

# VRF Outdoor Unit 38VMA120RDS6-1 - Heat Recovery



## Submittal Data

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



### Heat Recovery Features

- Modules available from 6 to 28 tons
- Modules have inverter-driven scroll compressors
- Direct-drive, inverter-driven outdoor motor
- Up to 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): -13° to 64°F (-25° 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		38VMA120RDS6-1
<b>PERFORMANCE</b>		
Nominal Cooling Capacity	Btu/h	119,700
Nominal Heating Capacity	Btu/h	126,000
Maximum Total Connected Indoor Unit Capacity		50% to 150%
<b>SIMULTANEOUS COOLING AND HEATING EFFICIENCY†</b>		
SCHE, Ducted FCUs		26.70
SCHE, Ductless FCUs		30.00
<b>COOLING EFFICIENCY†</b>		
EER/IEER, Ducted FCUs	Btu/Wh	11.40/23.20
Power Consumption, Ducted FCUs	kW	9.60
EER/IEER, Ductless FCUs	Btu/Wh	11.40/22.80
Power Consumption, Ductless FCUs	kW	9.30
<b>HEATING EFFICIENCY†</b>		
COP at 47°F, Ducted FCUs		3.45
Power Consumption, Ducted FCUs	kW	9.80
COP at 47°F, Ductless FCUs		3.45
Power Consumption, Ductless FCUs	kW	9.50
Fan Type (Qty)		Propeller (2)
Airflow, Standard Range	CFM	8100
Sound Pressure	dBA	62.7
External Static Pressure*	in. wg	0.24

**LEGEND**

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

<b>ELECTRICAL</b>		
Power Supply	V/Ph/Hz	460/3/60
Minimum Circuit Amps (MCA)	A	22
Recommended Fuse Size	A	30
<b>COMPRESSORS</b>		
Type (Number)		Inverter Hermetic Scroll (1)
<b>FAN MOTOR</b>		
Motor Type (Steps)		Inverter Direct Driven (13)
Motor Output	kW	2 x 0.25
<b>PHYSICAL DATA</b>		
Pipe Connection Size - Liquid (High Pressure)	in.	3/4 (Brazed)
Pipe Connection Size - Gas (Low Pressure)	in.	1-1/8 (Brazed)
Refrigerant		R-410A
Factory Charge††	lb	26.5
Unit Width	in.	52-3/4
Unit Height	in.	64-3/8
Unit Depth	in.	31-1/8
Net Weight	lb	672

†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

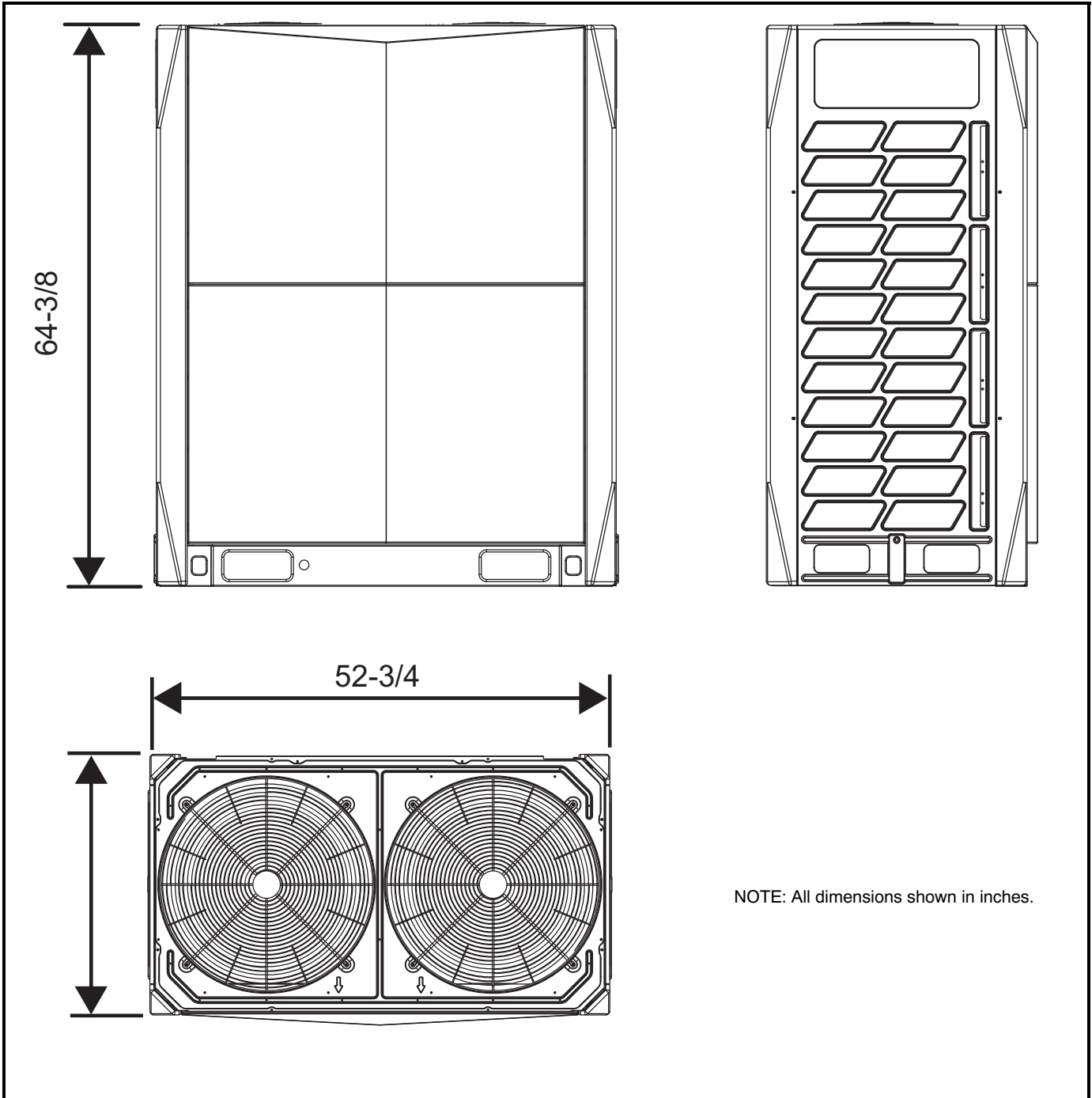
\*Requires setting by menu functions.

††Additional charge required.

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

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

**DIMENSIONAL DRAWING  
OUTDOOR UNIT 38VMA120RDS6-1**



NOTE: All dimensions shown in inches.



© Carrier Corporation 2018