

SHRMe VRF Outdoor Unit MMY-MAP1686FT6P-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-MAP1686FT6P-UL
PERFORMANCE		
Rated Cooling Capacity	Btu/h	160,000
Rated Heating Capacity	Btu/h	180,000
Maximum Total Connected Indoor Unit Capacity		Up to 150%
SIMULTANEOUS COOLING AND HEATING EFFICIENCY*		
SCHE, Ducted FCUs		26.90
SCHE, Ductless FCUs		30.20
COOLING EFFICIENCY*		
EER/IEER, Ducted FCUs		10.40/19.20
EER/IEER, Ductless FCUs		10.70/23.30
HEATING EFFICIENCY*		
COP at 47 F, Ducted FCUs		3.24
COP at 47 F, Ductless FCUs		3.44
Fan Type (Qty)		Propeller (2)
Airflow, Standard Range	CFM	10,852
Sound Pressure, Cooling/Heating	dBA	64/65
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.

ELECTRICAL		
Power Supply	V/Ph/Hz	460/3/60
Minimum Circuit Amps (MCA)	A	29.7
Recommended Fuse Size	A	35
COMPRESSORS		
Type (Number)		Inverter Twin Rotary (2)
Motor Output	kW	2 x 6.5
FAN MOTOR		
Motor Type (Steps)		Inverter Direct Driven (64)
Motor Output	kW	1.0 + 1.0
PHYSICAL DATA		
Pipe Connection Size - Liquid (High Pressure)	in.	3/4 (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.

