

Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM



UNIT OPTION

Standard Model.....PURY-P192TSNU-A
 Seacoast (BS) Model.....PURY-P192TSNU-A-BS

ACCESSORIES

Twining Kit (Required).....CMY-R200NCBK
 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-P192TSNU-A(-BS)	
Cooling Capacity (Nominal)	BTU/H	192,000	
Heating Capacity (Nominal)	BTU/H	215,000	
Net Weight	Lbs. [kg]	1152 [522]	
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.	2460	
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~P96/1.0~48.0	
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	11.9/13.5	
	IEER	24.3/30.7	
	COP	3.6/3.88	
	SCHE	23.0/28.0	

Specifications			Module 1		Module 2	
Unit Type			PURY-P96TNU-A(-BS)		PURY-P96TNU-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]	
	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]		576 [261]		576 [261]	
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		33.0/30.0		33.0/30.0	
Maximum Overcurrent Protection	A		50/45		50/45	
Recommended Fuse Size	A		40/40		40/40	
Recommended Minimum Wire Size	AWG [mm]		8/8 [8.4/8.4]		8/8 [8.4/8.4]	
SCCR	kA		5		5	
FAN ⁴	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow Rate	CFM	7400		7400	
	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 lbs + 10.0 oz [8.0 kg]		R410A x 17 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-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.)

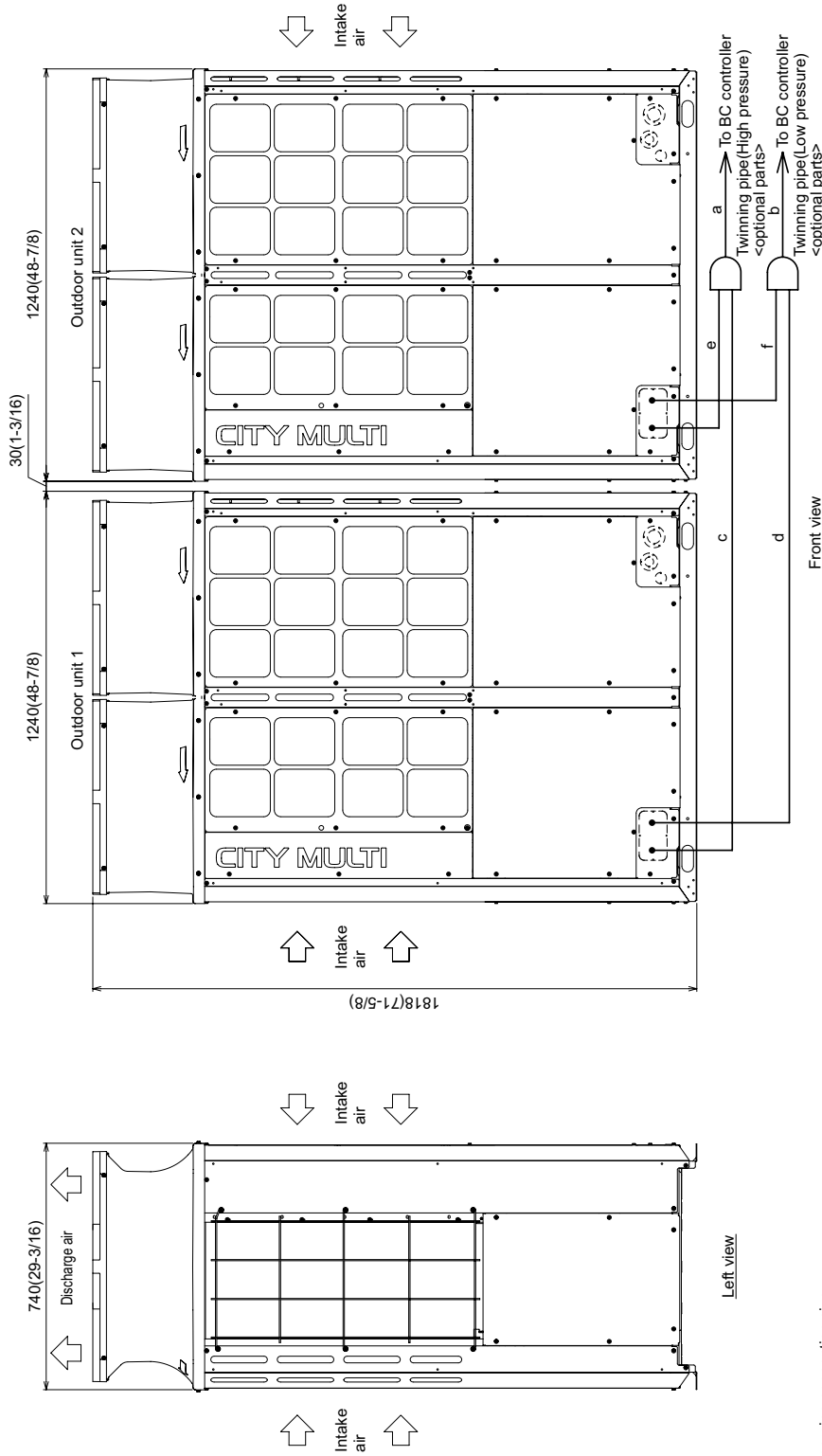
¹Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region
²For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal
³When applying product below -4°F, consult your design 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-P192TSNU-A-(BS) – DIMENSIONS

