

OUTDOOR UNIT S (Heat Pump) series Cooling or Heating

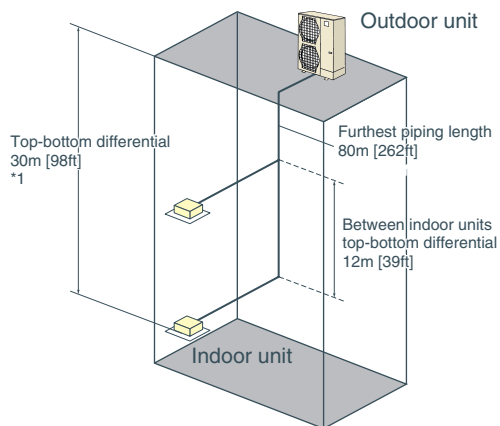
PUMY-P VHMB(-BS) PUMY-P YHMB(-BS)

Building Comfort solutions in the home or small office

The CITY MULTI S-Series for homes and small offices offers all the features and benefits of our large commercial CITY MULTI S-Series. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively. A maximum of 12 CITY MULTI indoor units can be connected with up to 130% connected capacity, depending on diversity.



[4-6HP]



Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	120[393]
Maximum allowable length.....	80[262]
Farthest indoor from first branch.....	30 [98]

Vertical differentials between units	Maximum meters [Feet]
Indoor/outdoor (outdoor higher).....	30 [98]
Indoor/outdoor (outdoor lower).....	20 [65]
Indoor/indoor.....	12 [39]

*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 20m [65ft].

OUTDOOR UNIT

S Series

PUMY-P VHMB(-BS)



► Specifications

		PUMY-P100VHMB(-BS)	PUMY-P125VHMB(-BS)	PUMY-P140VHMB(-BS)
Power source		1-phase 220-230-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity (Nominal)	※1 kW	11.2	14.0	15.5
	※1 BTU/h	38,200	47,800	52,900
	Power input kW	3.34	4.32	5.35
	Current input A	15.4-14.8-14.1, 15.4	20.0-19.1-18.3, 20.0	24.7-23.6-22.7, 24.7
	COP (kW/kW)	3.35	3.24	2.9
Temp. range of cooling	Indoor W.B.	15 ~ 24°C (59 ~ 75°F)		
	Outdoor D.B.	- 5 ~ 46°C (23 ~ 115°F)		
		10 to 46°C D.B. (50 to 115°F D.B.) : in case of connecting PKFY-P15 / P20 / P25 type indoor unit.		
Heating capacity (Nominal)	※2 kW	12.5	16.0	18.0
	※2 BTU/h	42,700	54,600	61,400
	Power input kW	3.66	4.33	5.58
	Current input A	16.9-16.2-15.5, 16.9	20.0-19.1-18.3, 20.0	25.8-24.7-23.6, 25.8
	COP (kW/kW)	3.42	3.69	3.23
Temp. range of heating	Indoor temp. D.B.	15 ~ 27°C (59 ~ 81°F)		
	Outdoor temp. W.B.	-15 ~ 15°C (5 ~ 59°F)		
Indoor unit connectable	Total capacity	50 ~ 130% of outdoor unit capacity		
	Model/Quantity	P15 ~ P125 / 1 ~ 8	P15 ~ P140 / 1 ~ 10	P15 ~ P140 / 1 ~ 12
Sound pressure level (measured in anechoic room)	dB<A>	49 / 51	50 / 52	51 / 53
Diameter of refrigerant pipe	Liquid (High press.) mm(in.)	ø9.52 (ø3/8)	ø9.52 (ø3/8)	ø9.52 (ø3/8)
	Gas (Low press.) mm(in.)	ø15.88 (ø5/8)	ø15.88 (ø5/8)	ø15.88 (ø5/8)
External finish		Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>		
External dimension H × W × D	mm (in.)	1,350 × 950 × 330 (53-3/16 × 37-7/16 × 13)	1,350 × 950 × 330 (53-3/16 × 37-7/16 × 13)	1,350 × 950 × 330 (53-3/16 × 37-7/16 × 13)
Net weight	kg (lb)	127 (280 lb)	127 (280 lb)	127 (280 lb)
Heat exchanger		Salt-resistant cross fin & copper tube		
Compressor	Type	Inverter scroll hermetic comp.		
	Starting method	Inverter		
	Motor output kW	2.2	2.9	3.3
FAN	Air flow rate	m ³ /min	100	100
		L/s	1,667	1,667
		cfm	3,532	3,532
	Type × Quantity	Propeller fan × 2		
	Motor output kW	0.06 × 2		
Protection	High pressure protection	High pressure sensor, High pressure switch 4.15 MPa		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		
	Compressor	Discharge thermo protection, Over-current protection		
Refrigerant	Type × Original charge	R410A × 8.5kg (19 lb)	R410A × 8.5kg (19 lb)	R410A × 8.5kg (19 lb)

