**ERV PRODUCT SHEET: VS900 CMe**

for Installation Above Drop Ceilings

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 86.1%) 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.

**SPECIFICATIONS**

- **Flow Rate**: 200 - 900 cfm / 340 - 1529 m³/h
- **Max External Static Pressure**: 2” W.C. / 498 Pa
- **Ventilation Type**: Energy Recovery Ventilator (ERV)
- **Heat Exchanger**: Counterflow Polymer Static Plate
- **Fan Type**: Backward Curved, Centrifugal, EC
- **Exchanger Efficiency (AHRI 1060) Max**: Sensible – 86.1%, Latent – 79.2%, Total – 82.3%
- **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, 0.024 BTU/(hr ft °F)
- **Nominal Duct Connection**: 20” x 10” / Diameter 14”
- **Operation Modes**: CAV, DCV, VAV, BMS, Economizer
- **Certifications**: TÜV SUD: UL 1812, CSA 22.2 No. 113 Pending, Passive House: Pending, FCC: Class A

**MECHANICAL**

- **Weight**: 375 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**

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Voltage</th>
<th>Phase</th>
<th>FLA – Max</th>
<th>MCA</th>
<th>MOP</th>
<th>Preheater Temp Rise</th>
<th>De-Ice Preheater</th>
<th>Preheater Recommended for Below Freezing Outdoor Temperatures</th>
</tr>
</thead>
<tbody>
<tr>
<td>208 VAC</td>
<td>240 VAC</td>
<td>1Φ</td>
<td>4.95 kW</td>
<td>4.4 A</td>
<td>10 A</td>
<td>-</td>
<td>-</td>
<td>(-)</td>
</tr>
<tr>
<td>240 VAC</td>
<td>240 VAC</td>
<td>1Φ</td>
<td>6.26 kW</td>
<td>5.1 A</td>
<td>10 A</td>
<td>-</td>
<td>-</td>
<td>(-)</td>
</tr>
<tr>
<td>240 VAC</td>
<td>240 VAC</td>
<td>2Φ</td>
<td>26.1 A</td>
<td>32 A</td>
<td>35 A</td>
<td>-</td>
<td>-</td>
<td>(-)</td>
</tr>
<tr>
<td>240 VAC</td>
<td>240 VAC</td>
<td>3Φ</td>
<td>35 A</td>
<td>29.1 A</td>
<td>30 A</td>
<td>-</td>
<td>-</td>
<td>(-)</td>
</tr>
</tbody>
</table>

*Preheater recommended for below freezing outdoor temperatures.

**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.**
**DIMENSIONS (IN.)**

![Diagram of ERV system dimensions]

**FAN OPERATING RANGE**

![Graph showing fan operating range]

**FAN VOLUME & POWER RANGE**

<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>
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</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>

**PARTS**

- Condensate Pump
- Condensate Drain Siphon
- Main Power Switch
- Control Panel
- Service Access
- Fan Regulator

**LATENT EFFICIENCY**

![Graph showing latent efficiency]

**SENSIBLE EFFICIENCY**

![Graph showing sensible efficiency]

**TOTAL EFFICIENCY**

![Graph showing total efficiency]