

Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM



UNIT OPTION

Standard Model.....TURYE2643BN41AN

ACCESSORIES

Big Foot Stand.....for details see Big Foot Stands submittals

Twinning Kit (Required).....CMY-R300NCBK

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			TURYE2643BN41AN
Cooling Capacity (Nominal)		BTU/H	264,000
Heating Capacity (Nominal)		BTU/H	295,000
Net Weight		Lbs. [kg]	1,302 [590]
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	1-1/8 [28.58] Brazed
	Gas (Low Pressure)	In. [mm]	1-3/8 [34.93] Brazed
Max. Total Refrigerant Line Length		Ft.	3,116
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~P96/2.0~50.0	
Sound Pressure Levels		dB(A)	66.5/67.5
Sound Power Levels		dB(A)	87.0/87.0
Compressor Operating Range		7.5% to 100.0%	
AHRI Ratings (Ducted/Non-ducted)	EER	9.5/9.7	
	IEER	19.4/21.1	
	COP	3.36/3.53	
	SCHE	22.3/25.7	

Specifications			Module 1	Module 2
Unit Type			TURYE1443AN41AN	TURYE1203AN41AN
Cooling Capacity (Nominal)		BTU/H	144,000	120,000
Heating Capacity (Nominal)		BTU/H	160,000	135,000
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]	680 [308]	622 [282]
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		60.0/60.0	56.0/55.0
Maximum Overcurrent Protection	A		100/100	90/90
Recommended Fuse Size	A		60/60	60/60
Recommended Minimum Wire Size	AWG [mm]		4/4 [21.2/21.2]	4/4 [21.2/21.2]
SCCR	kA		5	5
FAN ⁴	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow Rate	CFM	9,550	8,300
	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 23.0 lbs + 12.0 oz [10.8 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

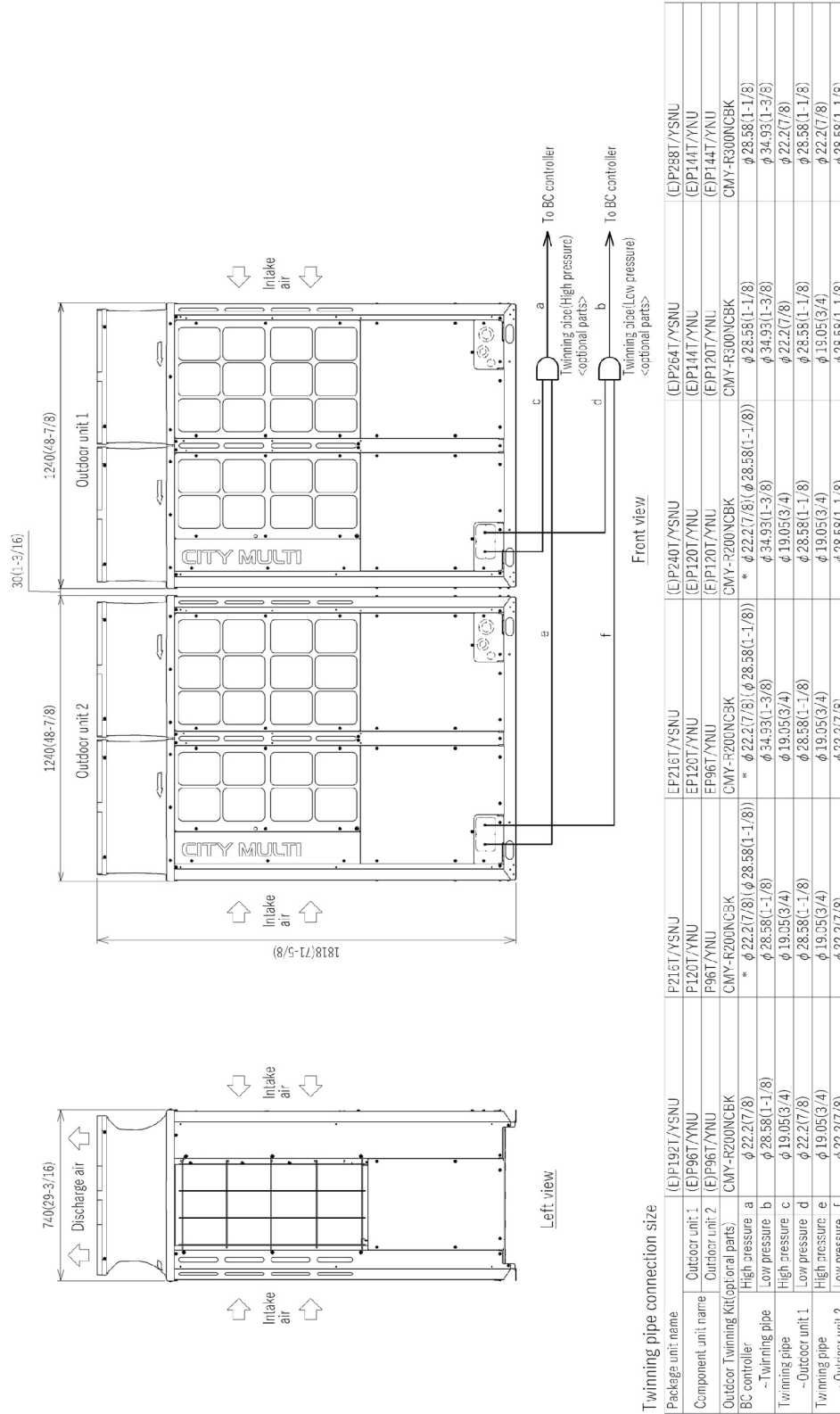
⁴Unit will continue to operate in extended operating range, but capacity is not guaranteed

