Haier

Submittal Data Sheet

MVHP168ME2CA

MRV 5 Series Heat Pump
14 Tons

Job Name: _____
Location: _____
Date: _____
Tag: _____

☐ Reference ☐ Approval ☐ Construction

Specifications

Performance[1]	
Cooling Capacity	161,000 Btu/h
Heating Capacity	180,000 Btu/h
EER (ducted/non-ducted)	11.40/11.60
IEER (ducted/non-ducted)	21.60/22.60
SCHE (ducted/non-ducted)	N/A
COP 47F (ducted/non-ducted)	3.40/3.40
Technical Details	
Compressor Type	DC Inverter 1+1
Compressor RLA	22.8 + 16.7
Condenser Fan Qty	2+1
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 7,900
Factory Refrigerant Charge	47.18 + 31.97 lb
Electrical	
Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5A + 29.3A
Maximum Overcurrent Protection	40A + 40A
Sound Levels[2]	
Sound Power Level, dB(A)	81+77
Piping	
Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- 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 25.0
- 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[2]

Notes

1. 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
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5 DC INVERTER MRV-S SERIES

c ETL US LISTED Intertek

Haier

Submittal Data Sheet

MVHP168ME2CA

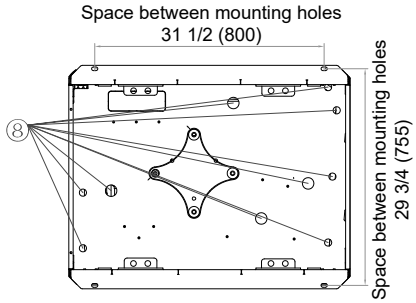
MRV 5 Series Heat Pump
14 Tons

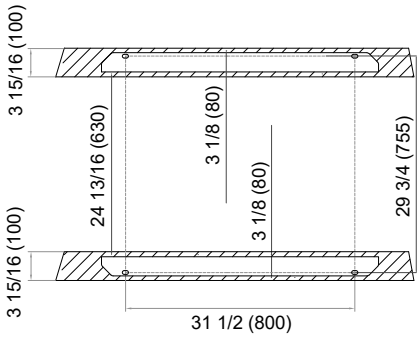
	Module 1 MVHP096ME2CA	Module 2 MVHP072ME2CA
Technical Details		
Compressor Type	DC Inverter x 1	DC Inverter x 1
Compressor RLA	22.8 A	16.7 A
Condenser Fan Qty	2	1
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	7,900
Factory Refrigerant Charge	47.18 lbs.	31.97 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5 A	29.3 A
Maximum Overcurrent Protection	40 A	40 A
Sound Levels[2]		
Sound Power Level, dB(A)	81	77
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	38 5/8
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	750	597
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	1/2" x 1"

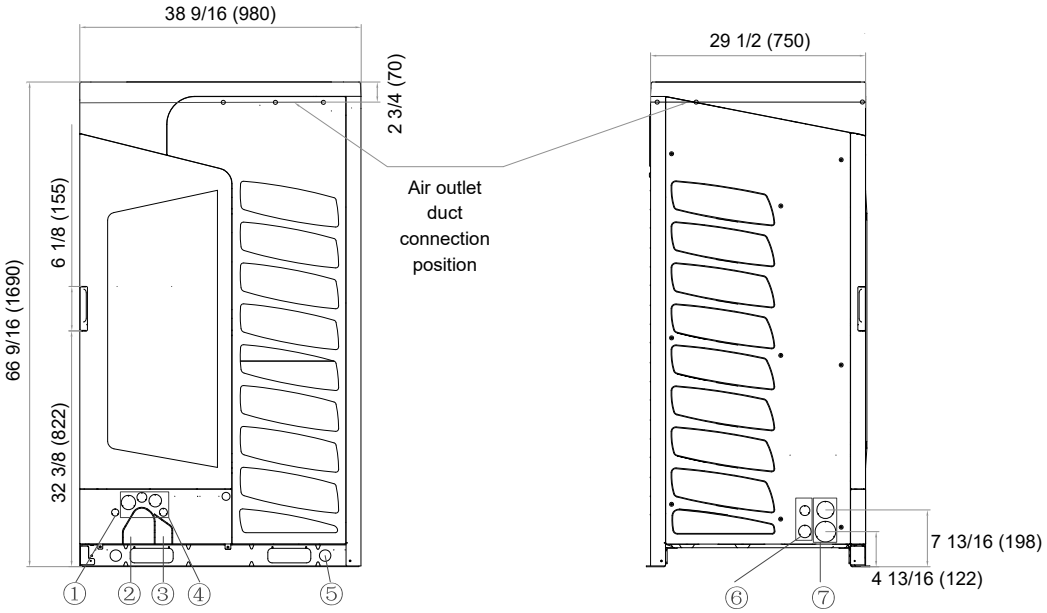
Dimensional Drawings

MVHP072ME2CA

Unit: inch (mm)





