PUMY-SP R410A Inverter Heat Pump

(12.5-15.5kW)

Multi-Split Units



The **PUMY-SP** Inverter Heat Pump system allows up to 10 indoor units to be connected to one single fan outdoor unit. Compatibility with City Multi, Mr Slim and the stylish M Series indoor units makes this an extremely flexible, economic, and energy-efficient solution for multi-room applications. With a slimline design and operation modes relevant to built-up areas, these systems are ideal for high-end residential and smaller commercial applications in city centres, or areas with limited outdoor space.

Key Features & Benefits

- Low height, small footprint, long pipe-runs and wall-hanging capability provides flexibility of install
- Compatible with M Series, Mr Slim and City Multi indoor units (M Series & Mr Slim units via branch box or LEV Kit)
- Choice of operation mode: 'silent mode' for noise sensitive areas or 'demand control' for maximum efficiency
- Unique fan capability provides 30 Pascals of static pressure as standard

R410A

PUMY-SP - OUTDOOR UNITS		PUMY-SP112VKM2	PUMY-SP112YKM2	PUMY-SP125VKM2	PUMY-SP125YKM2	PUMY-SP140VKM2	PUMY-SP140YKM2
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed*1	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10
CAPACITY (kW)	Heating (nominal)	14.0	14.0	16.0	16.0	16.5	16.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5
	Heating (UK)	14.0	14.0	16.0	16.0	16.5	16.5
	Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2
COP / EER (nominal)		3.83 / 2.80	3.83 / 2.80	3.71 / 2.74	3.71 / 2.74	3.78 / 2.90	3.78 / 2.90
MAX AIRFLOW (m³/min)		77	77	83	83	83	83
SOUND PRESSURE LEVEL (dBA)		52	52	53	53	54	54
SOUND POWER LEVEL (dBA)	Cooling	72	72	73	73	74	74
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981	1050 x 330+40 x 981
WEIGHT (kg)		93	94	93	94	93	94
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Three	Single	Three	Single	Three
POWER INPUT (kW)	Heating/Cooling (nominal)	3.66 / 4.46	3.66 / 4.46	4.31 / 5.11	4.31 / 5.11	4.36 / 5.34	4.36 / 5.34
	Heating/Cooling (UK)	4.69 / 2.08	4.69 / 2.08	5.52 / 2.38	5.52 / 2.38	5.58 / 2.49	5.58 / 2.49
STARTING CURRENT (A)		14	7	14	7	14	7
RUNNING CURRENT (A)	Heating/Cooling [MAX]	16.24 / 19.79 [30.5]	5.57 / 6.78 [13.0]	19.13 / 22.68 [30.5]	6.55 / 7.77 [13.0]	19.35 / 23.70 [30.5]	6.63 / 8.12 [13.0]
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16
PIPE SIZE MM (in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
TOTAL PIPING LENGTH (M)	Branch box / Mixed*1	120	120	120	120	120	120
FURTHEST PIPING LENGTH (M)	(with no branch boxes)	80 (70)	80 (70)	80 (70)	80 (70)	80 (70)	80 (70)
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LEN	GTH (m)	55	55	55	55	55	55
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max*2	50m max ⁺ 2	50m max*2	50m max*2	50m max*2	50m max*2
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12	12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (T)	R410A (GWP 2088)	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT () R410A (GWP 2088)	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79	9.0 / 18.79

Notes: *1 Branch box - only using branch boxes (PAC-MK) on the system. Mixed - using a mix of branch boxes (PAC-MK) and City Multi indoor units on the same system. *2 40m max if outdoor installed below. 30m if mixed system. SCOP / SEER available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 6 to EN14825 standard.

PAC-MK - BRANCH BOX		PAC-MK53BC	
NUMBER OF CONNECTABLE IND	OOR UNITS	5	
COMPATIBLE INDOOR UNITS		M Series, Mr Slim	
WEIGHT (kg)		7.9	
DIMENSIONS (mm)	Width x Depth x Height	450 x 280 x 170	
POWER SUPPLY TO BRANCH BOX*1	From outdoor unit	3 core + earth	
	Separate supply	220-240v, 50Hz / Single Phase	
	Separate supply fuse rating	6	
	(BS88) - HRC (A)	0	
POWER SUPPLY TO INDOOR UNITS	From branch box	3 core + earth	

Note: *1 Either option is available for power supply from outdoor unit OR from a separate supply.

PAC-LV - LEV KIT INTERFA	PAC-LV11M		
NUMBER OF CONNECTABLE INDO	1		
COMPATIBLE INDOOR UNITS	M Series		
CAPACITY INDEX OF INDOOR UNITS		15 to 50	
WEIGHT (kg)		3.5	
DIMENSIONS (mm)	Width x Depth x Height	355 x 142 x 138	
ELECTRICAL SUPPLY		220-240v, 50Hz / Single Phase	
FUSE RATING (BS88) - HRC (A)		6	

Note: The indoor unit connected to the PAC-LV11 cannot be grouped with other City Mutti indoor units. Group control with other M Series indoor units + PAC-LV11 is possible via ME controller or system controller only. Group control is not possible via an MA controller, IT terminal or wireless remote controller. ME control functions energy management, charge apportioning, interlock and free contact are not available.

Accessories

Outdoor Units

CMY-Y62-G-E

Branch pipe (2 branches) for PUMY

System Control Units

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB = Premium finish)

MAC-334IF-E

Interface for M-NET, MA remote controller (PAR-41MAA / PAR-CT01MAA), on/off input and run/fault output

MAC-497IF-E

Interface for MA remote controller (PAR-41MAA / PAR-CT01MAA)

MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

PAR-41MAA

Standard wired remote controller

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

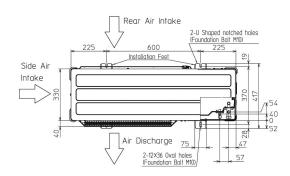
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Retail control and input / output interface

Product Dimensions

PUMY-SP112/125/140VKM2/YKM2

Upper View



PUMY-SP R410A Inverter Heat Pump

Rear View Side View Front View Side View