

# Y Series Standard Efficiency Heat Pump Outdoor Unit (100-112kW)



The **City Multi Y Series VRF Heat Pump systems** provide a simple and flexible solution where heating or cooling is required across all or selected indoor units at any given time.

With a modular outdoor unit design, the system offers complete design freedom and is well suited to applications such as open-plan offices, call centres, and retail spaces.



## Key Features & Benefits:

- **Energy Efficient Heat Pump Operation** - Delivers effective heating or cooling to internal spaces, supporting a simple and flexible system design
- **Lower GWP R32 Refrigerant** - for reduced carbon impact and future-ready legislation compliance
- **Ultra-Compact Modular Design** - Smaller unit footprint allows installation in tight spaces without compromising on performance
- **Broad Indoor Unit Compatibility** - Connects to a wide range of unit types and capacities, making it suitable for varied building applications
- **Extended Heating Range (-25°C)** - Ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- **Easy-to-Maintain Safety Feature Options** - For reduced onsite time and costs while supporting occupant peace of mind
- **Low Noise Operation** - Features a 5-step low noise mode that minimises sound levels for quieter surroundings
- **113m Vertical Height Separation** - Offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings



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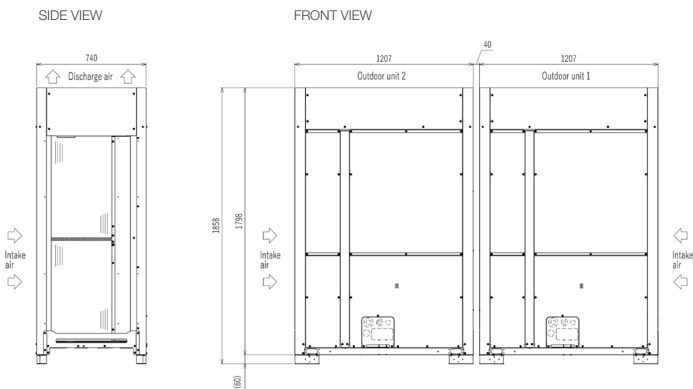
## Air Conditioning Product Information



| PUHY-M-YSXM-A OUTDOOR UNITS  |                               | PUHY-M900YSXM-A                                   | PUHY-M950YSXM-A           | PUHY-M1000YSXM-A          |
|--|-------------------------------|---|---------------------------|---------------------------|
| CAPACITY (kW)  | Heating (nominal max)         | 112.0   | 114.0                     | 116.0                     |
|  | Cooling (nominal)             | 100.0   | 106.0                     | 112.0                     |
|  | High Performance Heating (UK) | 104.2   | 106.0                     | 107.9                     |
|  | COP Priority Heating (UK)     | 98.6  | 100.3                     | 102.1                     |
|  | Cooling (UK)                  | 89.0  | 94.3                      | 99.7                      |
| POWER INPUT (kW)   | Heating (nominal max)         | 33.33   | 34.13                     | 35.04                     |
|  | Cooling (nominal)             | 31.15   | 34.86                     | 39.16                     |
|  | High Performance Heating (UK) | 39.00   | 39.93                     | 41.00                     |
|  | COP Priority Heating (UK)     | 35.33   | 36.18                     | 37.14                     |
|  | Cooling (UK)                  | 28.66   | 32.07                     | 36.03                     |
| COP / EER (nominal max)  |                               | 3.36 / 3.21                                       | 3.34 / 3.04               | 3.31 / 2.86               |
| SCOP / SEER  |                               | 4.46 / 7.37                                       | 4.41 / 7.13               | 4.36 / 6.89               |
| MAX NO. OF CONNECTABLE INDOOR UNITS  |                               | 50  | 50                        | 50                        |
| MAX CONNECTABLE CAPACITY   |                               | 50~130% OU Capacity                               | 50~130% OU Capacity       | 50~130% OU Capacity       |
| AIRFLOW (m <sup>3</sup> /min)  | High                          | 300 / 300   | 305 / 300                 | 305 / 305                 |
|  | Gas                           | 41.28 (1-5/8")                                    | 41.28 (1-5/8")            | 41.28 (1-5/8")            |
| PIPE SIZE mm (in)  | Liquid                        | 19.05 (3/4")                                      | 19.05 (3/4")              | 19.05 (3/4")              |
|  | Heating / Cooling             | 72.0 / 67.0                                       | 72.0 / 69.0               | 73.0 / 71.0               |
| SOUND PRESSURE LEVEL (dBA)   |                               | 93.0 / 87.0                                       | 94.0 / 89.0               | 95.0 / 91.0               |
| SOUND POWER LEVEL (dBA)  |                               | 324 + 324   | 324 + 324                 | 324 + 324                 |
| WEIGHT (kg)  | Width                         | 1207 + 1207                                       | 1207 + 1207               | 1207 + 1207               |
|  | Depth                         | 740   | 740                       | 740                       |
|  | Height                        | 1858  | 1858                      | 1858                      |
| DIMENSIONS (mm)  |                               |   |                           |                           |
| (1798mm without legs)  |                               |   |                           |                           |
| ELECTRICAL SUPPLY <sup>*1</sup>  |                               | 380-415v, 50Hz                                    | 380-415v, 50Hz            | 380-415v, 50Hz            |
| PHASE <sup>*1</sup>  |                               | Three   | Three                     | Three                     |
| STARTING CURRENT (A) <sup>*1</sup>   |                               | 8   | 8                         | 8                         |
| NOMINAL SYSTEM RUNNING CURRENT (A) <sup>*1</sup>                               |                               | Heating / Cooling [MAX] 53.4 / 49.9 [30.4 + 30.4] | 54.7 / 55.9 [30.4 + 33.4] | 56.1 / 62.8 [33.4 + 33.4] |
| GUARANTEED OPERATING RANGE (°C)  |                               | Heating / Cooling -25~-15.5 / -5~-52              | -25~-15.5 / -5~-52        | -25~-15.5 / -5~-52        |
| FUSE RATING (MCB sizes BS EN 60947-2) - (A) <sup>*1</sup>                      |                               | 1 x 32 / 1 x 32                                   | 1 x 32 / 1 x 40           | 1 x 40 / 1 x 40           |
| MAINS CABLE No. Cores <sup>*1</sup>  |                               | 4 + earth / 4 + earth                             | 4 + earth / 4 + earth     | 4 + earth / 4 + earth     |
| CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R32 (GWP 675)         |                               | 18.6 / 12.6                                       | 18.6 / 12.6               | 18.6 / 12.6               |
| MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) R32 (GWP 675) |                               | 35.5 / 24.0                                       | 35.5 / 24.0               | 35.5 / 24.0               |

Notes: ErP Lot 6 calculation method to EN14825. \*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

### PUHY-M900/950/1000YSXM-A DIMENSIONS



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Note: 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), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). \*These GWP values are based on IPCC 6th edition.

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