

# SHRMe VRF Outdoor Unit MMY-AP4566FT9P-UL - Heat Recovery

**TOSHIBA**  
*Carrier*

## Submittal Data

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



### 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

Header Unit Model	MMY-MAP1686FT9P-UL	
Follower Unit Model	MMY-MAP1446FT9P-UL MMY-MAP1446FT9P-UL	
PERFORMANCE		
Rated Cooling Capacity	Btu/h	430,000
Rated Heating Capacity	Btu/h	485,000
Maximum Total Connected Indoor Unit Capacity		Up to 150%
SIMULTANEOUS COOLING AND HEATING EFFICIENCY*		
SCHE, Ducted FCUs		20.80
SCHE, Ductless FCUs		23.20
COOLING EFFICIENCY*		
EER/IEER, Ducted FCUs		9.30/18.90
EER/IEER, Ductless FCUs		9.30/19.40
HEATING EFFICIENCY*		
COP at 47 F, Ducted FCUs		3.20
COP at 47 F, Ductless FCUs		3.20
Fan Type (Qty)		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	208-230/3/60
Minimum Circuit Amps (MCA)**	A	66.2 + 52.1 + 52.1
Recommended Fuse Size**	A	70 + 60 + 60

#### 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 6.5 + 2 x 5.4 + 2 x 5.4
<b>FAN MOTOR</b>		
Motor Type (Steps)		Inverter Direct Driven (64)
Motor Output	kW	1.0 + 1.0 + 1.0 + 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.	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
<b>REQUIRED ACCESSORY</b>		
Connection Kit		RBM-BT24FUL 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.

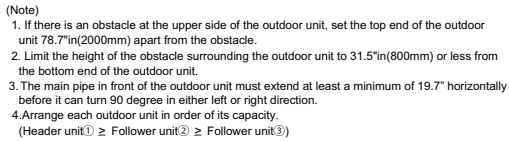
\*\*Separate power supply is required. MCA and fuse size for both units are given.

††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.

### Three units connected



MODEL	OUTDOOR UNIT		
	HEADER UNIT ①	FOLLOWER UNIT ②	
MMY-AP4566FT9P-UL	MMY-MAP1686FT9P-UL	MMY-MAP1446FT9P-UL	MMY-MAP1446FT9P-UL



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