

# VS1000 RT

## PRODUCT SHEET

VENTACITY SYSTEMS  
—◆—  
ALWAYS HEALTHY • ALWAYS EFFICIENT™

The first in a line of revolutionary Smart Ventilation™ Management systems, the Ventacity VS1000 RT is an ultra efficient heat recovery ventilator (HRV) and intelligent dedicated outdoor air system (DOAS). With a rugged design for easy rooftop installation, it optimizes healthy indoor air quality while minimizing building energy usage. It is suitable for various commercial applications, including retail spaces, offices, restaurants, schools, public spaces and even multifamily residential buildings.



*A part of the*

**HVAC<sup>2</sup>**

NEXTGEN BUILDING SYSTEM™

Our ventilation equipment connects seamlessly to our building controls and cloud-based user interface to take HVAC systems to the next level of energy efficiency and control. We call this new system HVAC<sup>2</sup>.

1-888-VENTIL8 (888-836-8458)

[ventacity.com](http://ventacity.com)

# VS1000 RT

## PRODUCT SHEET

### PERFORMANCE



Exceptional energy efficiency performance puts the VS1000 RT in a class by itself.

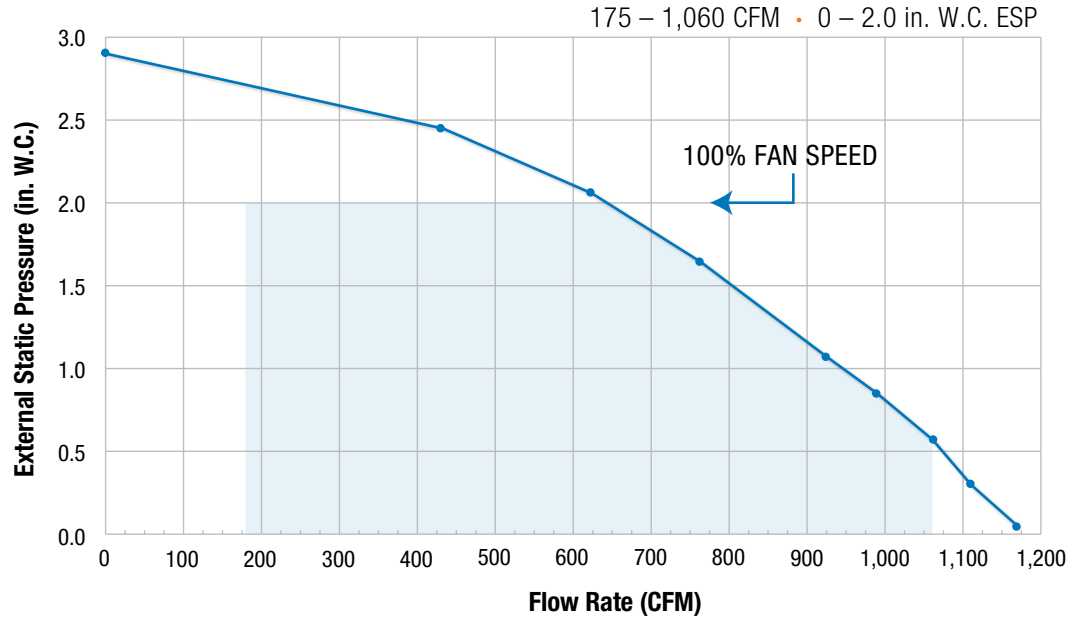


With its aluminum counterflow heat exchanger core, the VS1000 RT transfers 82% to 93% of the heat between fresh and exhaust air streams.

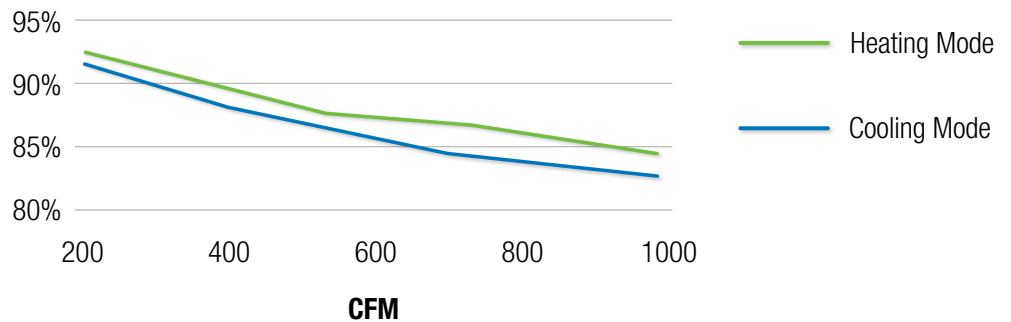


Our fans incorporate electronically commutated motors (ECMs) and backward curving composite fan blades, reducing the power required for air movement.

