

# SHRMe VRF Outdoor Unit MMY-AP1446FT2P-UL - Heat Recovery

**TOSHIBA**  
*Carrier*

## Submittal Data

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

Tag \_\_\_\_\_



### SHRMe VRF Heat Recovery Features

- Two 6-ton single-phase modules are combined to form a 12-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

Header Unit Model	MMY-MAP0726FT2P-UL	
Follower Unit Model	MMY-MAP0726FT2P-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%
SIMULTANEOUS COOLING AND HEATING EFFICIENCY*		
SCHE, Ducted FCUs		26.60
SCHE, Ductless FCUs		31.30
COOLING EFFICIENCY*		
EER/IEER, Ducted FCUs		12.20/20.00
EER/IEER, Ductless FCUs		13.50/25.70
HEATING EFFICIENCY*		
COP at 47 F, Ducted FCUs		3.57
COP at 47 F, Ductless FCUs		3.77
Fan Type (Qty)		Propeller (2)
Airflow, Standard Range	CFM	6700 + 6700
Sound Pressure, Cooling/Heating	dBA	60.0/63.0
External Static Pressure†	in. wg	0.24

### 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.

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

Cooling: Indoor 80 F (27 C) db/67 F (19 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

<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	208-230/1/60
Minimum Circuit Amps (MCA)**	A	47 + 47
Recommended Fuse Size**	A	50 + 50
<b>COMPRESSORS</b>		
Type (Number)		Inverter Twin Rotary (4)
Motor Output	kW	2 x 2.1 + 2 x 2.1
<b>FAN MOTOR</b>		
Motor Type (Steps)		Inverter Direct Driven (64)
Motor Output	kW	1.0 + 1.0
<b>PHYSICAL DATA</b>		
Main Pipe Connection Size - Liquid (High Pressure)††	in.	5/8 (Flare)
Main Pipe Connection Size - Gas (Low Pressure)††	in.	1-1/8 (Brazed)
Main 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
Header Unit/Follower Unit Width	in.	39.0/39.0
Header Unit/Follower Unit Height	in.	72.9/72.9
Header Unit/Follower Unit Depth	in.	30.7/30.7
Header Unit/Follower Unit Net Weight	lb	600/600
<b>REQUIRED ACCESSORY</b>		
Connection Kit		RBM-BT14FUL

†Requires setting by DIP switches.

\*\*Separate power supply is required. MCA and fuse size for both units are given.

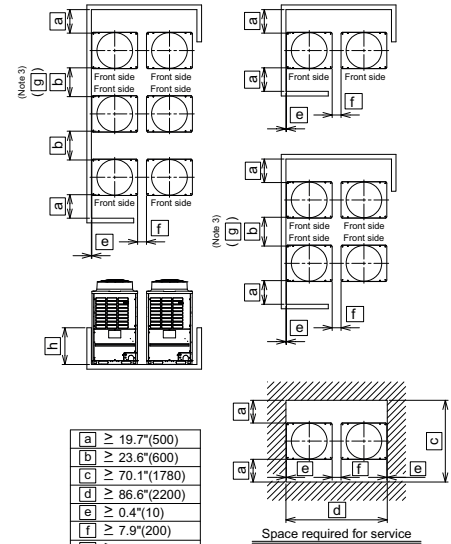
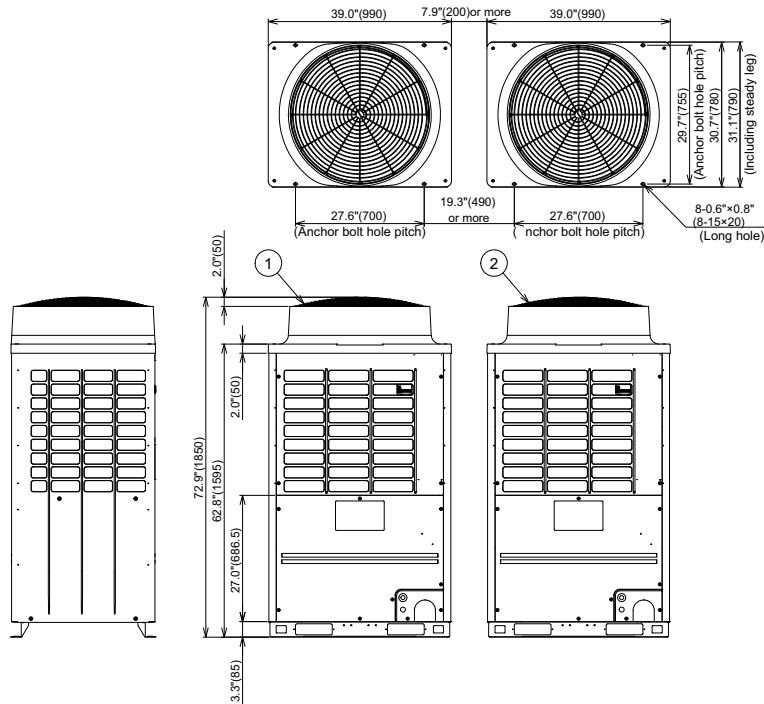
††Main pipe size leaving connection kit.

