

# VRF Outdoor Unit 38VMA072HDS5-1 - 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

Header Unit Model		38VMA072HDS5-1	
<b>PERFORMANCE</b>			
Nominal Cooling Capacity	Btu/h	72,000	
Nominal Heating Capacity	Btu/h	80,000	
Maximum Total Connected Indoor Unit Capacity		50% to 135%	
<b>COOLING EFFICIENCY†</b>			
EER/IEER, Ducted FCUs	Btu/Wh	12.80/23.60	
Power Consumption, Ducted FCUs	kW	5.10	
EER/IEER, Ductless FCUs	Btu/Wh	14.10/22.50	
Power Consumption, Ductless FCUs	kW	4.10	
<b>HEATING EFFICIENCY†</b>			
COP at 47°F, Ducted FCUs		3.85	
Power Consumption, Ducted FCUs	kW	5.60	
COP at 47°F, Ductless FCUs		4.29	
Power Consumption, Ductless FCUs	kW	4.50	
Fan Type (Qty)		Propeller (2)	
Airflow, Standard Range	CFM	7650	
Sound Pressure	dBA	62.5	
External Static Pressure*	in. wg	0.08	
<b>ELECTRICAL</b>			
Power Supply	V/Ph/Hz	208-230/3/60	
Minimum Circuit Amps (MCA)	A	45	
Recommended Fuse Size	A	50	

### COMPRESSORS

Type (Number)		Inverter Hermetic Scroll (1)
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FAN MOTOR	
Motor Type (Steps)	Inverter Direct Driven (13)
Motor Output	kW 2 x 0.27

### PHYSICAL DATA

Pipe Connection Size - Liquid (High Pressure)	in.	3/8 (Brazed)
Pipe Connection Size - Gas (Low Pressure)	in.	7/8 (Brazed)
Balance	in.	1/4 (Brazed)
Refrigerant		R-410A
Factory Charge††	lb	37.5
Unit Width	in.	52-3/4
Unit Height	in.	64-3/8
Unit Depth	in.	31-1/8
Net Weight	lb	659

†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.

††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.

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Replaces: New

**DIMENSIONAL DRAWING  
OUTDOOR UNIT 38VMA072HDS5-1**

