CITY MULTI® Model: 22-TON PUHY-P264YSJMU-A

MITSUBISHI ELECTRIC

(Consists of One PUHY-P144YJMU-A, One PUHY-P120YJMU-A and One CMY-Y200VBK2 Twinning Kit)

Job Name: Location:

Drawing Reference: Schedule No.

System No.: Date:

OUTDOOR VRFZ HEAT PUMP SYSTEM FEATURES

- 3-phase, 460V
- Modular variable refrigerant flow zoning (VRFZ) systems; smaller capacity units can be piped together to form a single, large-capacity two-pipe system
- Selectable fan static, 0.12 or 0.24"WG external static pressure; factory set to 0"WG
- Max. Total Refrigerant Line Length: 3,280'; Max. Refrigerant Line Length: 541'; Max. Control Wiring Length: 1,640'
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network
- External finish: Pre-coated Galvanized-steel Sheets
- Operating Temperature Range
  Cooling (Outdoor): 23° ~ 115°F (-5° ~ +46°C) DB
  Heating (Outdoor): -4° ~ +60°F (-20° ~ +16°C) WB



PUHY-P144YJMU-A PUHY-P120YJMU-A

INVERTER

R410A

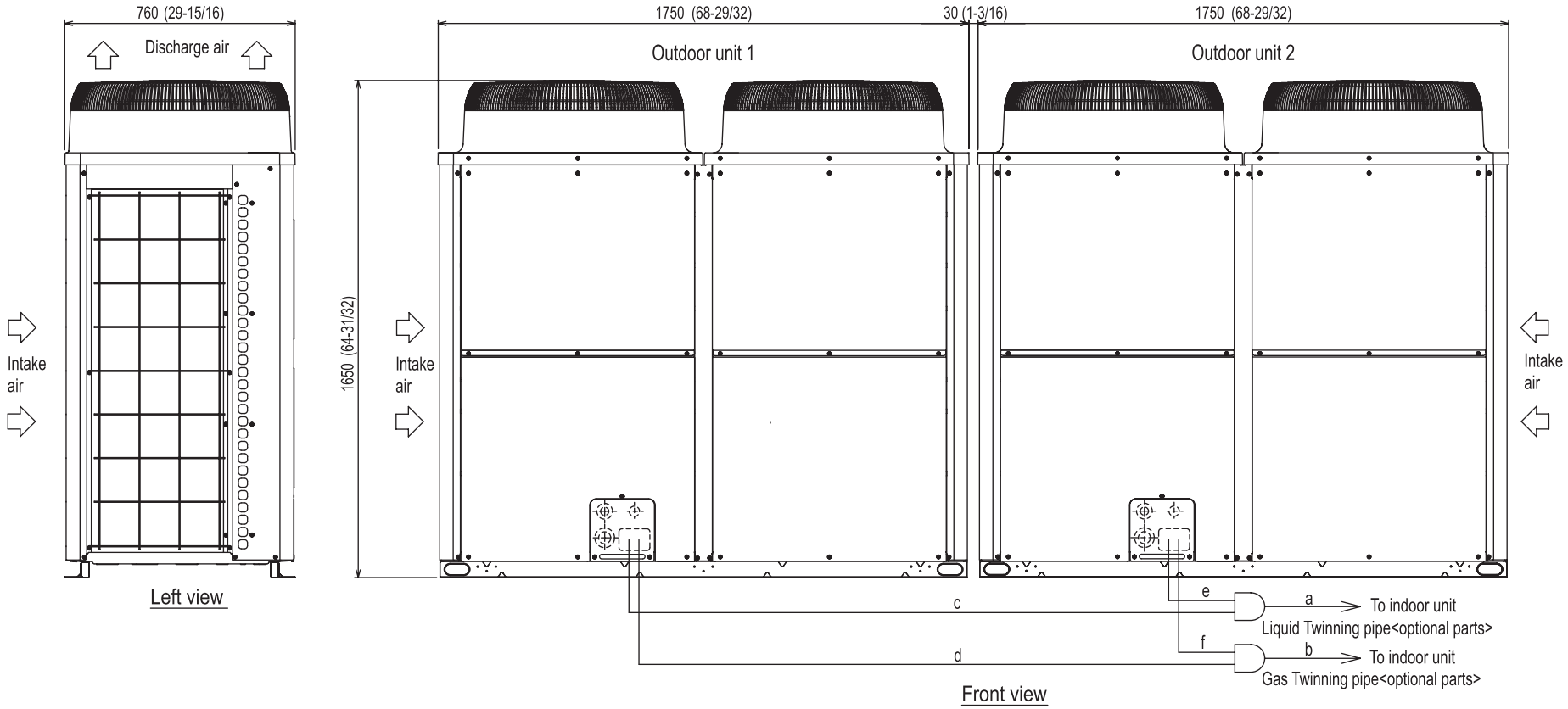
OPTIONAL PARTS

- ☐ Twinning Kit*.....CMY-Y200VBK2
- ☐ T-Branch Joint (≤ 72,000 Btu/h).....CMY-Y102S-G2
- ☐ T-Branch Joint (73,000-144,000 Btu/h).....CMY-Y102L-G2
- ☐ T-Branch Joint (145,000 - 234,000 Btu/h).....CMY-Y202-G2
- ☐ T-Branch Joint (≥ 235,000 Btu/h).....CMY-Y302-G2
- ☐ Header - 4-Branch (Capacity: ≤ 72,000 Btu/h).....CMY-Y104-G
- ☐ Header - 8-Branch (Capacity: ≤ 144,000 Btu/h).....CMY-Y108-G
