

# SHRMe VRF Outdoor Unit MMY-AP3606FT9P-UL - Heat Recovery

**TOSHIBA**  
*Carrier*

## Submittal Data

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

Tag \_\_\_\_\_



### SHRMe VRF Heat Recovery Features

- 10-ton modules are combined to form a 30-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-MAP1206FT9P-UL	
Follower Unit Model	MMY-MAP1206FT9P-UL MMY-MAP1206FT9P-UL	
PERFORMANCE		
Rated Cooling Capacity	Btu/h	342,000
Rated Heating Capacity	Btu/h	386,000
Maximum Total Connected Indoor Unit Capacity		Up to 150%
SIMULTANEOUS COOLING AND HEATING EFFICIENCY*		
SCHE, Ducted FCUs		22.20
SCHE, Ductless FCUs		25.10
COOLING EFFICIENCY*		
EER/IEER, Ducted FCUs		9.50/20.20
EER/IEER, Ductless FCUs		9.70/23.30
HEATING EFFICIENCY*		
COP at 47 F, Ducted FCUs		3.37
COP at 47 F, Ductless FCUs		3.30
Fan Type (Qty)		Propeller (3)
Airflow, Standard Range	CFM	7700 + 7700 + 7700
Combined System Sound Pressure, Cooling/Heating	dBA	67.8/68.8
External Static Pressure†	in. wg	0.16
ELECTRICAL		
Power Supply	V/Ph/Hz	208-230/3/60
Minimum Circuit Amps (MCA)**	A	45.4 + 45.4 + 45.4
Recommended Fuse Size**	A	50 + 50 + 50

### 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

<b>COMPRESSORS</b>		
Type (Number)		Inverter Twin Rotary (6)
Motor Output	kW	2 x 4.0 + 2 x 4.0 + 2 x 4.0
<b>FAN MOTOR</b>		
Motor Type (Steps)		Inverter Direct Driven (64)
Motor Output	kW	1.0 + 1.0 + 1.0
<b>PHYSICAL DATA</b>		
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.	47.6 / 47.6 / 47.6
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	684 + 684 + 684
<b>REQUIRED ACCESSORY</b>		
Connection Kit		RBM-BT14FUL RBM-BT24FUL

\*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.

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

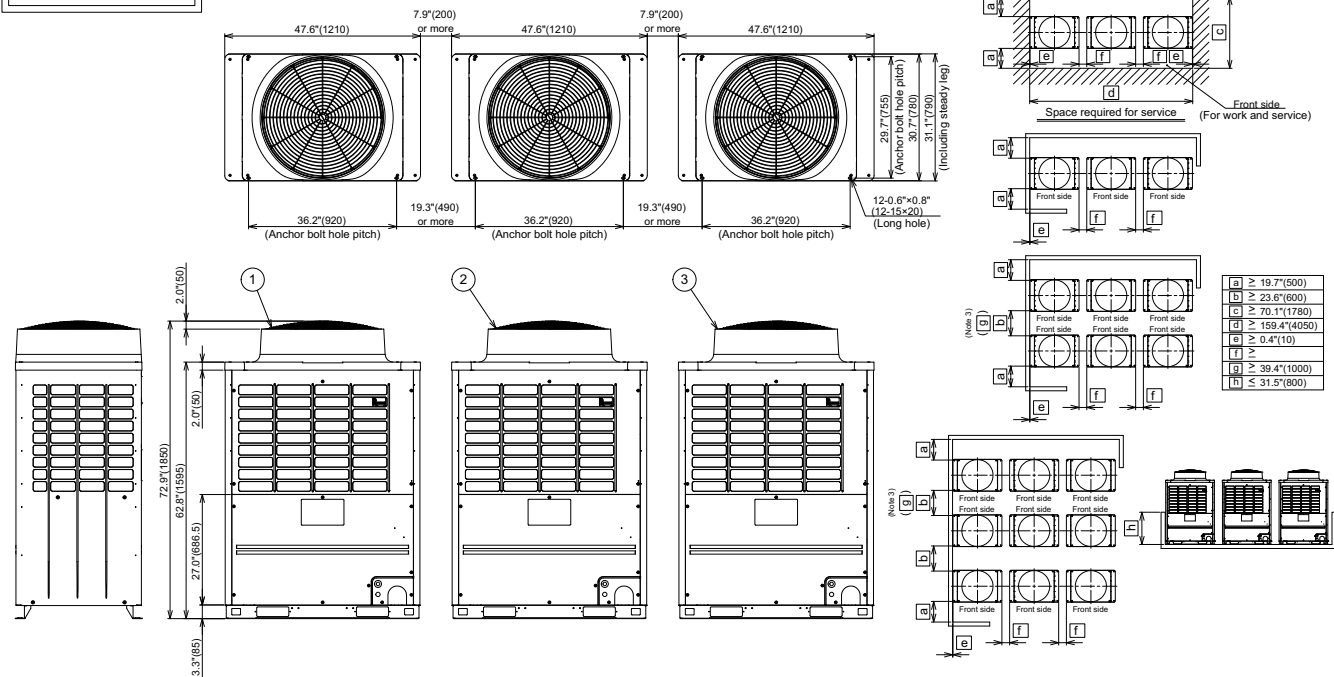
††Main pipe size leaving connection kit.

\*\*\*Additional charges 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.

DIMENSIONAL DRAWING  
OUTDOOR UNIT COMBINATION HEAT RECOVERY MMY-AP3606FT9P-UL

Three units connected



- (Note)
- 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.
  - Limit the height of the obstacle surrounding the outdoor unit to 31.5" (800mm) or less from the bottom end of the outdoor unit.
  - 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.
  - Arrange each outdoor unit in order of its capacity.  
(Header unit① ≥ Follower unit② ≥ Follower unit③)

All dimensions are shown in inches.

MODEL	OUTDOOR UNIT		
	HEADER UNIT ①	FOLLOWER UNIT ②	FOLLOWER UNIT ③
MMY-AP3606FT9P-UL	MMY-MAP1206FT9P-UL	MMY-MAP1206FT9P-UL	MMY-MAP1206FT9P-UL

# DIMENSIONAL DRAWING

## OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP1206FT9P-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.

