

Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM**UNIT OPTION**

Standard Model.....PURY-P288TSNU-A
 Seacoast (BS) Model.....PURY-P288TSNU-A-BS

ACCESSORIES

Twinning Kit (Required).....CMY-R300NCBK
 BC Controller (Required).....for details see BC Controller Submittals
 Joint Kit.....for details see Pipe Accessories 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-P288TSNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	288,000
Heating Capacity (Nominal)		BTU/H	323,000
Net Weight		Lbs. [kg]	1292 [586]
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.	3116
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1640
Indoor Unit Connectable	Total Capacity		50.0~150.0% of outdoor unit capacity
	Model/Quantity		P05~P96/2.0~50.0
Sound Pressure Levels		dB(A)	68.0~68.5
Sound Power Levels		dB(A)	88.5/88.5
Compressor Operating Range			7.5% to 100.0%
AHRI Ratings (Ducted/Non-ducted)	EER		10.2/10.9
	IEER		22.1/26.4
	COP		3.2/3.44
	SCHE		21.7/24.5

Specifications			Module 1	Module 2
Unit Type			PURY-P144TNU-A(-BS)	PURY-P144TNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	144,000	144,000
Heating Capacity (Nominal)		BTU/H	160,000	160,000
Guaranteed Operating Range ¹	Cooling ²	°F [°C]	23~126 [-5.0~52.0]	23~126 [-5.0~52.0]
	Heating ³	°F [°C]	-4~60 [-20.0~15.5]	-4~60 [-20.0~15.5]
Extended Operating Range	Heating	°F [°C]	-18~60 [-18.0~15.5]	-18~60 [-18.0~15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 48-7/8 x 29-5/32 [1,818 x 1,240 x 740]	71-5/8 x 48-7/8 x 29-5/32 [1,818 x 1,240 x 740]
Net Weight		Lbs. [kg]	646 [293]	646 [293]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type)	Pre-coated galvanized steel sheet (+powder coating for -BS type)
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		52.0/48.0	52.0/48.0
Maximum Overcurrent Protection	A		80/70	80/70
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	9550	9550
	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 lbs + 12.0 oz [18.8 kg]	R410A x 23 lbs + 12.0 oz [18.8 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-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Fan Motor		Over-current protection	Over-current protection

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230)
 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)
 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

