

Keep it Cool and Running!

Summer usually means "fun"! That isn't the case when the hot weather cooks the electronics in your control panels. And, it usually happens when you least expect it. Machines, conveyors and production lines can come to a complete halt when circuits and sensors malfunction.

An EXAIR Cabinet Cooler[®] is the quick, easy fix. NEMA 12, 4, and 4X Cabinet Coolers are UL Listed and designed to match the NEMA rating of the enclosure. They're available in many cooling capacities for large and small control panels. The compact Cabinet Cooler is quickly installed through a standard electrical knockout hole and held in place with the supplied locknut.



EXAIR's new ETC limits compressed air use by maintaining an accurate, constant temperature in the enclosure.

Want to limit compressed air use? EXAIR's new ETC[™] Electronic Temperature Control can keep the temperature inside the enclosure slightly under the maximum rating of the electronics. This permits just enough cooling for the electronics without going so cold as to waste compressed air. The temperature inside the electrical enclosure is constantly monitored by a quick response thermocouple with an LED display on the ETC that shows °F or °C.

If the hot summer weather is creating the problem, in most cases, 2,000 Btu/hr is enough refrigeration to offset the summertime heat load, regardless of the panel size. If you need some assistance selecting a Cabinet Cooler for your enclosure, please contact an EXAIR Application Engineer at (800) 903-9247 or techhelp@exair.com.

1/4 Ton Of Refrigeration!

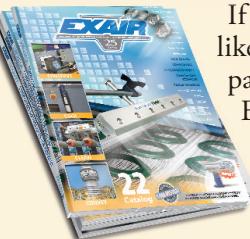
The Vortex Tube has been a scientific wonder since it was invented by George Ranque back in 1928. People are amazed when they get to see for themselves the cooling power it delivers without the use of big, expensive refrigeration equipment. It uses compressed air as its only power source. Hot air escapes out one end of the tube and cold air down to -50°F (-46°C) out the other – with no moving parts.



The stainless steel Vortex Tube converts compressed air into cold air down to -50°F (-46°C) with cooling capacities up to 10,200 Btu/hr.

Vortex Tubes are the low cost solution to a wide variety of spot cooling applications. Some of the more common ones include:

- Cooling parts after soldering, welding and brazing
- Setting hot melt adhesives
- Cooling cutter blades and machining operations
- Cooling heat seals and environmental chambers



If you have a cooling application and would like to know more, please return the postage-paid card. We'll send your FREE copy of EXAIR's Catalog 22 that has complete information on Vortex Tubes and all other products.

FREE AC Sensor With Cabinet Cooler Purchase!

Receive a FREE AC Sensor when you purchase a Cabinet Cooler[®] System by August 31, 2009.

Visit www.exair.com/05/ccpromo.htm for details.



Please
see other
side

Application Spotlight:

Floating A Plastic Film



The Problem:

A plastics company had a problem feeding multiple layers of thin plastic film into the machine that laminates them together. The initial machine setup required the workers to manually feed the leading edge of each of the films across the various rollers of the machine. Working with the lightweight film in the confined space of the machine was extremely difficult and took a lot of time. It became increasingly frustrating for the workers when there were frequent jams or breaks in one of these continuous webs.

The Solution:

They installed a series of Full-Flow Air Knives to assist with the threading. As the film left the edge of one roller, the Full-Flow Air Knives (mounted on each side of the film) pulled a vacuum to “float” the plastic film to the next set of rollers. **Feeding the machine went quickly without it bunching up or clinging to itself.**

Editor's Comment:

For most applications, the Super Air Knife is the best choice due to the low air consumption and noise. In this situation, the plastics company wanted the air knife to be as compact as possible. Air consumption was not a concern since it only required a low pressure of 40 PSIG to create enough vacuum to draw the plastic film through the set of air knives and push it to the next set of rollers. When it comes to floating webs, drying conveyors or cooling parts, EXAIR has the complete selection of air knives suited to the application.

THE EXAIR® GUARANTEE

EXAIR unconditionally guarantees its cataloged products for 30 days. If you are not satisfied for any reason within that time, you may return the product for full credit with no restocking charge. Of course, this is in addition to our "Built to Last" Warranty.

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New Application Checklist

Here are some recent problems solved by EXAIR products. Please call our Application Engineers at 1-800-903-9247 or e-mail them at techelp@exair.com for help with yours.

- A company that machines crankshafts for diesel engines heats up the bearings to fit them on the crank journal, and rapidly cools them with a **Model 120024 4" (102mm) Super Air Amplifier**.
- After machining the rotors, a small electric motor manufacturer prevents shorts by blowing away all the tiny metal chips with a **Model 110003 3" (76mm) Super Air Knife**.
- A surf board manufacturer uses a dual spindle drilling machine to drill the foam core. They prevent any melting or warping by keeping both bits cool with the **Model 5330 High Power Cold Gun with Dual Point Hose Kit**.
- A power steering components manufacturer sped up their testing time by emptying the oil from a reservoir in 10 seconds with a **Model 6080 3/4" (19mm) Line Vac instead of waiting 60 seconds for each one to drain**.



High Power Cold Gun

- » Replace messy mist
- » Low cost, no electricity
- » Improves tolerance control
- » Increase production speeds

Machining Without Coolant!

The High Power Cold Gun has twice the cooling capacity of the standard Cold Gun, cooling the part in less time. It's ideal for cutting, grinding, sawing and machining.

Call now **(800) 903-9247**

EXAIR

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To learn more go to:
www.exair.com/05/hpcg.htm