

OUTDOOR UNIT

ZUBADAN (Heat Pump) Series(Y)

PUHY-HP Y(S)HM-A(-BS)

► Specifications



Set name	PUHY-HP200YHM-A(-BS)		PUHY-HP250YHM-A(-BS)		PUHY-HP400YSHM-A(-BS)		PUHY-HP500YSHM-A(-BS)	
Power source					3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	#1 kW	22.4		28.0		45.0		56.0
	#1 BTU/h	76,400		95,500		153,500		191,100
	Power input kW	6.40		9.06		12.86		18.16
	Current input A	10.8-10.2-9.8		15.2-14.5-14.0		21.7-20.6-19.8		30.6-29.1-28.0
	COP	kW/kW	3.50		3.09		3.49	
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)					
	Outdoor	D.B.	- 5 ~ 43°C (23 ~ 109°F)					
Heating capacity (Nominal)	#2 kW	25.0		31.5		50.0		63.0
	#2 BTU/h	85,300		107,500		170,600		215,000
	Power input kW	6.52		8.94		13.35		18.04
	Current input A	11.0-10.4-10.0		15.0-14.3-13.8		22.5-21.4-20.6		30.4-28.9-27.8
	COP	kW/kW	3.83		3.52		3.74	
Temp. range of heating	Indoor	D.B.	15 ~ 27°C (59 ~ 81°F)					
	Outdoor	W.B.	-25 ~ 15.5°C (-13 ~ 60°F)					
Indoor unit connectable	Total capacity	50 ~ 130% of outdoor unit capacity						
	Model/Quantity	P15-P250 / 1-17	P15 - P250 / 1 - 21	P15 - P250 / 1 - 34	P15 - P250 / 1 - 43			
Sound pressure level (measured in anechoic room)	dB<A>	56	57	59	60			
Diameter of liquid pipe	mm(in.)	ø12.7(ø1/2) Braze	ø12.7 (ø1/2) Braze	ø15.88 (ø5/8) Braze	ø15.88 (ø5/8) Braze			
	Gas pipe	mm(in.)	ø19.05(ø3/4) Braze	ø22.2 (ø7/8) Braze	ø28.58 (ø1-1/8) Braze	ø28.58 (ø1-1/8) Braze		
Model	PUHP200YHM-A(-BS) PUHP250YHM-A(-BS) PUHP400YSHM-A(-BS) PUHP500YSHM-A(-BS)							
External finish	Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets <MUNSELL 5Y 8/1 or similar>			
External dimension H X W X D	mm	1,710 (without legs 1,650) X 920 X 780	1,710 (without legs 1,650) X 920 X 780	1,710 (without legs 1,650) X 920 X 780	1,710 (without legs 1,650) X 920 X 780	1,710 (without legs 1,650) X 920 X 780	1,710 (without legs 1,650) X 920 X 780	1,710 (without legs 1,650) X 920 X 780
	in.	67-3/8 (without legs 65) X 36-1/4 X 29-15/16	67-3/8 (without legs 65) X 36-1/4 X 29-15/16	67-3/8 (without legs 65) X 36-1/4 X 29-15/16	67-3/8 (without legs 65) X 36-1/4 X 29-15/16	67-3/8 (without legs 65) X 36-1/4 X 29-15/16	67-3/8 (without legs 65) X 36-1/4 X 29-15/16	67-3/8 (without legs 65) X 36-1/4 X 29-15/16
Net weight	kg(lbs)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)	220 (486)
Heat exchanger	Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube			
Compressor	Type	Inverter scroll hermetic compressor				Inverter scroll hermetic compressor		
	Starting method	Inverter				Inverter		
FAN	#3 Motor output kW	5.3		5.3	5.3	6.7		6.7
	m³/min	225		225	225	225		225
	Air flow rate L/s	3,750		3,750	3,750	3,750		3,750
	cfm	7,945		7,945	7,945	7,945		7,945
	Type X Quantity	Propeller fan X 1	Propeller fan X 1	Propeller fan X 1	Propeller fan X 1	Propeller fan X 1	Propeller fan X 1	Propeller fan X 1
Protection devices	Motor output kW	0.92 X 1	0.92 X 1	0.92 X 1	0.92 X 1	0.92 X 1	0.92 X 1	0.92 X 1
	External static press.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection				Over-heat protection, Over-current protection		
	Compressor	Over-heat protection				Over-heat protection		
Refrigerant	Type X Original charge	R410A x 9.0kg (20lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)	R410A x 9.0kg (20 lbs)
Pipe between unit distributor	Liquid pipe mm(in.)	-	-	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare
	Gas pipe mm(in.)	-	-	ø19.05 (ø3/4) Braze	ø19.05 (ø3/4) Braze	ø22.2 (ø7/8) Braze	ø22.2 (ø7/8) Braze	ø22.2 (ø7/8) Braze
Optional parts	Joint : CMY-Y102S-G2 Header : CMY-Y104/108/1010-G Joint : CMY-Y102S-L-G2, CMY-Y02S-G2 Header : CMY-Y104/108/1010-G							

