

CEILING GRID VENT SYSTEM

PRODUCT SHEET

VS-CGVS

PRODUCT CLASSIFICATION:

Venting Product

Definitions:

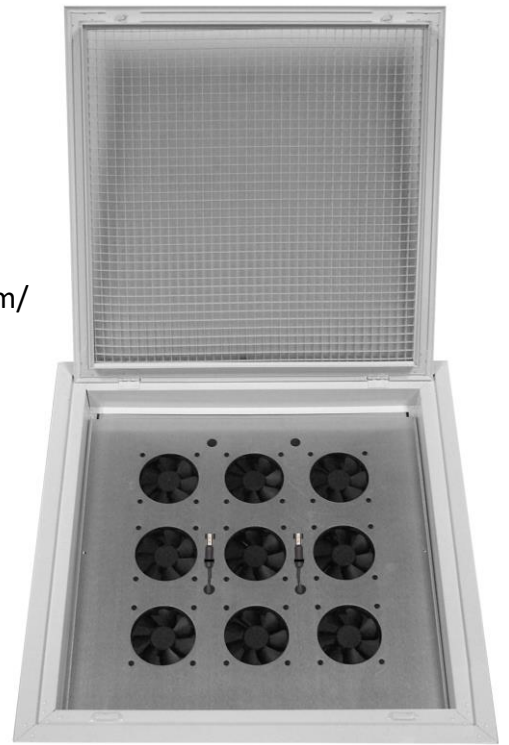
Venting Product Designed to vent an equipment room/ closet with a drop grid ceiling.

DESCRIPTION:

A professional grade ventilation product designed for very aggressively venting moderate equipment rooms and closets. Designed to be installed in a 2x2 ceiling grid and move air into the plenum space. The unit is also highly customizable when it comes to different control options, from integrated to remote controller options for the 2 banks of fans which allows for efficiency and redundancy.

INSTALLATION OVERVIEW:

Very simply, this unit requires professional installation. It requires experience with ceiling grid systems and especially ensuring the unit and grid is properly mounted and supported. Also requires knowledge of local codes and especially for plenum applications. One note is that if the plenum needs to be more directly sealed, the best option is to use a duct box using duct/insulation board.



PURCHASING INFORMATION:

The standard unit comes with dual (2) integrated Basic Controllers (described in more detail below). The unit can be ordered with various combinations of controllers.

CONTROL OPTIONS:

Basic Controllers. The standard unit utilizes 2 Basic Controllers, one that turns one bank of fans on at 80° and the second bank on at 90°. Any number of combinations can be supplied using 80°, 90°, 100°, 110° controllers. These controllers turn the fans on and off only.

Advanced LT Controller. Another 'integrated' option is to use TC-ALT-3FN controller which provides for on/off and variable speed fan control. This controller independently controls 3 banks of fans with modes for 70°, 80°, 90°, 100° and 110° on/off set point and an alarm at 115° or 125°.

Advanced Ventilation Controller (TC-AVC). This comes in 110/220V AC and 12V DC versions and resembles an on-wall thermostat.

AVC-110/220. This is a high voltage controller with relays for multiple fan banks and alarms. This is for on/off control only. The most likely installation scenario is to wire the unit to an outlet by the fan unit and use the controller to switch the outlets independently.

AVC-12. This is a low voltage controller so 12V is supplied to the controller and then it is wired directly to the fan unit.

Advanced System Controller (TC-ASC) which is a low voltage fully programmable controller. It comes in versions for shelf or rack mounting (Dual Version).

