

Job Name:

System Reference:

Date:

FEATURES

- INVERTER-driven compressor
- Air-source, heat pump system
- Long line lengths - for details see Engineering Manual
- Connects to CITY MULTI® indoor units
- Controlled via CITY MULTI® Controls Network

UNIT OPTION

- ☐ Standard Model (PUHY-P400TKA)
- ☐ Sea Coast <BS> Model (PUHY-P400TKA-BS)

ACCESSORIES

- ☐ Joint Kit (for details see Pipe Accessories Submittal)
- ☐ Header Kit (for details see Pipe Accessories Submittal)
- ☐ Low Ambient Kit (for details see Low Ambient Kit Submittal)
- ☐ Snow/Hail Guards (for details see Snow/Hail Guards Submittal)
- ☐ Base Pan Heater Kit (for details see Base Pan Heater Kit Submittal)

SPECIFICATIONS: PUHY-P400TKA (-BS)

Model			PUHY-P400TKA (-BS)
Electrical Power Requirements			3-phase 3-wire 208-220-230 V 50/60 Hz
Cooling Capacity			
*1 (Nominal)		kW	45
*1		kcal/h	40,000
		Btu/h	153,500
Power input		kW	13.55
Current input		A	41.7-39.5-37.7
EER		kW/kW	3.32
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~52.0°C (23~126°F)
Heating Capacity			
*2 (Nominal)		kW	45
*2		kcal/h	40,000
		Btu/h	153,500
Power input		kW	10.92
Current input		A	33.6-31.8-30.4
COP		kW/kW	4.12
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
MCA		A	59.2
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity
	Model/Quantity		P15~P250/1~34
Sound pressure level (measured in anechoic room)		dB(A)	63
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed
Max. Total Refrigerant Line Length		Ft.	3280
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1640
FAN*3	Type x Quantity		Propeller fan x 1
	Air flow rate	m ³ /min	210
		L/s	3,500
		cfm	7,415
	Control, Driving mechanism		Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 1
Compressor	External static press.	Pa (mmH ₂ O)	0 Pa (0 mmH ₂ O)
	Type		MITSUBISHI ELECTRIC Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	10.8
	Case heater	kW	-
	Lubricant		MEL32

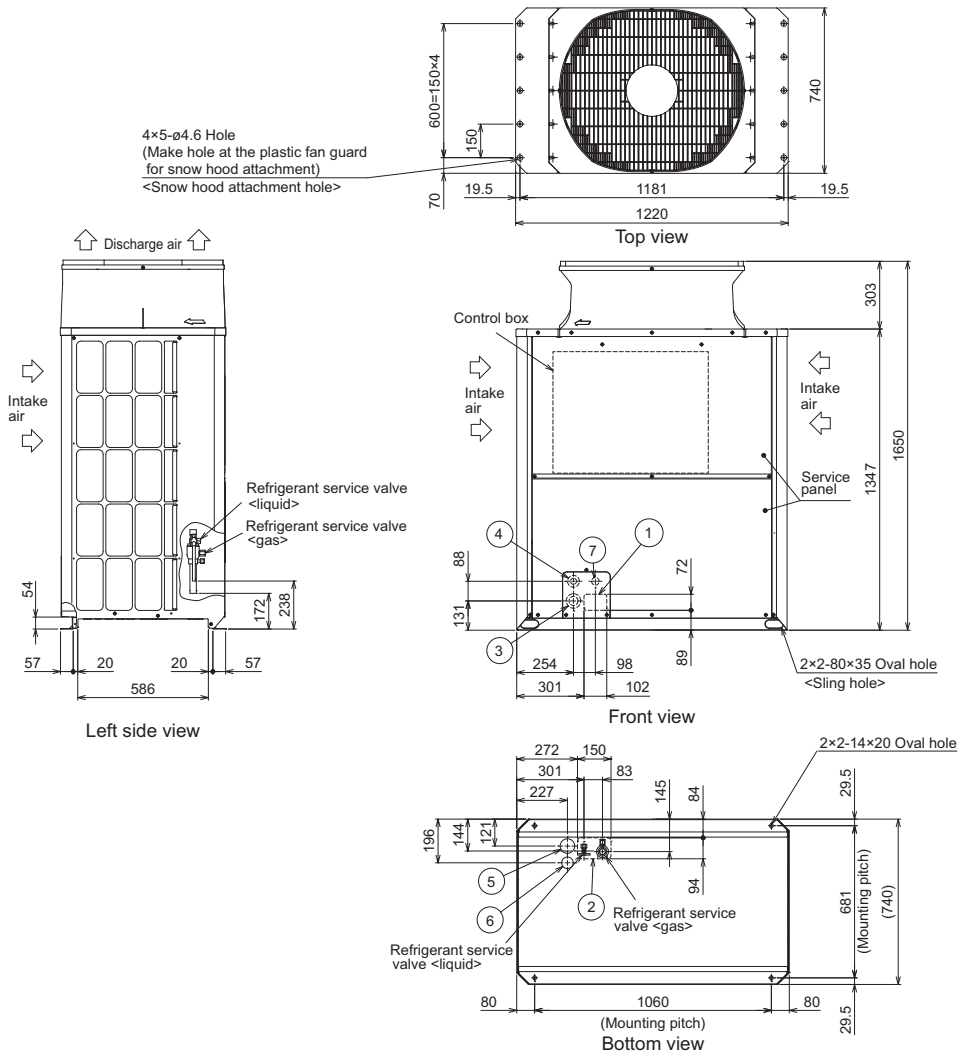
SPECIFICATIONS: PUHY-P400TKA (-BS)

Model		PUHY-P400TKA (-BS)
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type)<MUNSELL 5Y 8/1 or similar>
External dimension H x W x D	mm in.	1,650 x 1,220 x 740 65 x 48-1/16 x 29-3/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection
	Compressor	-
	Fan motor	-
Refrigerant	Type x original charge	R410A x 11.5 kg (26 lbs)
	Control	LEV and HIC circuit
Net weight	kg (lbs)	244 (538)
Heat exchanger		Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)

Notes:

- Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.),
Outdoor: 35°C D.B. (95°F D.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°C D.B. (68°F D.B.),
Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- ESP option is available (30Pa, 60Pa/3.1mmH₂O, 6.1mmH₂O).

DIMENSIONS: PUHY-P400TKA (-BS)



<Accessories>

- Connecting pipe
 - <Gas> Elbow (ID28.58×OD28.58)·····P350,P400,P450 1pc.
 - <Liquid> Pipe (ID15.88×OD15.88)·····P350,P400,P450 1pc.
 - Pipe reducer (ID15.88×OD12.7)·····P350,P400 1pc.

Unit: mm

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P350TKA(-BS)	ø12.7 Braze	ø28.58 Braze	ø15.88	ø28.58
PUHY-P400TKA(-BS)	ø12.7 Braze (ø15.88 Braze) *2			
PUHY-P450TKA(-BS)	ø15.88 Braze			

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

*2 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.

NO.	Usage	Specifications
①	For pipes	Front through hole 102 × 72 Knockout hole
②		Bottom through hole 150 × 94 Knockout hole
③	For wires	Front through hole ø65 or ø40 Knockout hole
④		Front through hole ø52 or ø27 Knockout hole
⑤		Bottom through hole ø65 Knockout hole
⑥		Bottom through hole ø52 Knockout hole
⑦	For transmission cables	Front through hole ø34 Knockout hole

 **MITSUBISHI
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Specifications are subject to change without notice.

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