

MCY-MHP\_HS8

MiNi SMMS-e 3Ph



Incorporating all of Toshiba's VRF experience and knowledge into a system that measures no more than 1.2m high, results in a perfect solution for all small to medium building heating and cooling requirements.

### Technology

- Toshiba's in-house designed twin rotary inverter controlled compressor operates precisely to match the indoor demand, providing class leading levels of performance and system efficiency.
- Precise refrigerant control ensures each indoor unit receives the right amount of refrigerant.

### Connectivity

- With 180m total (125m equivalent) piping length, ensures the MiNi SMMS-e system is adaptable for all types of projects.
- Extensive indoor model range, with various styles of indoor unit designs, including small capacity (0.6Hp) and air-to-water heat exchanger models.
- 3Ph power supply.

SCOP MAX



4.38

CAPACITY



4HP &gt; 10HP

OPERATION



-20°C &gt; +46°C

With 30Pa available pressure, the MiNi SMMS-e can be installed indoor behind a transfer grid.



### MiNi SMMS-e 3Ph Performances

| Outdoor unit     |     | HP | MCY-MHP0404HS8-E | MCY-MHP0504HS8-E | MCY-MHP0604HS8-E | MCY-MHP0804HS8-E   | MCY-MHP1004HS8-E   |
|------------------|-----|----|------------------|------------------|------------------|--------------------|--------------------|
|                  |     |    | 4 HP             | 5 HP             | 6 HP             | 8 HP               | 10 HP              |
| Cooling capacity | kW  |    | 12.1             | 14.0             | 15.5             | 22.4               | 28                 |
| Power input      | kW  | C  | 2.82             | 3.47             | 4.25             | 6.67               | 9.34               |
| EER              | W/W |    | 4.29             | 4.03             | 3.65             | 3.36               | 3.00               |
| EthasC/SEER      | W/W |    | 375.8% / 9.47    | 368.6% / 9.29    | 386.6% / 9.74    | 320.6% / 8.09      | 293.0% / 7.40      |
| Running current  | A   | C  | 4.8 / 4.5 / 4.4  | 5.7 / 5.4 / 5.2  | 7.0 / 6.7 / 6.4  | 11.1 / 10.6 / 10.2 | 15.3 / 14.5 / 14.0 |
| Heating capacity | kW  |    | 12.5             | 16.0             | 18.0             | 22.4               | 28.0               |
| Power input      | kW  | H  | 2.57             | 3.72             | 4.27             | 5.20               | 7.00               |
| COP              | W/W |    | 4.86             | 4.30             | 4.22             | 4.31               | 4.00               |
| EthasH/SCOP      |     |    | 164.6% / 4.19    | 167.0% / 4.25    | 172.2% / 4.38    | 177.0% / 4.50      | 179.8% / 4.57      |
| Running current  | A   | H  | 4.4 / 4.2 / 4.0  | 6.1 / 5.8 / 5.6  | 7.0 / 6.6 / 6.4  | 8.7 / 8.2 / 7.9    | 11.4 / 10.9 / 10.5 |

### MiNi SMMS-e 3Ph Physical data

| Outdoor unit                              |            | HP  | MCY-MHP0404HS8-E     | MCY-MHP0504HS8-E     | MCY-MHP0604HS8-E     | MCY-MHP0804HS8-E     | MCY-MHP1004HS8-E     |
|-------------------------------------------|------------|-----|----------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow                                  | m³/h - l/s |     | 5660 - 1572          | 5820 - 1617          | 6050 - 1681          | 8460-2350            | 8820-2450            |
| Sound pressure level                      | dB(A)      | C/H | 49 / 52              | 50 / 53              | 51 / 54              | 58 / 59              | 59 / 60              |
| Dimensions (HxWxD)                        | mm         |     | 1235 x 990 x 390     | 1235 x 990 x 390     | 1235 x 990 x 390     | 1740 x 990 x 390     | 1740 x 990 x 390     |
| Weight                                    | kg         |     | 125                  | 125                  | 125                  | 147                  | 147                  |
| Compressor type                           |            |     | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary |
| Refrigerant charge R410A                  | kg/TCO2eq  |     | 6.4 / 13.4           | 6.4 / 13.4           | 6.4 / 13.4           | 4.4 / 9.2            | 4.4 / 9.2            |
| Gas line type - diameter                  |            |     | Flare - 5/8"         | Flare - 5/8"         | Flare - 3/4"         | Flare 3/4            | Flare 3/4            |
| Liquid line type - diameter               |            |     | Flare - 3/8"         | Flare - 3/8"         | Flare - 3/8"         | Flare 3/8"(*2)       | Flare 3/8"(*2)       |
| Discharge line connection type - diameter |            |     |                      |                      |                      |                      |                      |
| Maximum equivalent length separation*     | m          |     | 125                  | 125                  | 125                  | 150                  | 150                  |
| Maximum actual piping separation*         | m          |     | 100                  | 100                  | 100                  | 120                  | 120                  |
| Maximum total pipe length*                | m          |     | 180                  | 180                  | 180                  | 300                  | 300                  |
| Maximum lift (indoor unit above/below)    | m          |     | 20/30                | 20/30                | 20/30                | 30                   | 30                   |
| Operating range - db                      | °C         | C   | -5/46                | -5/46                | -5/46                | -5/46                | -5/46                |
| Operating range - wb                      | °C         | H   | -20.0 / 15.0         | -20.0 / 15.0         | -20.0 / 15.0         | -20.0 / 15.0         | -20.0 / 15.0         |
| Power supply                              | V-ph-Hz    |     | 380 / 400 / 415-3-50 | 380 / 400 / 415-3-50 | 380 / 400 / 415-3-50 | 380 / 400 / 415-3-50 | 380 / 400 / 415-3-50 |

\* when PMV Kit is used: Maximum equivalent length separation (80 m); Maximum actual piping separation (65 m); Maximum total pipe length (150 m)

\*2 Need to expand to 1/2" under certain condition.

C: cooling mode - H: heating mode