

Job Name:

Schedule Reference:

Date:

OUTDOOR VRF SYSTEM FEATURES

- Innovative flash technology enables tremendous heating capacity at lower outdoor temperatures
- Modular design; two small capacity units can be piped together to form a large capacity system
- Compact size
- Inverter-driven (variable speed) scroll compressor
- Reduced defrost time

OPTIONAL PARTS

- ☐ Twinning Kit*.....CMY-Y100CBK3
- ☐ T-Branch Joint ($\leq 72,000$ Btu/h).....CMY-Y102SS-G2
- ☐ T-Branch Joint ($\leq 144,000$ Btu/h).....CMY-Y102LS-G2
- ☐ T-Branch Joint ($\leq 234,000$ Btu/h).....CMY-Y202S-G2
- ☐ Header (4-Branch; $\leq 72,000$ Btu/h).....CMY-Y104C-G
- ☐ Header (8-Branch; $\leq 144,000$ Btu/h).....CMY-Y108C-G
- ☐ Header (10-Branch; $\leq 234,000$ Btu/h).....CMY-Y1010C-G

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



PUHY-HP72TJMU-A (-BS) PUHY-HP72TJMU-A (-BS)

UNIT OPTION

- ☐ Standard Model.....PUHY-HP144TSJMU-A
- ☐ Sea Coast (BS) Model.....PUHY-HP144TSJMU-A-BS

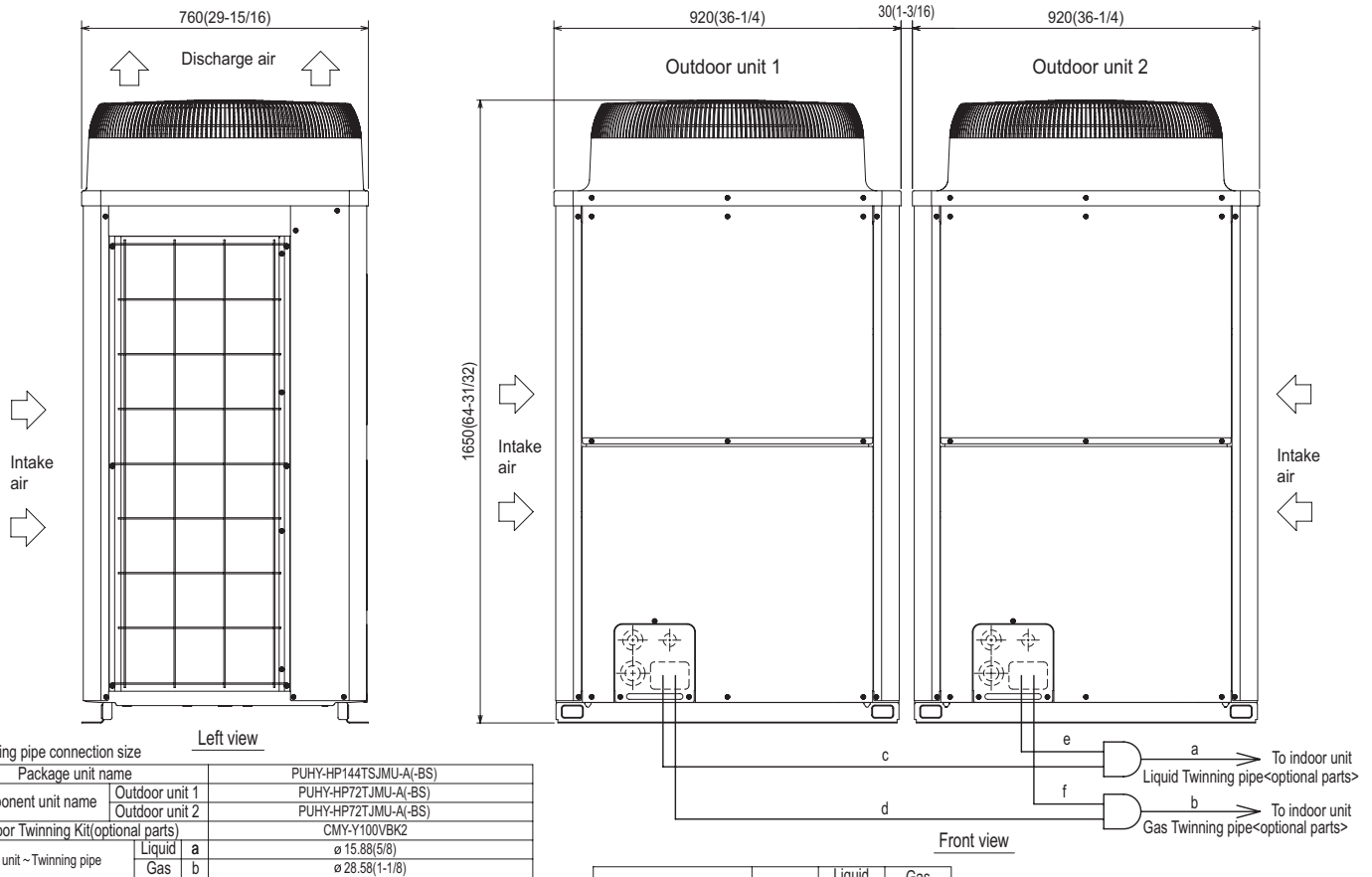
Specifications			System	Module 1	Module 2
Unit Type			PUHY-HP144TSJMU-A-BS	PUHY-HP72TJMU-A (-BS)	PUHY-HP72TJMU-A (-BS)
Nominal Cooling (208/230V)	Capacity	Btu/h	144,000	72,000	72,000
	Power Input	kW	11.54	Refer to System Data	
	Current	A	35.5 / 32.1		
Nominal Heating (208/230V)	Capacity	Btu/h	160,000	80,000	80,000
	Power Input	kW	12.65	Refer to System Data	
	Current	A	39.0 / 35.2		
Operating Temperature Range		Cooling (Outdoor)	Refer to Module Data	23° ~ 109°F (-5° ~ +43°C) DB	
		Heating (Outdoor)		-13° ~ +60°F (-25° ~ +15.5°C) WB	
External Dimensions (H x W x D)		In. / mm	Refer to Module Data	65 x 36-1/4 x 29-15/16 / 1,650 x 920 x 760	65 x 36-1/4 x 29-15/16 / 1,650 x 920 x 760
Net Weight		Lbs. / kg	994 / 450	497 / 225	497 / 225
External finish			Refer to Module Data	Pre-coated Galvanized-steel Sheets with thermoset polyester-resin	
Electrical Power Requirements		Voltage, Phase, Hertz	Refer to Module Data**	208 / 230V, 3-phase, 60Hz**	
Minimum Circuit Ampacity (MCA)**		A	Refer to Module Data**	59 / 54**	59 / 54**
Recommended Fuse/Breaker Size**		A	Refer to Module Data**	60 / 60**	60 / 60**
Maximum Fuse Size**		A	Refer to Module Data**	100 / 90**	100 /90**
Piping Diameter				Refer to System Data	
From Twinning Kit to Indoor Units (Brazed) (In. / mm)	Liquid (High Pressure)		5/8 / 15.88		
	Gas (Low Pressure)		1-1/8 / 28.58		
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)			3/4 / 19.05	3/4 / 19.05
Indoor Unit	Total Capacity		50 to 130% of ODUs	Refer to System Data	
	Model / Quantity		P06 ~ P96 / 1 to 31		
Sound Pressure Levels		dB(A)	59.0	56.0	56.0
Fan					
Type x Quantity			Refer to Module Data	Propeller Fan x 1	Propeller Fan x 1
Airflow Rate		CFM		6,180	6,180
Compressor Operating Range			Cooling: 15% to 100%; Heating: 8% 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		5.3	5.3
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

