

Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM



UNIT OPTION

☒ Standard Model.....PURY-EP192TSNU-A☒ Seacoast (BS) Model.....PURY-EP192TSNU-A-BS

ACCESSORIES

☒ Big Foot Stand.....for details see Big Foot Stands submittals☒ Twinning Kit (Required).....CMY-R200NCBK☒ BC Controller (Required).....for details see BC Controller Submittals☒ Joint Kit.....for details see Pipe Accessories Submittal☒ Low Ambient Kit.....for details see Low Ambient Kit Submittal☒ Panel Heater Kit.....for details see Panel Heater Kit Submittal☒ Snow/Hail Guards Kit.....for details see Snow/Hail Guards Kit Submittal

Specifications			System
Unit Type			PURY-EP192TSNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	192,000
Heating Capacity (Nominal)		BTU/H	215,000
Net Weight		Lbs. [kg]	1,226 [556]
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	7/8 [22.2] Brazed
	Gas (Low Pressure)	In. [mm]	1-1/8 [28.58] Brazed
Max. Total Refrigerant Line Length		Ft.	2,460
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit Connectable	Total Capacity	50.0~150.0% of outdoor unit capacity	
	Model/Quantity	P04~P96/1.0~48.0	
Sound Pressure Levels		dB(A)	61.5/63.0
Sound Power Levels		dB(A)	80.5/82.0
Compressor Operating Range		7.5% to 100.0%	
AHRI Ratings (Ducted/Non-ducted)	EER	11.0/11.3	
	IEER	20.5/22.4	
	COP	3.66/3.99	
	SCHE	23.0/28.0	

Specifications			Module 1	Module 2
Unit Type			PURY-EP96TNU-A(-BS)	PURY-EP96TNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	96,000	96,000
Heating Capacity (Nominal)		BTU/H	108,000	108,000
Guaranteed Operating Range ¹	Cooling ²	°F [°C]	23~126 [-5.0~52.0]	23~126 [-5.0~52.0]
Guaranteed Operating Range	Heating	°F [°C]	-13~60 [-25.0~15.5]	-13~60 [-25.0~15.5]
Extended Operating Range	Heating	°F [°C]	-27.4~60 [-33.0~15.5]	-27.4~60 [-33.0~15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 48-7/8 x 29-3/16 [1,818 x 1,240 x 740]	71-5/8 x 48-7/8 x 29-3/16 [1,818 x 1,240 x 740]
Net Weight		Lbs. [kg]	613 [278]	613 [278]
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]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		208/230V, 3-phase, 60 Hz, ±10%	208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity	A		44.0/40.0	44.0/40.0
Maximum Overcurrent Protection	A		70/60	70/60
Recommended Fuse Size	A		45/45	45/45
Recommended Minimum Wire Size	AWG [mm]		6/6 [13.3/13.3]	6/6 [13.3/13.3]
SCCR	kA		5	5
FAN ⁴	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow Rate	CFM	7,400	7,400
	External Static Pressure	In. WG	Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG	Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
Refrigerant	Type x Original Charge		R410A x 17.0 lbs + 10.0 oz [8.0 kg]	R410A x 17.0 lbs + 10.0 oz [8.0 kg]
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

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230-2023)
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 1230-2023)
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.)