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

Unit: mm(in)



Unit model	High pressure	Low pressure
P96	c or e	d or f
P120	ø19.05(3/4)	ø22.2(7/8)
P144	ø19.05(3/4)	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)
Outdoor unit 1	PURY-P96TSNU-A-(BS)	PURY-P120TSNU-A-(BS)	PURY-P144TSNU-A-(BS)	PURY-P168TSNU-A-(BS)	PURY-P192TSNU-A-(BS)
Outdoor unit 2	PURY-P96TSNU-A-(BS)	PURY-P120TSNU-A-(BS)	PURY-P144TSNU-A-(BS)	PURY-P168TSNU-A-(BS)	PURY-P192TSNU-A-(BS)
BC controller	ø22.2(7/8)	ø22.2(7/8)	ø28.58(1-1/8) *	ø28.58(1-1/8)	ø34.93(1-3/8)
-Twinning pipe	a	b			

* 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-P96TNU-A(-BS) – DIMENSIONS

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

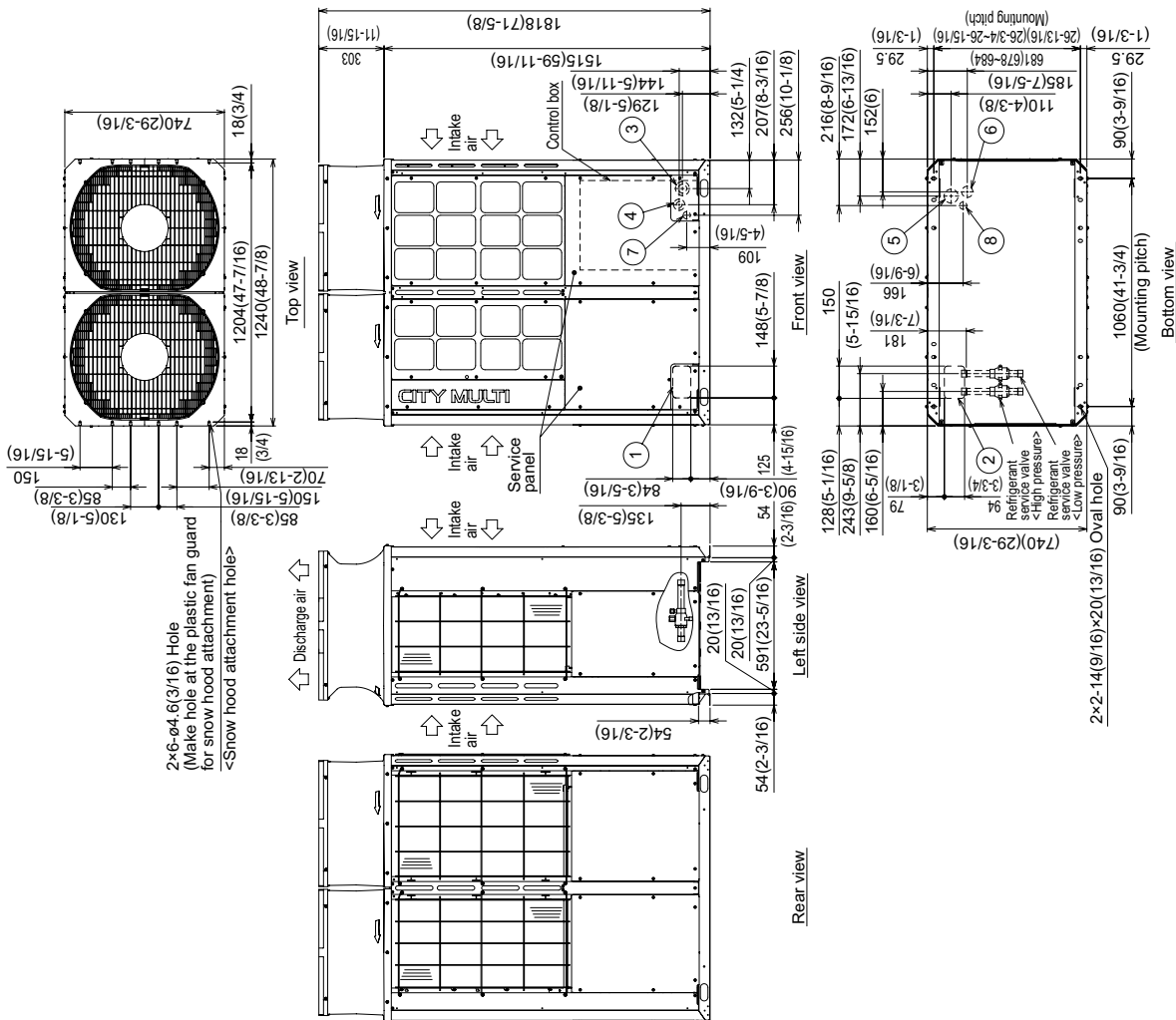
Unit: mm(in)