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)

OUTDOOR UNIT

S Series

PUMY-P YHMB(-BS)



► Specifications

		PUMY-P100YHMB(-BS)	PUMY-P125YHMB(-BS)	PUMY-P140YHMB(-BS)
Power source		3-phase, 380-400-415V, 50Hz		
Cooling capacity (Nominal)	※1 kW	11.2	14.0	15.5
	※1 BTU/h	38,200	47,800	52,900
	Power input kW	3.30	4.27	5.32
	Current input A	5.28-5.02-4.84	6.83-6.49-6.26	8.51-8.09-7.80
	COP (kW/kW)	3.39	3.28	2.91
Temp. range of cooling	Indoor W.B.	15 ~ 24°C (59~75°F)		
	Outdoor D.B.	- 5 ~ 46°C (23~115°F)		
		10 to 46°C D.B.(50 to 115°F D.B.) : in case of connecting PKFY-P15/P20/P25 type indoor unit.		
Heating capacity (Nominal)	※2 kW	12.5	16.0	18.0
	※2 BTU/h	42,700	54,600	61,400
	Power input kW	3.63	4.29	5.32
	Current input A	5.81-5.52-5.32	6.87-6.52-6.29	8.51-8.09-7.80
	COP (kW/kW)	3.44	3.73	3.38
Temp. range of heating	Indoor temp. D.B.	15~27°C (59~81°F)		
	Outdoor temp. W.B.	-15~15°C (5~59°F)		
Indoor unit connectable	Total capacity	50 ~ 130% of outdoor unit capacity		
	Model/Quantity	P15 ~ P125 / 1 ~ 8	P15 ~ P140 / 1 ~ 10	P15 ~ P140 / 1 ~ 12
Sound pressure level (measured in anechoic room)	dB<A>	49/51	50/52	51/53
Diameter of refrigerant pipe	Liquid mm(in.)	ø9.52 (ø3/8) Flare		
	Gas mm(in.)	ø15.88 (ø5/8) Flare		
External finish		Galvanized steel sheet<MUNSELL 3Y 7.8/1.1>		
External dimension H X W X D mm (in.)		1,350 X 950 X 330 (53-3/16 X 37-7/16 X 13)		
Net weight kg (lb)		140 (309)		
Heat exchanger		Salt-resistant cross fin & copper tube		
Compressor	Type	Inverter scroll hermetic compressor		
	Maker	Mitsubishi Electric Corporation		
	Starting method	Inverter		
	Motor output kW	1.9	2.4	2.9
	Case heater kW	-	-	-
	Lubricant	FV508		
FAN	Air flow rate m ³ /min	100		
	External static press.	0 Pa		
	Type X Quantity	Propeller fan X 2		
	Control, Driving mechanism	DC-control, Direct-driven by motor		
Motor output kW	0.06 x 2			
HIC circuit (HIC: Heat Inter-Changer)		-		
Protection	High pressure protection	High pressure sensor, High pressure switch 4.15 MPa		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		
	Compressor	Discharge thermo protection, Over-current protection		
	Fan motor	Over-heat protection, Voltage protection		
Defrosting method		Auto-defrost mode (Reversed refrigerant circle)		
Refrigerant	Type X Original charge	R410A X 8.5kg (19 lb)		
	Control	LEV circuit		

Note:

※1 Nominal cooling conditions
Indoor 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor 35°CDB (95°FDB)
Pipe length 7.5m (24-9/16ft), Level difference 0m (0ft)

※2 Nominal heating conditions
Indoor 20°CDB (68°FDB), Outdoor 7°CDB/6°CWB
Pipe length 7.5m (24-9/16ft), Level difference 0 m (0 ft)

Outdoor unit