STREAMTEK™
PRODUCT
CATALOG

At Streamtek Corp. we strive to provide our clients with superior customer service and the best quality in compressed air products. We find that building long-term customer relationships based on trust and high service standards will help us better address your needs and concerns.
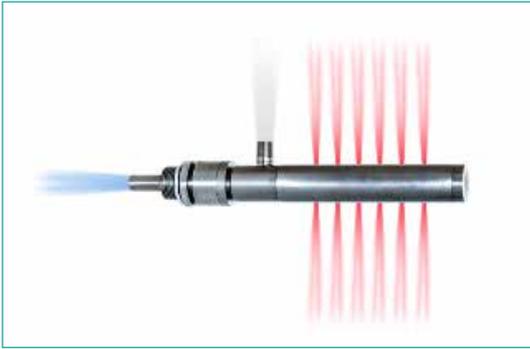
Cabinet Panel Coolers

Cabinet Panel Coolers are specifically made to purge, cool and maintain consistent temperatures in electronic control panel cabinets.

The Cabinet Cooler incorporates Streamtek's reliable Vortex Tube to cool electronic and electrical enclosures. The filtered air that enters your electronic control panel cabinets is up to 45°F colder than the compressed air supply.

Cabinet Panel Cooler Features

☑ Quiet and affordable
☑ Stainless steel construction
☑ Fast installation
☑ No moving parts
☑ Compact/lightweight
☑ No fans or lters
☑ No CFC's
☑ Mounts through standard knockout
☑ Stabilize temperature/humidity

Can I use a Vortex Tube to cool my electrical enclosure instead of the Cabinet Panel Cooler?

Yes, however there are clear-cut advantages to using the Streamtek Cabinet Panel Cooler for this application.

- Cabinet Panel Coolers have a pressure release valve to allow warm air from the electrical enclosure to escape the cabinet.
- Cabinet Panel Coolers have been fine tuned to achieve maximum refrigeration; this cannot be adjusted. Vortex Tubes, on the other hand, can be adjusted by the user, leaving them open to poor operation and miss-adjustment.
- Cabinet Panel Coolers have been engineered to reduce noise levels drastically from that of the sole Vortex Tube.

How to do I stop the solenoid valve from chattering?

A .002 microfarad capacitor can be wired across the leads on the thermostat to stop it from chattering. This chattering can sometimes occur by a very slow temperature change. The capacitor simply desensitizes the thermostat to stop the chattering effect. The capacitor is available FREE OF CHARGE at special request.

### What is the cooling capacity (BTU/Hr.) of your Cabinet Panel Coolers?

Streamtek manufactures Cabinet Panel Coolers which produce 550 – 2,800 BTU/Hr. from a single unit. If you require additional cooling, we have dual cooler units from 3,600 – 5,600 BTU/Hr.

Where should the Cabinet Panel Cooler and Thermostat be installed?

The Streamtek Cabinet Panel Cooler must be installed at the top of the cabinet through standard knockout, and secured with locking nut. A thermostat at the top of the cabinet is best (but not required), as this is the hottest spot due to the rising hot air.

How Do Cabinet Panel Coolers Work?

A) Compressed air enters the vortex tube powered Cabinet Panel Cooler through a standard NPTM inlet.

B) The vortex tube separates the compressed air into cold and hot air streams

C) The hot air from the vortex tube is exhausted into the atmosphere after being muffled to keep noise levels down.

D) As the hot air from within the cabinet enclosure cooler, it exhausts through the cabinet air exhaust at a slight positive pressure.

E) The cold air enters the cabinet enclosure cooler via the cold air distribution kit. Holes are drilled into the tube to supply cold air where required.
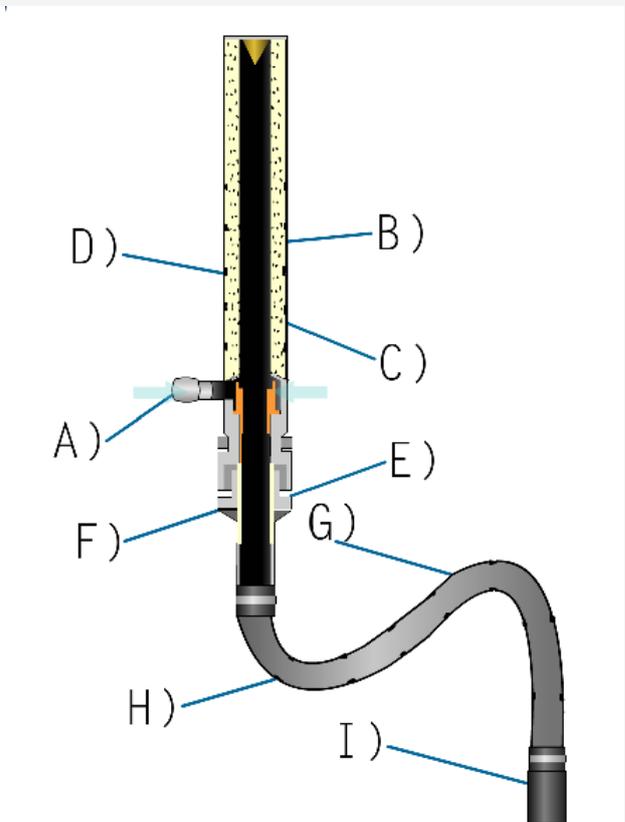
What is the force of air inside the cabinet enclosure?
The pressure within the cabinet can build up to approximately 2 PSIG, depending on how tightly seal the cabinet is.

