

# **MVHR144ME2CA**

MRV 5 Series Heat Recovery 12 Tons



# **Submittal Data Sheet**

Job Name:		
Location:		
Date:		
Tag:		
Reference	Annroval	Construction

## **Specifications**

Performance <sup>1</sup>	
Cooling Capacity	138,000 Btu/h
Heating Capacity	154,000 Btu/h
EER (ducted/non-ducted)	11.0/11.4
IEER (ducted/non-ducted)	20.8/22.0
SCHE (ducted/non-ducted)	24.5/26.7
COP 47F (ducted/non-ducted)	3.50/3.50

Technical Details		
Compressor Type	DC Inverter x 2	
Compressor RLA	20.5 + 20.5	
Condenser Fan Qty	2	
Condenser Fan Type	Propeller	
Condenser Fan CFM	10,500	
Factory Refrigerant Charge	43.65 lbs.	

Electrical	
Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A
Maximum Overcurrent Protection	80A

Sound Levels <sup>2</sup>		
Sound Power Level, dB(A)	83	
Dimensions		
Height (in.)	66 1/2	
Width (in.)	55 1/2	
Depth (in.)	29 1/2	
Weight (lb.)	871	

Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	
Total System length	3280 ft.	
ODU to furthest IDU	722 ft.	
ODU above IDU	295 ft.	
ODU below IDU	361 ft.	

#### **Features and Benefits**

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- · Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty<sup>2</sup>

### **Notes**

 Cooling and heating capacities are based on the following temperatures:

Cooling Indoor: 80°F DB, 67°F WB Cooling Outdoor: 95°F DB Heating Indoor: 70°F DB

Heating Outdoor: 47°F WB, 43°F WB

- Refer to warranty documentation for complete warranty details.
- 3. Refer to installation manual for complete installation requirements.



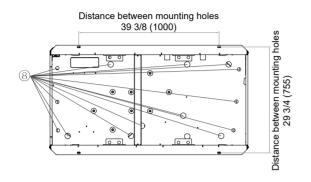


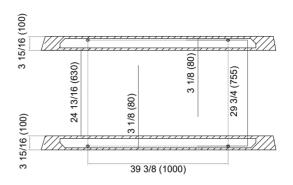


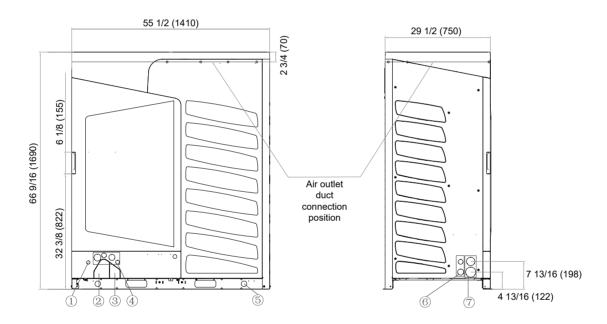


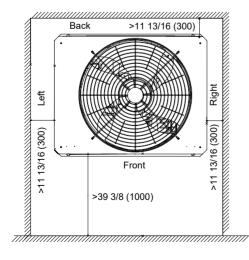
## Dimensional Drawings

MVHR144ME2CA Unit: inch (mm)









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