

PUMY-P R410A

Inverter Heat Pump

(12.5-33.5kW)

Multi-Split Units



The **PUMY-P** Inverter Heat Pump system allows up to 30 indoor units to be connected to a single 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

- 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-P OUTDOOR UNITS		PUMY-P112VKM6	PUMY-P112YKM5	PUMY-P125VKM6	PUMY-P125YKM5	PUMY-P140VKM6	PUMY-P140YKM5	PUMY-P200YKM3	PUMY-P250YBM2	PUMY-P300YBM2
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed*1	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 11	12 / 30	12 / 30
CAPACITY (kW)	Heating (nominal)	14.0	14.0	16.0	16.0	18.0	18.0	25.0	31.5	37.5
	Cooling (nominal)	12.5	12.5	14.0	14.0	15.5	15.5	22.4	28.0	33.5
	Heating (UK)	14.0	14.0	16.0	16.0	18.0	18.0	25.0	31.5	37.5
	Cooling (UK)	9.8	9.8	11.0	11.0	12.2	12.2	17.6	22.1	26.4
COP / EER (NOMINAL)		4.61 / 4.48	4.61 / 4.48	4.28 / 4.05	4.28 / 4.05	4.03 / 3.43	4.03 / 3.43	4.28 / 3.70	4.25 / 3.41	4.11 / 3.31
MAX AIRFLOW (m³/min)		110	110	110	110	110	110	141	183	183
SOUND PRESSURE LEVEL (dBA)		49	49	50	50	51	51	57	55	57
SOUND POWER LEVEL (dBA)	Cooling	69	69	70	70	71	71	76	73	75
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 460+45 x 1662	1050 x 460+45 x 1662
WEIGHT (kg)		123	125	123	125	123	125	141	192	192
ELECTRICAL SUPPLY		220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Single	Three	Single	Three	Single	Three	Three	Three	Three
POWER INPUT (kW)	Heating/Cooling (nominal)	3.49 / 4.34	3.49 / 4.34	4.06 / 5.00	4.06 / 5.00	4.63 / 5.17	4.63 / 5.17	5.85 / 7.18	7.91 / 8.21	9.69 / 11.96
	Heating/Cooling (UK)	4.48 / 2.08	4.48 / 2.08	5.22 / 2.39	5.22 / 2.39	5.95 / 2.47	5.95 / 2.47	7.52 / 3.43	9.81 / 4.56	12.02 / 6.65
STARTING CURRENT (A)		14	7	14	7	14	7	7	7	7
RUNNING CURRENT (A)	Heating/Cooling [MAX]	15.41 / 19.16 [29.5]	5.93 / 7.37 [13.0]	17.93 / 22.08 [29.5]	6.52 / 8.02 [13.0]	20.44 / 22.83 [29.5]	7.04 / 7.86 [13.0]	9.08 / 11.15 [19.0]	12.28 / 12.74 [28.4]	15.04 / 18.56 [31.74]
FUSE RATING (BS88) - HRC (A)		1 x 32	1 x 16	1 x 32	1 x 16	1 x 32	1 x 16	1 x 20	1 x 32	1 x 32
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")	19.05 (3/4")	22.4 (7/8")	22.4 (7/8")
	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")	9.52 (3/8") ^{*2}	9.52 (3/8")	12.7 (1/2")
TOTAL PIPING LENGTH (m)	Branch box / Mixed*1	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 300 (240)	150 / 150 (150)	240 / 310 (310)	240 / 310 (310)
FURTHEST PIPING LENGTH (m)	(With no branch boxes)	80 (85)	80 (85)	80 (85)	80 (85)	80 (85)	80 (85)	80	80 / 85 ^{*4}	80 / 85 ^{*4}
BETWEEN BRANCH BOXES AND OUTDOOR UNIT - LENGTH (m)		55	55	55	55	55	55	55	95 / 80 ^{*5}	95 / 80 ^{*5}
BETWEEN BRANCH BOXES AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max ^{*3}	50m max ^{*3}	50m max ^{*3}	50m max ^{*3}	50m max ^{*3}	50m max ^{*3}	50m max ^{*3}	50m max ^{*3}	50m max ^{*3}
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)		12	12	12	12	12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R410A (GWP 2088)		4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	4.8 / 10.0	7.3 / 15.2	9.3 / 19.4	9.3 / 19.4
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R410A (GWP 2088)		13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.7 / 28.6	13.5 / 28.2	22.4 / 46.8	22.4 / 46.8

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. Figure in brackets - when using 2 or 3 branch boxes.
^{*2} 12.7mm (1/2") if furthest length ≥ 60m. ^{*3} 3.40m max if outdoor installed below. ^{*4} Using mixed method. ^{*5} Using mixed method and one branch box.
 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 INDOOR 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 (BS88) - HRC (A)	6
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 INTERFACE		PAC-LV11M
NUMBER OF CONNECTABLE INDOOR UNITS		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 Multi 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

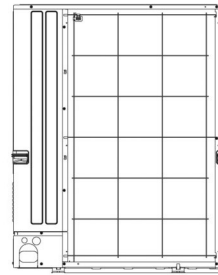
MELCORETAIL MINI

Retail control and input / output interface

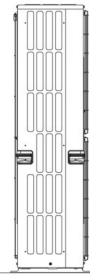
Product Dimensions

PUMY-P112/125/140VKM6/YKM5, PUMY-P200YKM3

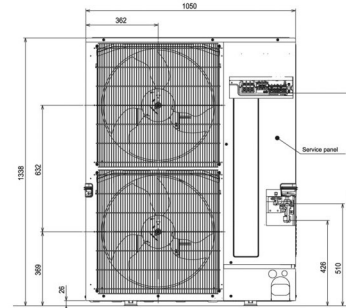
Rear View



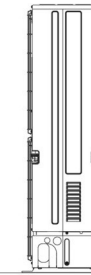
Left Side View



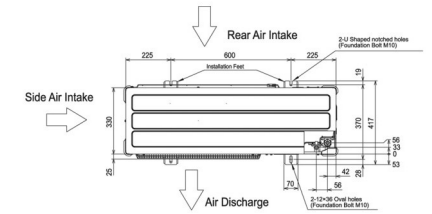
Front View



Right Side View



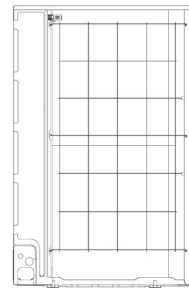
Upper View



Product Dimensions

PUMY-P250/300YBM2

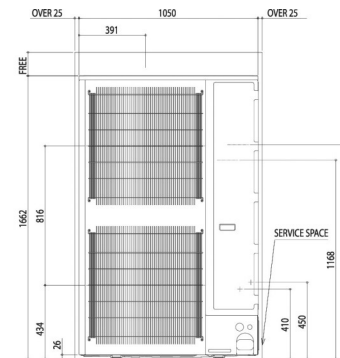
Rear View



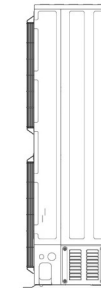
Left Side View



Front View



Right Side View



Upper View