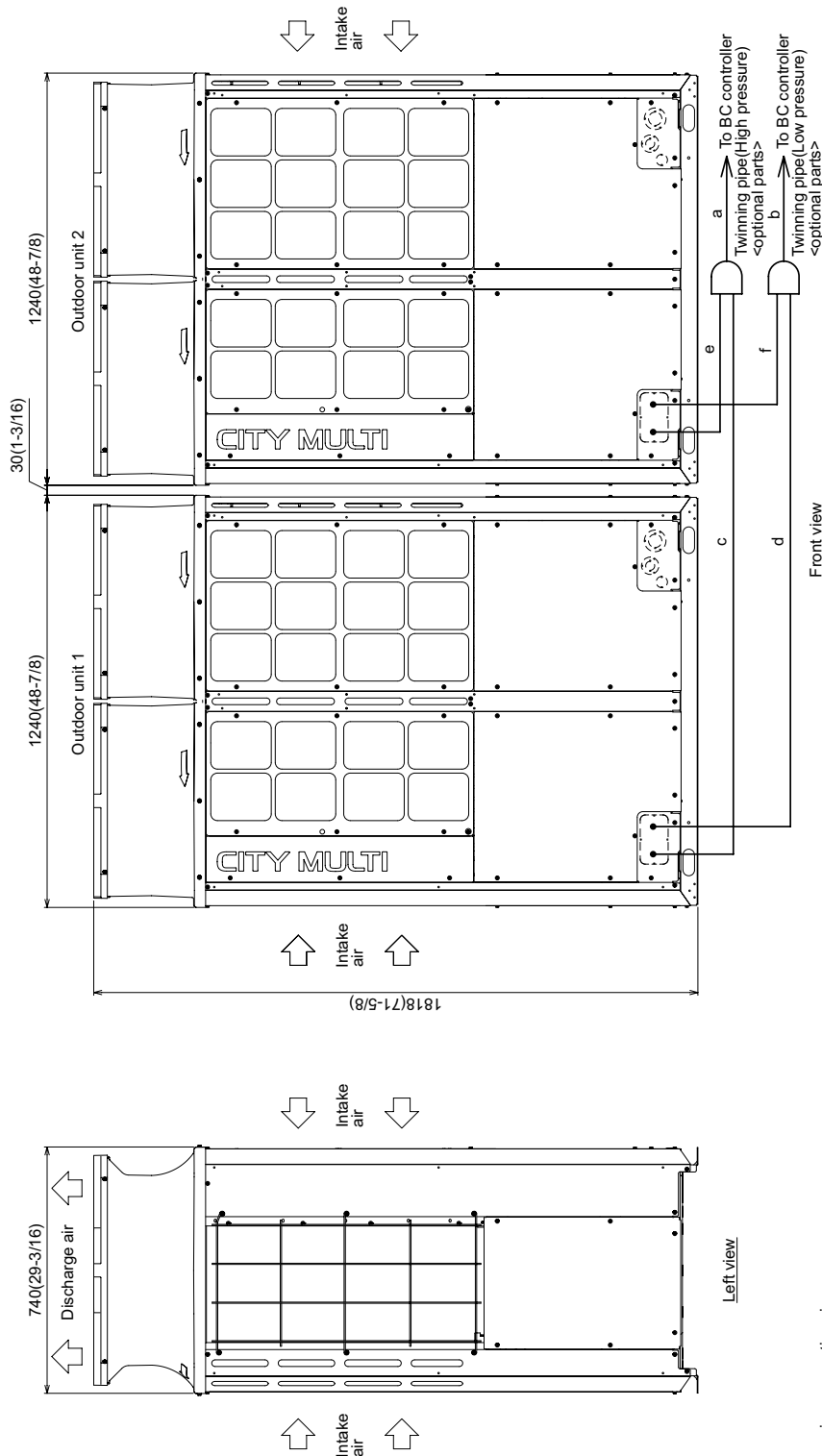
¹Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region

²For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal

³When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating

⁴Unit will continue to operate in extended operating range, but capacity is not guaranteed

Unit: mm(in)



	Unit model	High pressure c or e	Low pressure d or f
Twinning pipe-Outdoor unit	EP96	ø19.05(3/4)	ø22.27(7/8)
	EP120	ø19.05(3/4)	ø28.58(1-1/8)
	EP144	ø29.57(1-1/8)	ø30.50(1-1/8)

