

CITY MULTI® Outdoor Unit: 22-TON PUHY-P264TSJMU-A-BS MITSUBISHI ELECTRIC

(Consists of One PUHY-P144TJMU-A-BS, One PUHY-P120TJMU-A-BS, and One CMY-Y200VBK2 Twinning Kit)

Job Name: _____ Location: _____

Drawing Reference: _____ Schedule No. _____

System No.: _____ Date: _____

OUTDOOR VRFZ HEAT PUMP SYSTEM FEATURES

- 3-phase, 208/230V
- Modular variable refrigerant flow zoning (VRFZ) systems; smaller capacity units can be piped together to form a single, large-capacity two-pipe system
- Required Twinning Kit allows for easy field piping connection
- Selectable fan static, 0.12 or 0.24"WG external static pressure; factory set to 0"WG
- Maximum Total Refrigerant Piping Length: 3,280'; Maximum Refrigerant Line Length: 541'; Maximum Control Wiring Length: 1,650'
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network (CMCN)
- External finish: Pre-coated Galvanized-steel Sheets with thermoset polyester-resin
- Operating Temperature Range
 - Cooling (Outdoor): 23° ~ 115°F (-5° ~ +46°C) DB
 - Heating (Outdoor): -4° ~ +60°F (-20° ~ +16°C) WB



PUHY-P144TJMU-ABS PUHY-P120TJMU-A-BS



OPTIONAL PARTS

- ☐ Twinning Kit*.....CMY-Y200VBK2
- ☐ T-Branch Joint (≤ 72,000 Btu/h).....CMY-Y102S-G2
- ☐ T-Branch Joint (≤ 144,000 Btu/h).....CMY-Y102L-G2
- ☐ T-Branch Joint (≤ 234,000 Btu/h).....CMY-Y202-G2
- ☐ Header (4-Branch; ≤ 72,000 Btu/h).....CMY-Y104-G
- ☐ Header (8-Branch; ≤ 144,000 Btu/h).....CMY-Y108-G
- ☐ Header (10-Branch; ≤ 234,000 Btu/h).....CMY-Y1010-G

* Twinning Kit is necessary to combine the refrigerant flows of the modules and is included in the outdoor unit set.

Specifications		System	Module 1	Module 2
Unit Type		PUHY-P264TSJMU-A-BS	PUHY-P144TJMU-A-BS	PUHY-P120TJMU-A-BS
Nominal Cooling Capacity	Btu/h	264,000	144,000	120,000
Nominal Heating Capacity	Btu/h	295,000	160,000	135,000
External Dimensions (H x W x D)	In. / mm	Refer to Module Data	65 x 68-15/16 x 29-15/16 / 1,650 x 1,750 x 760	65 x 68-15/16 x 29-15/16 / 1,650 x 1,750 x 760
Net Weight	Lbs. / kg	1,258 / 570	629 / 285	629 / 285
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data**	208 / 230V, 3-phase, 60Hz**	
Cooling Power Input	kW	22.99	Refer to System Data	
Heating Power Input	kW	24.19		
Cooling Current (208/230V)	R.L.A.	70.9 / 64.1		
Heating Current (208/230V)	R.L.A.	74.6 / 67.4	Refer to System Data	
Minimum Circuit Ampacity (MCA)**	A	Refer to Module Data**	59 / 54**	49 / 46**
Recommended Fuse/Breaker Size**	A	Refer to Module Data**	60**	50**
Maximum Fuse Size**	A	Refer to Module Data**	90 / 80**	70 / 60**
Piping Diameter			Refer to System Data	
From Twinning Kit to Indoor Units (Brazed) (In. / mm)	Liquid (High Pressure)	3/4 / 19.05		
	Gas (Low Pressure)	1-3/8 / 34.93		
From Modules to Twinning Kit (Brazed) (In. / mm)	Liquid (High Pressure)	Refer to Module Data	1/2 / 12.7	1/2 / 12.7
	Gas (Low Pressure)		1-1/8 / 28.58	7/8 / 22.2
Indoor Unit	Total Capacity	50 to 130% of ODUs	Refer to System Data	
	Model / Quantity	P06 ~ P96 / 2 to 50		
Sound Pressure Levels	dB(A)	63.5	61.0	60.0
Fan		Refer to Module Data		
Type x Quantity			Propeller Fan x 2	Propeller Fan x 2
Airflow Rate	CFM		12,010	12,010
Direct-drive Inverter Motor Output	kW		0.92 + 0.92	0.92 + 0.92
Compressor Operating Range		7% to 100%	Refer to System Data	
Compressor Type x Quantity		Refer to Module Data	Inverter-driven Scroll Hermetic x 1	Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW		9.5	8.1
Compressor Crankcase Heater	kW		0.045	0.045
Refrigerant		Refer to Module Data	R410A	
Lubricant			MEL32	
High-pressure Protection Device		Refer to Module Data	601 psi / 4.15 MPa	601 psi / 4.15 MPa
Compressor / Fan Protection Device			Overheat Protection / Thermal Switch	Overheat Protection / Thermal Switch
Inverter Protection Device			Overheat / Overcurrent Protection	Overheat / Overcurrent Protection

