

# PUMY-SP R410A Inverter Heat Pump

(12.5-15.5kW)

## Multi-Split Units

The **PUMY-SP** series allow up to 10 indoor units to be connected to a single outdoor unit, using the standard City Multi branch pipework system or via branch boxes and/or LEV kits to connect M Series or Mr Slim indoor units. This makes it an economic and efficient answer for multi-room applications, whilst also offering space saving benefits.

### Key Features

- The condensing unit is extremely slimline which allows easy location and application of the system
- Connect stylish M Series wall mounted and floor mounted indoor units to the system via the LEV kit interface PAC-LV11M
- Connect M Series and Mr Slim indoor units via the PAC-MK-BC boxes alongside VRF indoor units to the same system



PUMY-SP - OUTDOOR UNITS		PUMY-SP112VKM	PUMY-SP112YKM	PUMY-SP125VKM	PUMY-SP125YKM	PUMY-SP140VKM	PUMY-SP140YKM
NUMBER OF CONNECTABLE INDOOR UNITS	Branch box / Mixed <sup>1</sup>	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)	13.9	13.9	15.8	15.8	16.3	16.3
	Cooling (UK)	10.0	10.0	11.2	11.2	12.4	12.4
COP / EER (nominal)		4.42 / 4.03	4.42 / 4.03	4.10 / 3.65	4.10 / 3.65	4.10 / 3.30	4.10 / 3.30
SCOP / SEER <sup>3</sup>		-	-	-	-	-	-
MAX AIRFLOW (m <sup>3</sup> /min)	Heating / Cooling	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)	3.17 / 3.10	3.17 / 3.10	3.90 / 3.84	3.90 / 3.84	4.02 / 4.70	4.02 / 4.70
	Heating/Cooling (UK)	4.18 / 1.61	4.18 / 1.61	5.15 / 2.00	5.15 / 2.00	5.31 / 2.44	5.31 / 2.44
STARTING CURRENT (A)		14	7	14	7	14	7
RUNNING CURRENT (A)	Heating/Cooling [MAX]	13.48 / 13.18 [30.5]	4.82 / 4.71 [13.0]	16.58 / 16.33 [30.5]	5.93 / 5.83 [13.0]	17.09 / 19.98 [30.5]	6.11 / 7.14 [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 <sup>1</sup>	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 BOX AND OUTDOOR UNIT - LENGTH (m)		55	55	55	55	55	55
BETWEEN BRANCH BOX AND INDOOR UNIT - LENGTH (m)		25	25	25	25	25	25
BETWEEN INDOOR AND OUTDOOR UNIT - HEIGHT (m)		50m max <sup>2</sup>	50m max <sup>2</sup>	50m max <sup>2</sup>	50m max <sup>2</sup>	50m max <sup>2</sup>	50m max <sup>2</sup>
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT (m)	Branch box / Mixed <sup>1</sup>	12	12	12	12	12	12
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> 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 <sub>2</sub> EQUIVALENT (T)	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:** <sup>1</sup> 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. <sup>2</sup> 40m max if outdoor installed below. 30m if mixed system. <sup>3</sup> 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-MK34BC	PAC-MK54BC	PAC-LV - LEV KIT INTERFACE	PAC-LV11M
NUMBER OF CONNECTABLE INDOOR UNITS		3	5	NUMBER OF CONNECTABLE INDOOR UNITS	1
COMPATIBLE INDOOR UNITS		M Series, Mr Slim	M Series, Mr Slim	COMPATIBLE INDOOR UNITS	M Series
WEIGHT (kg)		7.2	7.9	CAPACITY INDEX OF INDOOR UNITS	15 to 50
DIMENSIONS (mm)	Width x Depth x Height	450 x 280 x 170	450 x 280 x 170	WEIGHT (kg)	3.5
POWER SUPPLY TO BRANCH BOX <sup>1</sup>	From outdoor unit	3 core + earth	3 core + earth	DIMENSIONS (mm)	Width x Depth x Height
	Separate supply	220-240v, 50Hz / Single Phase	220-240v, 50Hz / Single Phase	ELECTRICAL SUPPLY	355 x 142 x 138
	Separate supply fuse rating (BS88) - HRC (A)	6	6	FUSE RATING (BS88) - HRC (A)	220-240v, 50Hz / Single Phase
POWER SUPPLY TO INDOOR UNITS	From branch box	3 core + earth	3 core + earth		6

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

**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.