- ☐ Header - 10-Branch (Capacity: ≤ 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-P264YSJMU-A**	**PUHY-P144YJMU-A**	**PUHY-P120YJMU-A**
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**	1,324 / 600	662 / 300	662 / 300
Electrical Power Requirements	**Voltage, Phase, Hertz**	Refer to Module Data**	460V, 3-phase, 60Hz	
Cooling Power Input	**kW**	22.99	Refer to System Data	
Heating Power Input	**kW**	24.19		
Cooling Current (460V)	**R.L.A.**	32.0	Refer to System Data	
Heating Current (460V)	**R.L.A.**	33.7		
Minimum Circuit Ampacity (MCA)**	**A**	Refer to Module Data**	27**	23**
Recommended Fuse/Breaker Size**	**A**	Refer to Module Data**	30**	25**
Maximum Fuse Size**	**A**	Refer to Module Data**	40**	30**
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 480 hours.				

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



Twinning pipe connection size

Package unit name			PUHY-P240YSJMU-A(-BS)	PUHY-P264YSJMU-A(-BS)	PUHY-P288YSJMU-A(-BS)
Component unit name	Outdoor unit 1		PUHY-P120YJMU-A(-BS)	PUHY-P144YJMU-A(-BS)	PUHY-P144YJMU-A(-BS)
	Outdoor unit 2		PUHY-P120YJMU-A(-BS)	PUHY-P120YJMU-A(-BS)	PUHY-P144YJMU-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	Gas
		c or e	d or f
Twinning pipe~Outdoor unit	P120	ø12.7(1/2)	ø22.2(7/8)
	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).

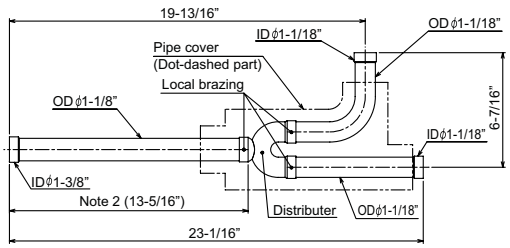
Unit : mm(in.)

Twinning Kit: CMY-Y200VBK2

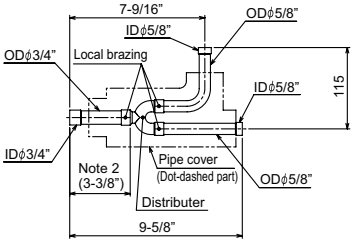
CMY-Y200VBK2

in.