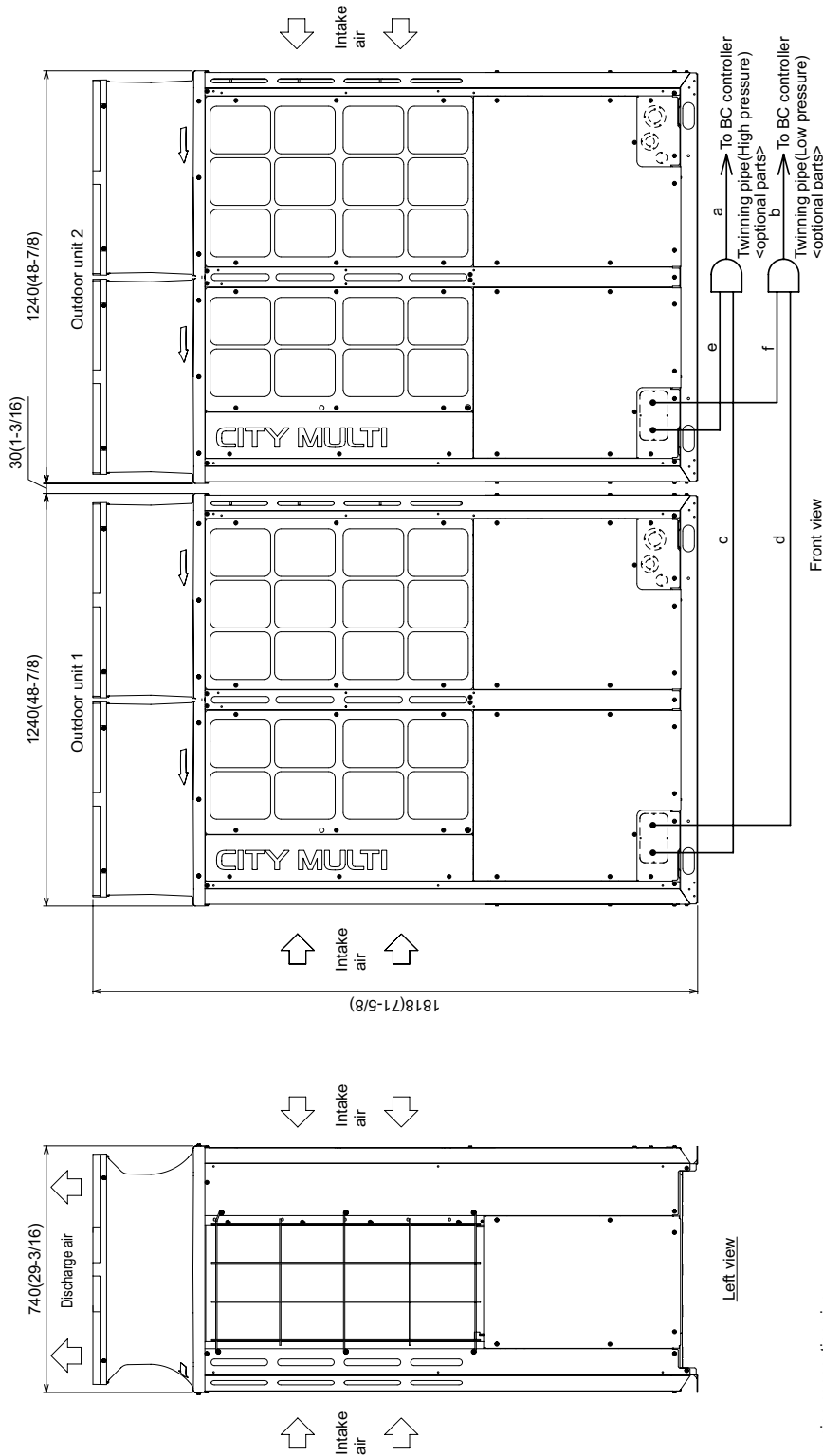
⁴Unit will continue to operate in extended operating range, but capacity is not guaranteed

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

OUTDOOR UNIT: PURY-P288TSNU-A-(BS) – DIMENSIONS

PURY-P192,216,240,264,288TSNU-A-(BS)

Unit: mm(in)



Unit model	High pressure	Low pressure
P96	c or e ø19.05(3/4)	d or f ø22.2(7/8)
P120	ø19.05(3/4)	ø28.58(1-1/8)
P144	ø22.2(7/8)	ø28.58(1-1/8)

Package unit name	PURY-P192TSNU-A-(BS)	PURY-P216TSNU-A-(BS)	PURY-P240TSNU-A-(BS)	PURY-P264TSNU-A-(BS)	PURY-P288TSNU-A-(BS)
Component unit name	Outdoor unit 1 PURY-P96TSNU-A-(BS)	Outdoor unit 1 PURY-P120TSNU-A-(BS)	Outdoor unit 1 PURY-P120TSNU-A-(BS)	Outdoor unit 1 PURY-P120TSNU-A-(BS)	Outdoor unit 1 PURY-P144TSNU-A-(BS)
Outdoor Twinning Kit (optional parts)	PURY-P96TNU-A-(BS)	PURY-P120TNU-A-(BS)	PURY-P120TNU-A-(BS)	PURY-P120TNU-A-(BS)	PURY-P144TNU-A-(BS)
BC controller	CMY-R200NCBK	CMY-R200NCBK	CMY-R200NCBK	CMY-R200NCBK	CMY-R200NCBK
~Twinning pipe	High pressure a ø22.2(7/8)	High pressure a ø22.2(7/8)	High pressure a ø22.2(7/8)	High pressure a ø22.2(7/8)	High pressure a ø22.2(7/8)
Low pressure b	ø28.58(1-1/8)	ø28.58(1-1/8)	ø28.58(1-1/8)	ø28.58(1-1/8)	ø28.58(1-1/8)

* When the piping length is 65m(213ft) or longer, use the ø28.58(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.

