



COOL COMPONENTS INCORPORATED

SALES & PRODUCT MANUAL

INFORMATION FOR DEALERS

This manual contains information to assist in the design and sales of cooling and ventilation systems. The products contained in this manual represent a full line of products to resolve most if not all applications where heat generated by electronics can become harmful to the components and raise ambient temperatures in the surrounding areas.

MANUAL CONTAINS

1. Sales Strategies for Product Line
2. Application Chart for Products
3. Common Installation Scenarios
4. Cooling Products
5. Ventilation Products
6. Accessories and Add-On Products
7. Power Supply Chart



COOLING PRODUCT CATEGORY

CP-EC, CP-SF, CP-DF, CP-CC- (2FN, 4FN, FL), CP-UC

“Cooling Products” is a classification of products that are intended to cool individual components. The units are generally installed, or simply placed, above or below a heat generating component to circulate air thus protecting the component.

FEATURES

- Protects Individual Components in a System
- Circulates Hot Air at the Source to Reduce or Eliminate Heat Pockets
- Extends the Life of Equipment
- Best ‘Targeted’ Solution to Prevent Thermal Shutdowns
- All Cooling Products Can Be Used with the Temperature Controllers for More Advanced Control of the Products



QUICK REFERENCE GUIDE TO COOLING PRODUCTS

- **Econo-Cooler** (CP-EC) - Most economical and basic cooling unit. For spot cooling smaller components. Not as aesthetically pleasing as Single Fan Unit.
- **Single Fan Unit** (CP-SF) - For spot cooling smaller components such as cable or satellite receivers, game boxes, DVD players, etc.
- **Dual Fan Unit** (CP-DF) - For spot cooling mid- to larger-size components such as amplifiers, receivers, high-definition receivers, etc.
- **Component Unit** (CP-CC-2FN, 4FN, FL) - For cooling in racks or stacking between components. Usually used with high powered amplifiers, receivers, etc. There are 3 versions of this product – 2-Fan, 4-Fan, Fully Loaded (4 Fans & 4 Blowers).
- **Universal Cooler** (CP-UC, CP-UC-2) - For spot cooling or venting (intake or exhaust) racks, entertainment centers, recessed TV enclosures, etc. An extremely versatile product for many applications.





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AIRFLOW DESCRIPTIONS & APPLICATION CHART

Category 1-5: Five Being Greatest Airflow
Rating is Based on Units Being Run in Whisper Mode (W-CFM)
Max CFM is Listed as 'M-CFM'

Category / CFM Classification	Application / Product	CFM Ratings	Application
Category 1 1-5 ^{CFM}	Appropriate for Cooling or Venting Smaller Components or Systems with Less of a Demand for Cooling and/or Venting Single Fan Unit (CP-SF) Slim Vent (VS-SV)	~3 ^{W-CFM} , 4 ^{M-CFM} ~5 ^{W-CFM} , 11 ^{M-CFM}	Cable/Sat Boxes, DVD Players, Smaller Amps/Receivers. Mount to the back of an entertainment center to vent air out Structured Wiring Cans, Projector Enclosures, Cabinets w/Tight Clearances
Category 2 6-20 ^{CFM}	For Cooling Larger Components and Venting Smaller to Mid-Size Cabinets and Enclosures Dual Fan Unit (CP-DF) Cabinet Vent (VS-CV)	~6 ^{W-CFM} , 8 ^{M-CFM} ~8 ^{W-CFM} , 10 ^{M-CFM}	Amplifiers, Receivers, Video Processors, etc. Small to Medium Cabinets & Enclosures. Multiple Units can be used for more demanding applications or for 'push/pull' configurations
Category 3 21-50 ^{CFM}	For Venting Mid to Larger Cabinets and Enclosures HiFlo Lite Vent (VS-HFL) Universal Cooler (CP-UC)	~35 ^{W-CFM} , 65 ^{M-CFM} ~35 ^{W-CFM} , 66 ^{M-CFM}	Larger Cabinets & Enclosures, Closets w/Minimal Airflow Needs Recessed Plasmas, Inside Cabinets, Rack Cooling, Spot Cooling & Venting
Category 4 50-69 ^{CFM}	For Cooling Larger Components and Venting Closets, or Entire Rooms (Very Aggressive Cooling) HiFlo Vent System (VS-HFS) Component Unit (CP-CC-2FN) <small>Basic Model (2 Fans)</small>	~60 ^{W-CFM} , 130 ^{M-CFM} ~65 ^{W-CFM} , 130 ^{M-CFM}	Room & Closet Venting, Large Cabinet Venting Amplifiers and Receivers in Racks & Stack Applications
Category 5 70+ ^{CFM}	Extreme Cooling for Larger Components & Venting Racks Component Unit (CP-CC-4FN) <small>w/ 4 Fans</small> Component Unit (CP-CC-FL) <small>w/ 4 Fans & Exhaust Fans</small>	~120 ^{W-CFM} , 260 ^{M-CFM} ~135 ^{W-CFM} , 278 ^{M-CFM}	Large Amplifiers and Drawing Air into Racks Large Amplifiers, General System Cooling, and for Venting Racks & Systems