Each individual module requires a separate electrical connection. Refer to electrical data for each individual module.

OUTDOOR UNIT: TURYE2643BN41AN – DIMENSIONS

PURY-EP192, 216, 240, 264, 288T/YSNU-A1

Unit: mm(in)



MODULE 1: TURYE1443AN41AN – DIMENSIONS

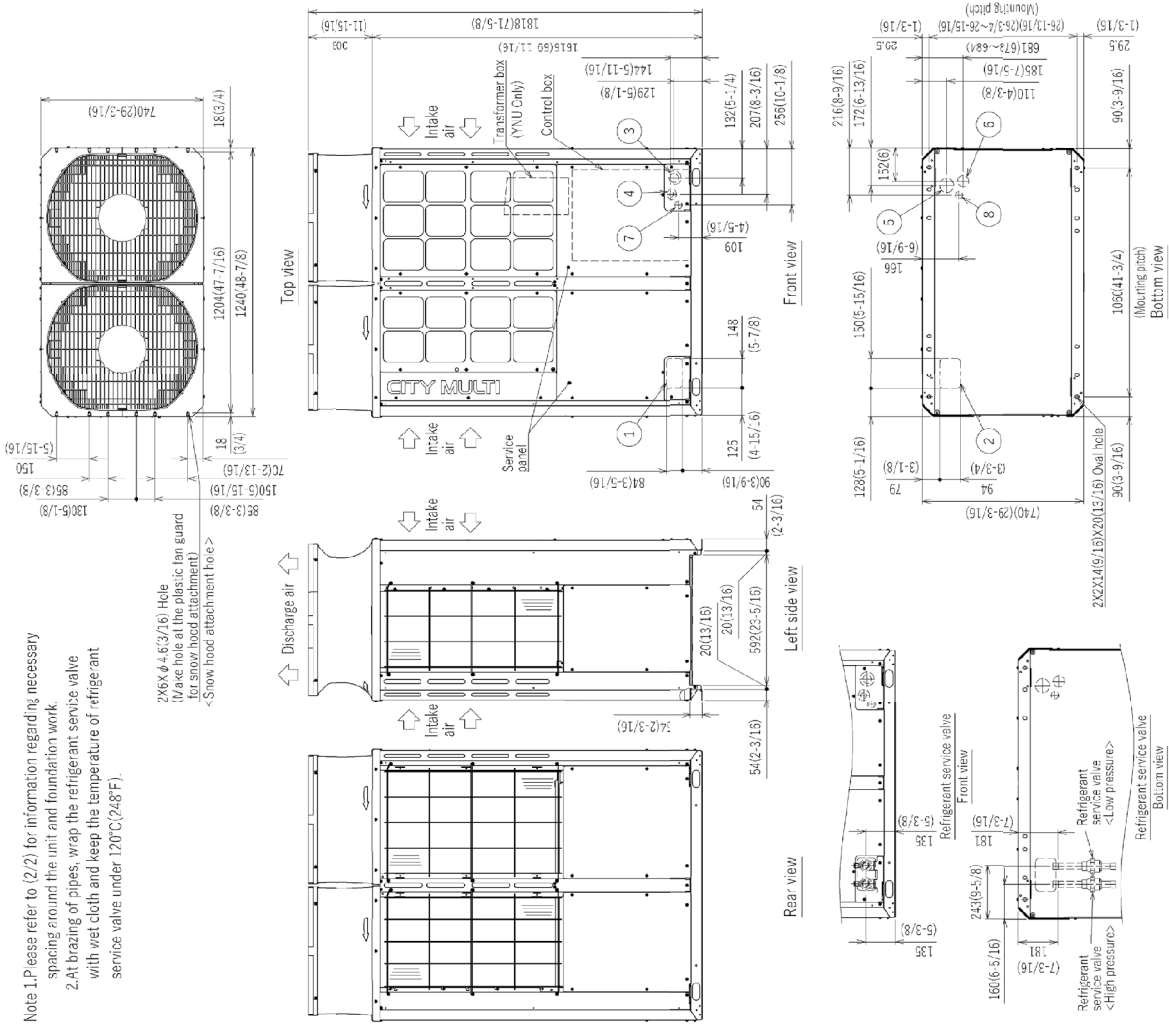
Unit: mm(in)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
(E)P56	φ19.05(3/4)	φ22.7(7/8)	Blazed φ23.58(1-1/8)	Blazed φ28.58(1-1/8)
(E)P120	φ19.05(3/4)	Blazed φ28.58(1-1/8)	Blazed φ23.58(1-1/8)	Blazed φ28.58(1-1/8)
(E)P144	φ22.7(7/8)	Blazed φ28.58(1-1/8)	Blazed φ23.58(1-1/8)	Blazed 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(5-17/16) 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	For wires	Front through hole φ43.7(1-3/4) or φ22.7(7/8) Knockout hole
⑤		Bottom through hole φ52(2-9/16) Knockout hole
⑥		Bottom through hole φ52(2-1/16) Knockout hole
⑦	For transmitter cables	Front through hole φ34(1- 3/8) Knockout hole
⑧		Bottom through hole φ34(1- 3/8) Knockout hole



