

A part of the **HVAC<sup>2</sup>**Next Generation Building<sup>™</sup>

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>.



### > VS400 CMe

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.

> SPECIFICATION	NS
Flow Rate	120 - 400 cfm / 204 - 680 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	12" x 8" / Diameter 10"
Operation Modes	CAV, DCV, VAV, BMS, Economizer
Certifications	TUV SUD: (UL 1812, CSA 22.2 No. 113) Pending Passive House: Pending FCC: Class A

> MECHANICAL				
Weight	203 lbs			
Shipping Weight	260 lbs			
Dimensions	42.52" L x 12.2" H x 55.12" W			
Shipping Dimensions	51" L x 18" H x 67" W			
OA Filter Dimensions	18" L x 9.25" W x 3.75" D Filter Class: MERV13			
RA Filter Dimensions	18" L x 9.25" W x 3.75" <b>D</b> Filter Class: MERV9			

> ELECTR	RICAL				
*Preheater	Inactive	Inactive	Active	Active	
Voltage	240 VAC	208 VAC	240 VAC	208 VAC	
Phase	1Ф	1Ф	1Ф	1Ф	
Power Supply	360 W	360 W	3.29 kW	2.57 kW	
FLA – Max	1.5 A	1.7 A	13.7 A	12.2 A	
MCA	1.6 A	1.8 A	16.8 A	15.1 A	
MOP	5 A	5 A	20 A	15 A	
De-Ice Preheater	-	-	2.93 kW	2.21 kW	
Preheater Temp Rise	-	-	12.5° C	9.4° C	
Max Power per Fan	170 W (0.23 hp)				

<sup>\*</sup>Preheater recommended for below-freezing outdoor temperatures.

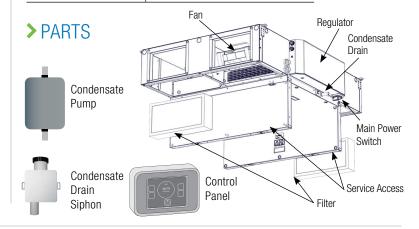
## > OPTIONAL ACCESSORIES\*\*

- External Outside Air & Exhaust Air Damper Modules
- External DX or WCO Postheater Modules
- Internally Mounted or Room Mounted CO<sub>2</sub> Sensor
- \*\*All optional accessories are field installed.

- External Condensate Pump
- External Condensate Ball Siphon
- SBC100 Smarter Building Controller

# > DIMENSIONS (IN.) **a** Indoor Environment $\uparrow$ Outdoor Environment H 42.52 b 11.81 k 0.83 D 8.82 y 20.35 h 38.19 i 52.36 X 9.53 Z 9.53 c 11.81 z 9.53 a 55.12 j 39.37 d 7.87 x 9.53 K 23.23 B 12.20 C 12.76 Y 20.35

### 120 - 400 CFM FAN OPERATING RANGE 0 - 2.0" W.C. ESP 3.5 External Static Pressure [in W.C.] 3.0 100% FAN SPEED 2.5 2.0 1.5 1.0 (recommended operating range) 0.5 0.0 50 100 150 200 250 300 350 400 450 500 0 Flow Rate [CFM] > FAN VOLUME & POWER RANGE **Ext. Static Pressure** 0.52 1.27 2.01 2.70 (in. W.C.) Maximum Flow (CFM) 400 300 200 100



390

815

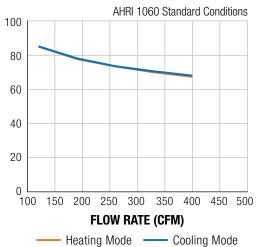
389

357

### > LATENT EFFICIENCY

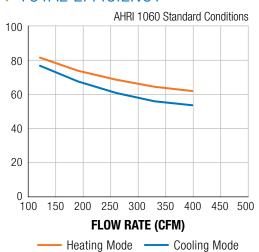
# AHRI 1060 Standard Conditions 80 60 40 20 100 150 200 250 300 350 400 450 500 FLOW RATE (CFM) Heating Mode — Cooling Mode

## > SENSIBLE EFFICIENCY



System Power (Watts)

### > TOTAL EFFICIENCY





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