Package	Unit name	PUR-EP192T(SNU-A-BS)	PUR-EP167TSU(A-BS)	PUR-EP207(SNU-A-BS)	PUR-EP267TSU(A-BS)	PUR-EP287(SNU-A-BS)
Outdoor unit 1	PUR-EP86TNU(A-BS)	PUR-EP120TNU(A-BS)	PUR-EP120TNU(A-BS)	PUR-EP120TNU(A-BS)	PUR-EP144TNU(A-BS)	PUR-EP144TNU(A-BS)
Outdoor unit 2	PUR-EP86TNU(A-BS)	PUR-EP120TNU(A-BS)	PUR-EP120TNU(A-BS)	PUR-EP120TNU(A-BS)	PUR-EP144TNU(A-BS)	PUR-EP144TNU(A-BS)
Outdoor: Twinning Kit(optional parts)	CMY-R200NCBCK	CMY-R200NCBCK	CMY-R200NCBCK	CMY-R200NCBCK	CMY-R300NCBCK	CMY-R300NCBCK
High pressure a	ø22.7(7/8)	ø22.7(7/8)	ø22.7(7/8)	ø22.7(7/8)	ø28.58(1-1/8)	ø28.58(1-1/8)
BC controller	ø22.7(7/8)	ø22.7(7/8)	ø22.7(7/8)	ø22.7(7/8)	ø28.58(1-1/8)	ø28.58(1-1/8)

* When the piping length is 65m(213ft) or longer,

* When the piping length is 65m(213ft) or longer, use the $\varnothing 28.58(1-1/8)$ 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 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.

33. The pipe section before the Twinning pipe (section "a" and "b" in the figure) is a straight pipe that is supplied with the Twinning pipe (*including the straight pipe that is supplied with the Twinning pipe).

4. Only use the Twinning pipe by Mitsubishi (optional parts).

NOTES:

SEACOAST PROTECTION

Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.

Standard: Salt Spray Test Method - no unusual rust development to 480 hours.

Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

MODULE 1: PURY-EP96TNU-A(-BS) – DIMENSIONS

PURY-EP96, 120, 144TNU-A(-BS)

Unit: mm(in)

