

# VS3000 RT

A larger capacity version of the VS1000 RT, the Ventacity VS3000 RT is an ultra-efficient and intelligent Smart Ventilation™ Management system that combines the technology of a heat recovery ventilator (HRV) with a dedicated outdoor air system (DOAS) for rooftop installation that continuously improves building health and indoor air quality, while minimizing building energy usage. It is suitable for various commercial applications including retail spaces, offices, restaurants, schools, public areas, and even multifamily residential buildings.

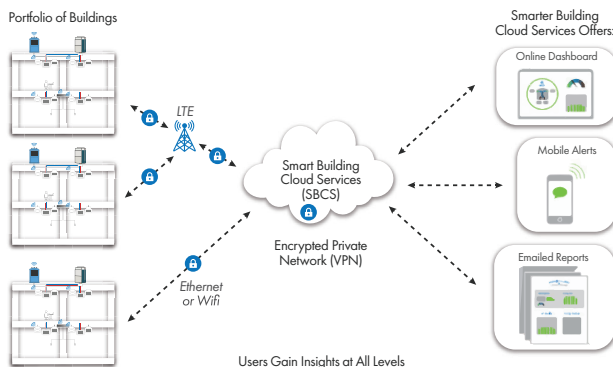


## TAKE VRF TO THE NEXT LEVEL

Ventacity takes VRF systems to the next level by partnering with industry-leading variable refrigerant flow (VRF) solutions, such as the Fujitsu Airstage family. By installing Ventacity ventilation and management solutions with VRF systems, small and mid-sized buildings can achieve further improvements in efficiency and comfort as compared to using VRF alone. The combination of ultra-efficient Ventacity HRV systems and VRF systems dramatically reduces a building's HVAC load for significant energy savings.

## VENTACITY HVAC<sup>2</sup> SMARTER BUILDING PLATFORM™

The revolutionary Ventacity HVAC<sup>2</sup> Smarter Building Platform™ integrates and networks all HVAC equipment to optimize efficiency, health, and comfort for an entire building or a portfolio of buildings. Through auto-detection based commissioning, it delivers fault-proof "plug-and-play" technology, reducing installation time, complexity, and maintenance costs for small to medium-sized buildings.

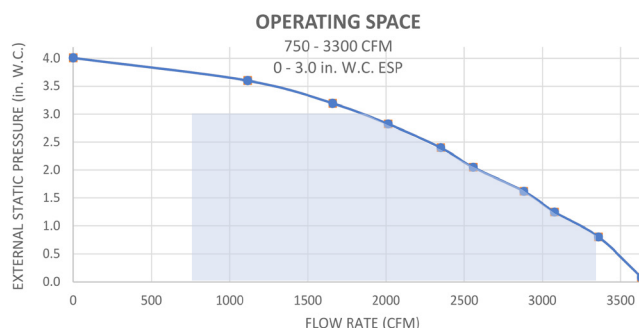


- Unit diagnostics for optimizing energy consumption & indoor air quality
- Unlimited data & complete access from anywhere
- Preventative maintenance notifications
- Easy user interface

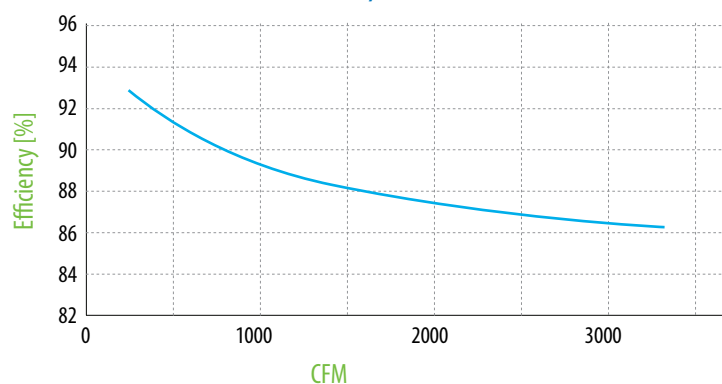
# VS3000 RT

## Performance

Exceptional energy efficiency performance puts the VS3000 RT in a class by itself. With its aluminum counter flow heat exchanger core, the VS3000 RT transfers 82% to 93% of the heat between fresh and exhaust air streams. Our fans incorporate electronically commutated motors (ECMs) and backward curving fan blades, reducing the power required for air movement.



