

## VRF ODU Unit – 12T

MVHQ144ME2CA



### FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at  $\pm 0.5^{\circ}\text{F}$ .
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Submitted To: \_\_\_\_\_

Construction: \_\_\_\_\_

Reference: \_\_\_\_\_

Approval: \_\_\_\_\_

Date: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Unit: \_\_\_\_\_

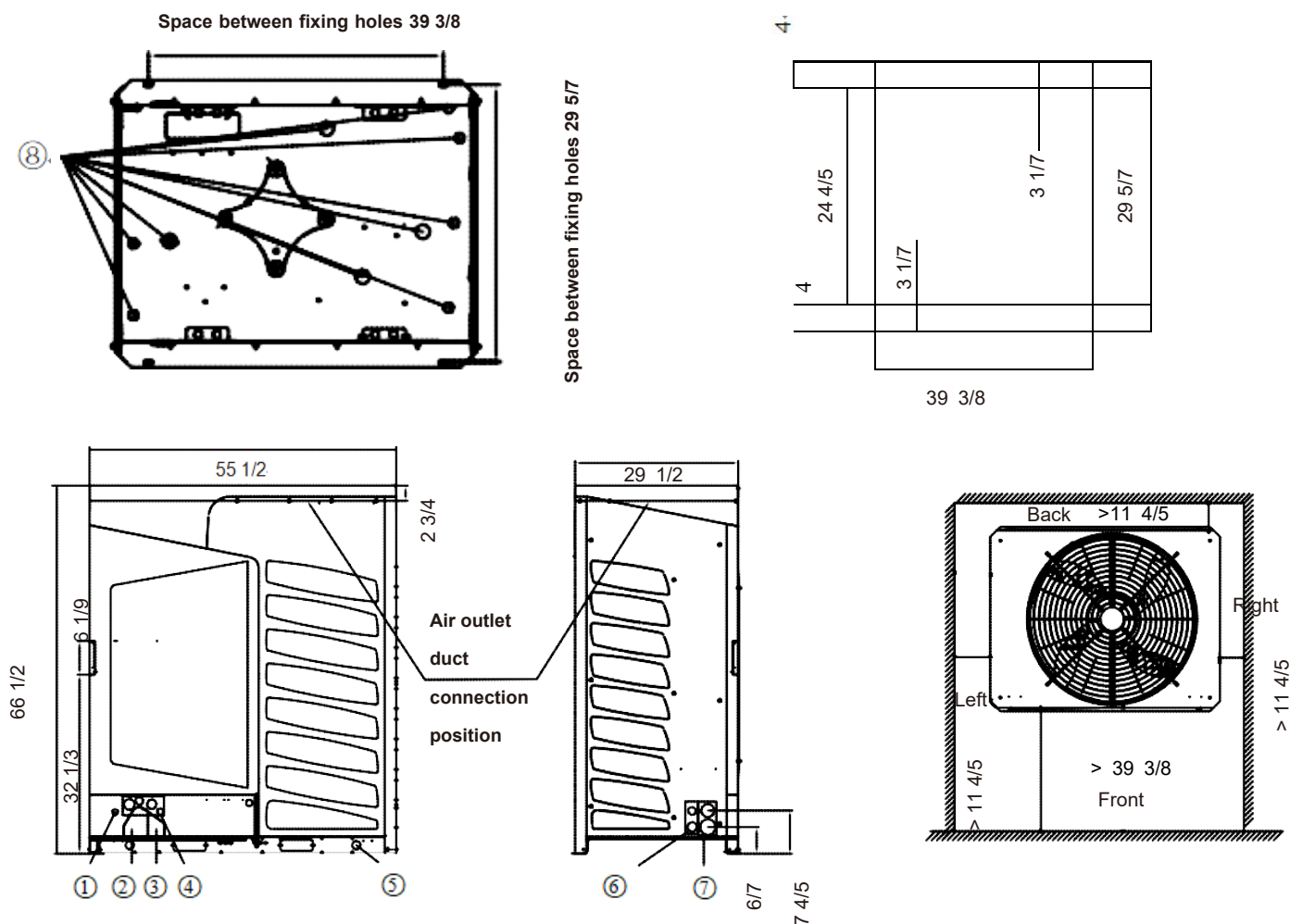
Drawing #: \_\_\_\_\_

**SPECIFICATIONS**

Marketing Model name		MVHQ144ME2CA	<p>Notes</p> <p>Compatible with all Haier MRV indoor units.</p> <p><b>Structure</b></p> <p>The unit shall be galvanized steel with a powder coated finish.</p> <p>Hinge access door design for easier installation and maintenance.</p> <p><b>Heat Exchanger</b></p> <p>The heat exchanger shall be mechanically bonded fin to copper tube.</p> <p>The aluminum fins of the heat exchanger shall have a protective coating.</p> <p>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.</p> <p><b>Refrigerant System</b></p> <p>EVI compressors provide advanced low ambient heating performance.</p> <p>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.</p> <p>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.</p> <p><b>Automatic oil balancing</b></p> <p>The oil is balanced automatically internally which simplifies system design and improves reliability.</p> <p><b>Agency</b></p> <p>Certified to latest version AHRI standard 1230.</p> <p><b>Snow hood accessory</b></p> <p>Compatible to optional snow hood accessories to protect unit in worst the weather.</p> <p><b>Recommendation:</b></p> <p>The minimum number of indoor machine connections is greater than or equal to 2.</p>
Nominal Capacity (Btu/h)		144000	
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	138000	
	EER @95 °F	10.80	
	IEER	20.00	
	Rated Heating Capacity @47°F(Btu/h)	154000	
	COP @ 47°F	3.40	
	Rated Heating Capacity@17°F(Btu/h)	108000	
	COP @ 17°F	2.40	
	SCHE	21.6	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	138000	
	EER @95 °F	10.80	
	IEER	20.30	
	Rated Heating Capacity @47°F(Btu/h)	154000	
	COP @ 47°F	3.40	
	Rated Heating Capacity@17°F(Btu/h)	108000	
	COP @ 17°F	2.40	
	SCHE	20.6	
Electrical	MCA (A) / MOP (A)	56/80	
Operation Range	Working temp. Cooling F°+ Snow hood	-4°F -122°F	
	Working temp. Heating F°	-22°F ~60°F	
ODU	Dimension: H*W*D	66-1/2*55-1/2*29-1/2	
	Refrigerant charge (oz.)	783.1	
	Net Weight- lbs	895	
Compressor	Type	Scroll	
	Qty	2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	24	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/2	
	CFM	9942	
Refrigerant piping	Liquid pipe O.D. I in	1/2	
	Gas pipe O.D. i in	1 1/8	
	High Gas pipe O.D. i in	1 1/8	
Sound	Sound Level dB(A)	62	

**Drawing**

UNIT: Inches



No.	Name Remark	
1	Signal line hole(Ø1)	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection
5	Hoisting hole	
6	Power supply of signal line hole	
7	Refrigerant pipe outlet	
8	Drain hole	