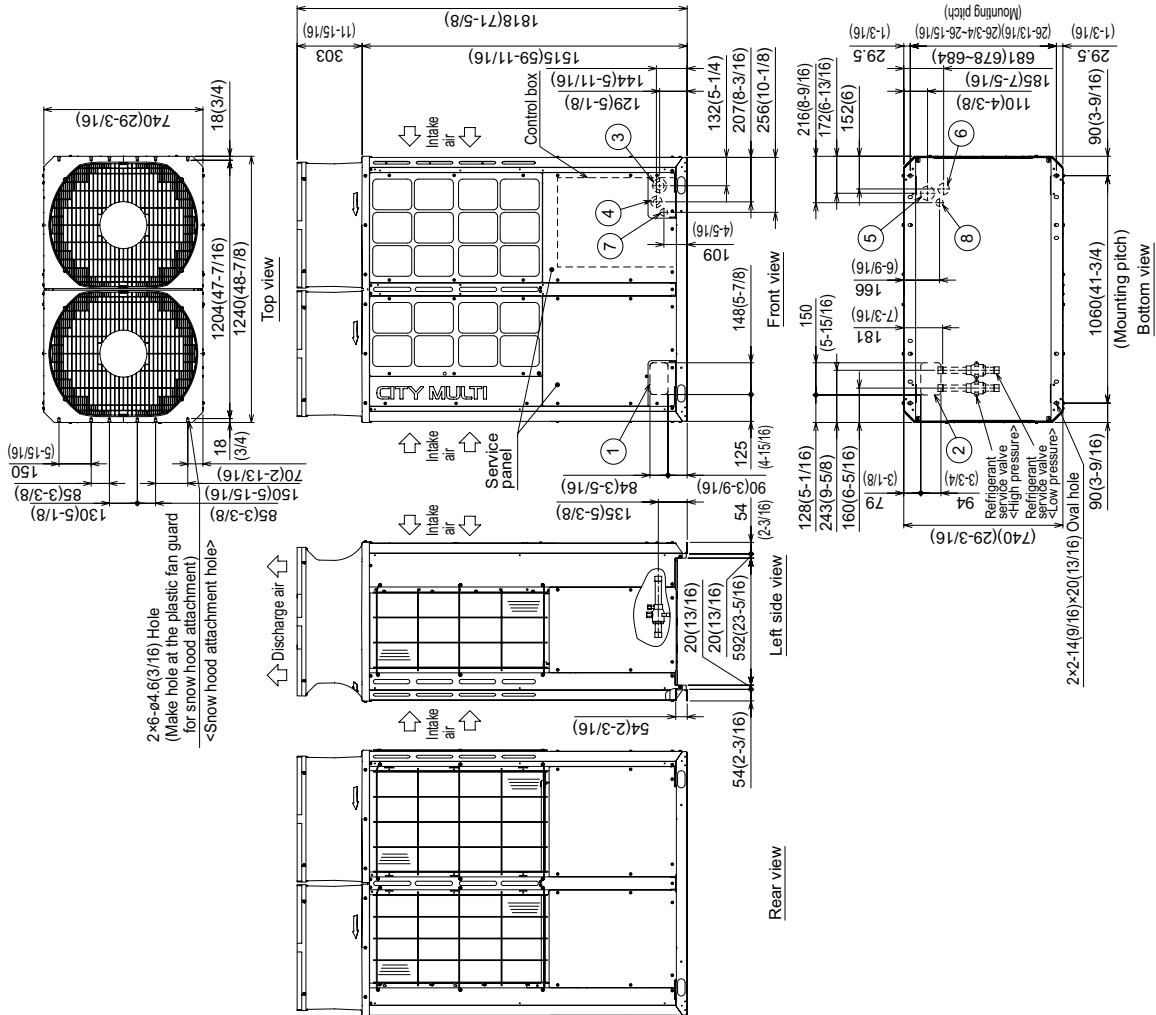
Note 1. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Diameter		
	Refrigerant pipe	High pressure	Service valve
EP96	ø19(3/4)	ø22(7/8) Brazed*1	ø25.5(1-1/8)
EP120	ø19(3/4)	ø22(7/8) Brazed*1	ø25.5(1-1/8)
EP144	ø19(3/4)	ø22(7/8) Brazed*1	ø25.5(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 150(5-15/16) x 94(3-3/4) Knockout hole
②		Bottom through hole ø62(2-1/2) or ø34(1-3/8) Knockout hole
③		Front through hole ø43(1-3/4) or ø22(7/8) Knockout hole
④		Bottom through hole ø65(2-9/16) Knockout hole
⑤		Front through hole ø52(2-1/16) Knockout hole
⑥		Bottom through hole ø34(1-3/8) 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



NOTES:

SEACOAST PROTECTION

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MODULE 2: PURY-EP96TNU-A(-BS) – DIMENSIONS

PURY-EP96, 120, 144TNU-A(-BS)

