

# SHRMi VRF Outdoor Unit MMY-AP2404FT6UL - Heat Recovery

**TOSHIBA**  
*Carrier*

## Submittal Data

Job Data \_\_\_\_\_ Location \_\_\_\_\_  
 Buyer \_\_\_\_\_ Buyer PO # \_\_\_\_\_ Carrier # \_\_\_\_\_  
 Unit Number \_\_\_\_\_ Model Number \_\_\_\_\_  
 Performance Data Certified By \_\_\_\_\_ Date \_\_\_\_\_



### SHRMi VRF Heat Recovery Features

- Two 10-ton modules are combined to form a 20-ton system
- Capable of simultaneous cooling and heating (flow selector boxes required)
- Modules have 3 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
- 985 ft (300 m) actual total system piping (liquid line)
- 575 ft (175 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 109 F (-10 to 42.8 C)  
Heating (wb): -4 to 60 F (-20 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-MAP1204FT6UL	
Follower Unit Model	MMY-MAP1204FT6UL	
PERFORMANCE		
Nominal Cooling Capacity	Btu/h	240,000
Nominal Heating Capacity	Btu/h	270,000
Maximum Total Connected Indoor Unit Capacity	Up to 125%	
SIMULTANEOUS COOLING AND HEATING EFFICIENCY*		
SCHE, Ducted FCUs	26.91	
SCHE, Ductless FCUs	24.40	
COOLING EFFICIENCY*		
EER/IEER, Ducted FCUs	10.7/17.3	
EER/IEER, Ductless FCUs	9.6/17.9	
HEATING EFFICIENCY*		
COP at 47 F, Ducted FCUs	3.20	
COP at 47 F, Ductless FCUs	3.32	
Fan Type (Qty)	Propeller (2)	
Airflow, Standard Range	CFM	7620 + 7620
Combined System Sound Pressure, Cooling/Heating	dBA	66.5/68.5
External Static Pressure†	in. wg	0.16
ELECTRICAL		
Power Supply	V/Ph/Hz	460/3/60
Minimum Circuit Amps (MCA)**	A	30/30
Maximum Overcurrent Protection (MOCP)**	A	35/35

### 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

COMPRESSORS		
Type (Number)		Inverter Twin Rotary (6)
Motor Output	kW	3 x 2.7 + 3 x 2.7
FAN MOTOR		
Motor Type (Steps)	Inverter Direct Driven (64)	
Motor Output	kW	1.0 + 1.0
PHYSICAL DATA		
Main Pipe Connection Size - Liquid (High Pressure)††	in.	3/4 (Flare)
Main Pipe Connection Size - Gas (Low Pressure)††	in.	1-3/8 (Brazed)
Main Discharge (High Pressure)††	in.	1-1/8 (Brazed)
Balance	in.	3/8 (Flare)
Refrigerant	R-410A	
Factory Charge***	lb	2 x 25.4
External Finish	Munsell 1Y8.5/0.5	
Header Unit/Follower Unit Width	in.	47-9/16 / 47-9/16
Header Unit/Follower Unit Height	in.	72-7/8 / 72-7/8
Header Unit/Follower Unit Depth	in.	30-11/16 / 30-11/16
Header Unit/Follower Unit Net Weight	lb	826/826
REQUIRED ACCESSORY		
Connection Kit		RBM-BT14FUL

\*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 MOCP for both units are given.

††Main pipe size leaving connection kit.

\*\*\*Additional charges required.