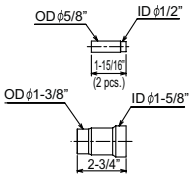
For Gas pipe:



For Liquid pipe:

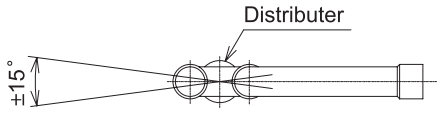


<Deformed pipe(Accessory)>



ID: Inner Diameter OD: Outer Diameter

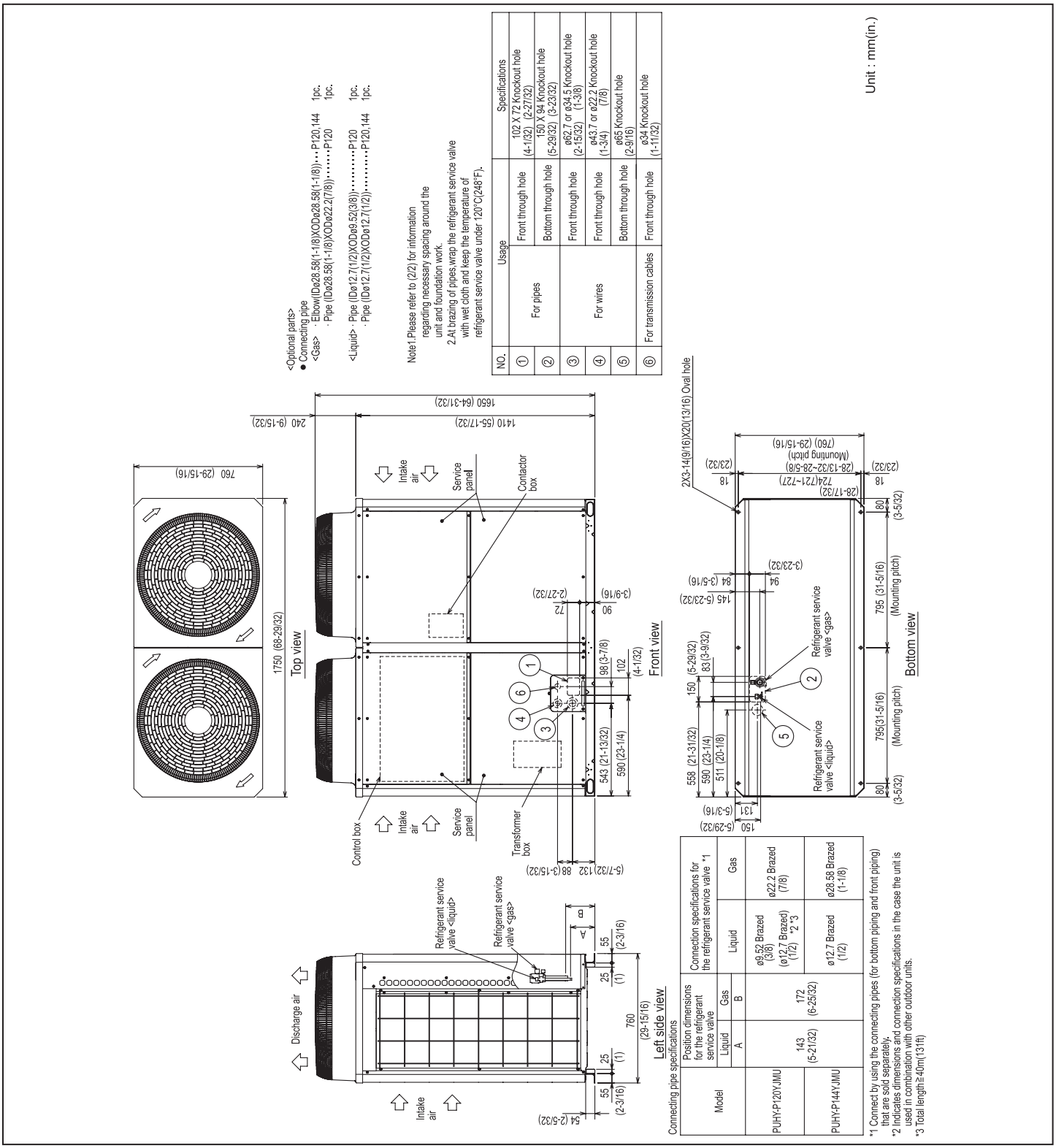
Note 1. Reference the attitude angle of the branch pipe below the fig.



The angle of the branch pipe for hign pressure is within±15° against the horizontal plane.

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

Modules 1 and 2: PUHY-P144YJMU-A & PUHY-P120YJMU-A – 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).

Certificate Number EC97J1227

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Specifications are subject to change without notice.

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