Submittal Data

Job Data _________________________________  Location _______________________________
Buyer ______________________  Buyer PO # ____________ Carrier # _____________________
Unit Number ________________________ Model Number ________________________________
Performance Data Certified By _______________________________ Date____________________

SHRMe VRF Heat Recovery Features

- 14 and 12-ton modules are combined to form a 38-ton system
- Capable of simultaneous cooling and heating (flow selector boxes required)
- 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
- Up to 3281 ft (1000 m) actual total system piping (liquid line)
- Up to 591 ft (180 m) actual piping length from outdoor unit to furthest fan coil
- Up to 330 ft (100 m) outdoor control wiring
- Up to 6560 ft (2000 m) control wiring between outdoor 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, PC board fuse, inverter overload protection
- 7-year compressor limited warranty, 5-year parts limited warranty

<table>
<thead>
<tr>
<th>Header Unit Model</th>
<th>MMY-MAP1686FT6P-UL</th>
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<tbody>
<tr>
<td>Follower Unit Model</td>
<td>MMY-MAP1446FT6P-UL</td>
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</table>

**PERFORMANCE**

- Nominal Cooling Capacity Btu/h 451,500
- Nominal Heating Capacity Btu/h 513,000
- Maximum Total Connected Indoor Unit Capacity Up to 150%

**SIMULTANEOUS COOLING AND HEATING EFFICIENCY**

- SCHE, Ducted FCUs 21.00
- SCHE, Ductless FCUs 23.20

**COOLING EFFICIENCY**

- EER/IEER, Ducted FCUs 9.50/20.00
- EER/IEER, Ductless FCUs 9.50/20.00

**HEATING EFFICIENCY**

- COP at 47 F, Ducted FCUs 3.30
- COP at 47 F, Ductless FCUs 3.30
- Fan Type (Qy) Propeller (6)
- Airflow, Standard Range CFM 10,852+10,852+10,852
- Combined System Sound Pressure, Cooling/Heating dBA 68.1/69.1
- External Static Pressure† in. wg 0.16

**ELECTRICAL**

- Power Supply V/Ph/Hz 460/3/60
- Minimum Circuit Amps (MCA)** A 29.7 + 23.4 + 23.4
- Recommended Fuse Size** A 35 + 30 + 30

**COMPRESSORS**

- Type (Number) Inverter Twin Rotary (6)
- Motor Output kW 2 x 6.5 + 2 x 5.4 + 2 x 5.4

**FAN MOTOR**

- Motor Type (Steps) Inverter Direct Driven (64)
- Motor Output kW 1.0 + 1.0 + 1.0 + 1.0 + 1.0

**PHYSICAL DATA**

- Main Pipe Connection Size - Liquid (High Pressure)†† in. 7/8 (Flare)
- Main Pipe Connection Size - Gas (Low Pressure)†† in. 1-5/8 (Brazed)
- Main Discharge (High Pressure)†† in. 1-3/8 (Flare)
- Balance in. 3/8 (Flare)
- Refrigerant R-410A
- Factory Charge*** lb 3 x 24.3
- External Finish Munsell 1Y8.5/0.5
- Header Unit/Follower Unit Width in. 63.0 / 63.0 / 63.0
- Header Unit/Follower Unit Height in. 72.9 / 72.9 / 72.9
- Header Unit/Follower Unit Depth in. 30.7 / 30.7 / 30.7
- Header Unit/Follower Unit Net Weight lb 838 + 838 + 838

**REQUIRED ACCESSORY**

- Connection Kit RBM-BT24FUL

**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.

**LEGEND**

- db — Dry Bulb
- COP — Coefficient of Performance
- EER — Energy Efficiency Ratio
- FCU — Fan Coil Unit
- IEER — Integrated Energy Efficiency Ratio
- SCHE — Simultaneous Cooling and Heating Efficiency
- wb — Wet Bulb

**Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 1230 Standard.**

- Cooling: Indoor 80 F (35 C) db/67 F (27 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 charges required.

**NOTE:** The manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.
NOTES:
1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 79.7 in. (2000 mm) apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 31.5 in. (800 mm) or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally, and keep 19.7 in. (500 mm) or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Arrange each outdoor unit in order of its capacity.
   (Header unit ①, Follower unit ②, Follower unit ③)
5. Dimensional drawing of corrosion protection and corrosion heavy protection model is the same as that of standard model.
6. Dimensions are in inches (mm).

MODEL | OUTDOOR UNIT
-----|-----------------|-----------------|-----------------|-----------------
MMY-AP4566FT6P-UL | MMY-MAP1686FT6P-UL | MMY-MAP1446FT6P-UL | MMY-MAP1446FT6P-UL |
NOTES:
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3. Draw out the pipe procured locally to the front of the outdoor unit horizontally and keep 19.7 in. (500 mm) or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensions are in inches (mm).

<table>
<thead>
<tr>
<th>Model Name</th>
<th>A</th>
<th>B</th>
</tr>
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<tbody>
<tr>
<td>MAP 1446 type</td>
<td></td>
<td></td>
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<tr>
<td>MAP 1686 type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot; (15.9)</td>
<td>3/4&quot; (19.1)</td>
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</tr>
<tr>
<td>1&quot; (25.4)</td>
<td>1-1/8&quot; (28.6)</td>
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</tr>
<tr>
<td>5/8&quot; (15.9)</td>
<td>3/4&quot; (19.1)</td>
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</tr>
<tr>
<td>1/2&quot; (15.9)</td>
<td>3/4&quot; (19.1)</td>
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</tr>
<tr>
<td>1/4&quot; (6.4)</td>
<td>1/4&quot; (6.4)</td>
<td></td>
</tr>
<tr>
<td>1/8&quot; (3.2)</td>
<td>1/8&quot; (3.2)</td>
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<tr>
<td>1/16&quot; (0.5)</td>
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<td></td>
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*(1) Cutting position of L-shaped pipe
NOTES:
1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 78.7 in. (2000 mm) apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 31.5 in. (800 mm) or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally, and keep 19.7 in. (500 mm) or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensions are in inches (mm).

Variable Refrigerant Flow (VRF) Multi-Split AC and HP
AHRI Standard 1230