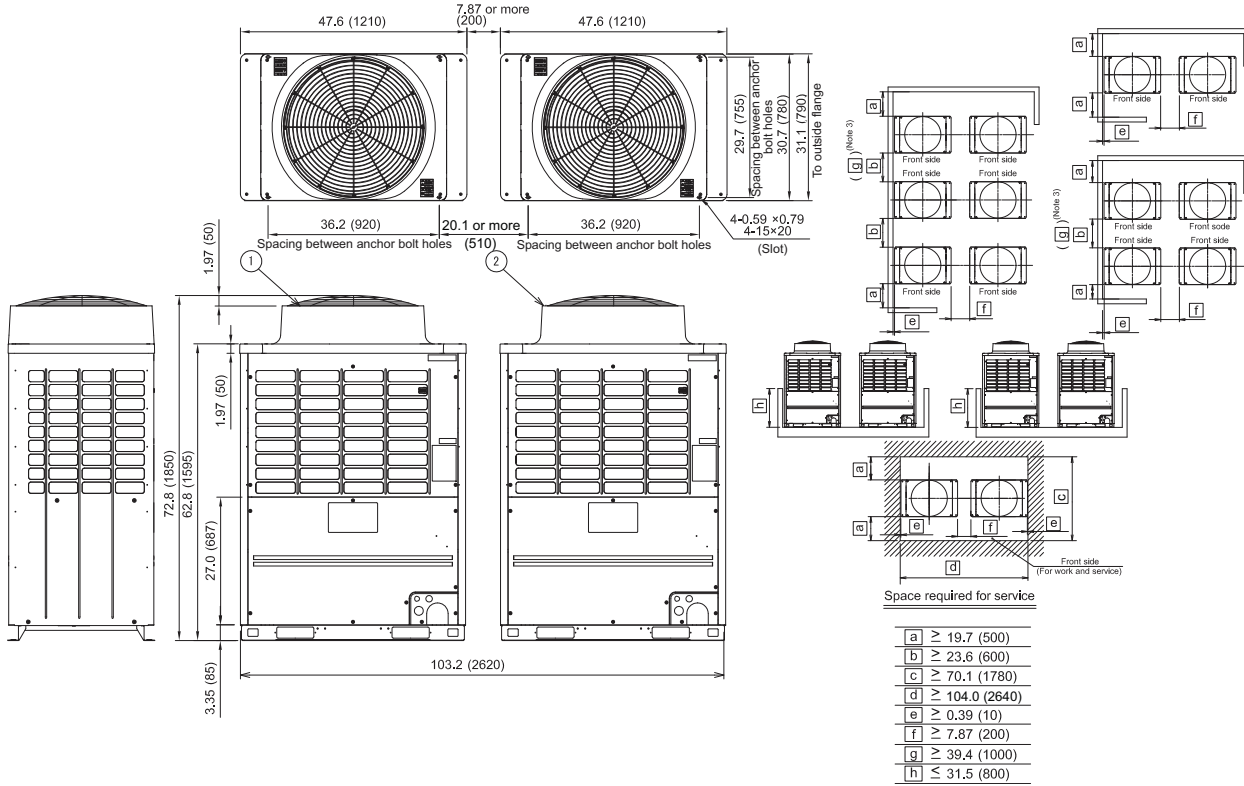
NOTE: Unit cabinet and coil slab shall be capable of withstanding 500-hour salt spray test in accordance with the ASTM (American Society for Testing and Materials, U.S.A.) B-117 Standard.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

# DIMENSIONAL DRAWING OUTDOOR UNIT COMBINATION HEAT RECOVERY MMY-AP2404FT6UL

**NOTES:**

1. A minimum clearance of 78.7" (2000 mm) is required above the unit.
2. Any wall or barrier should not exceed 31.5" (800 mm) from the bottom of the unit.
3. If the interconnecting pipe exits the front of outdoor unit, it must extend at least a minimum of 19.7" (500 mm) before it can turn 90 degrees in either left or right direction.
4. Outdoor units are identified based on capacity: Header Unit (1) ≥ Follower Unit (2).
5. Dimensions are in inches (mm).



