

VRF Outdoor Unit 38VMA408HDS5-1 - Heat Pump



Submittal Data

Job Data _____ Location _____
 Buyer _____ Buyer PO # _____ Carrier # _____
 Unit Number _____ Model Number _____
 Performance Data Certified By _____ Date _____



Heat Pump Features

- 6, 8, 10, and 12 ton modules available
- Modules have inverter-driven scroll compressors
- Direct-drive, inverter-driven outdoor motor
- Modules can be combined to form larger systems, up to 36 tons
- 3280 ft (1000 m) actual total system piping (liquid line)
- 656 ft (200 m) actual piping length from outdoor unit to furthest fan coil
- Up to 3937 ft (1200 m) control wiring between the outdoor units and indoor units

- Operating temperature range
Cooling (db): 5° to 125°F
(-15° to 52°C)
Heating (wb): -5° to 64°F
(-21° to 18°C)
- Protection: high pressure sensor and switch, low pressure sensor and switch, process controller board fuse, inverter overload protection
- 7-year compressor limited warranty
- 5-year parts limited warranty

| | | |
|--|---------|--------------------|
| Combination Model | | 38VMA408HDS5-1 |
| Header Unit Model | | 38VMA144HDS5-1 |
| Follower Model | | 38VMA144HDS5-1 |
| Follower Model | | 38VMA120HDS5-1 |
| PERFORMANCE | | |
| Nominal Cooling Capacity | Btu/h | 399,000 |
| Nominal Heating Capacity | Btu/h | 446,000 |
| Maximum Total Connected Indoor Unit Capacity | | 50% to 135% |
| COOLING EFFICIENCY† | | |
| EER/IEER, Ducted FCUs | Btu/Wh | 9.50/17.50 |
| Power Consumption, Ducted FCUs | kW | 38.30 |
| EER/IEER, Ductless FCUs | Btu/Wh | 9.50/17.50 |
| Power Consumption, Ductless FCUs | kW | 38.60 |
| HEATING EFFICIENCY† | | |
| COP at 47°F, Ducted FCUs | | 3.20 |
| Power Consumption, Ducted FCUs | kW | 35.90 |
| COP at 47°F, Ductless FCUs | | 3.20 |
| Power Consumption, Ductless FCUs | kW | 36.10 |
| Fan Type (Qty) | | Propeller (6) |
| Airflow, Standard Range | CFM | 8830 + 8830 + 8250 |
| Sound Pressure | dBA | 68.5 |
| External Static Pressure* | in. wg | 0.24 |
| ELECTRICAL | | |
| Power Supply | V/Ph/Hz | 208-230/3/60 |
| Minimum Circuit Amps (MCA) | A | 70 + 70 + 46 |
| Recommended Fuse Size | A | 80 + 80 + 50 |

LEGEND

db — Dry Bulb
 COP — Coefficient of Performance
 EER — Energy Efficiency Ratio
 FCU — Fan Coil Unit
 IEER — Integrated Energy Efficiency Ratio
 wb — Wet Bulb

| | | |
|---|-----------------------------|-----------------------------------|
| COMPRESSORS | | |
| Type (Number) | | Inverter Hermetic Scroll (5) |
| FAN MOTOR | | |
| Motor Type (Steps) | Inverter Direct Driven (13) | |
| Motor Output | kW | 0.34 (X2) + 0.30 (X2) + 0.27 (X2) |
| PHYSICAL DATA | | |
| Pipe Connection Size - Liquid (High Pressure)** | in. | 3/4 (Brazed) |
| Pipe Connection Size - Gas (Low Pressure)** | in. | 1-3/8 (Brazed) |
| Balance | in. | 1/4 (Brazed) |
| Refrigerant | R-410A | |
| Factory Charge†† | lb | 3 X 37.5 |
| Unit Width | in. | 3 X 52-3/4 |
| Unit Height | in. | 64-3/8 |
| Unit Depth | in. | 31-1/8 |
| Net Weight | lb | 780 + 780 + 659 |
| REQUIRED ACCESSORY | | |
| Twinning Kit | 40VM900022 | |

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 1230 Standard.