## Sensible Heat Recovery Effectiveness



## System Range

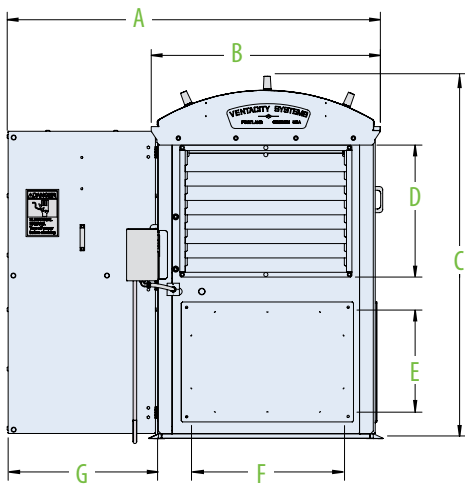
Ext. Static Pressure (in. W.C.)	0.5	1	1.25	2	2.5	3	3.5
Maximum Flow (CFM)	3200	3200	3000	2500	2000	1500	1000
System Power (Watts)	3304	3913	3723	3501	3120	2853	2665

## System Range (at ½" Water Column)

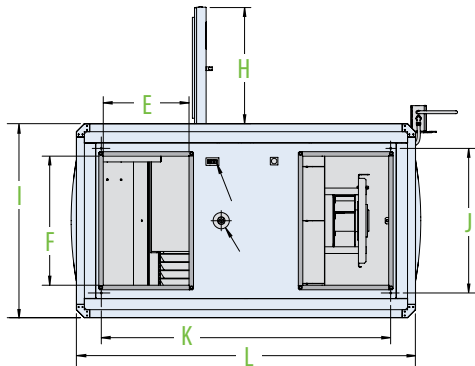
Air Flow (CFM)	1000	1500	2000	2500	2750	3000	3200
CFM/WATT (2 Fans)	2.1	2.0	1.6	1.3	1.2	1.1	1.0
System Power (Watts)	468	768	1233	1909	2342	2846	3304

# VS3000 RT

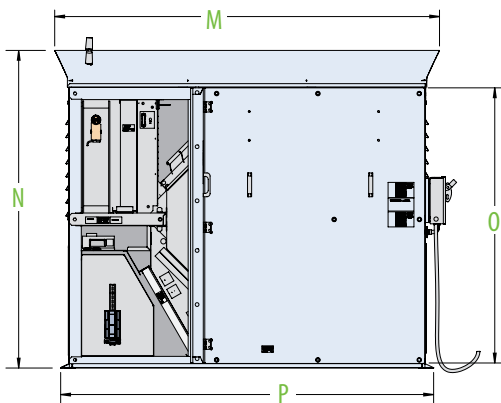
## Dimensions



A	97.3"
B	58.0"
C	68.8"
D	27.8"
E	24.1"
F	46.1"
G	39.8"

