05(3/4)	φ22.2(7/8)	φ22.2(7/8)
	Low pressure	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)	φ28.58(1-1/8)
Twinning pipe ~Outdoor unit 2	High pressure	e	φ19.05(3/4)	φ19.05(3/4)	φ19.05(3/4)	φ19.05(3/4)	φ19.05(3/4)	φ22.2(7/8)
	Low pressure	f	φ22.2(7/8)	φ22.2(7/8)	φ22.2(7/8)	φ28.58(1-1/8)	φ28.58(1-1/8)	φ28.58(1-1/8)

* When the piping length is 65m(213ft) or longer,
use the φ28.58(1-1/8) pipe for the part that exceeds 65m(213ft).

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: PURY-EP120_144TNU-A1(-BS) - DIMENSIONS

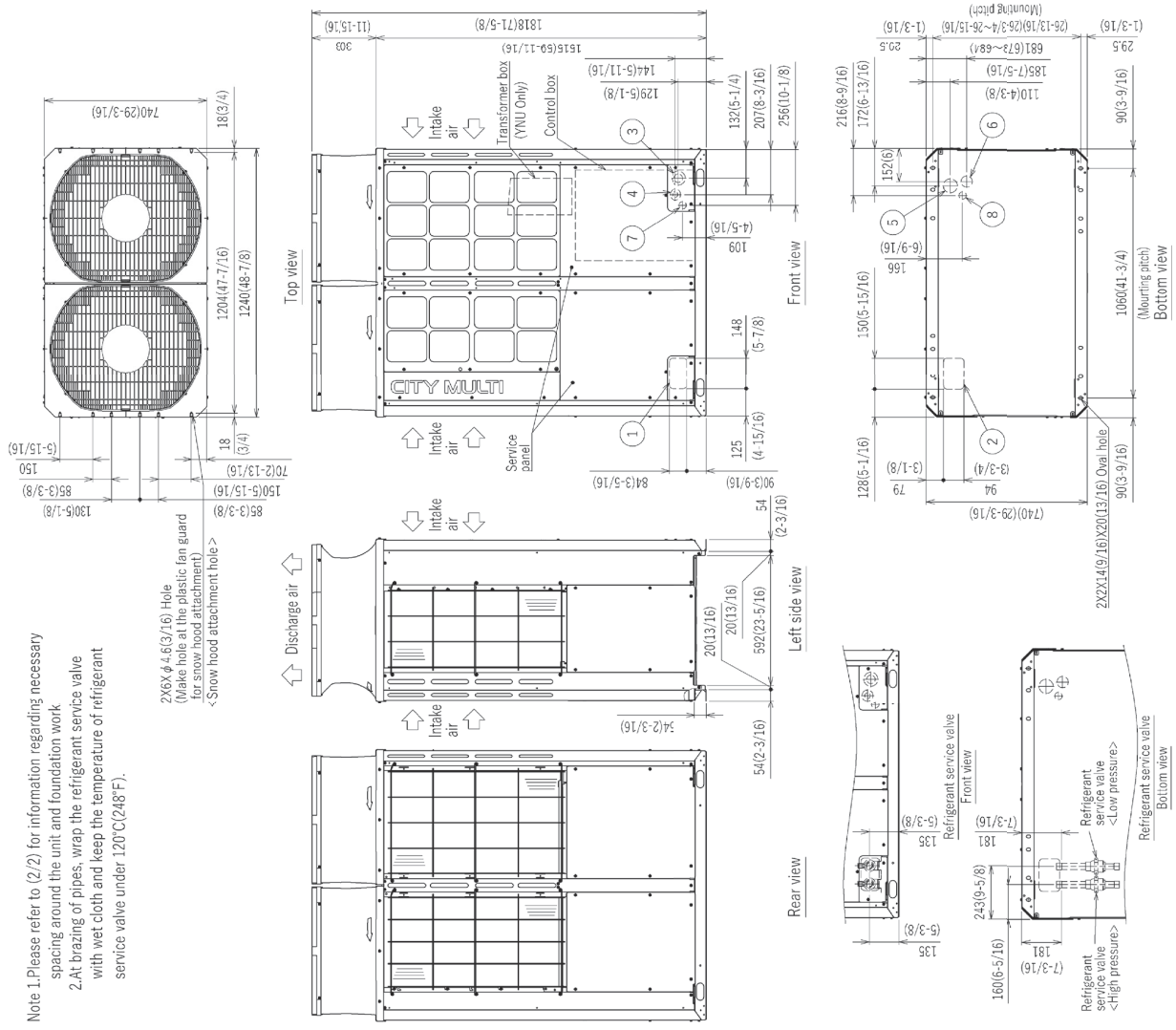
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter					
	Refrigerant pipe *1				Service valve	
	High pressure		Low pressure		High pressure	Low pressure
(E)P96	ϕ19.05(3/4)	Brazed	ϕ22.2(7/8)	Brazed	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)
(E)P120	ϕ19.05(3/4)	Brazed	ϕ28.58(1-1/8)	Brazed	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)
(E)P144	ϕ22.2(7/8)	Brazed	ϕ28.58(1-1/8)	Brazed	ϕ28.58(1-1/8)	ϕ28.58(1-1/8)

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

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
Heating and Cooling