

Job Name:

Schedule Reference:

Date:



PUHY-HP72THMU-A

PUHY-HP72THMU-A

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 (≤ 72,000 Btu/h).....CMY-Y102SS-G2
- ☐ T-Branch Joint (≤ 144,000 Btu/h).....CMY-Y102LS-G2
- ☐ T-Branch Joint (≤ 234,000 Btu/h).....CMY-Y202S-G2
- ☐ Header (4-Branch; ≤ 72,000 Btu/h).....CMY-Y104C-G
- ☐ Header (8-Branch; ≤ 144,000 Btu/h).....CMY-Y108C-G
- ☐ Header (10-Branch; ≤ 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.

MODULE SET SPECIFICATIONS

Power Source.....208 / 230V, 3-phase, 60Hz

Capacity

Cooling.....144,000 Btu/h
 Power Input.....12.15 kW
 Current (208 / 230).....37.5 - 33.9 A
 Heating.....160,000 Btu/h
 Power Input.....12.94 kW
 Current (208 / 230).....40.0 - 36.1 A

CITY MULTI Indoor Unit

Total Capacity.....50% - 130% of Outdoor Unit Capacity
 Model / Quantity.....P06-P96 / 1 ~ 22

Sound Level (Cooling/Heating).....59 dB(A)
 64 dB(A) if heating at -5°F (-21°C) outdoor temperature

Operating Temperature Range

Cooling (Outdoor).....23°F ~ 109°F (-5 ~ +43°C) DB
 Heating (Outdoor).....-13°F ~ +60°F (-25 ~ +16°C) WB

PIPING DIAMETER (FROM TWINNING KIT TO INDOOR UNITS)

Liquid (High Pressure).....5/8" / 15.88 mm Braze
 Gas (Low Pressure).....1-1/8" / 28.58 mm Braze

**OUTDOOR UNITS 1 and 2
(SPECIFICATIONS FOR EACH PUHY-HP72THMU-A UNIT)****Electrical Power Requirements**

Minimum Circuit Ampacity (MCA)*.....53.0 A

Maximum Overcurrent Protection (MOCP) Fuse*.....60 A

* Each unit must be electrically wired separately.

External Finish.....Pre-coated Galvanized Steel Sheets
 Munsell No.: 5Y 8 / 1

External Dimensions

Inches.....65 h x 36-1/4 w x 29-15/16 d

mm.....1,650 h x 920 w x 760 d

Net Weight.....486 lbs. / 220 kg

Piping Diameter (From Outdoor Unit to Twinning Kit)