\*\*\*Additional charge required.

# DIMENSIONAL DRAWING

## OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-AP1446FT2P-UL

Two units connected



(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 78.7\"(2000mm) apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 31.5\"(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.
4. Arrange each outdoor unit in order of its capacity.  
(Header unit ① ≥ Follower unit ②)

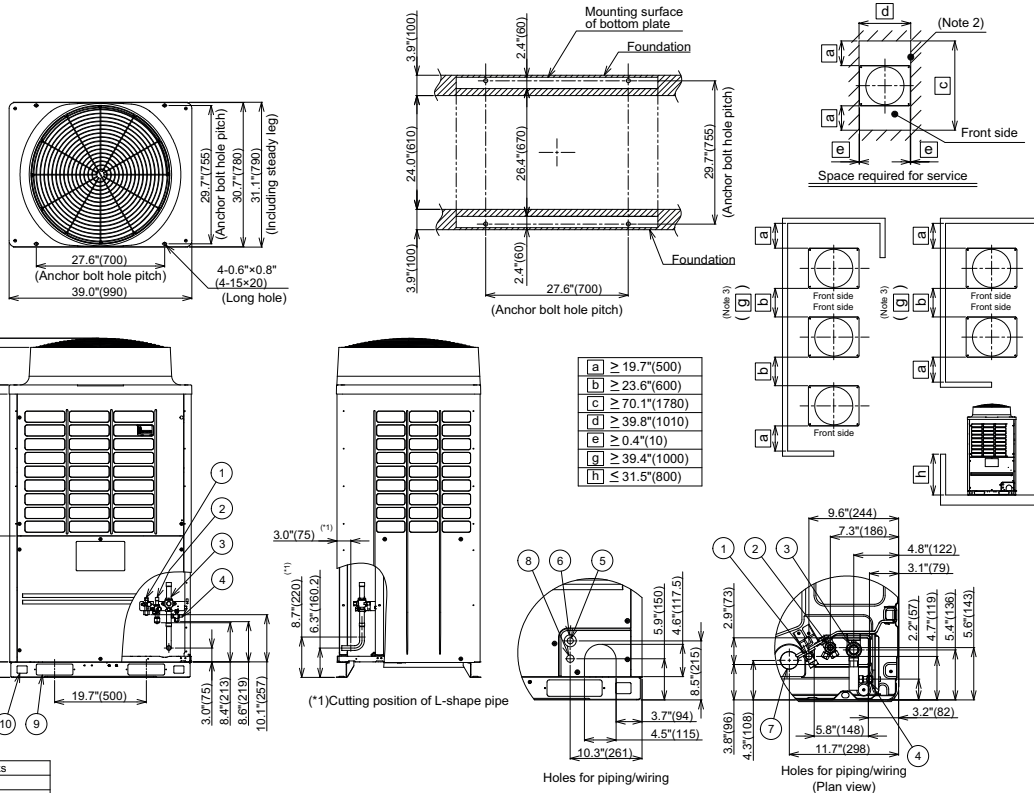
All dimensions are shown in inches.

# DIMENSIONAL DRAWING

## OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP0726FT2P-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.



No.	Parts name	Remarks
①	Liquid pipe connection port	Φ1/2"(12.7)
②	Discharge gas pipe connection port	Φ3/4"(19.1)
③	Suction gas pipe connection port	Φ7/8"(22.2)
④	Balance pipe connection port	Φ3/8"(9.5)
⑤	Knockout hole for power wiring 1	Φ0.9"(22.2)
⑥	Knockout hole for power wiring 2	Φ1.7"(43.7)
⑦	Knockout hole for power wiring 2	Φ1.9"(48)
⑧	Knockout hole for control wiring	Φ1.1"(27)
⑨	Square hole (for freight handling)	4-2.4"×7.9"(4-60×200)
⑩	Square hole (for hanging)	4-1.6"×2.2"(4-40×55)

All dimensions are shown in inches.