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).

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-P144TNU-A(-BS) – DIMENSIONS

PURY-P96,120,144TNU-A(-BS)

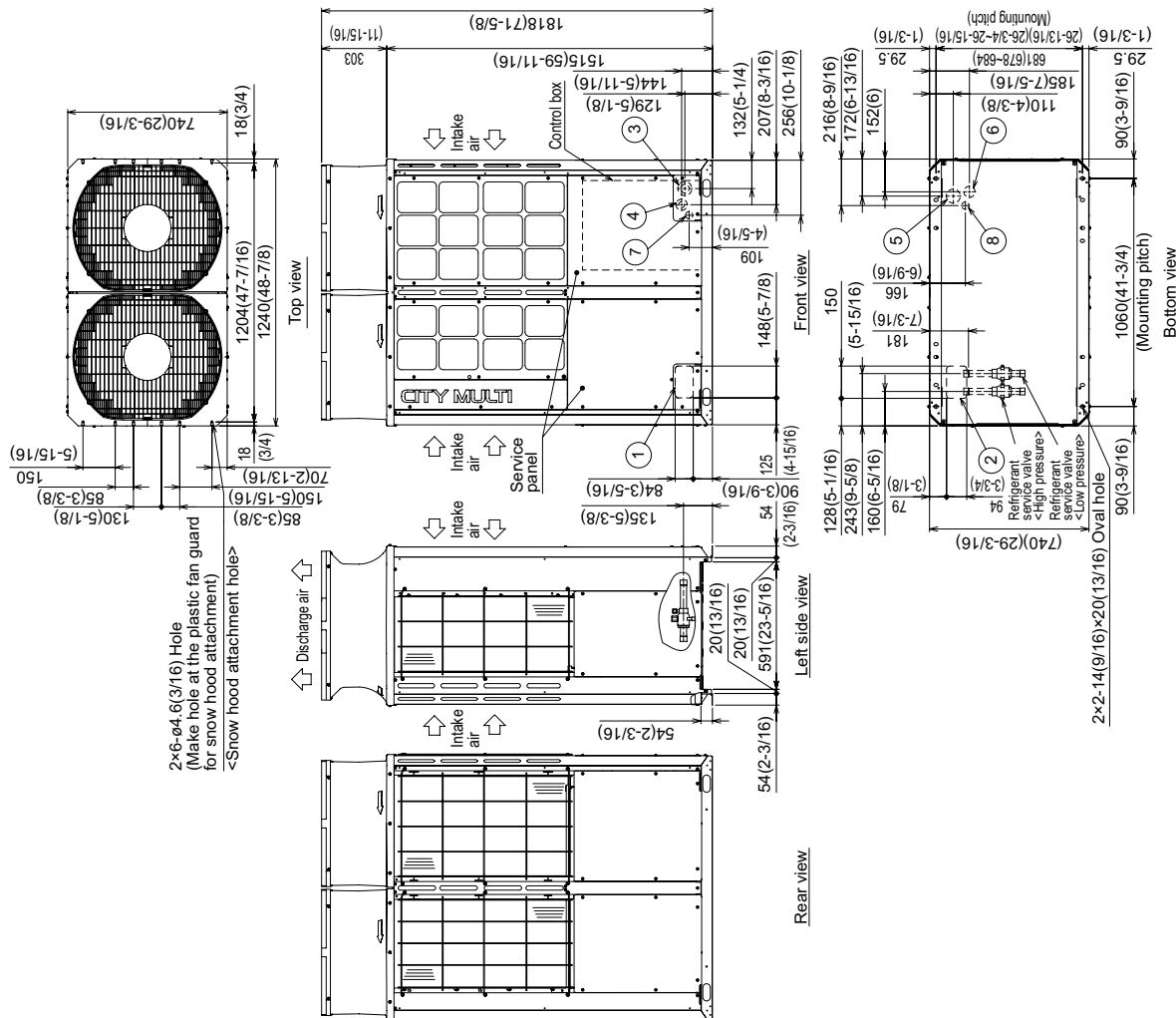
Unit: mm(in)