SPECIFICATIONS:

General Specifications

Dimensions: Housing 23 3/4"x23 3/4"x5 7/16" (WxHxD) / Housing 20"x20"
 Construction: Aluminum Housing (White) and Fan Bracket (Raw)
 Cooling System: Nine Magnetic Bearing Variable Speed 120mm DC Fans
 Life Expectancy: Housing: Lifetime / Fans: ~70,000 Hours
 Airflow: Variable, Max 645 cfm (See note)
 Noise: Silent to 43.5dB dependent on system settings (See note)

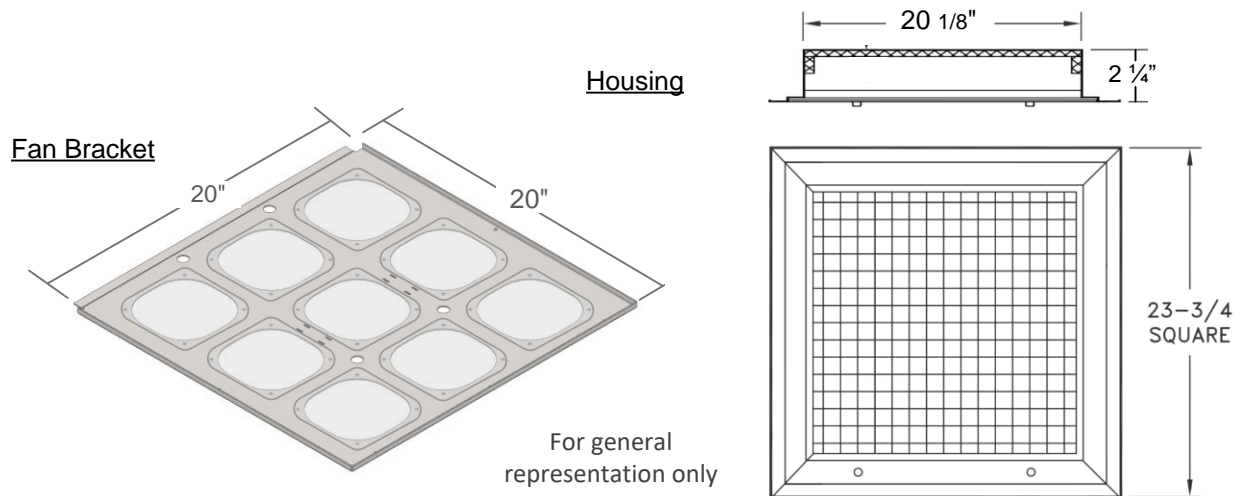
Power Specifications

Includes 2 PS-3000 Power Supplies (Will vary based on control option)

Power: 2-Pin FastWire Power System (Ensure Proper Polarity – Tip to +)
 Voltage/Amperage: Fixed 12V DC Power Supplies Included
 Fan Unit Current: 1.6A (1600mA at 12V DC)

Note: There are many challenges and misrepresentations when it comes to CFM and Noise specifications. One issue is limited standards for testing but perhaps the biggest issue is marketers more concerned with 'specs on paper' versus 'in the field'. CCI has been in biz more than 15 years and has the experience and uses high grade fans and supplies (only company using advanced technology bearings), deploys a proper approach and simply has a reputation for quality products that operate as designed and specified.

DRAWING FOR HOUSING:



TROUBLESHOOTING: The product is typically very reliable with very few issues. If the fans stop operating, first step in troubleshooting is if a temperature controller is being used, bypass the controller and see if the fans run. Second is to check the power supply by reading the voltage with a voltmeter (or try with another fan unit if available). Ensure while testing that proper polarity is followed (Tip aligned with +). If still not functioning the fans may have failed and require replacement. This unit is comprised of 5 fan assemblies (4 – 2-Fan & 1 – 1-Fan Assembly) all connected with connectors and cabling. Testing can be done on each assembly. If the fans makes an odd noise and have ensured nothing is interfering with the fan blades then the fan motor/bearing may have failed which is very rare unless has aged out. Also ensure the unit is not creating any sort of vibrations which can create odd noises.

If require additional assistance, please email support@coolcomponents.com

LONGEVITY & WARRANTY INFORMATION:

This unit is considered a 'lifetime' product. While the fans are rated to last 70,000 hours, the housings will last a lifetime and essentially indefinitely due to the aluminum housing and finishing. Simply replace the fan assemblies as necessary and the unit will once again be 'like new' with no need to shop for and re-order complete units...

This product is warranted for 3 years with proof of purchase from an authorized dealer, distributor, retailer. The warranty does not cover products that have been modified, damaged, or used in a way inconsistent with their intended purpose.

For warranty information or to file a claim, please email rainfo@coolcomponents.com

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