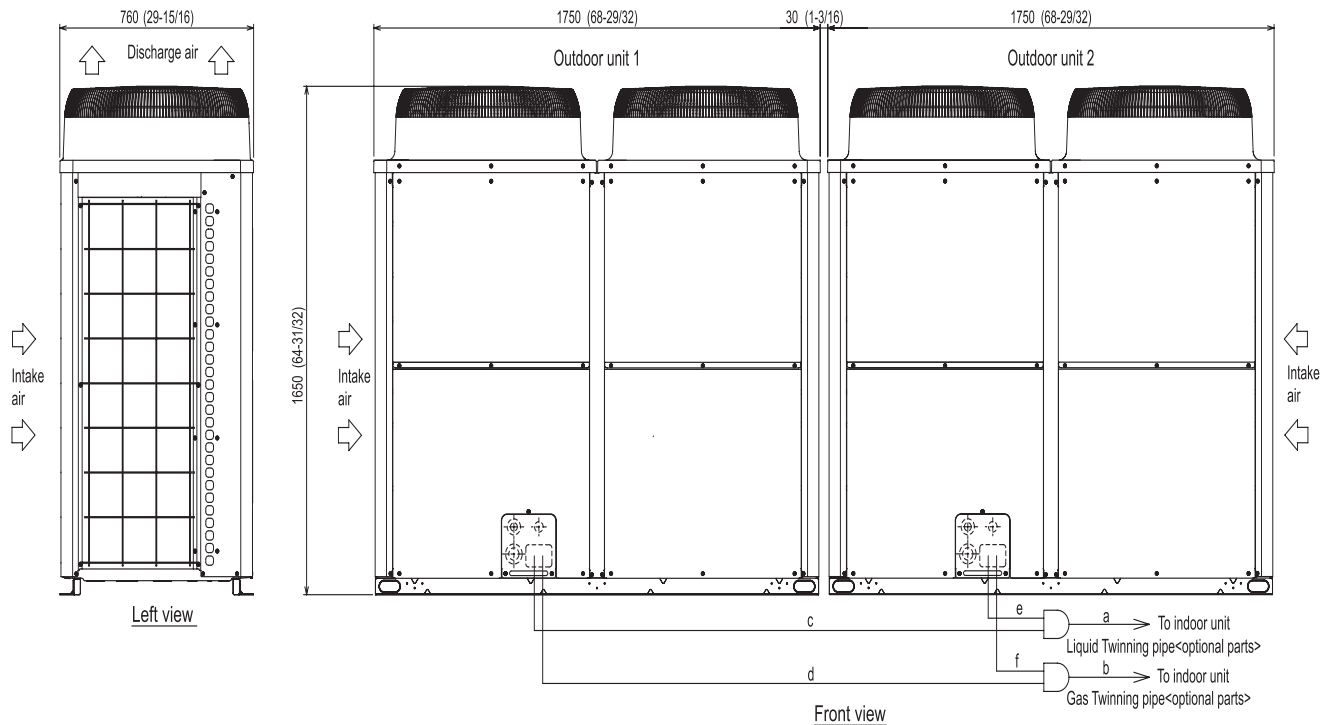
Blue Fin Anti-corrosion Protection: Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants; ≥1μm thick; Salt Spray Test Method - no unusual rust development to 960 hours.