### FAN OPERATING RANGE



### HEAT RECOVERY EFFICIENCY



### FAN VOLUME

| Ext. Static Pressure (in. W.C.) | 0.25  | 0.5   | 0.75  | 1   | 1.25 | 1.5 | 1.75 |
|---------------------------------|-------|-------|-------|-----|------|-----|------|
| Maximum Flow (CFM)              | 1,060 | 1,060 | 1,000 | 970 | 970  | 830 | 735  |
| System Power (Watts)            | 790   | 878   | 918   | 906 | 888  | 878 | 859  |

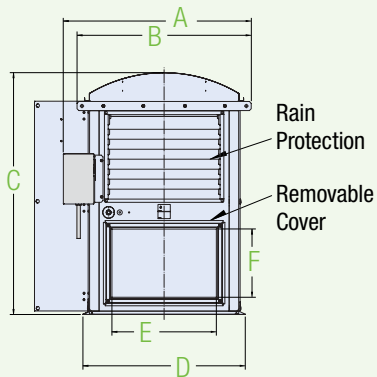
### FAN POWER\*

| Air Flow (CFM)       | 175 | 200 | 400 | 600 | 800 | 1,000 | 1,060 |
|----------------------|-----|-----|-----|-----|-----|-------|-------|
| CFM/WATT (2 Fans)    | 3.5 | 3.6 | 4.3 | 3.3 | 2.2 | 1.6   | 1.5   |
| System Power (Watts) | 66  | 72  | 109 | 198 | 380 | 640   | 723   |

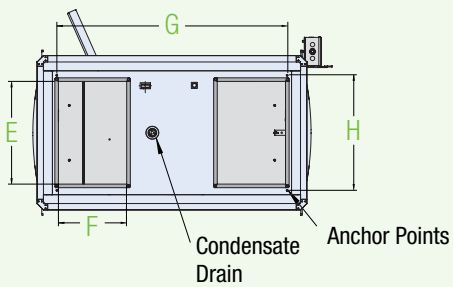
\* at 1/8" water column

# VS1000 RT

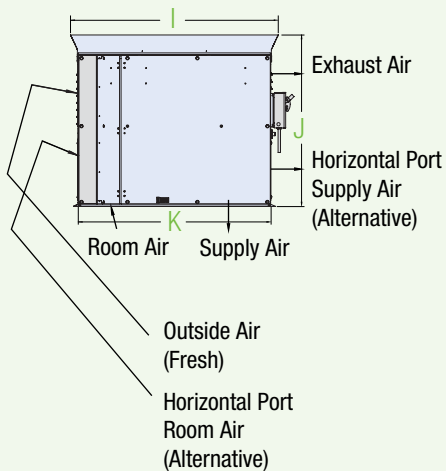
## DIMENSIONS



|   |       |
|---|-------|
| A | 40.8" |
| B | 37.8" |
| C | 52.5" |
| D | 35.2" |
| E | 23.5" |
| F | 15.6" |

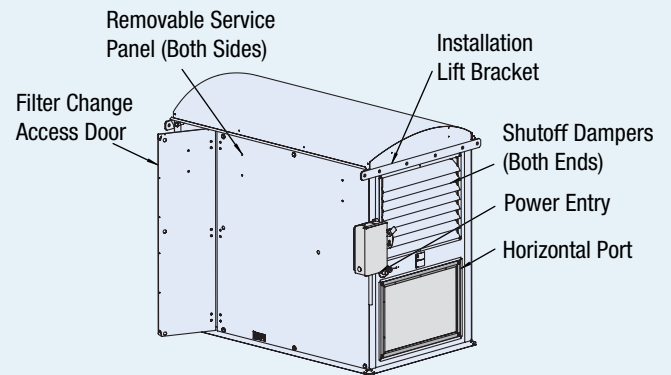
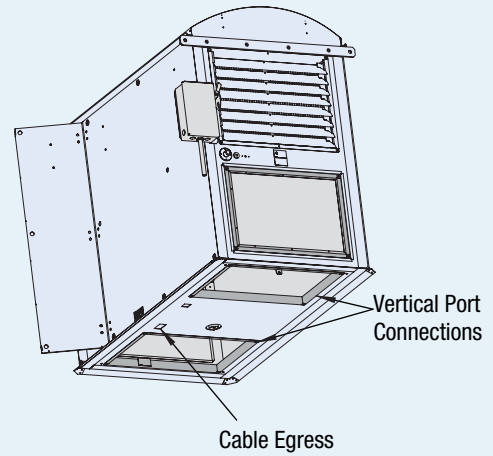


