

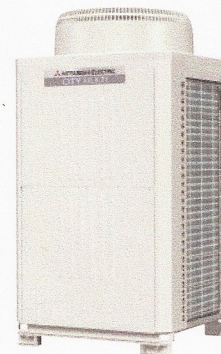
# Y Series Standard (10-18hp)

## Heat Pump Outdoor Unit

### Improved for even higher efficiency

The City Multi Y series makes use of a two pipe refrigerant circuit throughout, with the choice of either Branch Pipe or Header Pipe feeds to indoor units, with manual changeover from cooling to heating to ensure that a constant indoor climate is maintained.

- New wrap around coil for improved energy efficiency
- Choice of Branch Pipe or Header Pipe feeds to indoor units
- Energy-saving inverter driven outdoor compressor units with very low start currents
- No requirement for plant rooms or bulky service shafts
- Weight and size reduction compared to previous YGM-A models
- Improved pipe run of 165m, with a total system pipe length of 1000m
- 100% inverter control
- High Sensible Cooling Function - By raising the off coil temperature, a 10% increase in sensible cooling capacity over standard operation is achievable, the result being greater comfort for occupants



### Technical Information

#### Y SERIES STANDARD OUTDOOR UNITS 10-18hp

| MODEL REFERENCE                             |                              | PUHY-P250YHM-A | PUHY-P300YHM-A | PUHY-P350YHM-A | PUHY-P400YHM-A | PUHY-P450YHM-A |
|---------------------------------------------|------------------------------|----------------|----------------|----------------|----------------|----------------|
| CAPACITY (kW)                               | Heating (nominal)            | 31.5           | 37.5           | 45.0           | 50.0           | 56.0           |
|                                             | Cooling (nominal)            | 28.0           | 33.5           | 40.0           | 45.0           | 50.0           |
|                                             | Heating (UK)                 | 28.7           | 33.0           | 39.6           | 44.0           | 48.7           |
|                                             | Cooling (UK)                 | 26.6           | 31.5           | 37.6           | 42.3           | 46.0           |
| POWER INPUT (kW)                            | Heating (nominal)            | 7.83           | 9.39           | 12.09          | 13.47          | 15.38          |
|                                             | Cooling (nominal)            | 7.73           | 9.07           | 11.20          | 13.23          | 16.28          |
|                                             | Heating (UK)                 | 7.75           | 9.11           | 11.73          | 13.07          | 14.00          |
|                                             | Cooling (UK)                 | 4.79           | 6.71           | 8.29           | 9.79           | 11.40          |
| COP/EER (nominal)                           |                              | 4.02 / 3.62    | 3.99 / 3.69    | 3.72 / 3.57    | 3.71 / 3.40    | 3.64 / 3.07    |
| MAX No. OF CONNECTABLE INDOOR UNITS         |                              | 21             | 26             | 30             | 34             | 39             |
| AIRFLOW (m <sup>3</sup> /min)               | High                         | 185            | 185            | 225            | 225            | 225            |
| NOISE (dBA)                                 |                              | 57             | 59             | 60             | 61             | 62             |
| WEIGHT (kg)                                 |                              | 200            | 215            | 245            | 245            | 245            |
| DIMENSIONS (mm)                             | Width                        | 920            | 920            | 1220           | 1220           | 1220           |
|                                             | Depth                        | 760            | 760            | 760            | 760            | 760            |
|                                             | (1650mm without legs) Height | 1710           | 1710           | 1710           | 1710           | 1710           |
| ELECTRICAL SUPPLY                           |                              | 380-415v, 50Hz | 380-415v, 50Hz | 380-415v, 50Hz | 380-415v, 50Hz | 380-415v, 50Hz |
| PHASE                                       |                              | 3              | 3              | 3              | 3              | 3              |
| STARTING CURRENT (A)                        |                              | 8              | 8              | 8              | 8              | 8              |
| RUNNING CURRENT (A)                         | Heating                      | 12.1           | 14.5           | 18.6           | 20.8           | 23.7           |
|                                             | Cooling                      | 11.9           | 14.0           | 17.3           | 20.4           | 25.1           |
| FUSE RATING (MCB sizes BS EN 60947-2) - (A) |                              | 20             | 25             | 32             | 32             | 40             |
| MAINS CABLE No. Cores                       |                              | 4 + earth      | 4 + earth      | 4 + earth      | 4 + earth      | 4 + earth      |

#### PUHY-P250-450YHM-A Piping Restrictions

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| TOTAL PIPING LENGTH                       | 1000m max                                    |
| FURTHEST PIPING LENGTH                    | 165m max                                     |
| FURTHEST PIPING LENGTH AFTER 1st BRANCH   | 40m max                                      |
| BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT | 50m max (40m max if outdoor installed below) |
| BETWEEN INDOOR AND INDOOR UNITS - HEIGHT  | 15m max                                      |