

# SMMS-e Single VRF Outdoor Unit MCY-MAP0487HS-UL—Heat Pump

**TOSHIBA**  
*Carrier*

## Submittal Data

Job Name \_\_\_\_\_ Location \_\_\_\_\_

Tag \_\_\_\_\_



### SMMS-e VRF Heat Pump Features

- 3, 4, and 5-ton single-phase modules available
- Modules have inverter-driven twin rotary compressor
- 591 ft (180 m) actual total system piping (liquid line)
- 328 ft (100 m) actual piping length from outdoor unit to furthest fan coil
- Up to 330 ft (100 m) control wiring between outdoor units
- Up to 6560 ft (2000 m) control wiring between the outdoor units and indoor units
- Operating temperature range Cooling (db): 23 to 122 F (–5 to 50 C)
- Heating (wb): –13 to 60 F (–25 to 15.6 C)
- Protection: high pressure sensor and switch, low pressure sensor, process controller board fuse, inverter overload protection
- 7-year compressor limited warranty, 5-year parts limited warranty

| Header Unit Model                               | MCY-MAP0487HS-UL |               |
|-------------------------------------------------|------------------|---------------|
| PERFORMANCE                                     |                  |               |
| Nominal Cooling Capacity                        | Btu/h            | 48,000        |
| Nominal Heating Capacity                        | Btu/h            | 54,000        |
| Maximum Total Connected Indoor Unit Capacity    |                  | Up to 135%    |
| COOLING EFFICIENCY†                             |                  |               |
| SEER2, Ducted FCUs                              | Btu/Wh           | 17.20         |
| SEER2, Ductless FCUs                            | Btu/Wh           | 21.10         |
| HEATING EFFICIENCY†                             |                  |               |
| HSPF2, Ducted FCUs                              |                  | 9.50          |
| HSPF2, Ductless FCUs                            |                  | 9.40          |
| Fan Type (Qty)                                  |                  | Propeller (2) |
| Airflow                                         | CFM              | 4690          |
| Combined System Sound Pressure, Cooling/Heating | dBA              | 54.0/57.0     |
| ELECTRICAL                                      |                  |               |
| Power Supply                                    | V/Ph/Hz          | 208-230/1/60  |
| Minimum Circuit Amps (MCA)                      | A                | 36.3          |
| Recommended Fuse Size                           | A                | 40            |

### LEGEND

|      |   |                                     |
|------|---|-------------------------------------|
| db   | — | Dry Bulb                            |
| SEER | — | Seasonal Energy Efficiency Ratio    |
| FCU  | — | Fan Coil Unit                       |
| HSPF | — | Heating Seasonal Performance Factor |
| wb   | — | Wet Bulb                            |

|                                               |     |                          |
|-----------------------------------------------|-----|--------------------------|
| <b>COMPRESSORS</b>                            |     |                          |
| Type (Number)                                 |     | Hermetic Twin Rotary (1) |
| Motor Output                                  | kW  | 3.75                     |
| <b>FAN MOTOR</b>                              |     |                          |
| Motor Type (Steps)                            |     | Propeller Fan (2)        |
| Motor Output                                  | kW  | 0.10 + 0.10              |
| <b>PHYSICAL DATA</b>                          |     |                          |
| Pipe Connection Size - Liquid (High Pressure) | in. | 3/8 (Flare)              |
| Pipe Connection Size - Gas (Low Pressure)     | in. | 5/8 (Flare)              |
| Refrigerant                                   |     | R-410A                   |
| Factory Charge††                              | lb  | 14.8                     |
| External Finish                               |     | Munsell 1Y8.5/0.5        |
| Unit Width                                    | in. | 39.8                     |
| Unit Height                                   | in. | 61.0                     |
| Unit Depth                                    | in. | 14.6                     |
| Unit Net Weight                               | lb  | 311                      |

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 210/240 Standard.

Cooling: Indoor 80°F (27°C) db/67°F (20°C) wb; Outdoor 95°F (35°C) db

Heating: Indoor 70°F (21°C) db; Outdoor 47°F (8°C) db/43°F (6°C) wb

††Additional charge required.

# OUTDOOR UNIT HEAT PUMP MCY-MAP0487HS-UL DIMENSIONAL DRAWING