MODULE 2: TURYE1203AN41AN – DIMENSIONS

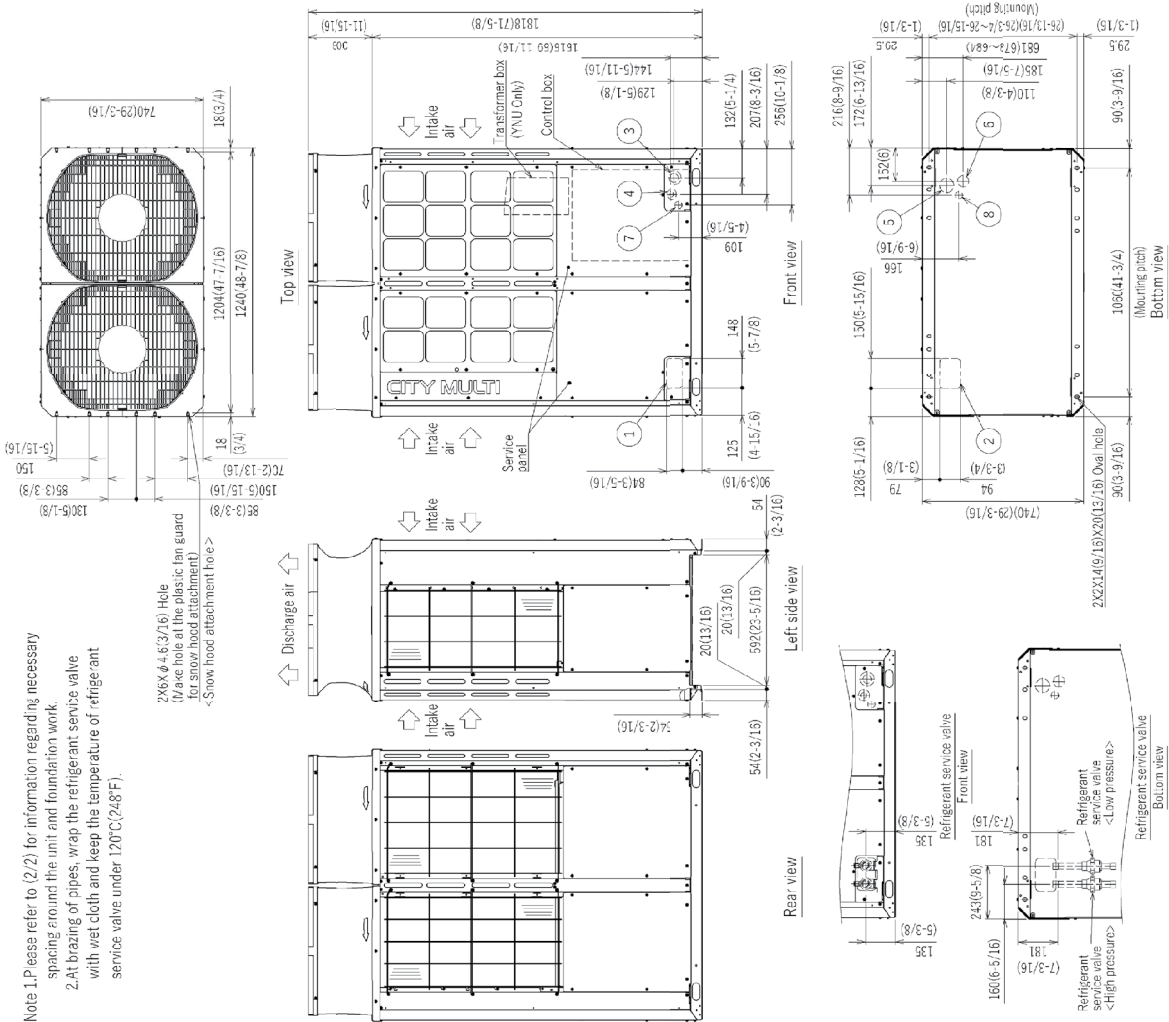
Unit: mm(in)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
(E)P56	High pressure	Low pressure	High pressure	Low pressure
	φ19.05(3/4)	φ22.7(7/8)	Blazed φ23.58(1-1/8)	Blazed φ28.58(1-1/8)
(E)P120	High pressure	Low pressure	High pressure	Low pressure
	φ19.05(3/4)	φ22.7(7/8)	Blazed φ23.58(1-1/8)	Blazed φ28.58(1-1/8)
(E)P144	High pressure	Low pressure	High pressure	Low pressure
	φ22.7(7/8)	φ28.58(1-1/8)	Blazed φ23.58(1-1/8)	Blazed φ28.58(1-1/8)