Cabinet Panel Coolers Specifications

Mounting:
The Streamtek **Cabinet Panel Cooler** must be vertically mounted, on a flat surface for all enclosure types. The Streamtek Cabinet Panel Cooler system is easy to install through a 1-1/8" diameter drilled hole or electrical knock-out.

Humidity:
It's important to close off any openings and any vents that may bring in ambient air, especially in warm/hot or high humidity environments. The relative humidity inside the enclosure stabilizes at 45% for all continuous operating Cabinet Panel Coolers.

Filtration:
All Streamtek Cabinet Panel Cooler systems include an auto drain 5 micron dirt and water filter. This filter is imperative to prevent any accidental water flow into the enclosure. If oil is present in the compressed air supply, use an oil filter within at least .3 micron rating.

Streamtek is using the internet as a venue to showcase its ongoing environmental commitment to inspire everyone around the world to be more environmentally-friendly.

Streamtek will profile its environmental practices in an aggressive manner to demonstrate first-hand how companies and individuals alike can take proactive steps to reduce their carbon footprint.

NEMA 4/4X (IP56) - It is designed for electronic control panels. It is splash-resistant, oil-tight, and dust-tight for use in wash-down environments as well as the outdoors. When the Vortex Tube Panel Cooler is not operating, a low pressure relief valve closes and seals to maintain the integrity of your NEMA 4 cabinet enclosure. It is constructed of Stainless Steel (Type 303) for long life in wet environments.

NEMA 12 (IP52) - Cabinet Panel Coolers (oil-tight, dust-tight) are used in industrial environments where no liquids can come into contact with the unit. It is constructed of Stainless Steel (Type 303) to withstand harsh corrosive environments.

			Specifications		
Model No.	Capacity Btu/hr.	Capacity Kcal/hr.	Air Consumption SCFM @ 80 PSI	Air Consumption SLPM @ 5.5	Sound Level
CC1208-1	550	139	8	226	67*
CC1215-1	1,100	277	15	425	73*
CC1225-1	1,800	454	25	708	74*
CC1230-1	2,060	519	30	849	74*
CC1240-1	2,800	706	40	1,132	79*
CC1250-1	3,400	857	50	1,415	74*
CC1260-1	4,000	1,007	60	1,698	76*
CC1270-1	4,800	1,209	70	1,981	76*
CC1280-1	5,600	1,411	80	2,264	77*

Cabinet Panel Coolers

← 1.6" → (41 mm)

(149 mm) 5.86"

Muffler

8.34" (212 mm)

10.45" (265 mm)