Cooling: Indoor 80°F (27°C) db/67°F (20°C) wb; Outdoor 95°F (35°C) db

Heating: Indoor 70°F (21°C) db; Outdoor 47°F (8°C) db/43°F (6°C) wb

*Requires setting by menu functions.

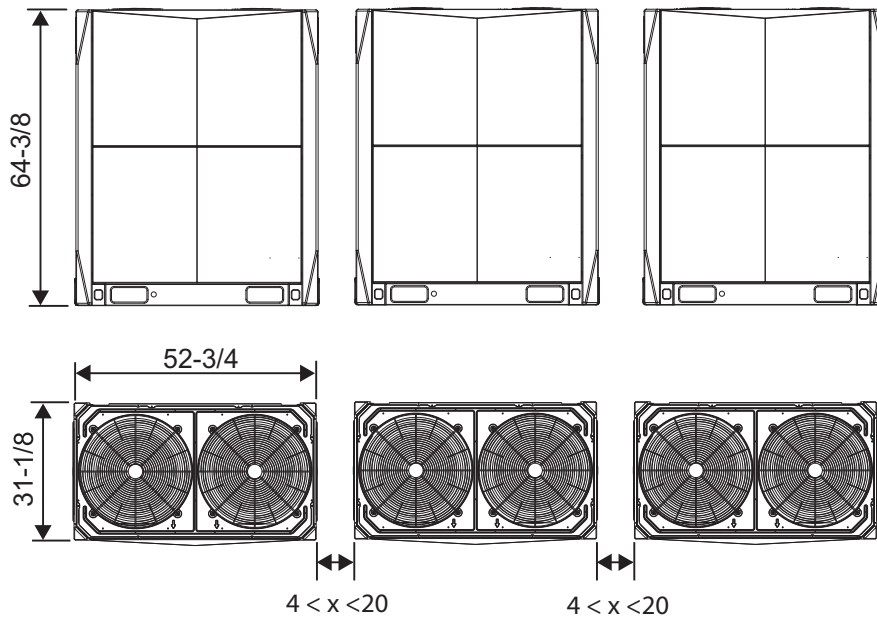
**Main pipe size leaving twinning kit.

††Additional charge required.

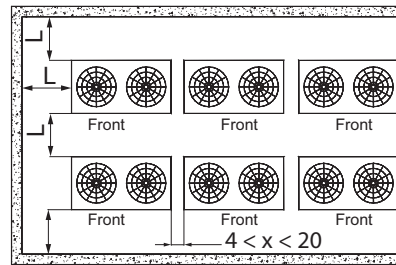
NOTE: Unit cabinet and coil slab shall be capable of withstanding 500-hour salt spray test.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

DIMENSIONAL DRAWING OUTDOOR UNIT COMBINATION 38VMA408HDS5-1

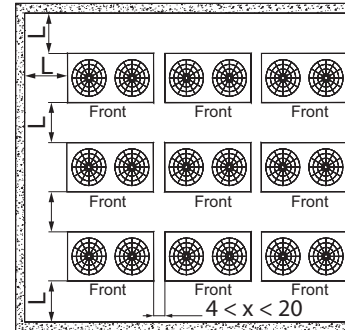


Two rows



Note: $L \geq 40$ in.

