

Y Series Single Fan

(12.5-15.5kW)

Mini VRF Heat Pump Outdoor Unit

CITY MULTI

VRF technology and efficiency can now be delivered in both small and large capacities, offering a cost-effective solution to connect up to 12 indoor units to one small, powerful, mini VRF unit.

Delivering VRF efficiency, quality and functionality, with the additional flexibility of being free-standing or wall-hung, the **PUMY-SP** single fan side-blow unit makes the most of even the smallest plant spaces, making it ideal for high specification residential and retail applications in city centres.



Key Features & Benefits:

- Small footprint, long pipe-runs and wall-hanging capability provides flexibility of install.
- Broad compatibility across M Series, Mr Slim and City Multi indoor units, providing design choice.
- 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, allowing extra sound attenuation or the ability to duct discharge air away from the unit.
- Available in both single and three phase options.



Air Conditioning Product Information

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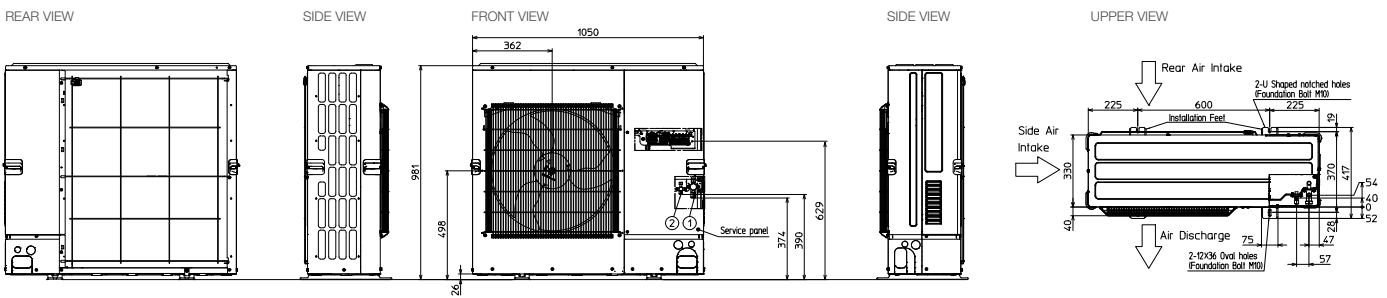


| OUTDOOR UNITS | | PUMY-SP112VKM2 | PUMY-SP112YKM2 ^③ | PUMY-SP125VKM2 | PUMY-SP125YKM2 ^③ | PUMY-SP140VKM2 | PUMY-SP140YKM2 ^③ |
|---|-------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|
| 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 |
| POWER INPUT (kW) | Heating (nominal) | 3.66 | 3.66 | 4.31 | 4.31 | 4.36 | 4.36 |
| | Cooling (nominal) | 4.46 | 4.46 | 5.11 | 5.11 | 5.34 | 5.34 |
| | Heating (UK) | 4.69 | 4.69 | 5.52 | 5.52 | 5.58 | 5.58 |
| | Cooling (UK) | 2.08 | 2.08 | 2.38 | 2.38 | 2.49 | 2.49 |
| 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 |
| SCOP / SEER | | - | - | - | - | - | - |
| MAX NO. OF CONNECTABLE INDOOR UNITS | | 9 | 9 | 10 | 10 | 12 | 12 |
| MAX CONNECTABLE CAPACITY | | 50-130% OU Capacity | 50-130% OU Capacity | 50-130% OU Capacity | 50-130% OU Capacity | 50-130% OU Capacity | 50-130% OU Capacity |
| AIRFLOW (m³/min) | | 77 | 77 | 83 | 83 | 83 | 83 |
| 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") |
| SOUND PRESSURE LEVEL (dBA) | | 52 | 52 | 53 | 53 | 54 | 54 |
| SOUND POWER LEVEL (dBA) | | 72 | 72 | 73 | 73 | 74 | 74 |
| WEIGHT (kg) | | 93 | 94 | 93 | 94 | 93 | 94 |
| DIMENSIONS (mm) | Width | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 |
| | Depth | 330+40 | 330+40 | 330+40 | 330+40 | 330+40 | 330+40 |
| | Height | 981 | 981 | 981 | 981 | 981 | 981 |
| 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 |
| STARTING CURRENT (A) | | 14 | 7 | 14 | 7 | 14 | 7 |
| NOMINAL SYSTEM 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] |
| GUARANTEED OPERATING RANGE (°C) Heating / Cooling | | -20~-15 / -5~-52 | -20~-15 / -5~-52 | -20~-15 / -5~-52 | -20~-15 / -5~-52 | -20~-15 / -5~-52 | -20~-15 / -5~-52 |
| FUSE RATING (BS88) - HRC (A) | | 1 x 32 | 1 x 16 | 1 x 32 | 1 x 16 | 1 x 32 | 1 x 16 |
| MAINS CABLE No. Cores | | 3 | 4 + earth | 3 | 4 + earth | 3 | 4 + earth |
| 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 (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 |

^③ Three Phase

| PIPING RESTRICTIONS | PUMY-SP112-140V(Y)KM2 |
|---|--|
| TOTAL PIPING LENGTH | 120m max |
| FURTHEST PIPING LENGTH | 70m max |
| FURTHEST PIPING LENGTH AFTER 1st BRANCH | 50m max |
| BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT | 50m max (30m max if outdoor installed below) |
| BETWEEN INDOOR AND INDOOR UNITS - HEIGHT | 15m max |

PUMY-P112/125/140VKM2/YKM2 DIMENSIONS



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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.526/2011 from IPCC 3rd edition, these are as follows: R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of December 2022