** Each individual module requires a separate electrical connection. Reference electrical data for each individual module.

SEACOAST PROTECTION

- External Panel Base, External Front Panel, Pillar: Alloyed galvanized-steel sheets with thermoset polyester-resin coating on internal and external surfaces
- Compressor Cover: Galvanized-aluminum sheets with thermoset polyester-resin coating on internal and external surfaces
- Electrical Parts Box: Galvanized-aluminum sheets with thermoset polyester-resin coating on external surface
- Fan Motor Support: Galvanized-steel sheets with thermoset polyester-resin coating on internal and external surfaces
- Printed Circuit Board: Epoxy resin with polyurethane-coating on external surface

Outdoor Unit: PUHY-P264TSJMU-A-BS – DIMENSIONS



Twinning pipe connection size

Package unit name	PUHY-P240TSJMU-A(-BS)	PUHY-P264TSJMU-A(-BS)	PUHY-P288TSJMU-A(-BS)
Component unit name	Outdoor unit 1	PUHY-P120TJMU-A(-BS)	PUHY-P144TJMU-A(-BS)
	Outdoor unit 2	PUHY-P120TJMU-A(-BS)	PUHY-P144TJMU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-Y100VBK2	CMY-Y200VBK2	
Indoor unit-Twinning pipe	Liquid a	ø15.88(5/8)	ø19.05(3/4)
	Gas b	ø28.58(1-1/8)	ø34.93(1-3/8)

	Unit model	Liquid c or e	Gas d or f
		P120 ø12.7(1/2)	P144 ø22.2(7/8)
Twinning pipe-Outdoor unit	P144	ø12.7(1/2)	ø28.58(1-1/8)

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 (sections "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).

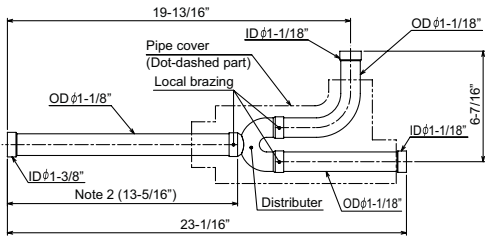
4. Only use the Twinning pipe by Mitsubishi (optional parts).

Unit : mm(in.)

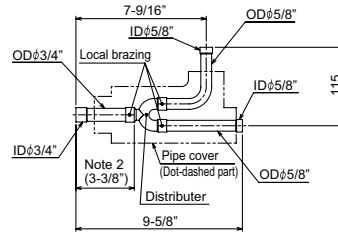
CMY-Y200VBK2

in.

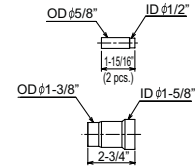
For Gas pipe:



For Liquid pipe:

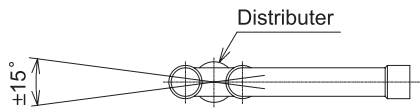


<Deformed pipe(Accessory)>



ID: Inner Diameter OD: Outer Diameter

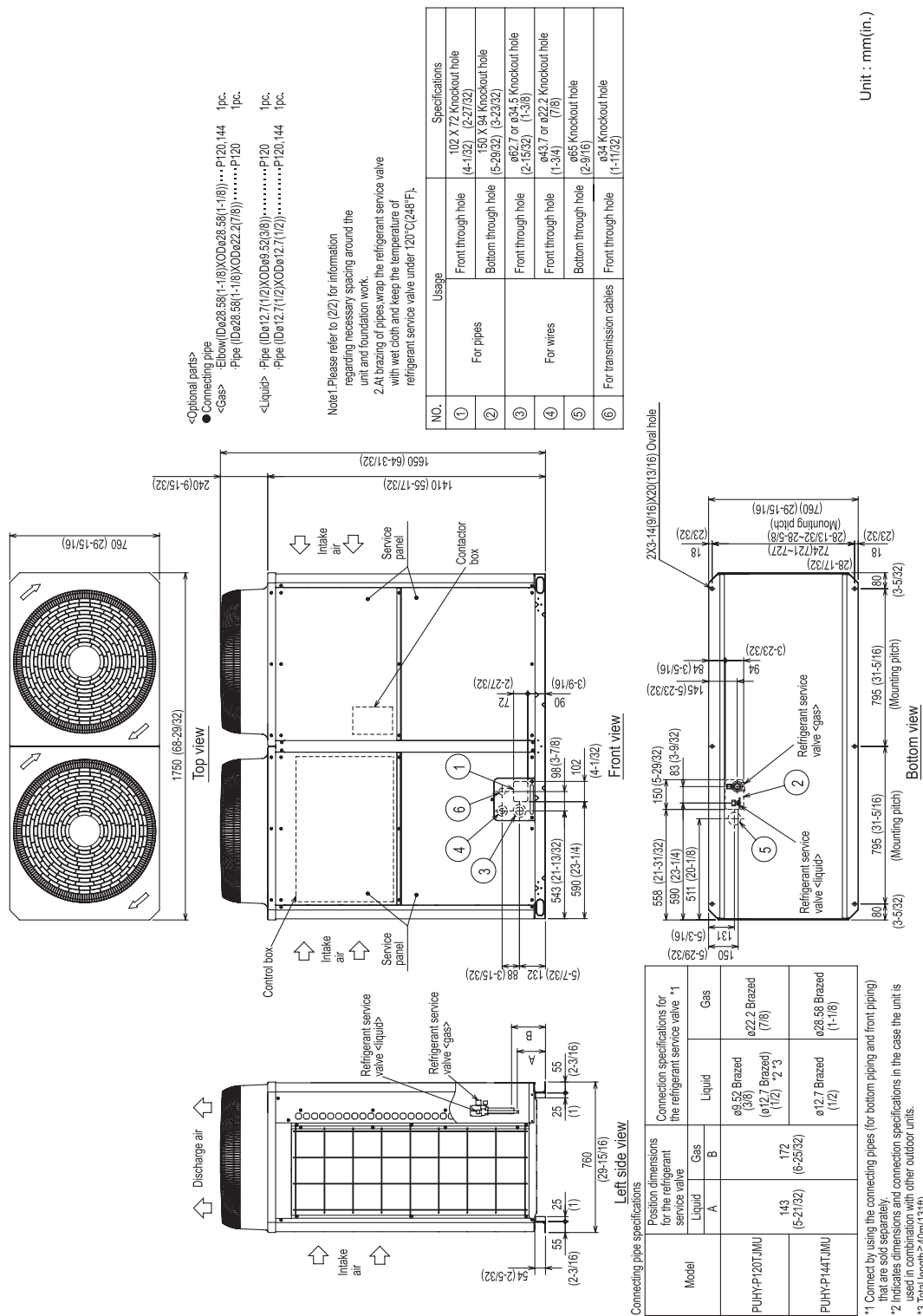
Note 1. Reference the attitude angle of the branch pipe below the fig.



The angle of the branch pipe for high pressure is within $\pm 15^\circ$ against the horizontal plane.

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

Modules 1 & 2: PUHY-P144TJMU-A-BS & PUHY-P120TJMU-A-BS – DIMENSIONS



Certificate Number FM33568

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of quality warranties for the production of refrigeration and air conditioning equipment.

ISO Authorization System
The ISO 9000 series is a plant authorization system relating to quality warranties as stipulated by the ISO. ISO 9001 certifies quality warranties based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).



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Specifications are subject to change without notice.

Certificate Number EC97J1227

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