

# SHRMe VRF Outdoor Unit

## MMY-MAP1446FT9P-UL - Heat Recovery

**TOSHIBA**  
*Carrier*

### Submittal Data

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

Tag \_\_\_\_\_



#### SHRMe VRF Heat Recovery Features

- 6, 8, 10, 12, and 14-ton modules available
- 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
- Modules can be combined to form larger systems, up to 38 tons
- 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

Header Unit Model		MMY-MAP1446FT9P-UL
<b>PERFORMANCE</b>		
Rated Cooling Capacity	Btu/h	138,000
Rated Heating Capacity	Btu/h	154,000
Maximum Total Connected Indoor Unit Capacity		Up to 150%
<b>SIMULTANEOUS COOLING AND HEATING EFFICIENCY*</b>		
SCHE, Ducted FCUs		29.90
SCHE, Ductless FCUs		33.60
<b>COOLING EFFICIENCY*</b>		
EER/IEER, Ducted FCUs		11.40/20.20
EER/IEER, Ductless FCUs		12.20/25.90
<b>HEATING EFFICIENCY*</b>		
COP at 47 F, Ducted FCUs		3.52
COP at 47 F, Ductless FCUs		3.75
Fan Type (Qty)		Propeller (2)
Airflow, Standard Range	CFM	10,852
Sound Pressure, Cooling/Heating	dBA	63/64
External Static Pressure†	in. wg	0.16

#### 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

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.

<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	208-230/3/60
Minimum Circuit Amps (MCA)	A	52.1
Recommended Fuse Size	A	60
<b>COMPRESSORS</b>		
Type (Number)		Inverter Twin Rotary (2)
Motor Output	kW	2 x 5.4
<b>FAN MOTOR</b>		
Motor Type (Steps)		Inverter Direct Driven (64)
Motor Output	kW	1.0 + 1.0
<b>PHYSICAL DATA</b>		
Pipe Connection Size - Liquid (High Pressure)	in.	5/8 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in.	1-1/8 (Brazed)
Discharge (High Pressure)	in.	7/8 (Flare)
Balance	in.	3/8 (Flare)
Refrigerant		R-410A
Factory Charge**	lb	24.3
External Finish		Munsell 1Y8.5/0.5
Unit Width	in.	63.0
Unit Height	in.	72.9
Unit Depth	in.	30.7
Unit Net Weight	lb	838

\*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.

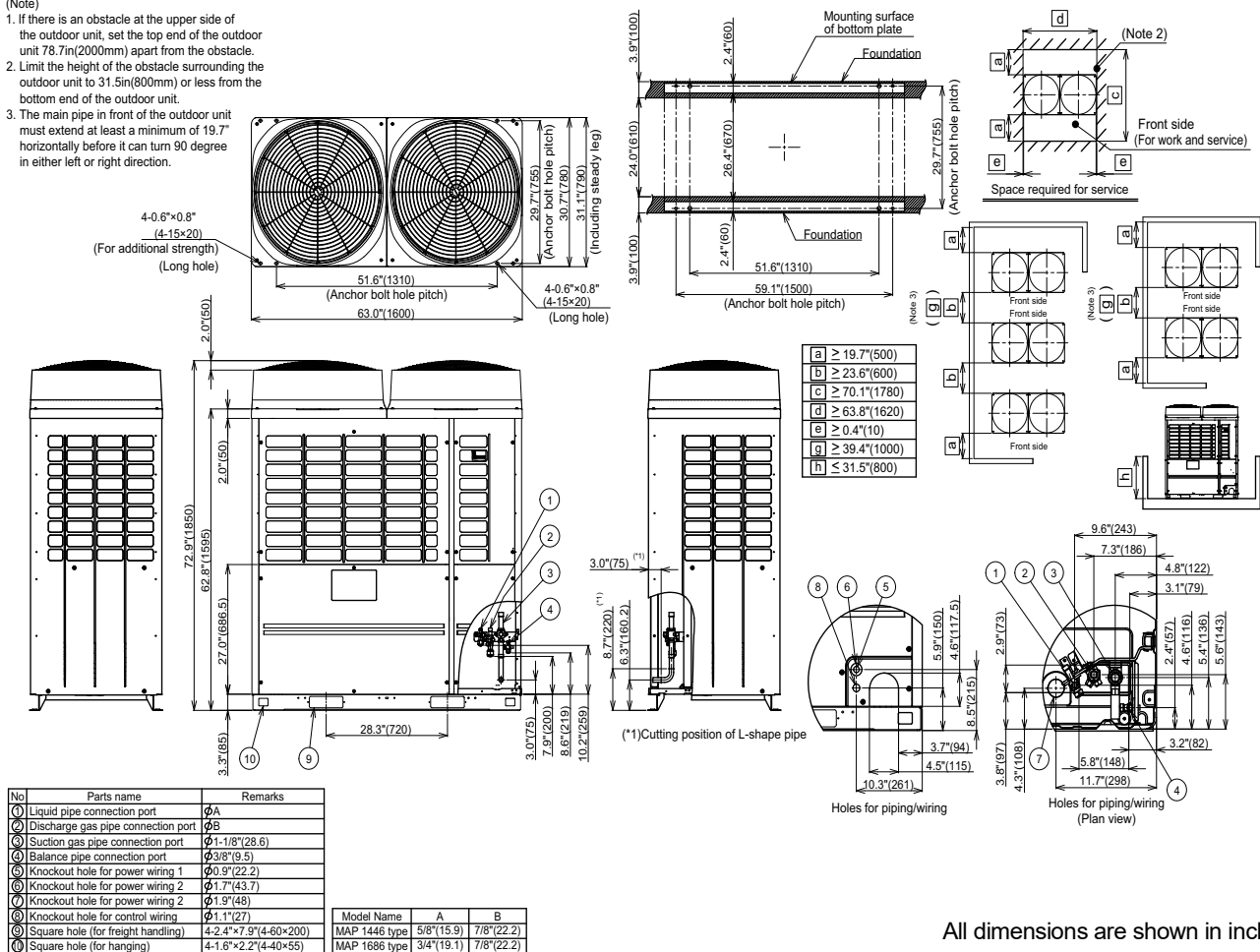
\*\*Additional charge required.

# DIMENSIONAL DRAWING

## OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP1446FT9P-UL

(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 78.7in(2000mm) apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 31.5in(800mm) or less from the bottom end of the outdoor unit.
3. The main pipe in front of the outdoor unit must extend at least a minimum of 19.7" horizontally before it can turn 90 degree in either left or right direction.



All dimensions are shown in inches.