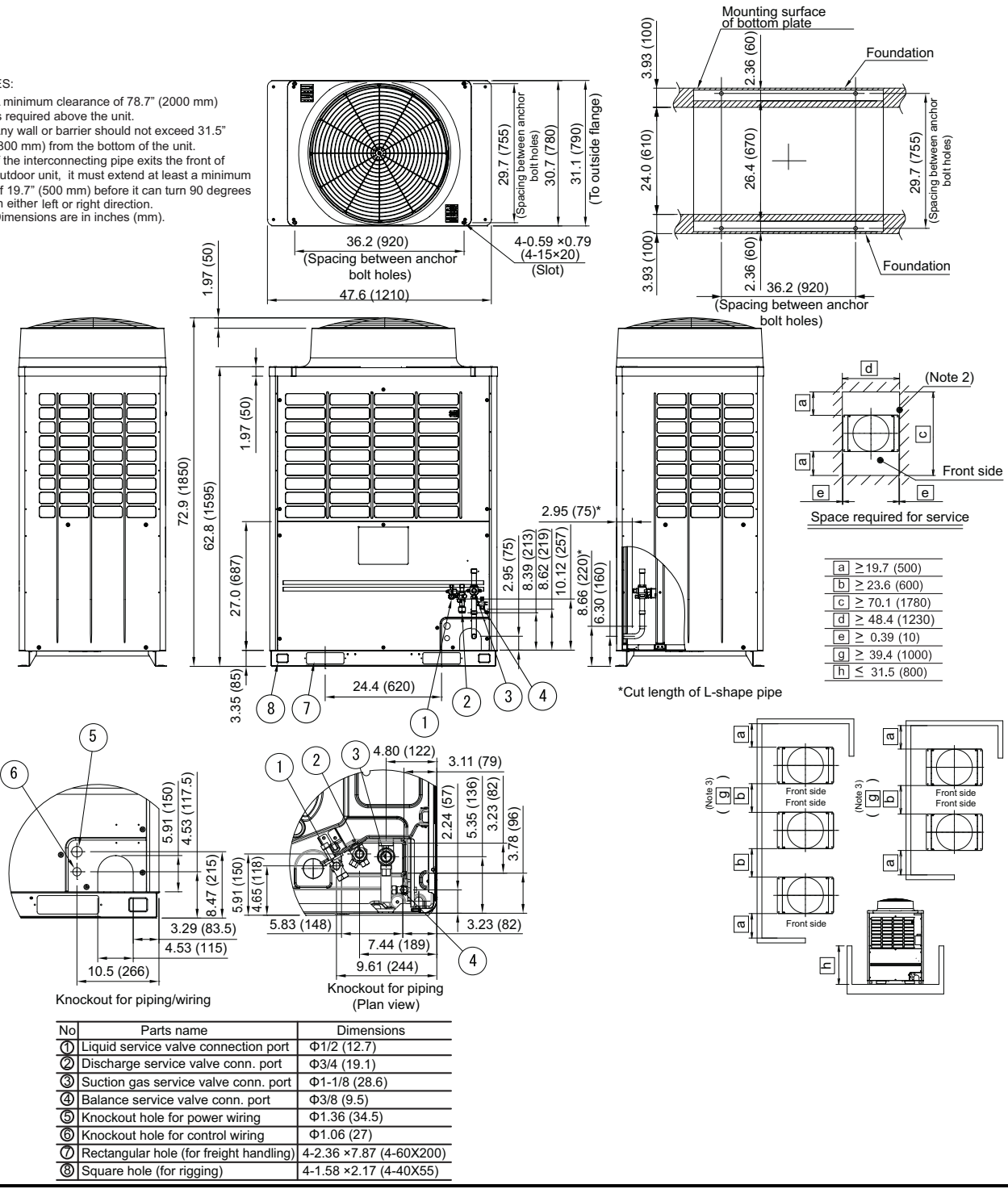
MODEL	OUTDOOR UNIT	
	HEADER UNIT (1)	FOLLOWER UNIT (2)
MMY-AP2404FT6UL	MMY-MAP1204FT6UL	MMY-MAP1204FT6UL

# DIMENSIONAL DRAWING

## OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP1204FT6UL

**NOTES:**

1. A minimum clearance of 78.7" (2000 mm) is required above the unit.
2. Any wall or barrier should not exceed 31.5" (800 mm) from the bottom of the unit.
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4. Dimensions are in inches (mm).



No	Parts name	Dimensions
①	Liquid service valve connection port	Φ1/2 (12.7)
②	Discharge service valve conn. port	Φ3/4 (19.1)
③	Suction gas service valve conn. port	Φ1-1/8 (28.6)
④	Balance service valve conn. port	Φ3/8 (9.5)
⑤	Knockout hole for power wiring	Φ1.36 (34.5)
⑥	Knockout hole for control wiring	Φ1.06 (27)
⑦	Rectangular hole (for freight handling)	4-2.36 x 7.87 (4-60X200)
⑧	Square hole (for rigging)	4-1.58 x 2.17 (4-40X55)