More than two rows

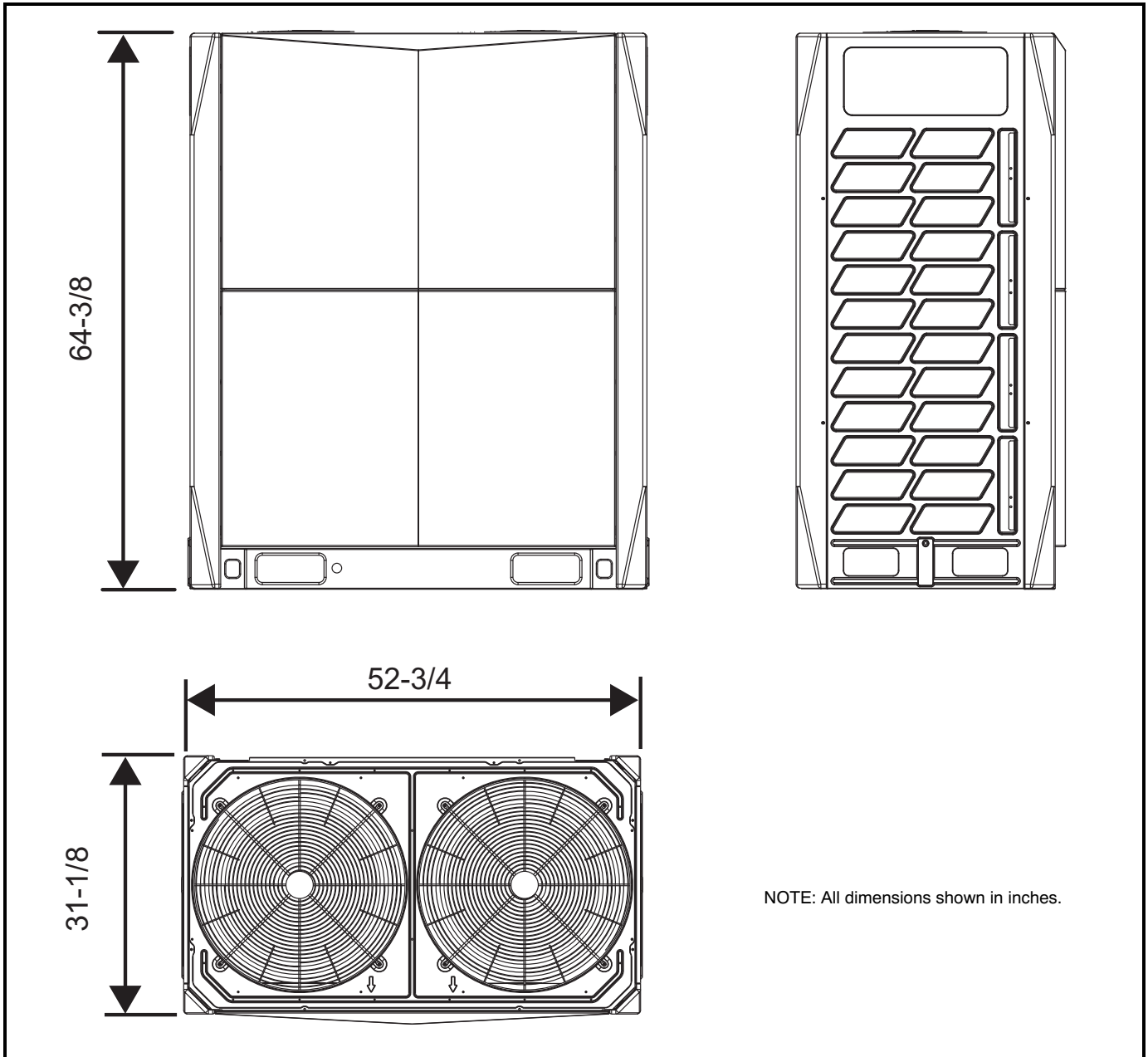


Note: All dimensions are shown in inches.

| Model Name | Outdoor Unit | | |
|----------------|----------------|----------------|----------------|
| | Header Unit | Follower Unit | Follower Unit |
| 38VMA408HDS5-1 | 38VMA144HDS5-1 | 38VMA144HDS5-1 | 38VMA120HDS5-1 |

DIMENSIONAL DRAWING

OUTDOOR SINGLE UNIT 38VMA144HDS5-1 and 38VMA120HDS5-1



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