### SHRMe VRF Outdoor Unit MMY-AP4086FT9P-UL - Heat Recovery



## **Submittal Data**

Job Name	Location
Tag	



#### SHRMe VRF Heat Recovery Features

- and 10-ton modules combined to form a 34-ton system
- 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 efficiency
- Direct drive, inverter-driven 64-step outdoor motor
- 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 fuse, inverter overload board protection
- 7-year compressor limited warranty, 5-year parts limited warranty

Header Unit Model	NANAX I	MAD4446ETOD III			
Header Offic Model	MMY-MAP1446FT9P-UL				
Follower Unit Model	MMY-MAP1446FT9P-UL MMY-MAP1206FT9P-UL				
PERFORMANCE	_				
Rated Cooling Capacity	Btu/h	390,000			
Rated Heating Capacity	Btu/h	435,000			
Maximum Total Connected Indoor Unit Capacity		Up to 150%			
SIMULTANEOUS COOLING AND HEATING EFFICIENCY*					
SCHE, Ducted FCUs		21.10			
SCHE, Ductless FCUs	23.50				
COOLING EFFICIENCY*					
EER/IEER, Ducted FCUs		9.50/19.40			
EER/IEER, Ductless FCUs		9.60/21.90			
HEATING EFFICIENCY*					
COP at 47 F, Ducted FCUs		3.27			
COP at 47 F, Ductless FCUs		3.22			
Fan Type (Qty)		Propeller (5)			
Airflow, Standard Range	CFM	10,852 + 10,852 + 7700			
Combined System Sound Pressure, Cooling/Heating	dBA	67.5/68.8			
External Static Pressure†	in. wg	0.16			
ELECTRICAL					
Power Supply	V/Ph/Hz	208-230/3/60			
Minimum Circuit Amps (MCA)**	Α	52.1 + 52.1 + 45.4			
Recommended Fuse Size**	Α	60 + 60 + 50			

LEGEND

Dry Bulb Coefficient of Performance EER FCU Energy Efficiency Ratio Fan Coil Unit

Integrated Energy Efficiency Ratio

Simultaneous Cooling and Heating Efficiency SCHE

COMPRESSORS					
Type (Number)		Inverter Twin Rotary (6)			
Motor Output	kW	2 x 5.4 + 2 x 5.4 + 2 x 4.0			
FAN MOTOR					
Motor Type (Steps)	Inverter Direct Driven (64)				
Motor Output	kW	1.0+1.0+1.0+1.0+1.0			
PHYSICAL DATA					
Main Pipe Connection Size - Liquid (High Pressure)††	in.	7/8 (Flare)			
Main Pipe Connection Size - Gas (Low Pressure)††	in.	1-5/8 (Brazed)			
Main Discharge (High Pressure)††	in.	1-3/8 (Flare)			
Balance	in.	3/8 (Flare)			
Refrigerant		R-410A			
Factory Charge***	lb	3 x 24.3			
External Finish	Munsell 1Y8.5/0.5				
Header Unit/Follower Unit Width	in.	63.0 / 63.0 / 47.6			
Header Unit/Follower Unit Height	in.	72.9 / 72.9 / 72.9			
Header Unit/Follower Unit Depth	in.	30.7 / 30.7 / 30.7			
Header Unit/Follower Unit Net Weight	lb	838 + 838 + 684			
REQUIRED ACCESSORY					
Connection Kit		RBM-BT24FUL RBM-BT24FUL			

<sup>\*</sup>Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 1230

Standard.

