

# VRF Outdoor Unit 38VMA408HDS6-1 - 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	38VMA408HDS6-1	
Header Unit Model	38VMA144HDS6-1	
Follower Model	38VMA144HDS6-1	
Follower Model	38VMA120HDS6-1	
<b>PERFORMANCE</b>		
Nominal Cooling Capacity	Btu/h	399,000
Nominal Heating Capacity	Btu/h	446,000
Maximum Total Connected Indoor Unit Capacity		50% to 135%
<b>COOLING EFFICIENCY†</b>		
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
<b>HEATING EFFICIENCY†</b>		
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
<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	460/3/60
Minimum Circuit Amps (MCA)	A	33 + 33 + 25
Recommended Fuse Size	A	40 + 40 + 30

COMPRESSORS		
Type (Number)		Inverter Hermetic Scroll (5)
<b>FAN MOTOR</b>		
Motor Type (Steps)	Inverter Direct Driven (13)	
Motor Output	kW	0.34 (X2) + 0.30 (X2) + 0.27 (X2)
<b>PHYSICAL DATA</b>		
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
<b>REQUIRED ACCESSORY</b>		
Twining 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 twining kit.

††Additional charge required.

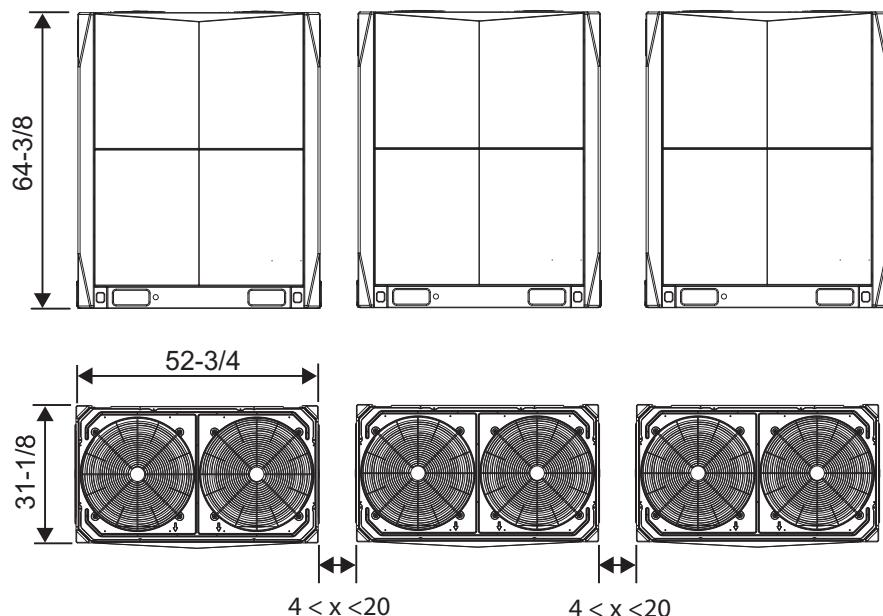
NOTE: Unit cabinet and coil slab shall be capable of withstanding 500-hour salt spray test.

### LEGEND

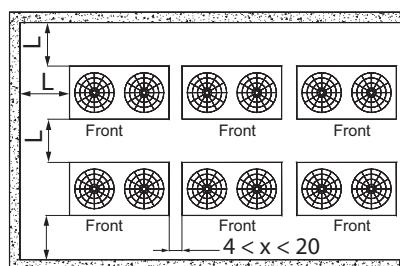
db	— Dry Bulb
COP	— Coefficient of Performance
EER	— Energy Efficiency Ratio
FCU	— Fan Coil Unit
IEER	— Integrated Energy Efficiency Ratio
wb	— Wet Bulb

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 38VMA408HDS6-1**

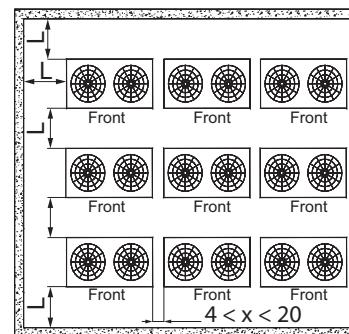


Two rows



Note:  $L \geq 40$  in.

