

## VRF ODU Unit – 20T

MVHQ240ME4CA



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

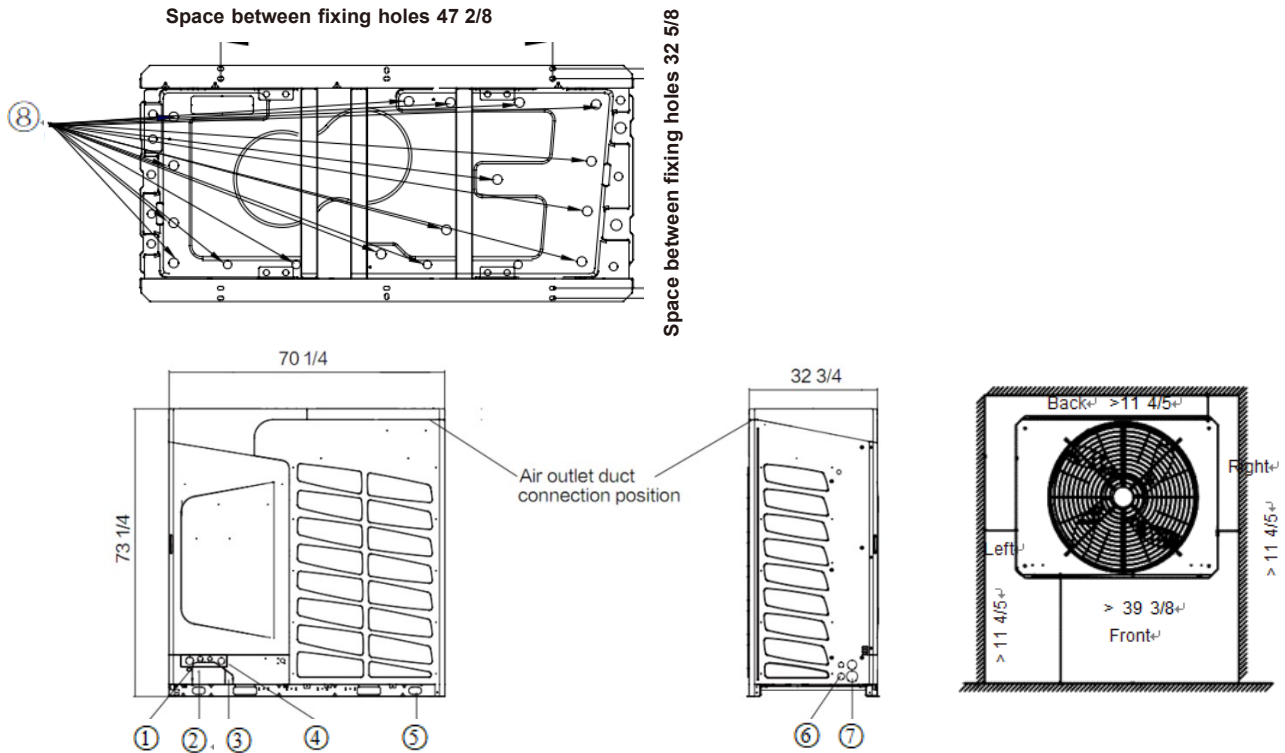
Drawing #: \_\_\_\_\_

**SPECIFICATIONS**

|                          |                                     |                      |                                                                                                                            |
|--------------------------|-------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Marketing Model name     |                                     | MVHQ240ME4CA         | Notes                                                                                                                      |
| Nominal Capacity (Btu/h) |                                     | 240000               | Compatible with all Haier MRV indoor units.                                                                                |
| Electrical               | Voltage, Cycle, Phase V/Hz/-        | 460/60/3             | <b>Structure</b>                                                                                                           |
| Performance Non-Ducted   | Rated Cooling Capacity@95°F (Btu/h) | 222000               | The unit shall be galvanized steel with a powder coated finish.                                                            |
|                          | EER @95 °F                          | 10.10                | Hinge access door design for easier installation and maintenance                                                           |
|                          | IEER                                | 20.30                | <b>Heat Exchanger</b>                                                                                                      |
|                          | Rated Heating Capacity @47°F(Btu/h) | 240000               | The heat exchanger shall be mechanically bonded fin to copper tube.                                                        |
|                          | COP @ 47°F                          | 3.40                 | The aluminum fins of the heat exchanger shall have a protective coating.                                                   |
|                          | Rated Heating Capacity@17°F(Btu/h)  | 168000               | Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.  |
|                          | COP @ 17°F                          | 2.40                 | <b>Refrigerant System</b>                                                                                                  |
|                          | SCHE                                | 24.6                 | EVI compressors provide advanced low ambient heating performance.                                                          |
| Performance Ducted       | Rated Cooling Capacity@95°F (Btu/h) | 222000               | Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.                            |
|                          | EER @95 °F                          | 10.60                | Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. |
|                          | IEER                                | 20.30                | <b>Automatic oil balancing</b>                                                                                             |
|                          | Rated Heating Capacity @47°F(Btu/h) | 240000               | The oil is balanced automatically internally which simplifies system design and improves reliability.                      |
|                          | COP @ 47°F                          | 3.30                 | <b>Agency</b>                                                                                                              |
|                          | Rated Heating Capacity@17°F(Btu/h)  | 168000               | Certified to latest version AHRI standard 1230.                                                                            |
|                          | COP @ 17°F                          | 2.30                 | <b>Snow hood accessory</b>                                                                                                 |
|                          | SCHE                                | 23.6                 | Compatible to optional snow hood accessories to protect unit in the worst weather.                                         |
| Electrical               | MCA (A) / MOP (A)                   | 51/80                | <b>Recommendation:</b>                                                                                                     |
| Operation Range          | Working temp. Cooling F°+ Snow hood | -4°F -122°F          | The minimum number of indoor machine connections is greater than or equal to 2.                                            |
|                          | Working temp. Heating F°            | -22°F ~60°F          |                                                                                                                            |
| ODU                      | Dimension: H*W*D                    | 73-1/4*70-1/4*32-1/4 |                                                                                                                            |
|                          | Refrigerant charge (oz.)            | 1040.6               |                                                                                                                            |
|                          | Net Weight- lbs                     | 1162.0               |                                                                                                                            |
| Compressor               | Type                                | Scroll               |                                                                                                                            |
|                          | Qty                                 | 2                    |                                                                                                                            |
|                          | Oil Type                            | FVC68D               |                                                                                                                            |
|                          | Refrigerant Type                    | R410A                |                                                                                                                            |
| Connection ratio         | Maximum number of indoor units      | 39                   |                                                                                                                            |
|                          | Connection ratio (IDU/ODU capacity) | 50% — 130%           |                                                                                                                            |
| Fan                      | Type/ Qty                           | Propeller/2          |                                                                                                                            |
|                          | CFM                                 | 16400                |                                                                                                                            |
| Refrigerant piping       | Liquid pipe O.D. I in               | 3/4                  |                                                                                                                            |
|                          | Gas pipe O.D. i in                  | 1-1/4                |                                                                                                                            |
|                          | High Gas pipe O.D. i in             | 1-1/4                |                                                                                                                            |
| Sound                    | Sound Level dB(A)                   | 72                   |                                                                                                                            |

**Drawing**

UNIT: Inches



| No. | Name Remark                      |                                                                                                                                            |
|-----|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Signal line hole(Ø25)            | 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                       |                                                                                                                                            |