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).

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
P96	φ19.05(3/4) Brazed*1	φ22.2(7/8) Brazed*1	φ28.5(1-1/8)	φ28.5(1-1/8)
P120	φ19.05(3/4) Brazed*1	φ22.2(7/8) Brazed*1	φ28.5(1-1/8) Brazed	φ28.5(1-1/8)
P144	φ22.2(7/8) Brazed*1	φ28.5(1-1/8) Brazed*1	φ28.5(1-1/8) Brazed	φ28.5(1-1/8)

*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) × 84(3-5/16) Knockout hole
②	Bottom through hole	150(5-15/16) × 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 φ22.2(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	Front through hole	φ34(1-3/8) Knockout hole
⑧	Bottom through hole	φ34(1-3/8) Knockout hole



NOTES:
SEACOAT 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-P96TNU-A(-BS) – DIMENSIONS

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

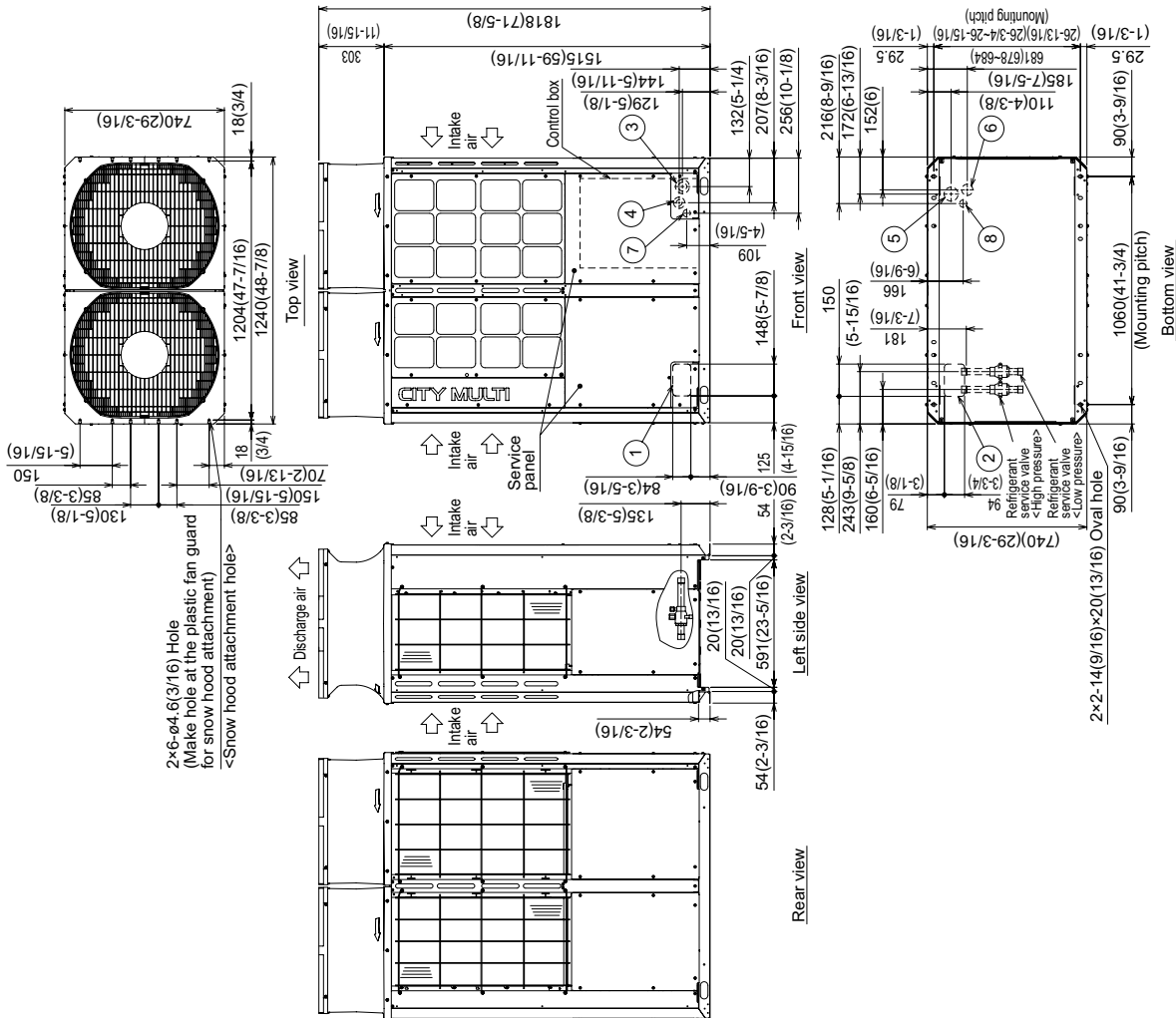
Unit: mm(in)