|   |       |
|---|-------|
| E | 23.5" |
| F | 15.6" |
| G | 52.8" |
| H | 26.3" |



|   |       |
|---|-------|
| I | 63.6" |
| J | 52.5" |
| K | 59.0" |

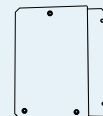
## PARTS



Control Panel



Condensate Drain Trap

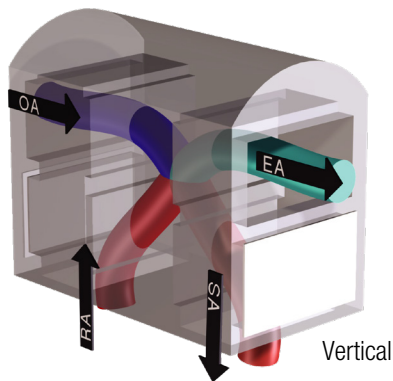


Power Disconnect Bracket

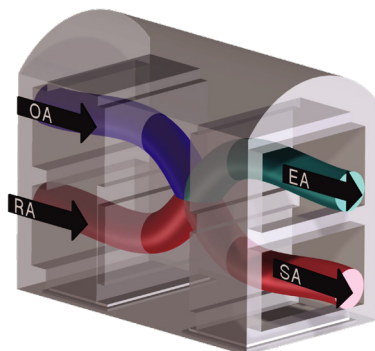
# VS1000 RT

## PRODUCT SHEET

### PORT CONFIGURATIONS



Vertical



Horizontal

### ACCESSORIES

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

**VENTACITY SYSTEMS**

ALWAYS HEALTHY • ALWAYS EFFICIENT™

2828 SW Corbett Ave, Suite 119  
Portland, OR 97201  
1-888-VENTIL8 (888-836-8458)  
ventacity.com

### SPECIFICATIONS

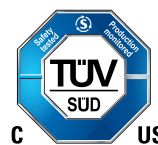
|                            |                                      |
|----------------------------|--------------------------------------|
| Ventilation Flow – Max     | 1,060 cfm                            |
| Ventilation Flow – Typical | 75 to 1,000 cfm                      |
| Ventilation Type           | 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 140° F                     |
| Humidity – Inside Max      | 90% RH                               |
| Operation Modes            | CAV, DCV, VAV, BMS, Economizer       |
| Noise – Max                | 52.6 dBA                             |
| NRTL Test Specifications   | UL1812, CSA C22.2 No. 113            |
| Duct Connection            | 14" Dia. (154 in <sup>2</sup> ) Min. |
| Temperature Control        | Continuously Variable Bypass         |

### MECHANICAL

|                         |                                       |
|-------------------------|---------------------------------------|
| Weight                  | 616 lbs                               |
| Shipping Weight         | 845 lbs                               |
| Dimensions              | 63.6" L x 35.2" W x 52.5" H           |
| Shipping Dimensions     | 74" L x 45" W x 51" H                 |
| OA Filter (Actual Size) | 17.5" L x 24.5" W x 3.75" H<br>MERV13 |
| RA Filter (Actual Size) | 16.5" L x 24.5" W x 1.75" H<br>MERV8  |
| Base Anchor Dimension   | 26.3" x 52.8"                         |
| External Finish         | Powder Coat Over Galvanized Steel     |

### ELECTRICAL

|                       |                                     |
|-----------------------|-------------------------------------|
| Power Supply          | 6.9 kW                              |
| Voltage               | 240 VAC 1Φ, 208/240 VAC<br>3Φ, 60Hz |
| FLA – Max             | 30 A (1Φ)                           |
| De-Ice Preheater      | 6.0 kW                              |
| Fan Motor Type        | EC                                  |
| Maximum Power – 1 Fan | 485W (.65hp)                        |



UL 1812, CSA 22.2 No. 113