Common Installation Scenarios

Install Type	Equipment	Cooling Solution
Cabinet Install: Basic	Receiver, Cable/Sat. Box, DVD	Dual Fan Unit for Receiver, Cabinet Vent for Venting Cabinet, Single Fan Unit for Cable/Sat Box (Optional)
		Potential Issues: If the cabinet has doors and the receiver/amp is frequently run at higher volumes or is also being used for distributed audio, additional cooling equipment may be necessary. Consider: Cabinet Vent Package, Single Fan Unit on Cable/Sat Box, Temperature Controller
Cabinet Install 2: Beyond Basic	Receiver, Cable/Sat. Box, DVD Media Server or Additional Amp	Dual Fan Unit for Cooling Receiver, Cabinet Vent Package or HiFlo Lite Vent w/Temp Controller. Single Fan Unit for Cable/Sat Box (Optional)
		Potential Issues: Depending on the type of cabinet, may use the Toe Kick Vent to pull in cooler air.
Cabinet Install 3: Far Beyond Basic	Rack w/Variou s Components	Component Unit/ s and/or Dual Fan Unit for Amps & Receivers, Single Fan Unit for Cable/Sat Boxes, 1 HiFlo Lite Vent w/Temp Controller & Cabinet Toe Kick System OR 1 HiFlo System to Vent Cabinet
		Potential Issues: The key is to not only cool individual components but to also well ventilate the cabinet. This scenario produces significant heat so be conscious to properly protect the system.
Equipment Closet Install	Various Equipment in Closet	Component Unit/ s and/or Dual Fan Unit for Amps & Receivers, Single Fan Unit for Cable/Sat Boxes, HiFlo System to Vent Closet
		Potential Issues: Closet doors should have a gap under the door or other means for air to enter the closet. Do rely upon HVAC systems to cool or circulate air (HVAC use does not correlate to A/V System Use)
Projector Enclosures	DLP & LCD Projectors in Enclosure	Slim Vents (2-4 Slim Vents)
Structured Wiring Cans	Media Server, Routers, Switches, etc.	Slim Vent (1-2 Slim Vents)
Recessed TV Installs	Recessed LCD & Plasma Installs	Universal Cooling Unit

Notes

Requires Power Supply (Use PS-300 – Multiple Units can be powered with one PS-300)

ECONO-COOLER

CP-EC



This is a very economical and basic unit but full of functionality. It is intended to fill a need for systems where the budget is tight and simplicity is key. For a more aesthetically pleasing unit with similar functionality, use the Single Fan Cooling Unit but it should also be said that economical does not mean cheap - this is a high quality blower specially manufactured to quietly and efficiently cool and last a long time. This unit has various uses but is most commonly simply placed on a component to provide direct cooling. With the mounting holes, it can also be fastened to a cabinet or using an optional gasket, can be adhered to the side of a component if space truly is non-existent.

FEATURES

- Quiet & Efficient Operation
- Effectively Circulates Air Around Components
- Quick and Easy Installation
- Sleek and Low Profile Size Allows for Placement in Tight Spaces
- Uses Variable Voltage Power Supply to Adjust Fan Speed. This allows the unit to be run more aggressively if installed in an enclosed cabinet or closet, or silently if necessary.
- Compatible with the Temperature Controllers (TC- BSC & TC-AC)

Category
1

GENERAL SPECIFICATIONS

Dimensions:	2 3/8" x 2 3/8" x H 5/8"
Construction:	Black Plastic Housing
Cooling System:	Brushless Levitation Blower
Air Flow:	4 CFM (Max)
Noise:	12-20 dba (Max)

