

# SMMS-e Single VRF Outdoor Unit MMY-MAP0966HT9P-UL - Heat Pump

**TOSHIBA**  
*Carrier*

## Submittal Data

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



### SMMS-e VRF Heat Pump Features

- 6, 8, 10, 12, & 14-ton modules available
- 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
- 985 ft (300 m) actual total system piping (liquid line)
- 623 ft (190 m) actual piping length from outdoor unit to furthest fan coil
- Up to 330 ft (100 m) control wiring between outdoor units
- Up to 6560 ft (2000 m) control wiring between the outdoor units 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, process controller board fuse, inverter overload protection
- 7-year compressor limited warranty, 5-year parts limited warranty

Header Unit Model		MMY-MAP0966HT9P-UL
<b>PERFORMANCE</b>		
Rated Cooling Capacity	Btu/h	92,000
Rated Heating Capacity	Btu/h	103,000
Maximum Total Connected Indoor Unit Capacity*		Up to 150%
<b>COOLING EFFICIENCY†</b>		
EER/IEER, Ducted FCUs		13.30 / 22.30
EER/IEER, Ductless FCUs		12.60 / 28.00
<b>HEATING EFFICIENCY†</b>		
COP at 47 F, Ducted FCUs		4.00
COP at 47 F, Ductless FCUs		4.50
Fan Type (Qty)		Propeller (1)
Airflow, Standard Range	CFM	7480
Sound Pressure, Cooling/Heating	dBA	61/61
External Static Pressure**	in. wg	0.16
<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	208-230/3/60
Minimum Circuit Amps (MCA)	A	36
Recommended Fuse Size	A	40

<b>COMPRESSORS</b>		
Type (Number)		Inverter Twin Rotary (2)
Motor Output	kW	2 x 3.0
<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)
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	684

### LEGEND

db — Dry Bulb  
COP — Coefficient of Performance  
EER — Energy Efficiency Ratio  
FCU — Fan Coil Unit  
IEER — Integrated Energy Efficiency Ratio  
wb — Wet Bulb

\*When total connected indoor unit capacity exceeds 135%, number and types of indoor units are limited.

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 1230 Standard.

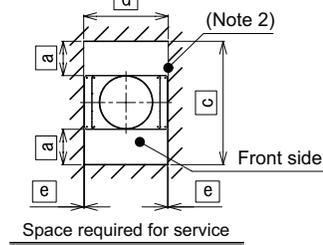
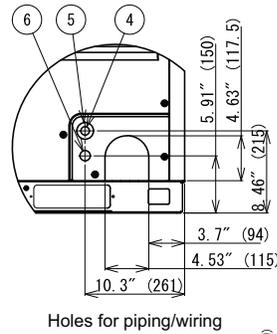
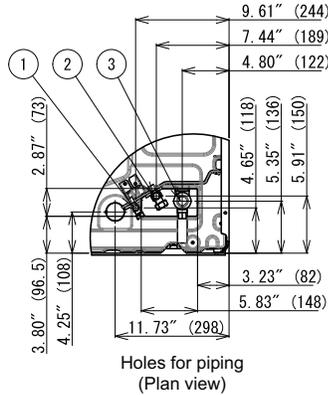
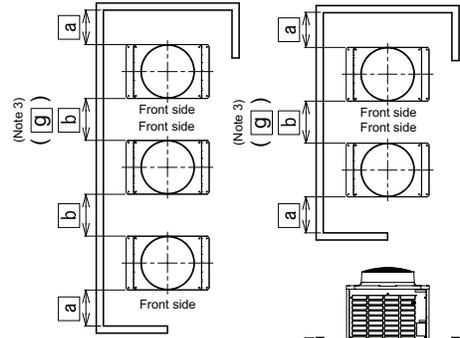
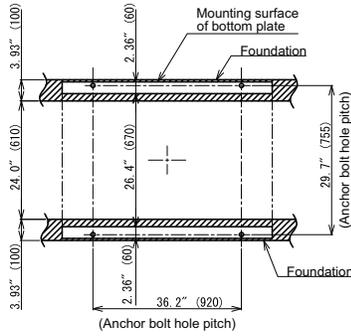
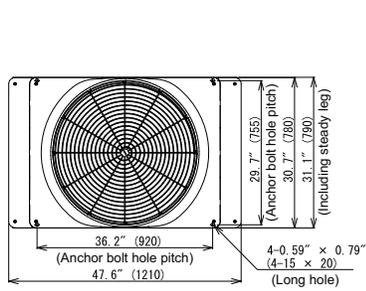
Cooling: Indoor 80 F (27 C) db/67 F (20 C) wb; Outdoor 95 F (35 C) db  
Heating: Indoor 70 F (21 C) db; Outdoor 47 F (8 C) db/43 F (6 C) wb

\*\*Requires setting by DIP switches.

††Additional charge required.

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.

# DIMENSIONAL DRAWING OUTDOOR UNIT HEAT PUMP/SINGLE UNIT MMY-MAP0966HT9P-UL



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)

No	Parts name	Remarks
①	Balance pipe connection port	φ3/8" (9.5)
②	Liquid pipe connection port	φ1/2" (12.7)
③	Discharge gas pipe connection port	φ1" (25.4)
④	Knockout hole for power wiring 1	φ0.87" (22.2)
⑤	Knockout hole for power wiring 2	φ1.72" (43.7)
⑥	Knockout hole for control wiring	φ1.06" (27)
⑦	Square hole (for freight handling)	4-2.36" x 7.87" (4-60x200)
⑧	Square hole (for hanging)	4-1.58" x 2.17" (4-40x55)

**NOTES:**

- A minimum clearance of 78.7 in. (2000 mm) is required above the unit.
- Any wall or barrier should not exceed 31.5 in. (800 mm) from the bottom of the unit.
- The main pipe in front of the unit must extend at least a minimum of 19.7 in. (500 mm) before it can turn 90 degrees in either left or right direction.
- Dimensions in parentheses are in millimeters.