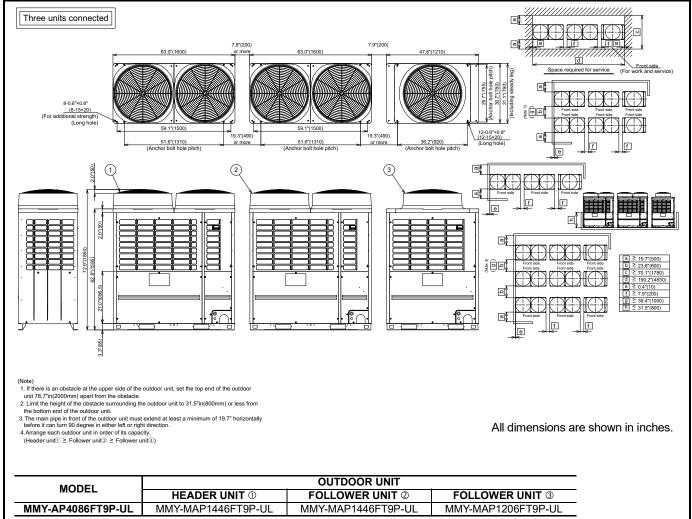
Cooling: Indoor 80 F (35 C) db/67 F (27 C) wb; Outdoor 95 F (35 C) db
Heating: Indoor 70 F (21 C) db; Outdoor 47 F (8 C) db/43 F (6 C) wb
†Requires setting by DIP switches.

\*\*Separate power supply is required. MCA and fuse size for both units are given.

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.

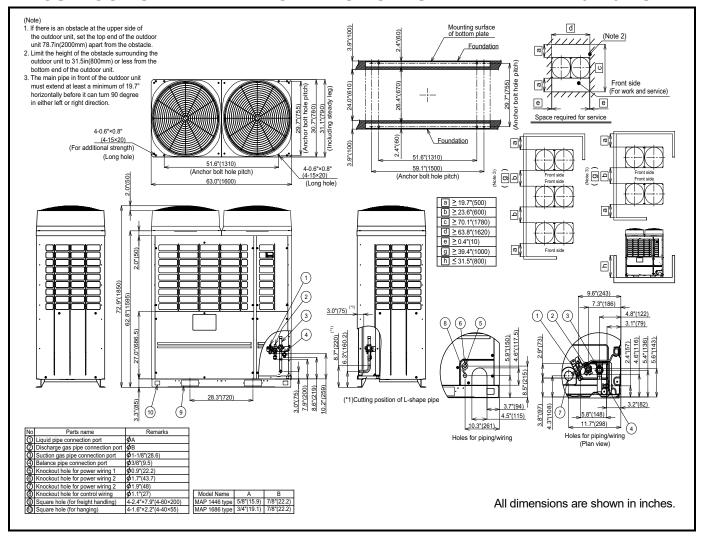
<sup>††</sup>Main pipe size leaving connection kit.
\*\*\*Additional charges required.

### **DIMENSIONAL DRAWING OUTDOOR UNIT COMBINATION HEAT RECOVERY MMY-AP4086FT9P-UL**

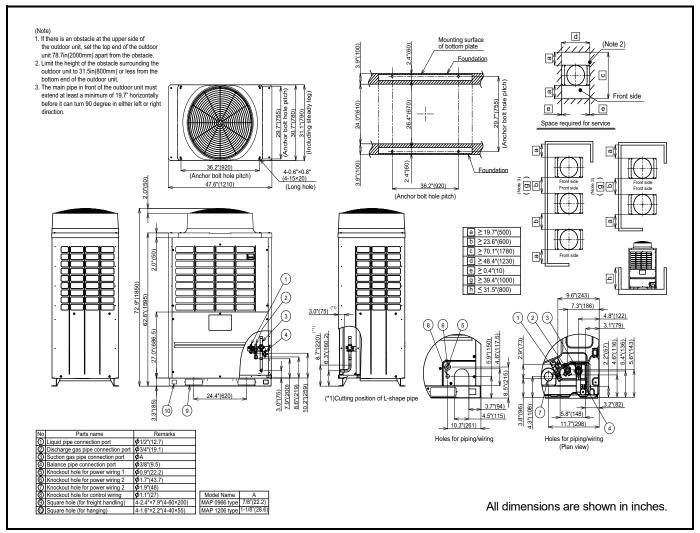


MODEL	OUTDOOR UNIT		
MODEL	HEADER UNIT ①	FOLLOWER UNIT ②	FOLLOWER UNIT ③
MMY-AP4086FT9P-UL	MMY-MAP1446FT9P-UL	MMY-MAP1446FT9P-UL	MMY-MAP1206FT9P-UL

# DIMENSIONAL DRAWING OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP1446FT9P-UL



# DIMENSIONAL DRAWING OUTDOOR UNIT HEAT RECOVERY/SINGLE UNIT MMY-MAP1206FT9P-UL







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