

A part of the **HVAC²**Next Generation Building™

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 HVAC².



> VS400 CMh

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 89.7%) 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.

> SPECIFICATIO	NS
Flow Rate	120 - 400 cfm / 204 - 680 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 – 89.7%
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

> MECHANI	CAL
Weight	198 lbs
Shipping Weight	254 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" D Filter Class: MERV9

BLEGIF	IIUAL				
*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	ver per Fan 170 W (0.23 hp)				

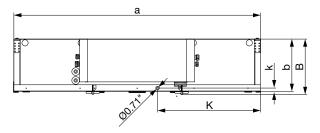
^{*}Preheater recommended for below-freezing outdoor temperatures.

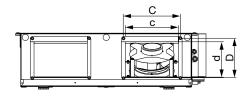
> OPTIONAL ACCESSORIES**

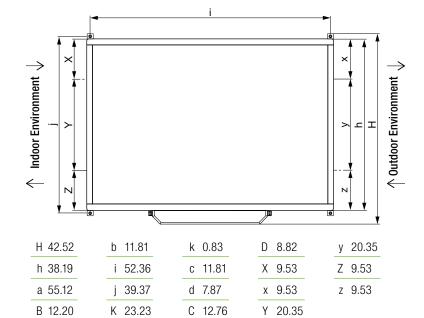
- External Outside Air & Exhaust Air Damper Modules
- External DX or WCO Postheater Modules
- Internally Mounted or Room Mounted CO₂ Sensor
- Internally Mounted of Moont Mounted GO2 Sens
- **All optional accessories are field installed.

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

> DIMENSIONS (IN.)

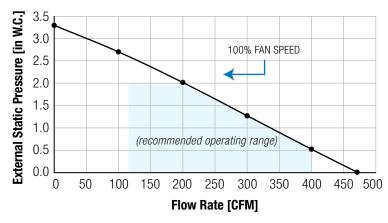


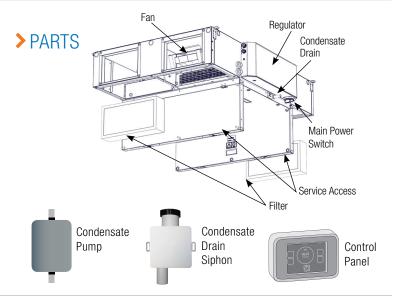




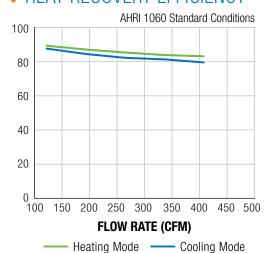
> FAN OPERATING RANGE

120 – 400 CFM 0 – 2.0" W.C. ESP





> HEAT RECOVERY EFFICIENCY



> FAN VOLUME

Ext. Static Pressure (in. W.C.)	0.52	1.27	2.01	2.70
Maximum Flow (CFM)	400	300	200	100
System Power (Watts)	815	390	389	357

> FAN POWER*

Airflow (CFM)	450	400	300	200	100
CFM/WATT (2 Fans)	1.3	1.5	2.1	2.6	2.7
System Power (Watts)	361	282	166	96	57

*At 1/8" water column



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