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

NO.	Usage	Specifications	
		For pipes	For wires
①	Front through hole	148(5-7/8) X 84(3-1/5)	Knockout hole
②	Bottom through hole	150(5-11/16) 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	Bottom through hole	φ52(2-9/16)	Knockout hole
⑥	Bottom through hole	φ52(2-1/16)	Knockout hole
⑦	For transmitter cables	φ34(1-3/8)	Knockout hole
⑧	Bottom through hole	φ34(1-3/8)	Knockout hole

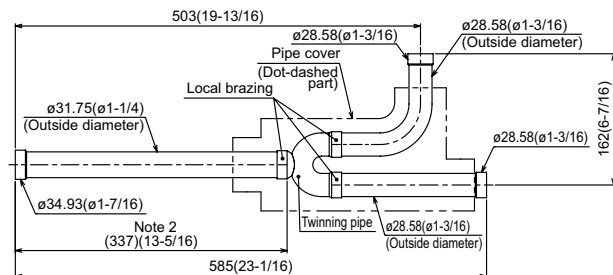


TWINNING KIT: CMY-R300NCBK – DIMENSIONS

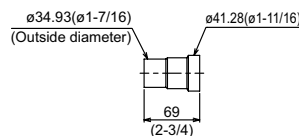
CMY-R300NCBK

Unit: mm (in.)

Low-pressure twinning pipe

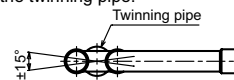


<Deformed pipe(Accessory)>



Note:

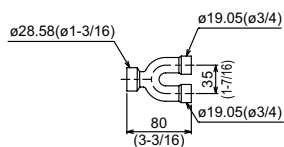
1. Refer to the figure below for the installation position of the twinning pipe.



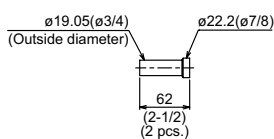
Slope of the twinning pipes are at an angle within $\pm 15^\circ$ to the horizontal plane.

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

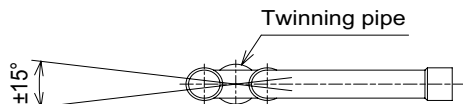
High-pressure twinning pipe



<Deformed pipe(Accessory)>



Note 1. Reference the attitude angle of the twinning pipe below the fig.



The angle of the twinning pipe is within $\pm 15^\circ$ against the horizontal plane.

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 Twining pipe by Mitsubishi (optional parts) .