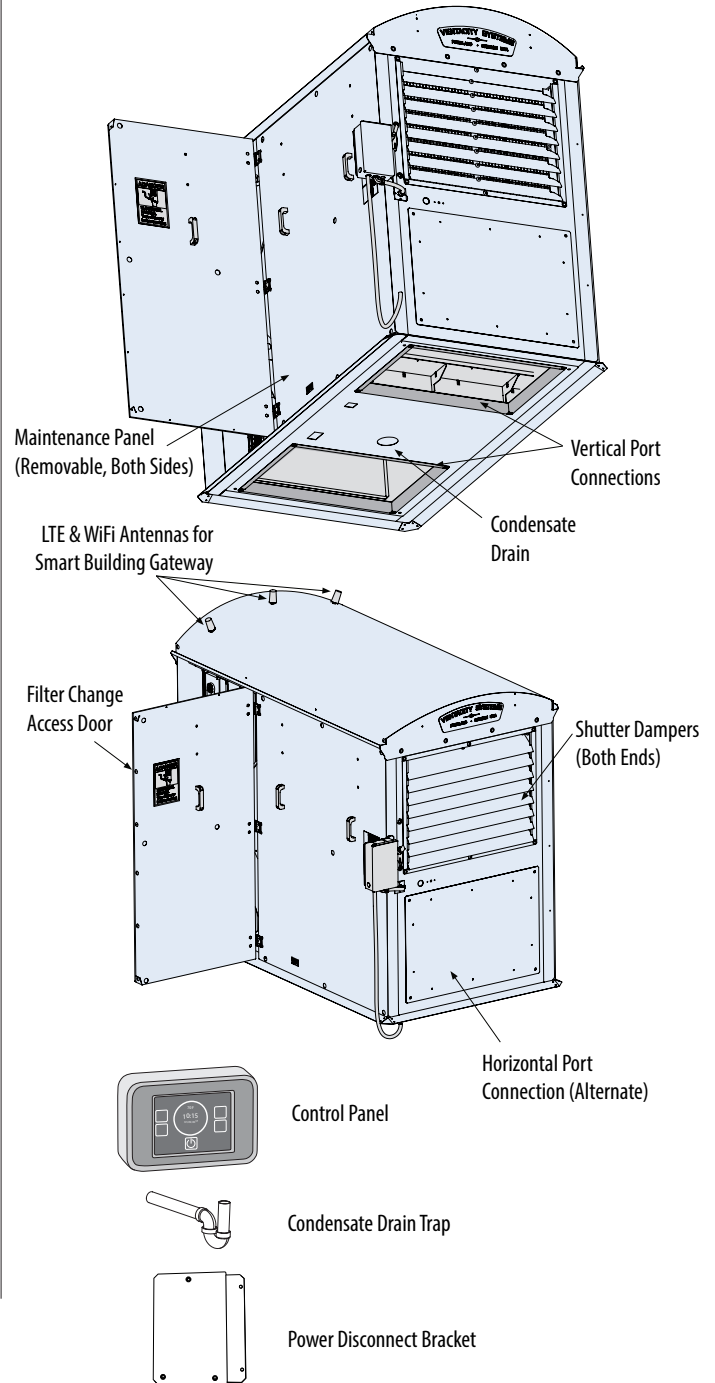


H	39.7"
I	58.0"
J	49.6"
K	81.5"
L	90.3"



M	88.3"
N	69.0"
O	60.7"
P	90.2"

## Parts



# VS3000 RT

## Specifications

Ventilation Flow-Nominal	3,000 cfm
Ventilation Flow – Typical	500 to 3,000 cfm
Ventilation Type	Heat Recovery Ventilator (HRV)
Heat Exchanger	Counterflow Aluminum Static Plate
Fan Type	Backward Curved, Centrifugal, EC
Heat Recovery – Max	93%
Temperature Range	-13° F to 122° F
Humidity – Inside Max	90% RH
Modes	CAV, DCV, VAV, BMS, Economizer
Duct Connection	22" Dia (380 sq. in.) Min.
Temperature Control	Continuously Variable Bypass

## Mechanical

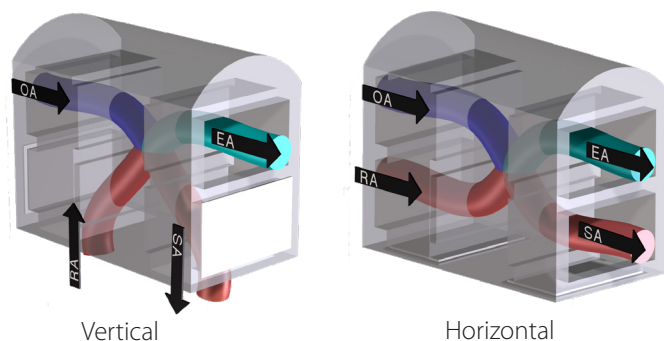
Weight	1322 lbs
Dimensions	86.3" L x 48.3" W x 73.5" H
OA PreFilter (Actual Size)*	51.2" x 23.6" x 1.75" MERV6
OA Filter (Actual Size)*	51.2" x 23.6" x 3.75" MERV13
RA Filter (Actual Size)*	51.2" x 23.6" x 1.75" MERV8
Base Anchor Dimension	36.8" x 73.7"

\*Note: Two half-width filters may be used for convenience (25.6" each)

## Electrical

Power Supply	20.1 kW	25.5 kW
Voltage	208, 3Φ	208/480, 3Φ
FLA – Max	55.9 A	36.7 A
De-Ice Preheater	16.3kW	21.7 kW
Fan Motor Type	EC	
Maximum Power – 1 Fan	3,098 W (2.62 hp)	

## Port Configurations



## Accessories

- Room CO<sub>2</sub> Sensor\*
- Duct CO<sub>2</sub> Sensor\*
- Room RH Sensor\*
- VOC Sensor\*
- Smart Building Gateway

\* Only one IAQ sensor per HRV supported at a time