

# SMMSi Single VRF Outdoor Unit MMY-AP2284HT6UL - Heat Pump

**TOSHIBA**  
*Carrier*

## Submittal Data

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



### SMMSi VRF Heat Pump Features

- Two 10-ton modules are twinned to form a 20-ton system
- 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)
- 590 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 the outdoor unit and indoor units
- Operating temperature range  
Cooling (db): 23 to 115 F (-5 to 46 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-MAP1144HT6UL	
Follower Unit Model	MMY-MAP1144HT6UL	
<b>PERFORMANCE</b>		
Nominal Cooling Capacity	Btu/h	228,000
Heating Rated Capacity	Btu/h	256,000
Maximum Total Connected Indoor Unit Capacity		Up to 125%
<b>COOLING EFFICIENCY*</b>		
EER/IEER, Ducted FCUs		10.6/17.0
EER/IEER, Ductless FCUs		10.6/17.7
<b>HEATING EFFICIENCY*</b>		
COP at 47 F, Ducted FCUs		3.20
COP at 47 F, Ductless FCUs		3.35
Fan Type (Qty)		Propeller (2)
Airflow, Standard Range	CFM	7060 + 7060
Twinned System Sound Pressure, Cooling/Heating	dBA	65/66
External Static Pressure†	in. wg	0.20
<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	460/3/60
Minimum Circuit Amps (MCA)**	A	24/24
Maximum Overcurrent Protection (MOCP)**	A	25/25

#### 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>wb</b>	—	Wet Bulb

<b>COMPRESSORS</b>		
Type (Number)	Inverter Twin Rotary (6)	
Motor Output	kW	6 x 2.5
<b>FAN MOTOR</b>		
Motor Type (Steps)	Inverter Direct Driven (64)	
Motor Output	kW	1.0 + 1.0
<b>PHYSICAL DATA</b>		
Pipe Connection Size - Liquid (High Pressure)††	in.	3/4 (Flare)
Pipe Connection Size - Gas (Low Pressure)††	in.	1-3/8 (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	817 / 817
<b>REQUIRED ACCESSORY</b>		
Twining Kit	RBM-BT14UL	

\*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 required. MCA and MOCP for both units shown.

††Main pipe size leaving twining 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.

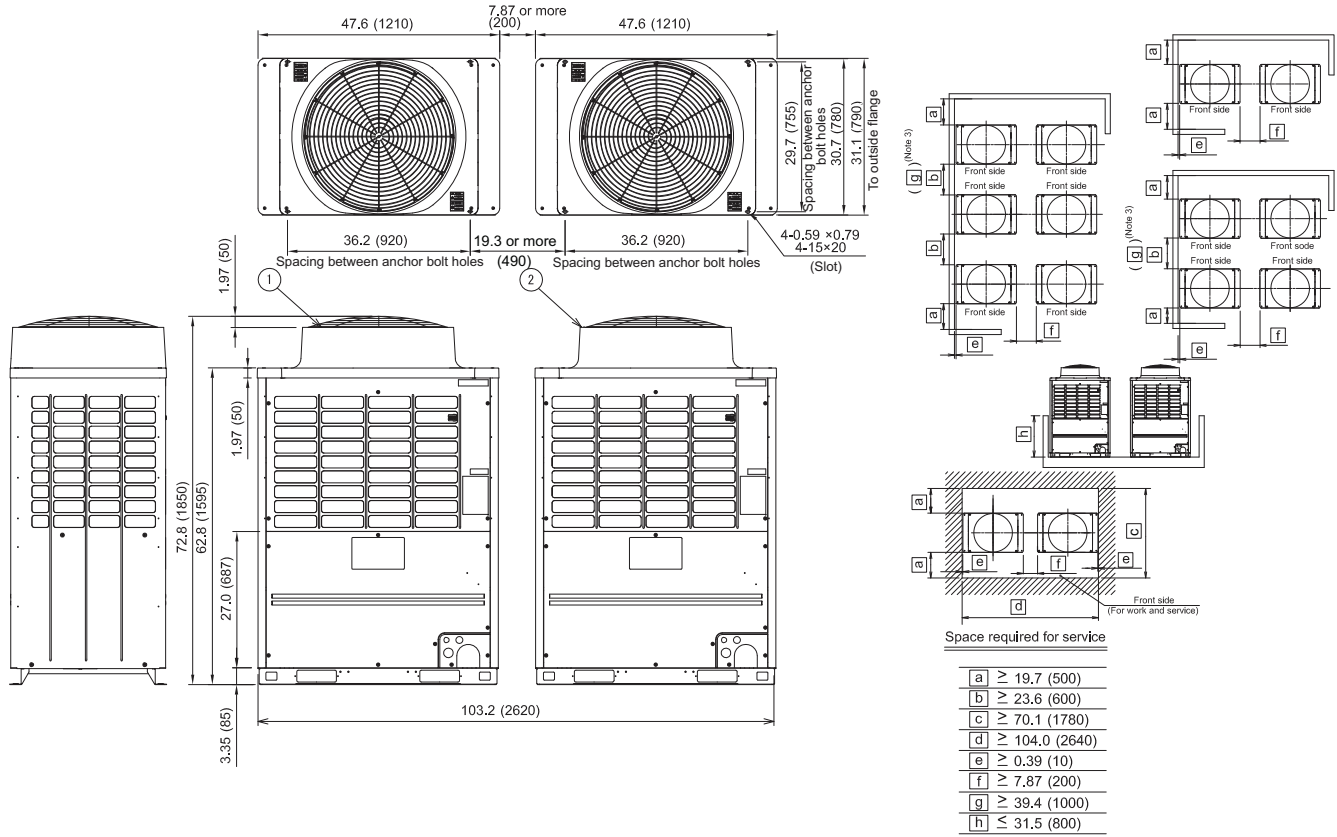
# DIMENSIONAL DRAWING

## OUTDOOR UNIT COMBINATION: HEAT PUMP/TWINNED UNIT

### MMY-AP2284HT6UL

**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-AP2284HT6UL	MMY-MAP1144HT6UL	MMY-MAP1144HT6UL

# DIMENSIONAL DRAWING

## OUTDOOR UNIT: HEAT PUMP/SINGLE UNIT MMY-MAP1144HT6UL

**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).