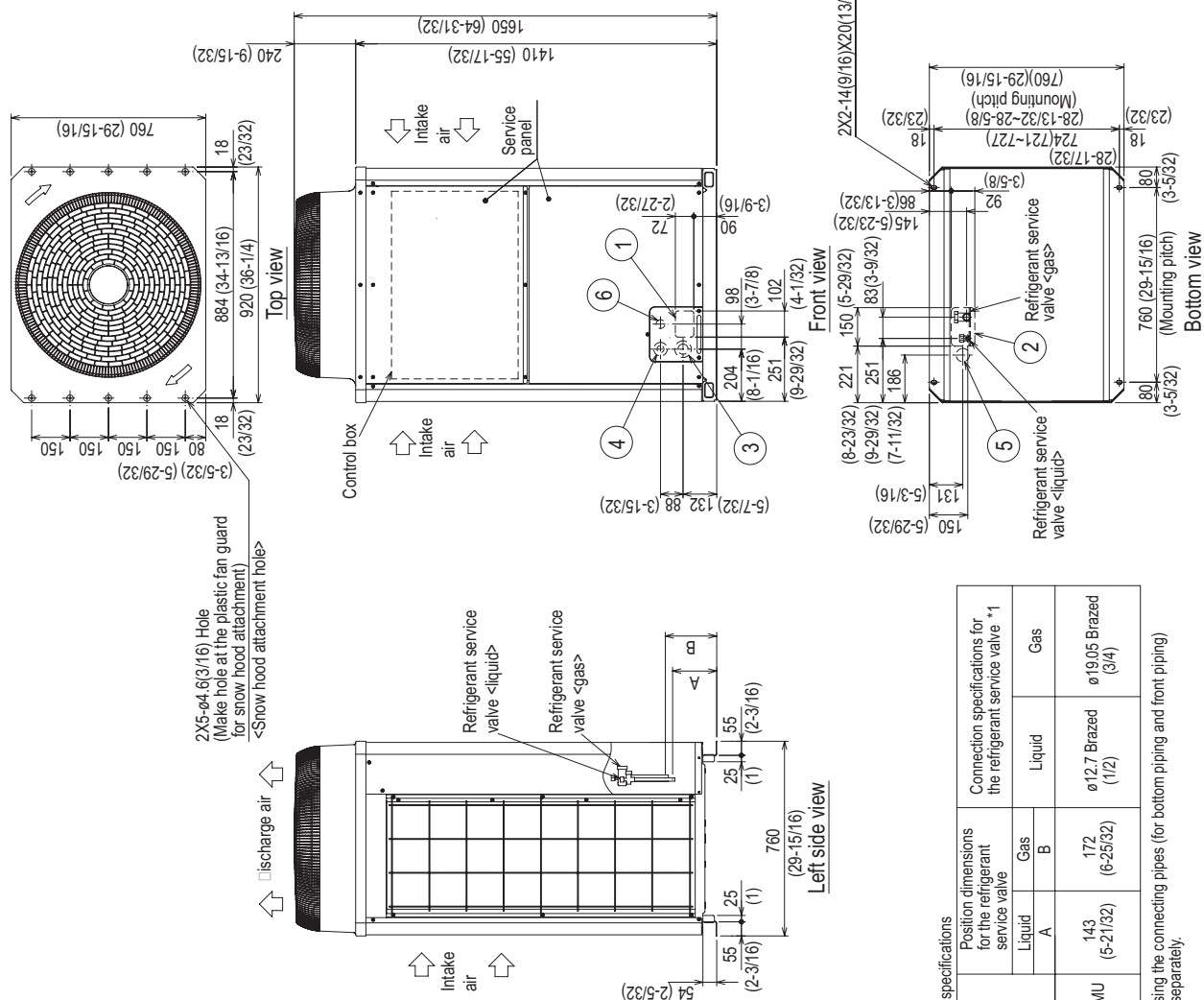
Outdoor Unit: PUHY-HP144TSJMU-A (-BS) – DIMENSIONS



- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
- Note 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.
- Note 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).
- Note 4. Only use the Twinning pipe by Mitsubishi (option parts).

Unit : mm(in)

Modules 1 and 2: PUHY-HP72TJMU-A (-BS) – DIMENSIONS

Unit ☐ mm(in)

NO.	Usage	Specifications
①	Front through hole	102 X 72 Knockout hole (4-1/32) (2-27/32)
②	For pipes Bottom through hole	150 X 92 Knockout hole (5-29/32) (3-5/8)
③	Front through hole	ø62.7 or ø34.5 Knockout hole (2-15/32) (1-3/8)
④	For wires Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
⑤	Bottom through hole	ø52 Knockout hole (2-1/16)
⑥	For transmission cables Front through hole	ø34 Knockout hole (1-11/32)

Note 1. Please refer to the engineering manual for information regarding necessary spacing around the unit and foundation work. Outdoor unit must be mounted at least 12" off the ground or 12" above the highest average snow depth, whichever is greater.

2.A. brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F)

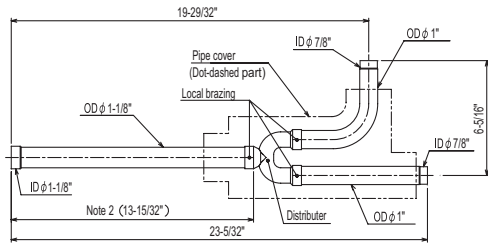
Connecting pipe specifications		Position dimensions for the refrigerant service valve		Connection specifications for the refrigerant service valve *1	
Model		Liquid	Gas	Liquid	Gas
		A	B		
PUHY-HP72IMU		143 (5-21/32)	172 (6-25/32)	ø12.7 Brazed (1/2)	ø19.05 Brazed (3/4)

*1 Connect by using the connecting pipes (for bottom piping and front piping) that are sold separately.

Twinning Kit: CMY-Y100CBK3

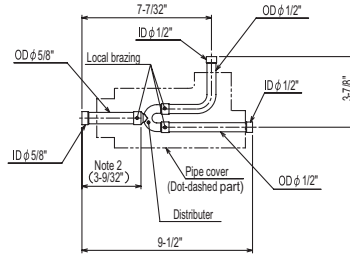
CMY-Y100CBK3

For Gas pipe:

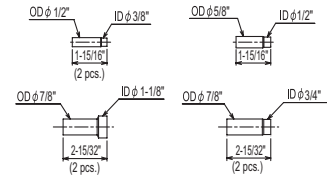


ID: Inner Diameter OD: Outer Diameter

For Liquid pipe:



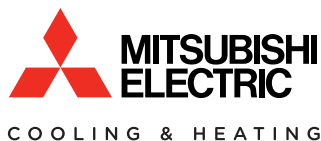
Ref.: CMY_Y100VBK2_EXD_EUDB_SI
in.
<Reducer(Accessory)>



Notes:



Intertek



1340 Satellite Boulevard
Suwanee, GA 30024
Tele: 678-376-2900 • Fax: 800-889-9904
Toll Free: 800-433-4822
www.mehvac.com

FORM# PUHY-HP144TSJMU-A (-BS) - 201401

Specifications are subject to change without notice.
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