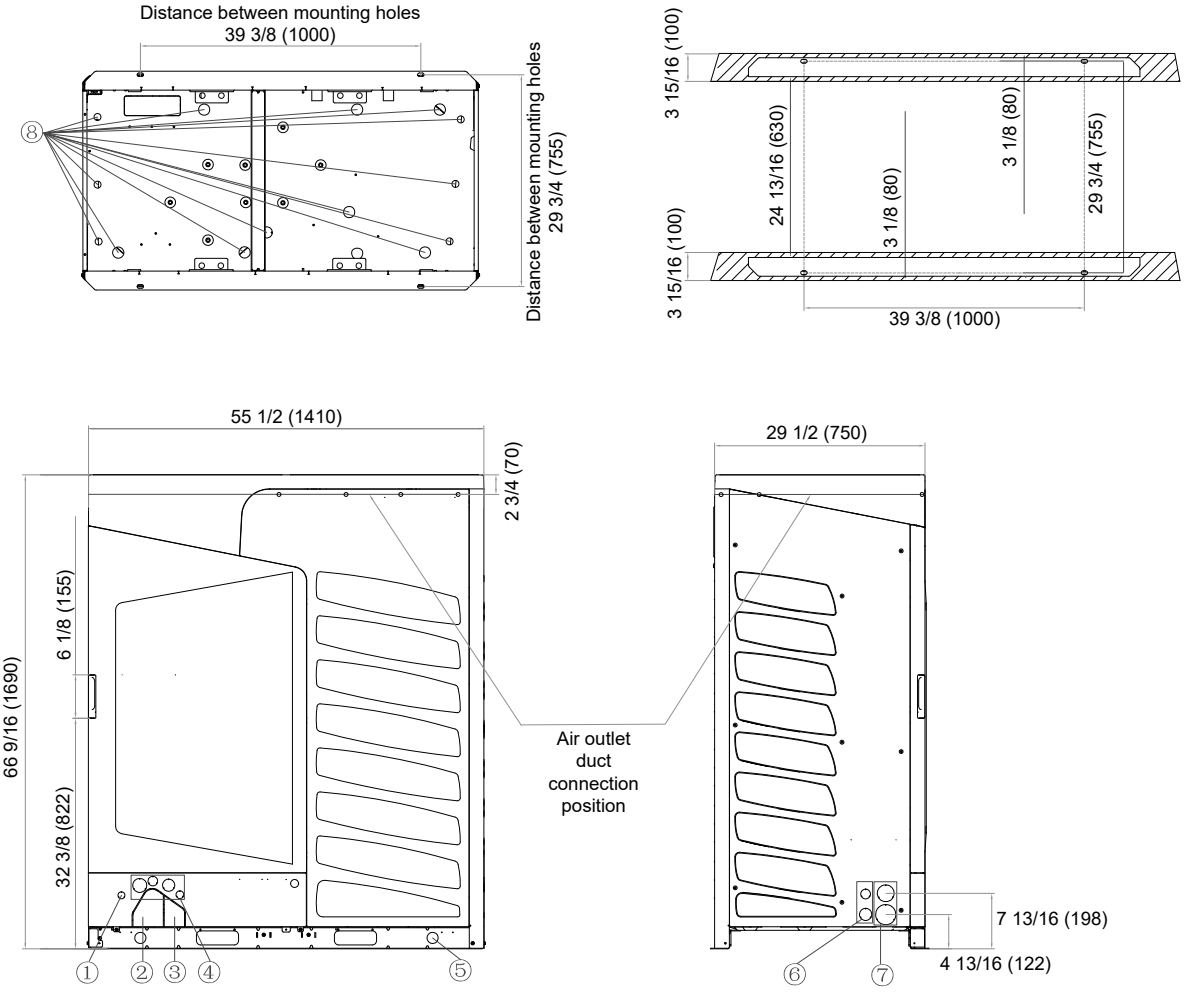


No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment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

Dimensional Drawings

MVHP096ME2CA

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	