POWER SPECIFICATIONS

Multiple Units Can Be Powered with a Single PS-300 Power Supply

Connection:	2-Pin FastWire Power System (Ensure proper polarity)
Voltage:	5 to 12 VDC
Current - Amp:	.04 Amps / 40 milliamps at 12V DC
Consumption – Watts:	.5 at 12V DC

Notes

Requires Power Supply (Use PS-300 – Multiple Units can be powered with one 300mA)

SINGLE FAN COOLING UNIT

CP-SF



This unit circulates air away from components protecting equipment from heat accumulations and failures. The unit is simply placed on top of a component and is ideal for cable and satellite receivers or larger components. The Single Fan Unit is ideal when heat is a concern but does not reach extreme temperatures (for more aggressive cooling, use the Dual Fan Unit). The heavy gauge steel construction not only provides a nice appearance and is extremely durable, it also acts as a large heat sink increasing the efficiency of the unit. This unit features a top-quality levitation blower that is mounted using a 'floating' gasket which eliminates noise caused by normal vibrations. The unit operates on DC voltage and by adjusting the voltage can be run silent or more aggressively depending on the application.

FEATURES

- Quiet & Efficient Operation
- Effectively Circulates Air Around Components
- Quick and Easy Installation
- Sleek and Low Profile Size Allows for Placement in Tight Spaces (On Components in a Rack or Entertainment Center)
- Uses Variable Voltage Power Supply to Adjust Fan Speed (Not Included). This allows the unit to be run more aggressively if installed in an enclosed cabinet or closet, or silently if necessary.
- Compatible with the Temperature Controllers (TC- BSC & TC-AC)

Category
1

GENERAL SPECIFICATIONS

Dimensions:	W - 5 1/8" x H - 1" x D - 4"
Construction:	Heavy Gauge Steel (Painted Semi Gloss Black)
Cooling System:	One Brushless Levitation Blower
Air Flow:	4 CFM (Max)
Noise:	Silent to ~20 dba (Max)

POWER SPECIFICATIONS

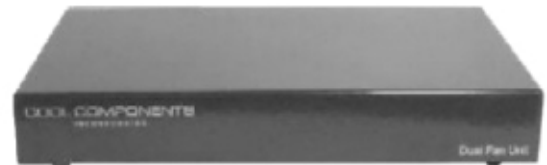
Multiple Units Can Be Powered with a Single PS-300 Power Supply

Connection:	2.1mm Coax Connector w/ 2-Pin FastWire System (Ensure proper polarity)
Voltage:	5 to 12 VDC
Current - Amp:	.04 Amps / 40 milliamps at 12V DC
Consumption – Watts:	.5 at 12V DC

Notes

Requires Power Supply (Use PS-300 – Multiple Units can be powered with one PS-300)

DUAL FAN COOLING UNIT



CP-DF

This unit aggressively circulates and moves air away from components thus protecting equipment from heat accumulations and failures. The enclosure is made from heavy gauge steel that not only provides a nice appearance, it also acts as a large heat sink increasing the efficiency of the unit. This unit features two top-quality levitation blowers (brushless & special bearing system) that are mounted using 'floating' gaskets which eliminates noise caused by normal fan vibrations. The unit operates on DC voltage and by adjusting the voltage, the unit can be run silent or more aggressively depending on the application. This unit is ideal for amplifiers and receivers installed in cabinetry or rack systems.

FEATURES

- Quiet & Efficient Operation
- Quick and Easy Installation
- Aggressively Circulates Air Around Components
- Sleek and Compact Size Allows for Placement in Tight Spaces
- Uses Variable Voltage Power Supply to Adjust Fan Speed. This allows the unit to be run more aggressively if installed in an enclosed cabinet or closet, or silently if necessary.
- Compatible with the Temperature Controllers (TC- BSC & TC-AC)

Category =
2

GENERAL SPECIFICATIONS

Dimensions:	W - 6 1/4" x H - 1" x D - 4"
Construction:	Heavy Gauge Steel (Painted Black)
Cooling System:	2 Brushless Levitation Blowers w/Specialty Bearing System for Long Life and Low Noise
Air Flow:	8 CFM (Max)
Noise:	Silent to ~28 dba (Max)

POWER SPECIFICATIONS

Multiple Units Can Be Powered with a Single PS-300 Power Supply

Connection:	2.1mm Coax Connector w/ 2-Pin FastWire Power System (Ensure proper polarity)
Voltage:	5 to 12 VDC
Current - Amp:	.08 Amps / 80 milliamps at 12V DC
Consumption – Watts:	1.0 at 12V DC