Ventacity’s VS-CM Series helps building owners and HVAC contractors working on multi-level building projects reduce heating and cooling installation and operating costs while improving energy efficiency, health and comfort. Unlike other ventilation products, the Ventacity VS-CM Series operates at much higher energy efficiency (up to 91.2%) which saves much more energy and significantly lowers operating costs. With improved energy efficiency, building owners and occupants can afford to operate ventilation continuously, which improves air quality, and occupant health and comfort. When connected to the optional SBC100 Smarter Building Controller, the VS-CM Series ventilators are able to be monitored and controlled from anywhere via any Internet connected device, making them the easiest ventilation products to manage and operate.

**OPTIONAL ACCESSORIES**
- External Outside Air & Exhaust Air Damper Modules
- External DX or WCO Postheater Modules
- Internally Mounted or Room Mounted CO₂ Sensor
- External Condensate Pump
- External Condensate Ball Siphon
- SBC100 Smarter Building Controller

**All optional accessories are field installed.**

**MECHANICAL**
- **Weight**: 364 lbs
- **Shipping Weight**: 550 lbs
- **Dimensions**: 54.53" L x 15.35" H x 66.93" W
- **Shipping Dimensions**: 64" L x 26" H x 77" W
- **OA Filter Dimensions**: 23" L x 12.25" W x 3.75" D  Filter Class: MERV13
- **RA Filter Dimensions**: 23" L x 12.25" W x 3.75" D  Filter Class: MERV9

**ELECTRICAL**
- **Preheater**
  - *Preheater Inactive*: 240 VAC 340 W, 6.26 kW 26.1 A 32 A
  - *Preheater Active*: 240 VAC 340 W, 6.26 kW 26.1 A 32 A
  - *Preheater Inactive*: 240 VAC 340 W, 5.3 kW 35 A
- **De-Ice Preheater**: 240 VAC 960 W, 5.3 kW 3.99 kW

**SPECSIFICATIONS**
- **Flow Rate**: 200 - 900 cfm / 340 - 1529 m³/h
- **Max External Static Pressure**: 2" W.C. / 498 Pa
- **Ventilation Type**: Heat Recovery Ventilator (HRV)
- **Heat Exchanger**: Counterflow Aluminum Static Plate
- **Fan Type**: Backward Curved, Centrifugal, EC
- **Exchanger Efficiency (AHRI 1060) Max**: Sensible – 91.2%
- **Outdoor Temp. Conditions**: -22° to 104° F
- **Ambient Temp. Conditions**: 41° to 104° F
- **Max Return Air Humidity**: 90%
- **Insulation & Thermal Conductivity**: 2" Foam @ 0.042 W/mK
- **Nominal Duct Connection**: 20" x 10" / Diameter 14"
- **Operation Modes**: CAV, DCV, VAV, BMS, Economizer
- **Certifications**: TUV SUD: (UL 1812, CSA 22.2 No. 113) Pending Passive House: Pending
- **FCC**: Class A

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**DIMENSIONS (IN.)**

```
+----------------+-----------------+-----------------+-----------------+
| a              | b               | c               | d               |
| 0.0071          | 14.96           | 9.84            | 12.72           |
| k               | 54.53           | 5.63            | 6.63            |
| B               | 50.00           | 19.69           | 12.72           |
+----------------+-----------------+-----------------+-----------------+
```

**FAN OPERATING RANGE**

External Static Pressure [in. W.C.]

Flow Rate [CFM]

- 0 – 2.0” W.C. ESP
- 100% FAN SPEED (recommended operating range)

**HEAT RECOVERY EFFICIENCY**

AHRI 1060 Standard Conditions

**PARTS**

- Fan
- Regulator
- Condensate Drain
- Main Power Switch
- Filter
- Control Panel

**FAN VOLUME**

<table>
<thead>
<tr>
<th>Ext. Static Pressure [in. W.C.]</th>
<th>0.34</th>
<th>1.20</th>
<th>1.83</th>
<th>2.28</th>
<th>2.61</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Flow [CFM]</td>
<td>900</td>
<td>700</td>
<td>500</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td>System Power [Watts]</td>
<td>797</td>
<td>882</td>
<td>786</td>
<td>640</td>
<td>429</td>
</tr>
</tbody>
</table>

**FAN POWER**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>900</th>
<th>700</th>
<th>500</th>
<th>300</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFM/WATT (2 Fans)</td>
<td>1.1</td>
<td>1.5</td>
<td>2.2</td>
<td>3.1</td>
<td>2.4</td>
</tr>
<tr>
<td>System Power (Watts)</td>
<td>816</td>
<td>472</td>
<td>245</td>
<td>116</td>
<td>62</td>
</tr>
</tbody>
</table>

*At 1/8” water column