Liquid (High Pressure).....3/8" / 9.52 mm Braze + Flare

Gas (Low Pressure).....3/4" / 19.05 mm Braze + Flare

Fan

Type x Quantity.....Propeller Fan x 1

Airflow Rate.....7,950 cfm

Motor Output.....0.92 kW

Compressor

Type.....Inverter-driven Scroll Hermetic

Motor Output.....5.3 kW

Case Heater.....0.057 kW

Refrigerant.....R410A

Lubricant.....MEL32

Protection Devices

High Pressure Protection.....601 psi / 4.15 MPa

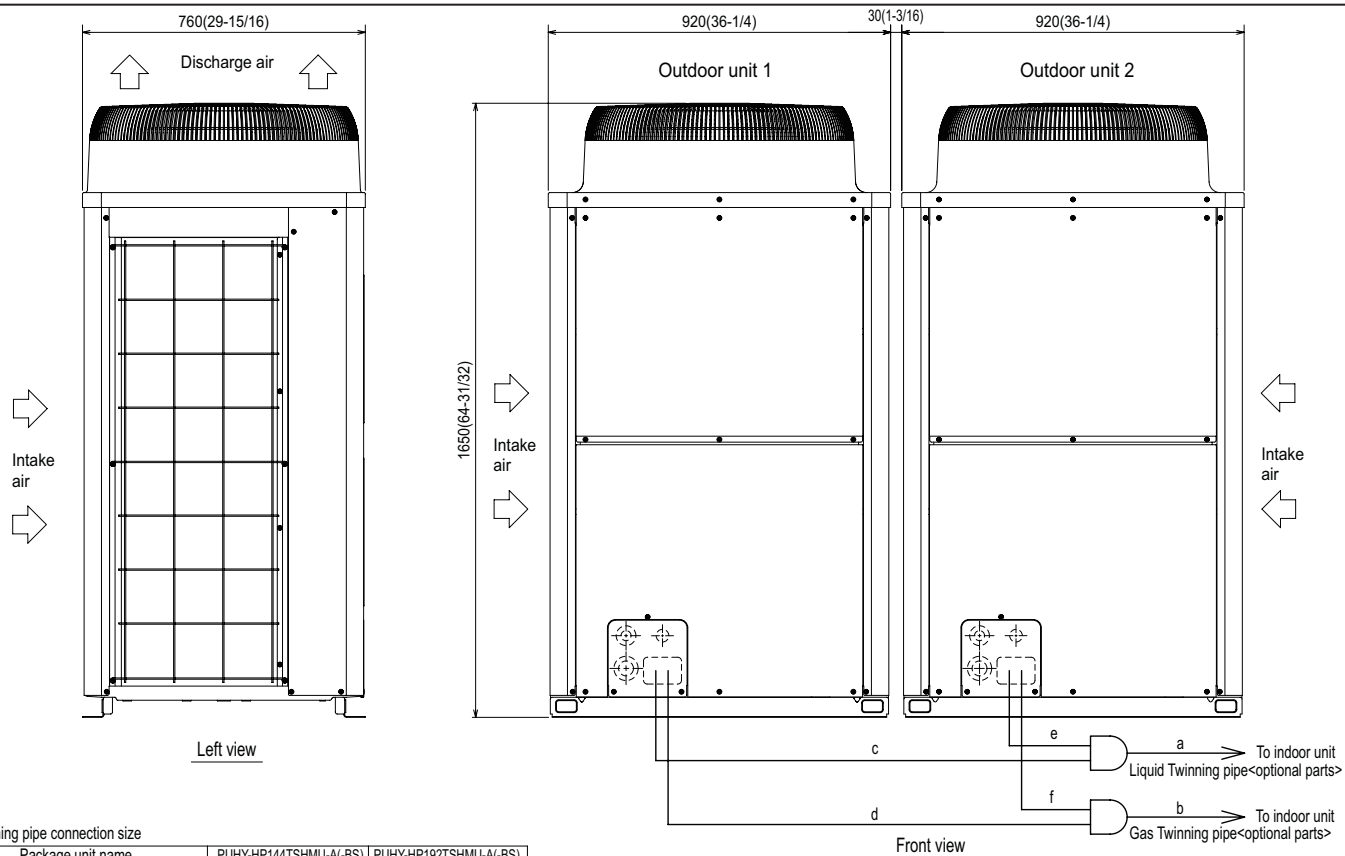
Compressor / Fan.....Discharge Thermo / Overcurrent Protection

Inverter.....Overcurrent / Overheat Protection, Thermal Switch

Anti-corrosion Protection

Blue Fin Treatment applied to condenser coil protects coil from air contaminants.

Outdoor Unit: PUHY-HP144TSHMU-A (-BS) – DIMENSIONS



Twinning pipe connection size

Package unit name		PUHY-HP144TSHMU-A(-BS)	PUHY-HP192TSHMU-A(-BS)
Component unit name	Outdoor unit 1	PUHY-HP72TSHMU-A(-BS)	PUHY-HP96TSHMU-A(-BS)
	Outdoor unit 2	PUHY-HP72TSHMU-A(-BS)	PUHY-HP96TSHMU-A(-BS)
Outdoor Twinning Kit<optional parts>		CMY-Y100VBK2	
Indoor unit ~ Twinning pipe	Liquid	a	ø 15.88(5/8)
	Gas	b	ø 28.58(1-1/8)

	Unit model	Liquid c or e	Gas d or f
Twinning pipe ~ Outdoor unit	P72	ø 9.52(3/8)	19.05(3/4)
	P96	ø 9.52(3/8)	22.2(7/8)

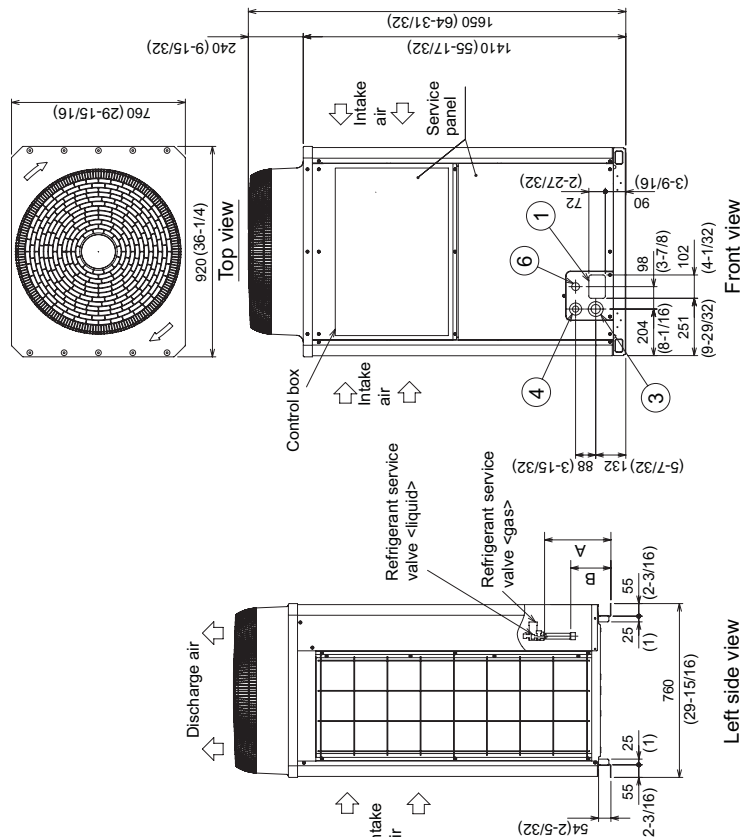
Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

