

SMMS-e Single VRF Outdoor Unit MMY-MAP1446HT6P-UL - Heat Pump

TOSHIBA
Carrier

Submittal Data

Job Name _____ Location _____
Tag _____



SMMS-e VRF Heat Pump Features

- 6, 8, 10, 12, & 14 ton modules are available
- Modules have 2 inverter-driven twin rotary compressors
- Backup capability due to multiple compressors
- Compressor speed varied in 0.1 Hz increments for comfort and efficiency
- Direct drive, inverter-driven 64-step outdoor motor
- Modules can be combined to form larger systems, up to 38 tons
- 985 ft (300 m) actual total system piping (liquid line)
- 623 ft (190 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 unit and indoor units
- Operating temperature range
Cooling (db): 14 to 122 F (–10 to 50 C)
Heating (wb): –13 to 60 F (–25 to 15.6 C)
- Protection: high pressure switch, low pressure sensor and switch, process controller board fuse, inverter overload protection
- 7-year compressor limited warranty, 5-year parts limited warranty

| | | |
|---|--------------------|---------------|
| Header Unit Model | MMY-MAP1446HT6P-UL | |
| PERFORMANCE | | |
| Rated Cooling Capacity | Btu/h | 138,000 |
| Rated Heating Capacity | Btu/h | 154,000 |
| Maximum Total Connected Indoor Unit Capacity* | | Up to 150% |
| COOLING EFFICIENCY† | | |
| EER/IEER, Ducted FCUs | | 11.30 / 20.00 |
| EER/IEER, Ductless FCUs | | 12.40 / 25.60 |
| HEATING EFFICIENCY† | | |
| COP at 47 F, Ducted FCUs | | 3.91 |
| COP at 47 F, Ductless FCUs | | 4.12 |
| Fan Type (Qty) | | Propeller (2) |
| Airflow, Standard Range | CFM | 9760 |
| Sound Pressure, Cooling/Heating | dBA | 63/64 |
| External Static Pressure** | in. wg | 0.16 |
| ELECTRICAL | | |
| Power Supply | V/Ph/Hz | 460/3/60 |
| Minimum Circuit Amps (MCA) | A | 25 |
| Recommended Fuse Size | A | 30 |

LEGEND

| | |
|------|--------------------------------------|
| db | — Dry Bulb |
| COP | — Coefficient of Performance |
| EER | — Energy Efficiency Ratio |
| FCU | — Fan Coil Unit |
| IEER | — Integrated Energy Efficiency Ratio |
| wb | — Wet Bulb |

| | | |
|---|-----------------------------|----------------|
| COMPRESSORS | | |
| Type (Number) | Inverter Twin Rotary (2) | |
| Motor Output | kW | 2 x 5.4 |
| FAN MOTOR | | |
| Motor Type (Steps) | Inverter Direct Driven (64) | |
| Motor Output | kW | 1.0 + 1.0 |
| PHYSICAL DATA | | |
| Pipe Connection Size - Liquid (High Pressure) | in. | 5/8 (Flare) |
| Pipe Connection Size - Gas (Low Pressure) | in. | 1-1/8 (Brazed) |
| Balance | in. | 3/8 (Flare) |
| Refrigerant | R-410A | |
| Factory Charge†† | lb | 25.4 |
| External Finish | Munsell 1Y8.5/0.5 | |
| Header Unit/Width | in. | 63 |
| Header Unit/Height | in. | 72-7/8 |
| Header Unit/Depth | in. | 30-11/16 |
| Header Unit/Net Weight | lb | 838 |

*When total connected indoor unit capacity exceeds 135%, number and types of indoor unit are limited.

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 1230 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

**Requires setting by DIP switches.

††Additional charge required.

NOTE: Unit cabinet and coil slab shall be capable of withstanding 500-hour salt spray test in accordance with the ASTM (American Society for Testing and Materials, U.S.A.) B-117 Standard.

