

# SHRMi VRF Outdoor Unit MMY-MAP0964FT9UL - 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

- 6, 8, and 10-ton modules available
- Capable of simultaneous cooling and heating (flow selector boxes required)
- Modules have 2 or 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
- Modules can be combined to form larger systems, up to 28 tons
- 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
- 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-MAP0964FT9UL	
<b>PERFORMANCE</b>		
Nominal Cooling Capacity	Btu/h	96,000
Nominal Heating Capacity	Btu/h	108,000
Maximum Total Connected Indoor Unit Capacity		Up to 125%
<b>SIMULTANEOUS COOLING AND HEATING EFFICIENCY*</b>		
SCHE, Ducted FCUs		27.12
SCHE, Ductless FCUs		23.90
<b>COOLING EFFICIENCY*</b>		
EER/IEER, Ducted FCUs		11.0/15.7
EER/IEER, Ductless FCUs		11.7/20.0
<b>HEATING EFFICIENCY*</b>		
COP at 47 F, Ducted FCUs		3.33
COP at 47 F, Ductless FCUs		3.40
Fan Type (Qty)		Propeller (1)
Airflow, Standard Range	CFM	7060
Sound Pressure, Cooling/Heating	dBA	62/63
External Static Pressure†	in. wg	0.16

#### LEGEND

<b>db</b>	—	Dry Bulb
<b>COP</b>	—	Coefficient of Performance
<b>EER</b>	—	Energy Efficiency Ratio
<b>FCU</b>	—	Fan Coil Unit
<b>IEER</b>	—	Integrated Energy Efficiency Ratio
<b>SCHE</b>	—	Simultaneous Cooling and Heating Efficiency
<b>wb</b>	—	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.

<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	208-230/3/60
Minimum Circuit Amps (MCA)	A	50
Maximum Overcurrent Protection (MOCP)	A	60
<b>COMPRESSORS</b>		
Type (Number)		Inverter Twin Rotary (3)
Motor Output	kW	3 x 2.1
<b>FAN MOTOR</b>		
Motor Type (Steps)		Inverter Direct Driven (64)
Motor Output	kW	1.0
<b>PHYSICAL DATA</b>		
Pipe Connection Size - Liquid (High Pressure)	in.	1/2 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in.	7/8 (Brazed)
Discharge (High Pressure)	in.	3/4 (Brazed)
Balance	in.	3/8 (Flare)
Refrigerant		R-410A
Factory Charge**	lb	25.4
External Finish		Munsell 1Y8.5/0.5
Unit Width	in.	47 9/16
Unit Height	in.	72-7/8
Unit Depth	in.	30-11/16
Unit Net Weight	lb	751

\*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.

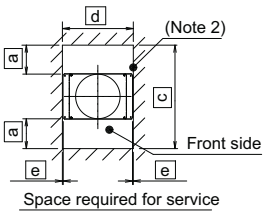
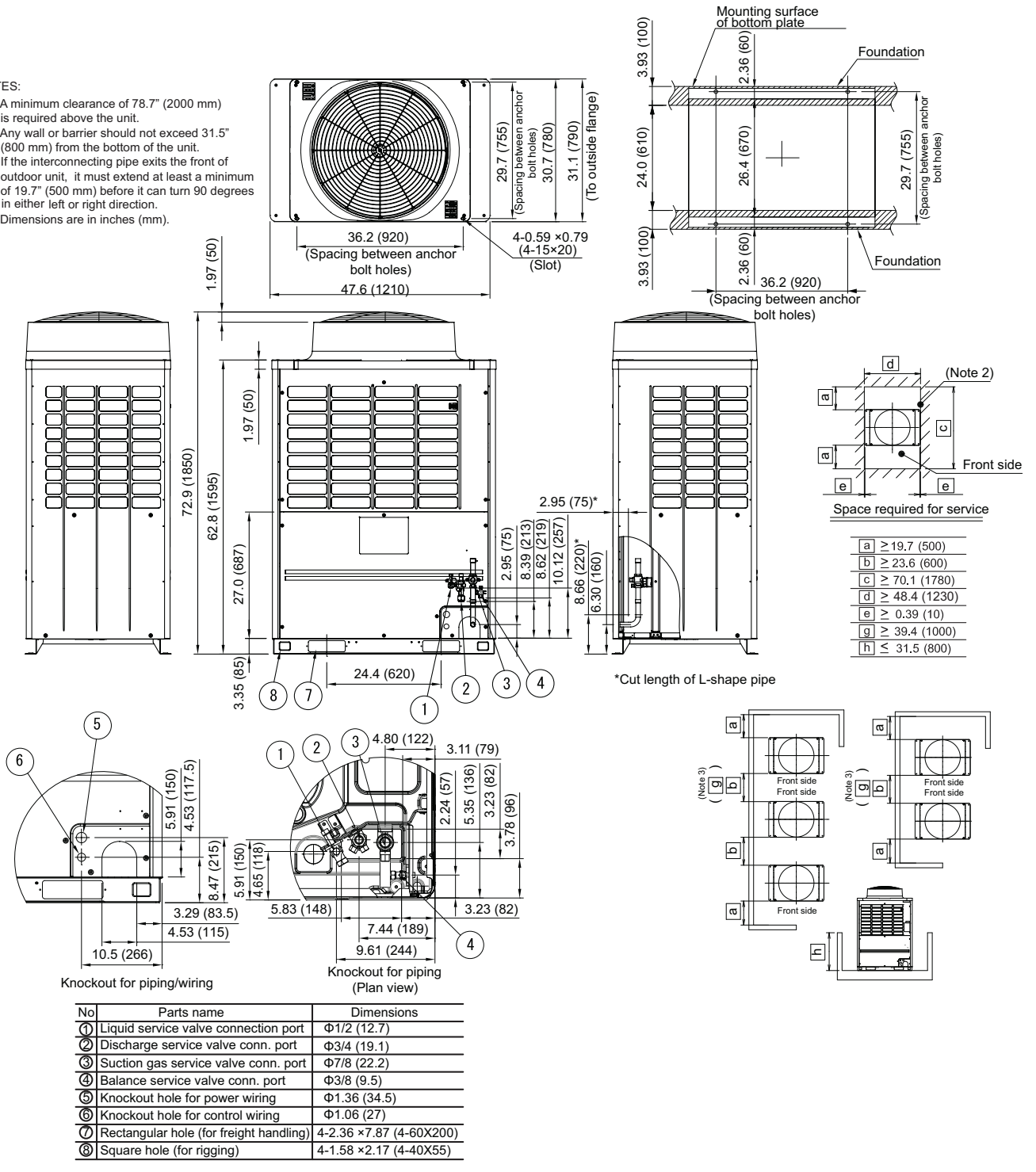
\*\*Additional charge required.

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

# DIMENSIONAL DRAWING OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP0964FT9UL

**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. Dimensions are in inches (mm).



a	≥ 19.7 (500)
b	≥ 23.6 (600)
c	≥ 70.1 (1780)
d	≥ 48.4 (1230)
e	≥ 0.39 (10)
g	≥ 39.4 (1000)
h	≤ 31.5 (800)

\*Cut length of L-shape pipe

Knockout for piping/wiring

Knockout for piping (Plan view)

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	Φ7/8 (22.2)
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 × 7.87 (4-60X200)
⑧	Square hole (for rigging)	4-1.58 × 2.17 (4-40X55)

