

### MVHP120ME4CA

MRV 5 Series Heat Pump  
10 Tons



Job Name: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Tag: \_\_\_\_\_

Reference      Approval      Construction

### Specifications

#### Performance<sup>1</sup>

|                             |               |
|-----------------------------|---------------|
| Cooling Capacity            | 115,000 Btu/h |
| Heating Capacity            | 129,000 Btu/h |
| EER (ducted/non-ducted)     | 12.10/12.10   |
| IEER (ducted/non-ducted)    | 23.00/22.00   |
| SCHE (ducted/non-ducted)    | N/A           |
| COP 47F (ducted/non-ducted) | 3.60/3.60     |

#### Technical Details

|                            |                 |
|----------------------------|-----------------|
| Compressor Type            | DC Inverter x 1 |
| Compressor RLA             | 16 A            |
| Condenser Fan Qty          | 2               |
| Condenser Fan Type         | Propeller       |
| Condenser Fan CFM          | 10,500          |
| Factory Refrigerant Charge | 47.18 lbs.      |

#### Electrical

|                                |              |
|--------------------------------|--------------|
| Voltage (V / Ø / Hz)           | 460 / 3 / 60 |
| Minimum Circuit Ampacity (MCA) | 22 A         |
| Maximum Overcurrent Protection | 30 A         |

#### Sound Levels<sup>2</sup>

|                          |    |
|--------------------------|----|
| Sound Power Level, dB(A) | 81 |
|--------------------------|----|

#### Dimensions

|              |        |
|--------------|--------|
| Height (in.) | 66 1/2 |
| Width (in.)  | 55 1/2 |
| Depth (in.)  | 29 1/2 |
| Weight (lb.) | 750    |

#### 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

- 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<sup>2</sup>

### 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

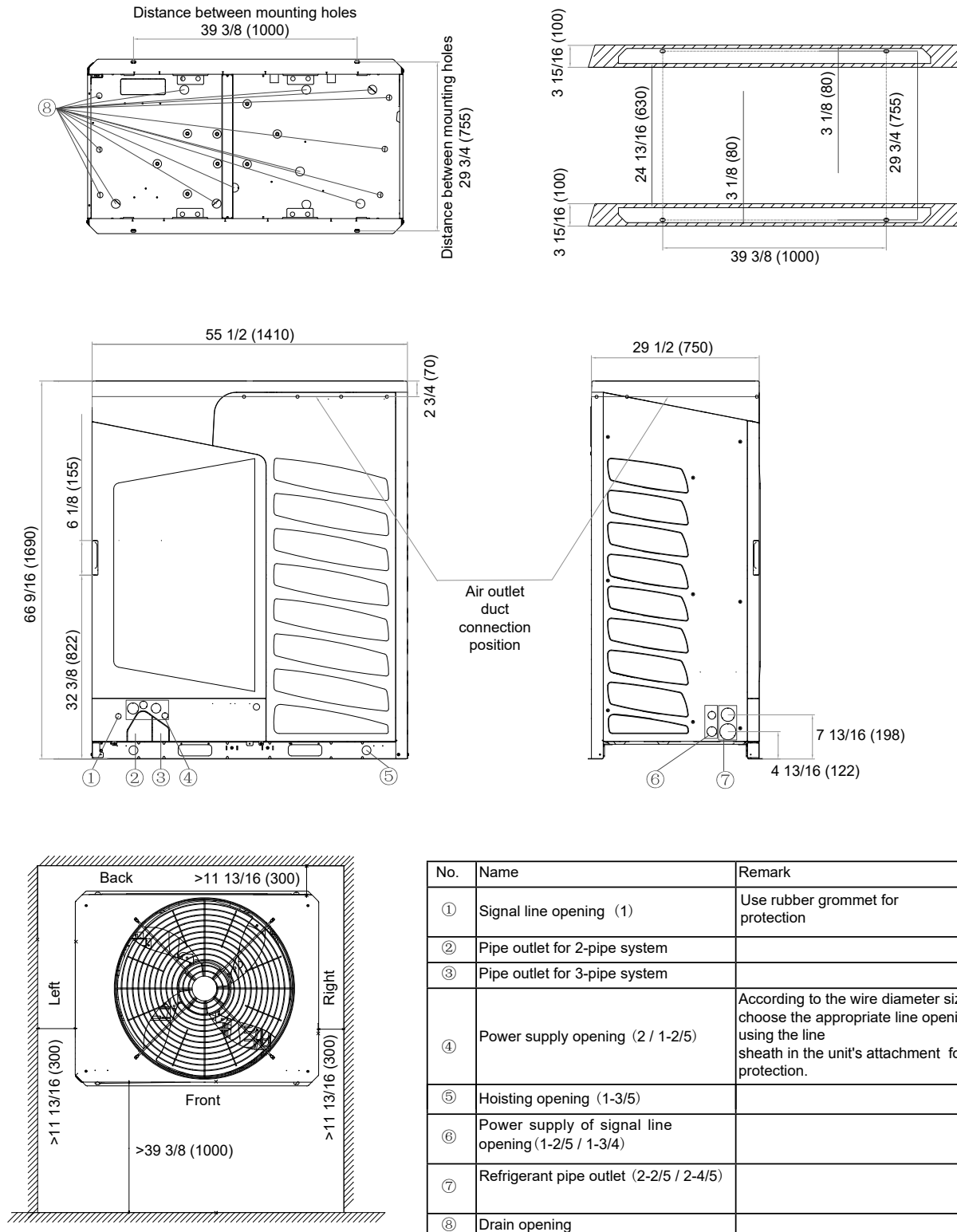
**MRV-S**  
SERIES



### Dimensional Drawings

MVHP120ME4CA

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                                       |                                                                                                                                                |