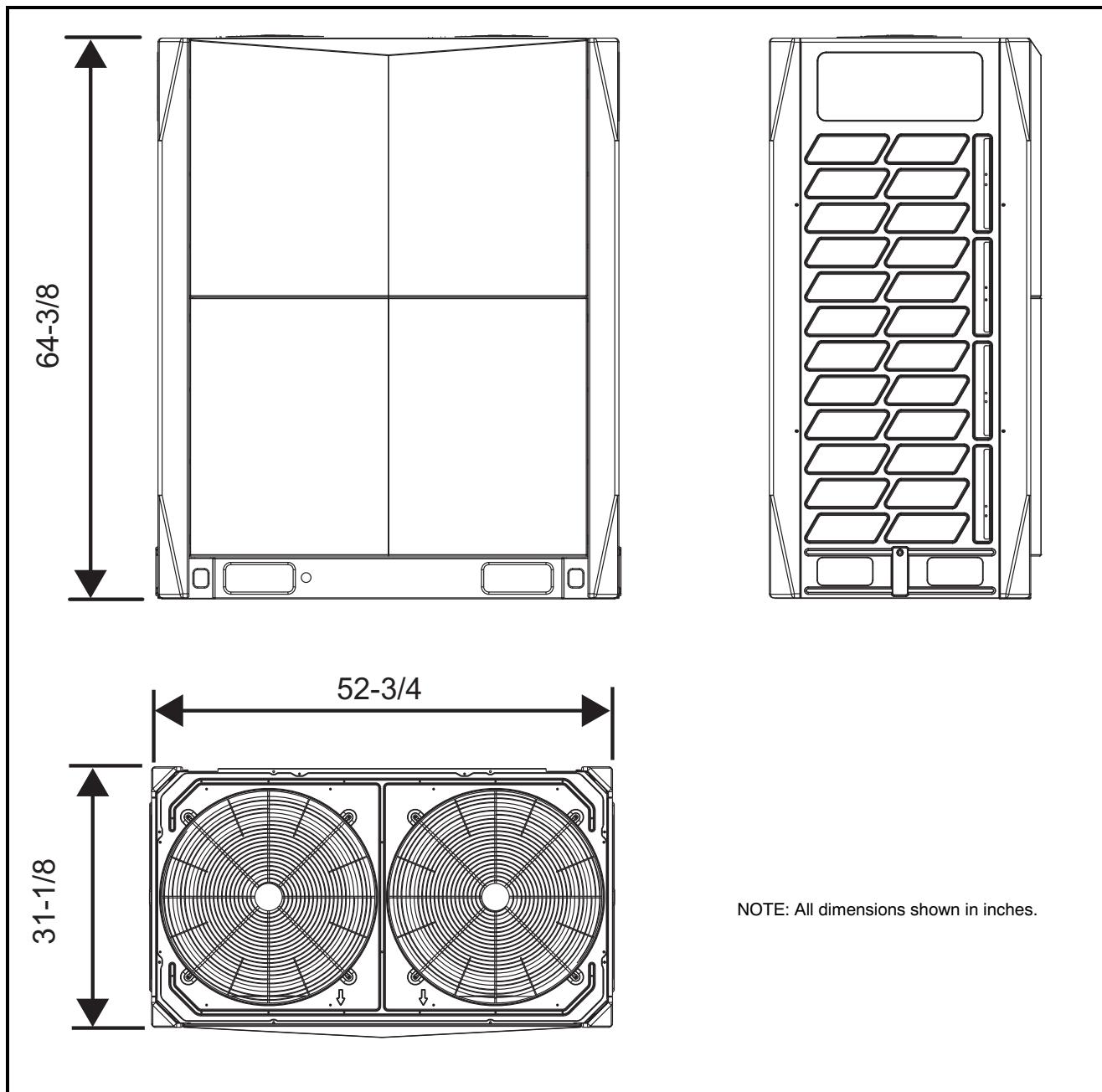
More than two rows



Note: All dimensions are shown in inches.

Model Name	Outdoor Unit		
	Header Unit	Follower Unit	Follower Unit
38VMA408HDS6-1	38VMA144HDS6-1	38VMA144HDS6-1	38VMA120HDS6-1

**DIMENSIONAL DRAWING**  
**OUTDOOR SINGLE UNIT 38VMA144HDS6-1 and 38VMA120HDS6-1**



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