2. Twinning pipes should not be tilted more than 15 degrees from the ground. See the Installation Manual for details.

Unit : mm(in)

Modules 1 and 2: PUHY-HP72THMU-A – DIMENSIONS

Unit : mm(in)

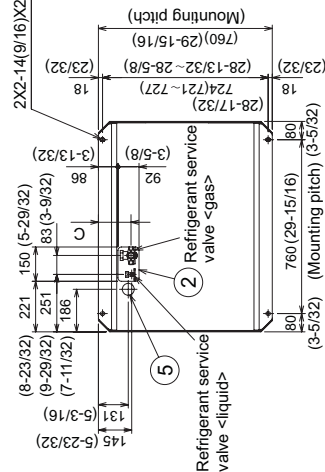


- <Accessories> (Supplied only with the unit listed below)
- Connecting pipe <gas> 1 pc.
 - PUHY-HP72THMU Models Packaged with other accessories
 - Connecting pipe <liquid> 1 pc.
 - PUHY-HP72THMU Models Mounted on the refrigerant service valve
 - Connecting pipe <gas> 1 pc.
 - PUHY-HP72.96THMU Models Packaged with other accessories
 - Packing for connecting pipe <gas> 1 pc.
 (For standalone use)
 - PUHY-HP72.96THMU Models Mounted adjacent to the refrigerant service valve on the gas side

Note. Refer to the Installation Manual for information regarding necessary clearance around the unit and foundation.

NO.	Usage	Specifications
①	Front access hole	102 X 72 Access hole (4-1/32) (2-27/30)
②	Bottom access hole	150 X 92 Access hole (5-29/32) (3-5/8)
③	Front access hole	Ø65 or Ø40 Access hole (2-9/16) (1-19/32)
④	Front access hole	Ø52 or Ø27 Access hole (2-1/16) (1-3/32)
⑤	Bottom access hole	Ø52 Access hole (2-1/16)
⑥	Front access hole	Ø34 Access hole (1-1/32)

2X2-14(9/16)X20(13/16) Oval hole



Connecting pipe specifications

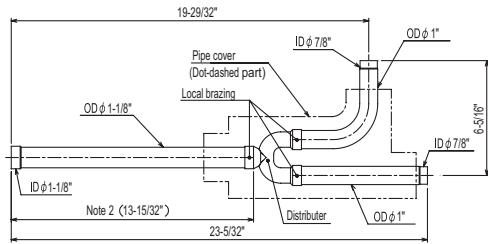
Model	Position dimensions for the refrigerant service valve			Connection specifications for the refrigerant service valve	
	Liquid	Gas	C	Liquid	Gas
PUHY-HP72THMU	290 (11-7/16) (242) ²	161 (6-11/32)	145 (5-23/32)	Multiple unit installation (38)	Ø19.05 Brazed (3/4)
PUHY-HP96THMU	290 (11-7/16) (242) ²	165 (6-1/2)	142 (5-19/32)	Single unit installation (112)	Ø22.2 Brazed (7/8)

*1 Indicates the dimensions for use with the pipe that is supplied.
 *2 Indicates dimensions and connection specifications appropriate to installing the unit as a single unit.

Twinning Kit: CMY-Y100CBK3

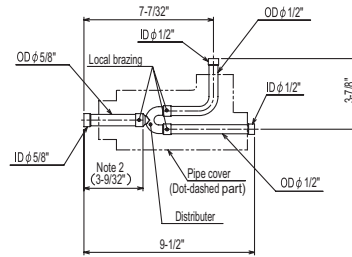
CMY-Y100CBK3

For Gas pipe:

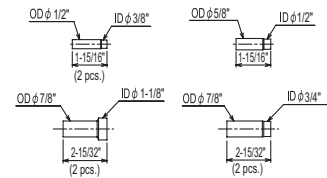


ID: Inner Diameter OD: Outer Diameter

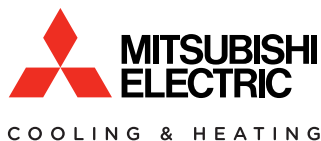
For Liquid pipe:



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



Notes:



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FORM# PUHY-HP144TSHMU-A (-BS) - 201401

Specifications are subject to change without notice.
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