Note:

- #1 Nominal cooling conditions
Indoor 27°C (81°F) DB/19°C (66°F) WB, Outdoor 35°C (95°F) DB
Pipe length 7.5 m (24-9/16 ft), Level difference 0 m (0 ft)
- #2 Nominal heating conditions
Indoor 20°C (68°F) DB, Outdoor 7°C (45°F) DB/6°C (43°F) WB
Pipe length 7.5 m (24-9/16 ft), Level difference 0 m (0 ft)
- #3 External static pressure option is available (30Pa, 60Pa/3.1mmH₂O, 6.1mmH₂O)

HEAT SOURCE UNIT

WY (Heat Pump) Series

PQHY-P YHM-A

► Specifications



		POHY-P200YHM-A		POHY-P250YHM-A		POHY-P300YHM-A	
Capacity	#1 kW	22.4	25.0	28.0	31.5	33.5	37.5
	#2 BTU/h	76,400	85,300	95,500	107,500	114,300	128,000
Power source		3-phase 4-wire 380-400-415V 50/60Hz					
Power input	kW	3.92	4.12	5.45	5.80	7.36	8.15
Current	A	6.6/6.2/6.0	6.9/6.6/6.3	9.2/8.7/8.4	9.7/9.3/8.9	12.4/11.8/11.3	13.7/13.0/12.5
COP	kW/kW	5.71	6.06	5.13	5.43	4.55	4.60
Compressor	Type	Inverter scroll hermetic compressor					
	Motor output kW	4.6		6.3		7.4	
Heat exchanger	Type	Plate type					
	Water volume in plate ℓ	5.0		5.0		5.0	
Circulating water	Volume m ³ /h	5.76		5.76		5.76	
	cfm	3.4		3.4		3.4	
Refrigerant / Lubricant	Pressure drop kPa	17		17		17	
		R410A / MEL32		R410A / MEL32		R410A / MEL32	
External finish		Acrylic painted steel plate					
External dimension H x W x D	mm(in.)	1,160 (45-11/16) (1,100 (43-5/16) without legs) X 880 (34-11/16) X 550 (21-11/16)		1,160 (45-11/16) (1,100 (43-5/16) without legs) X 880 (34-11/16) X 550 (21-11/16)		1,160 (45-11/16) (1,100 (43-5/16) without legs) X 880 (34-11/16) X 550 (21-11/16)	
Protection devices	High pressure protection	4.15 MPa		4.15MPa		4.15MPa	
	Compressor Inverter	Over-heat protection Over-heat protection, Over-current protection					
Refrigerant piping diameter	Liquid pipe mm(in.)	ø9.52 (ø3/8) Braze		ø9.52 (ø3/8) Braze (ø12.7 (ø1/2) Braze total length→30m (26ft))		ø9.52 (ø3/8) Braze (ø12.7 (ø1/2) Braze total length→40m (131ft))	
	Gas pipe mm(in.)	ø19.05 (ø3/4) Braze		ø22.2 (ø7/8) Braze		ø22.2 (ø7/8) Braze	
Indoor unit	Total capacity	50-130 % of heat source unit capacity		50-130 % of heat source unit capacity		50-130 % of heat source unit capacity	
	Model / Quantity	P15-P250 / 1-17		P15-P250 / 1-21		P15-P250 / 1-26	
Sound pressure level (measured in anechoic room)	dB<A>	47		49		50	
Net weight	kg(lbs)	195 (430)		195 (430)		195 (430)	
Operating temperature range		Indoor: 15.0°CWB-24.0°CWB (59-75°FWB) Circulating water: 10.0°C-45.0°C (50-113°F)	Indoor: 15.0°CWB-27.0°CWB (59-81°FWB) Circulating water: 10.0°C-45.0°C (50-113°F)	Indoor: 15.0°CWB-24.0°CWB (59-75°FWB) Circulating water: 10.0°C-45.0°C (50-113°F)	Indoor: 15.0°CWB-27.0°CWB (59-81°FWB) Circulating water: 10.0°C-45.0°C (50-113°F)	Indoor: 15.0°CWB-24.0°CWB (59-75°FWB) Circulating water: 10.0°C-45.0°C (50-113°F)	Indoor: 15.0°CWB-27.0°CWB (59-81°FWB) Circulating water: 10.0°C-45.0°C (50-113°F)

Note:

- #1 Nominal cooling conditions(subject to JIS B8615-1)
Indoor 27°CDB/19°CWB(81°FDB/66°FWB), Water temperature 30°C(86°F)
Pipe length 7.5m(24-9/16ft.), Level difference:0m(0ft.)
- #2 Nominal heating conditions(subject to JIS B8615-1)
Indoor 20°CDB(68°FDB), Water temperature 20°C(68°F)
Pipe length 7.5m(24-9/16ft.), Level difference:0m(0ft.)



Outdoor unit

Outdoor Unit