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).

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
P96	φ19.05(3/4) Brazed*1	φ22.2(7/8) Brazed*1	φ28.5(1-1/8)	φ28.5(1-1/8)
P120	φ19.05(3/4) Brazed*1	φ22.2(7/8) Brazed*1	φ28.5(1-1/8) Brazed	φ28.5(1-1/8)
P144	φ22.2(7/8) Brazed*1	φ28.5(1-1/8) Brazed*1	φ28.5(1-1/8) Brazed	φ28.5(1-1/8)

*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) × 84(3-5/16) Knockout hole
②	Bottom through hole	150(5-15/16) × 84(3-5/16) 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 φ22.2(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	Front through hole	φ34(1-3/8) Knockout hole
⑧	Bottom through hole	φ34(1-3/8) Knockout hole



NOTES:
SEACOAT PROTECTION

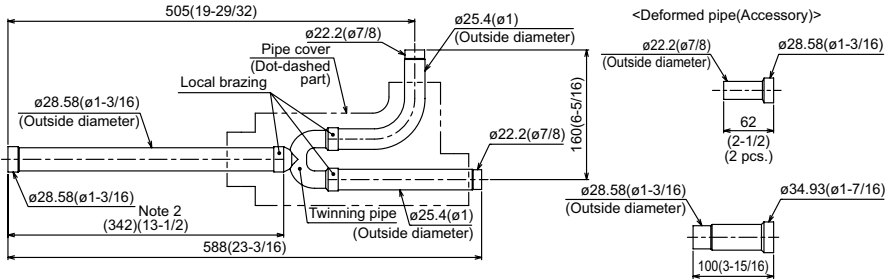
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TWINNING KIT: CMY-R200NCBK – DIMENSIONS

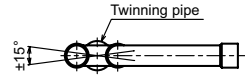
CMY-R200NCBK

Unit: mm (in.)

Low-pressure twinning pipe

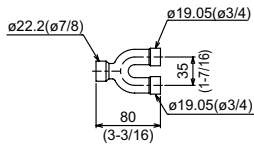


- Note:
1. Refer to the figure below for the installation position of the twinning pipe.

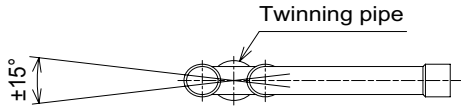


- Slope of the twinning pipes are at an angle within $\pm 15^\circ$ to the horizontal plane.
2. Use the attached pipe to braze the port-opening of the twinning pipe.
 3. Pipe diameter is indicated by inside diameter.

High-pressure twinning pipe



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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