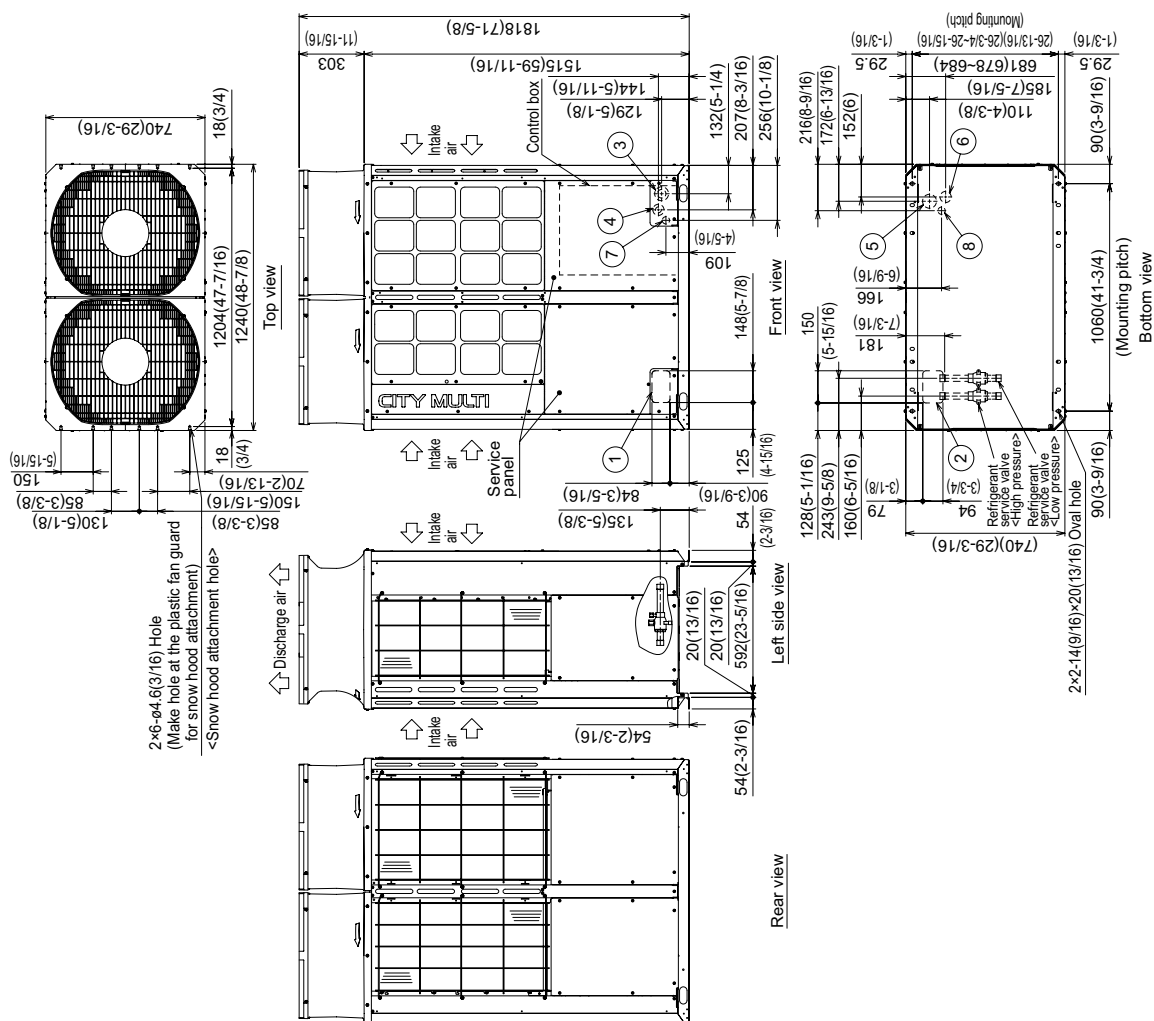
Unit: mm(in)

Note 1. 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	High pressure	Service valve
EP96	Low pressure	High pressure	Low pressure
EP120	ø 9.6(3/4) Brazed *1	ø 22.7(9/16) Brazed *1	
EP144	ø 9.6(3/4) Brazed *1	ø 28.5(1 1/8) Brazed	ø 25.5(1 - 1/8)

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



NOTES:

SEACOAST PROTECTION

Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.

Standard: Salt Spray Test Method - no unusual rust development to 480 hours.

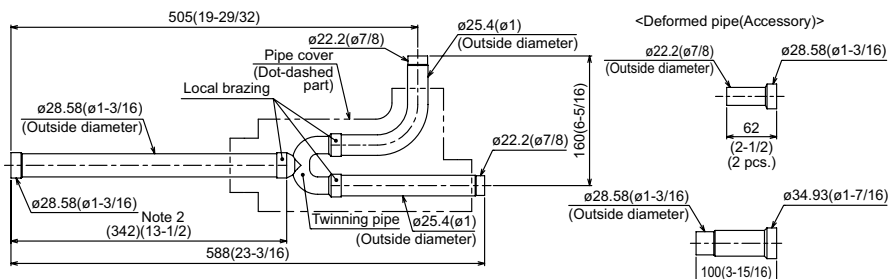
Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

CMY-R200NCBK

Note:

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2. Use the attached pipe to braze the port-opening of the twinning pipe.
3. Pipe diameter is indicated by inside diameter.



2. Use the attached pipe to braze the port-opening of the twinning pipe.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts) .