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	Refrigerant pipe		Diameter	
	High pressure	Low pressure	High pressure	Service valve Low pressure
P96	ø19.05(3/4) Brazed*1	ø22.7(8/16) Brazed*1	ø23.3(1-1/8)	ø23.3(1-1/8)
P120	ø19.05(3/4) Brazed*1	ø22.7(8/16) Brazed*1	ø23.3(1-1/8)	ø23.3(1-1/8)
P144	ø22.7(8/16) Brazed*1	ø25.5(1-1/8) Brazed*1	ø25.5(1-1/8)	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
②		Bottom through hole 150(5-15/16) x 94(3-3/4) Knockout hole
③		Front through hole ø27.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④	For wires	Front through hole ø43.7(1-3/4) or ø22.7(8/16) Knockout hole
⑤		Bottom through hole ø25(2-9/16) Knockout hole
⑥		Bottom through hole ø52(2-1/16) 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

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 2: PURY-P144TNU-A(-BS) – DIMENSIONS

PURY-P96,120,144TNU-A(-BS)

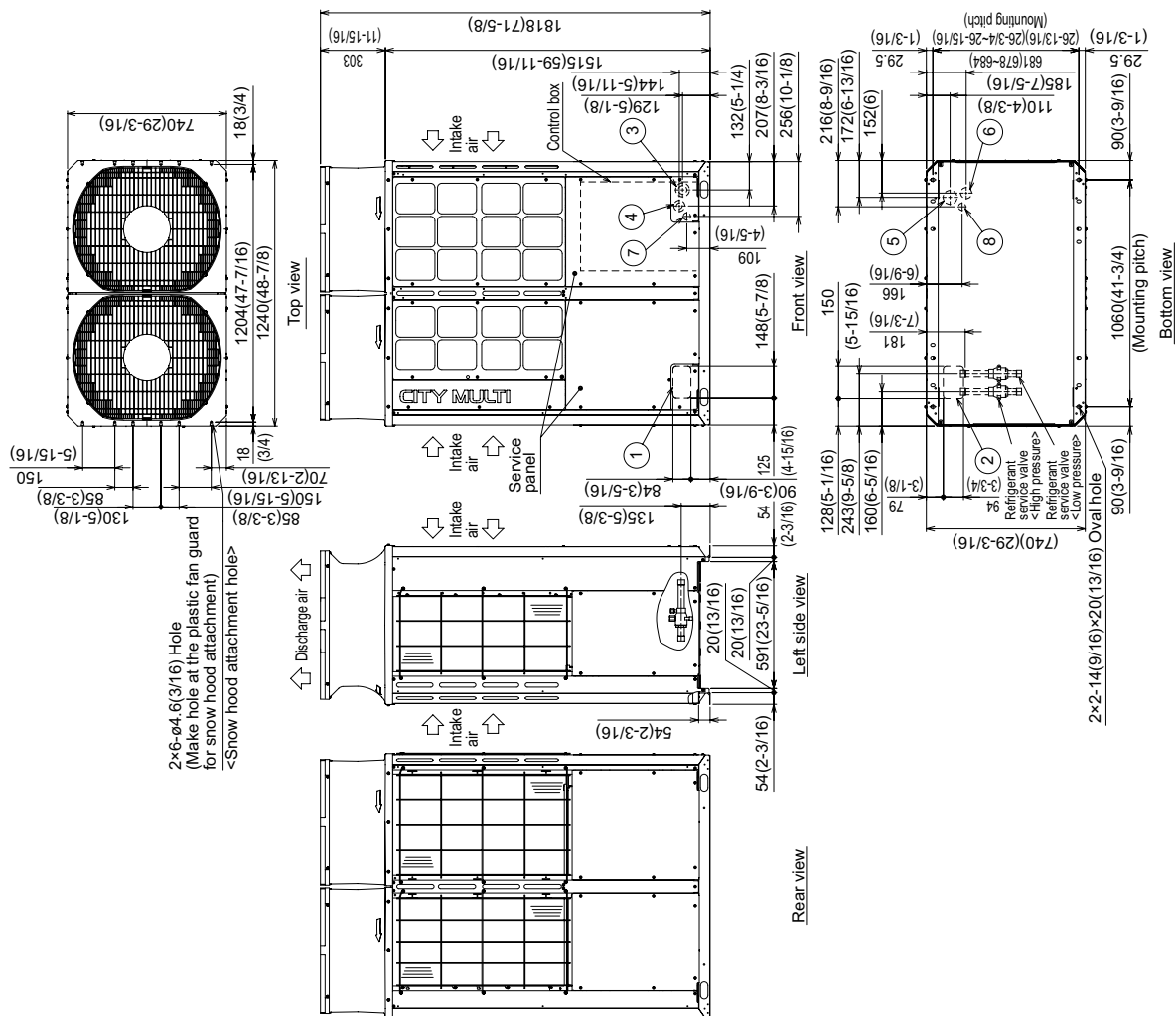
Unit: mm(in)