1/4" NPT

Cabinet Wall

Lock Nut   Cold Air Outlet

Cabinet Panel Coolers Dimensions

- **No Freon** or refrigerants used
- **Small, lightweight**, and portable
- **Easy installation** through standard electrical knockout
- **Lowest Price in the industry!** Find a competitor's equivalent industrial vortex tube panel Cabinet Enclosure Cooler for less? Contact us and we will beat it by 20%.
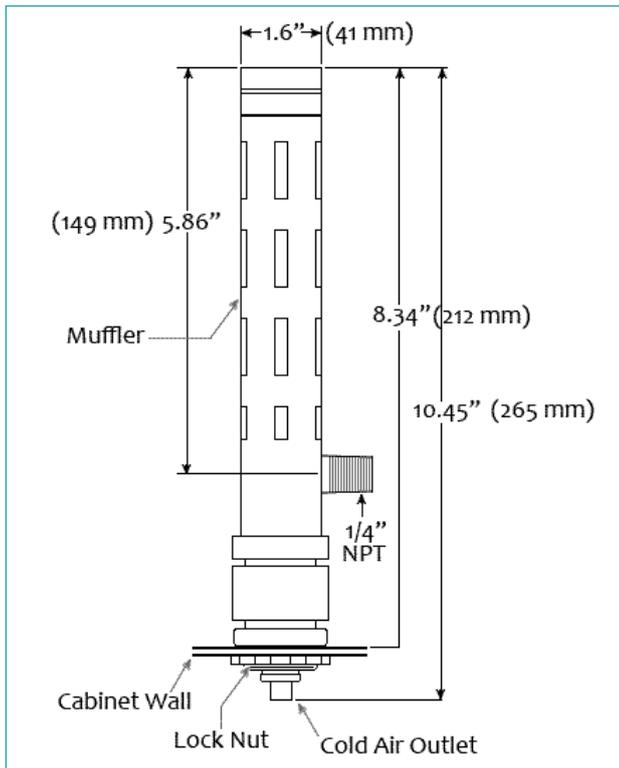
Cooling Pharmaceutical Panels
Pharmaceutical Control Cabinets can easily become overheated in the summer time, which could shut down pharmaceutical processing lines. By removing the heat problem within the control panel with a Model CC1230-1 Panel Cooler, it can save thousands of dollars from the cost of downtime and maintenance.

Cabinet Panel Coolers

Temperature Difference (°F)	Btu/hr./sq. ft.	How to Determine Size Requirements of the Cabinet Enclosure Cooler?
5	1.5	Determine the watts of heat generated inside the enclosure.
10	3.3	Watts x 3.41 = **(W)** Btu/hr.
15	5.1	Determine the area in square feet that is exposed to the air, not including the top of the cabinet.
20	7.1	[2 x {Width} + 2 x {Depth}] {Height} = **(S)** Square feet of cabinet
25	9.1	Determine the temperature difference between the desired internal tem-perature and the maximum expected external temperature. Now you can
30	11.3	use the below chart to determine the Btu/hr./sq. ft., for this differential **(B)**. Determine the external heat load **(H)**.
35	13.8	**(S)** x **(B)** = **(H)** Btu/hr.
40	16.2	Now take **(W)** and add **(H)** to get the total heat load or Btu/hr. refrigera-tion required to maintain desired temperature and choose the correct one using the chart below.

Cabinet Panel Cooler Description

NEMA 12 (IP52): Unit Only

Model #	Capacity Btu/hr.	Material
CC1208-1	550	Stainless 303
CC1215-1	1100	Stainless 303
CC1225-1	1800	Stainless 303
CC1230-1	2060	Stainless 303
CC1240-1	2800	Stainless 303

NEMA 12 (IP52): Thermostat Control

Model #	Description
CC1208-3	NEMA 12, with Thermostat Control, 550 Btu/hr.
CC1215-3	NEMA 12, with Thermostat Control, 1100 Btu/hr.
CC1225-3	NEMA 12, with Thermostat Control, 1800 Btu/hr.
CC1230-3	NEMA 12, with Thermostat Control, 2060 Btu/hr.
CC1240-3	NEMA 12, with Thermostat Control, 2800 Btu/hr.
CC1250-3	NEMA 12, with Thermostat Control, 3400 Btu/hr.
CC1260-3	NEMA 12, with Thermostat Control, 4000 Btu/hr.
CC1270-3	NEMA 12, with Thermostat Control, 4600 Btu/hr.
CC1280-3	NEMA 12, with Thermostat Control, 5200 Btu/hr.

NEMA 12 (IP52): Continuous Operation

Model #	Description
CC1208-2	NEMA 12, Continuous Operation, 550 Btu/hr.
CC1215-2	NEMA 12, Continuous Operation, 1100 Btu/hr.
CC1225-2	NEMA 12, Continuous Operation, 1800 Btu/hr.
CC1230-2	NEMA 12, Continuous Operation, 2060 Btu/hr.
CC1240-2	NEMA 12, Continuous Operation, 2800 Btu/hr.
CC1250-2	NEMA 12, Continuous Operation, 3400 Btu/hr.
CC1260-2	NEMA 12, Continuous Operation, 4000 Btu/hr.
CC1270-2	NEMA 12, Continuous Operation, 4800 Btu/hr.
CC1280-2	NEMA 12, Continuous Operation, 5600 Btu/hr.

What is the air consumption?

Each application will have a different heat load, which will determine the air consumption of your cooler. Generally you can expect from 8 to 80 SCFM @ 100 PSIG. This will provide cooling from 550 – 5,600 BTU/Hr. It's important to note that this is only when the adjustable thermostat calls for cooling!