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		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
P96				
P120	ø19.05(ø 3/4) Brazed *1	ø2.27(ø 1/8) Bezeel *1		
P144	ø27.77(ø 1 1/8) Brazed *1	ø2.53(ø 1/8) Brazed	ø2.53(ø 1/8)	ø2.53(ø 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.

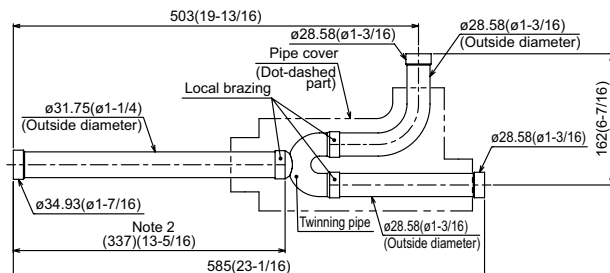
Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

TWINNING KIT: CMY-R300NCBK – DIMENSIONS

CMY-R300NCBK

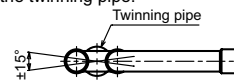
Unit: mm (in.)

Low-pressure twinning pipe



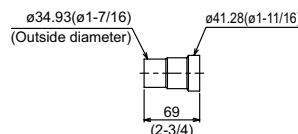
Note:

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



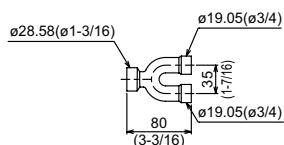
Slope of the twinning pipes are at an angle within $\pm 15^\circ$ to the horizontal plane.

<Deformed pipe(Accessory)>

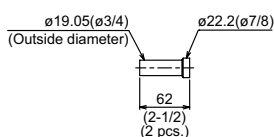


2. Use the attached pipe to braze the port-opening of the twinning pipe.
3. Pipe diameter is indicated by inside diameter.

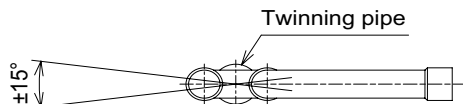
High-pressure twinning pipe



<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 Twinning pipe by Mitsubishi (optional parts) .

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