Let Us Help You

For assistance with application engineering, call our factory at 1-705-770-4455 or email an Application Engineer at support@stream-tek.com. With round-the-clock customer support in USA, Canada, and Europe, STREAMTEK™ representatives can give you a feasible recommendation within 12 hours.

Cabinet Panel Coolera Description

NEMA 4/4X (IP56): Unit Only			
	Model #	Capacity Btu/hr.	Material
	CC408-1	550	Stainless 303
	CC415-1	1100	Stainless 303
	CC425-1	1800	Stainless 303
	CC430-1	2060	Stainless 303
	CC440-1	2800	Stainless 303

NEMA 4/4X (IP56): Thermostat Control		
	Model #	Description
	CC408-3	NEMA 4/4X, with Thermostat Control, 550 Btu/hr.
	CC415-3	NEMA 4/4X, with Thermostat Control, 1100 Btu/hr.
	CC425-3	NEMA 4/4X, with Thermostat Control, 1800 Btu/hr.
	CC430-3	NEMA 4/4X, with Thermostat Control, 2060 Btu/hr.
	CC440-3	NEMA 4/4X, with Thermostat Control, 2800 Btu/hr.
	CC450-3	NEMA 4/4X, with Thermostat Control, 3400 Btu/hr.
	CC460-3	NEMA 4/4X, with Thermostat Control, 4000 Btu/hr.
	CC470-3	NEMA 4/4X, with Thermostat Control, 4800 Btu/hr.
	CC480-3	NEMA 4/4X, with Thermostat Control, 5600 Btu/hr.

NEMA 4/4X (IP56): Continuous Operation		
	Model #	Description
	CC408-2	NEMA 4/4X, Continuous Operation, 550 Btu/hr.
	CC415-2	NEMA 4/4X, Continuous Operation, 1100 Btu/hr.
	CC425-2	NEMA 4/4X, Continuous Operation, 1800 Btu/hr.
	CC430-2	NEMA 4/4X, Continuous Operation, 2060 Btu/hr.
	CC440-2	NEMA 4/4X, Continuous Operation, 2800 Btu/hr.
	CC450-2	NEMA 4/4X, Continuous Operation, 3400 Btu/hr.
	CC460-2	NEMA 4/4X, Continuous Operation, 4000 Btu/hr.
	CC470-2	NEMA 4/4X, Continuous Operation, 4800 Btu/hr.
	CC480-2	NEMA 4/4X, Continuous Operation, 5600 Btu/hr.

Can condensation occur within our control panels when using STREAMTEK™ Cabinet Panel Coolers?

No. The Streamtek Cabinet Panel Cooler will purge warm/moist air from inside your enclosure. The cool air that is being injected into the cabinet will then start to pick up heat, which in-turn causes the humidity to drop. A continuous operation Cabinet Panel Cooler will keep the relative humidity at about 45%. It is imperative that all openings in your panel are closed off, as humidity from the ambient air could cause condensation within your panel.

Reversible Drum Storm

Streamtek's Drum Storm Drum Pump is the most reliable device for handling spills and overflows using just compressed air as a power source.

It can be used for sopping up or transferring waste water, sludge, tramp oil, hydraulic oil, lubricant, coolant, chips, and other liquids. This system comprises no moving parts, thereby virtually eliminating the need for maintenance.

Why the Reversible Drum Storm?

The Drum Storm drum pump was designed as an alternative to electrically-powered vacuums that have many drawbacks. For instance, they wear out in no time, their motor is prone to stalling or freezing during operation, or the impellers clog when used with certain materials.

These disadvantages are absent in the Streamtek Reversible Drum Storm because it has no motor, impellers, or moving parts. The only movable part on the drum pump is its knob. You do not have to worry about spills or overflows because the Drum Storm comprises a built in automatic safety feature.

STREAMTEK ™

Who We Are

We have over 15 years of experience in compressed air-operated products. All our products are manufactured in-house. We pride ourselves on keeping costs low and eliminating the middle man in order to pass the savings onto our customers. We offer outstanding product quality, exceptional customer service, and safe/secure business transactions. We are open Monday to Friday from 9:00a.m. to 5:00p.m. Eastern Standard Time.

Our Vision and Goal

Our vision is to incorporate quality and effectiveness into our everyday production. We strongly stand behind our products from the moment they are produced to the moment they are taken out of use. All of our products come with an unmatched 6 year warranty against failure. If found faulty within six years, a replacement product will be shipped free of charge. Our goal is to build a long lasting partnership with all our customers.

Stream-Tek Guarantees its catalogued product for 30 days. If you are not completely satisfied for any reason with that time, return the product for a full credit with NO restocking fee!

Contact STREAMTEK CORP

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