

EXAIR®-MAIL

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NEWS YOU CAN USE FROM EXAIR CORPORATION



Keep Electronic Cabinets Cool!

The problem is typical. Processes that run smoothly in Fall, Winter and Spring come to a screeching halt when hot Summer weather moves in. Why? Components in your electrical enclosures that might be warm any other time of the year become hot, often exceeding their temperature rating due to the panel being exposed to hot weather.



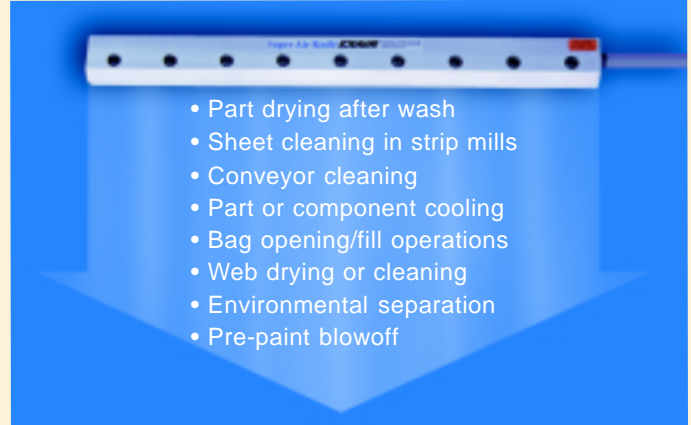
ETC Cabinet Coolers prevent overheating and maintain the desired temperature setting in the enclosure.

EXAIR Cabinet Coolers are the low cost solution. They put 20°F cold air into your enclosure while keeping the external contaminants such as dust and water out. The cooling capacities up to 2,800 Btu/hr. are ideal for small and large enclosures. Using thermostat control, the Cabinet Coolers save compressed air by operating only when the enclosure exceeds the temperature setting. EXAIR's new ETC (shown above) delivers precise temperature control with an accuracy of $\pm 1^\circ\text{F}$ of the dial setting while giving a constant readout of the enclosure temperature.

Cabinet Coolers are easy to use. They install in minutes, have no moving parts to wear out, and are inexpensive with systems starting at \$267. By comparison, a refrigerant air conditioner requires constant maintenance of filters and freon, have relatively short life spans and start at \$1300! Our product quality is exceptional. **EXAIR backs all of the Cabinet Coolers with a Five Year "Built To Last" Warranty.** You won't find that warranty from other companies.

Don't risk losing production by having a machine fail due to an overheated control panel. Call our Application Engineering Department at 1-800-903-9247. One of our Application Engineers will calculate the heat load in your enclosure and size a Cabinet Cooler for you.

Low Cost Super Air Knife



The need to blowoff, cool or dry a part is very common. Knowing how to do it effectively and efficiently is not everyone's area of expertise. It's like buying a car. Can you be sure the one you choose is built well, efficient, and won't keep you reaching deep into your pockets for more money to maintain it? Some might think a blower would be a better choice over using compressed air. That's where it's important to know the facts. Here's how the Super Air Knife and blower compared in this bottle blowoff application using two 12" long air knives:



	Super Air Knife vs. Blower							
	PSIG	SCFM	Horsepower Required	Sound Level dBA	Purchase Price	Annual Electrical Cost*	Approx. Annual Maintenance Cost	First Year Cost
Super Air Knife	60	55	11	69	\$380	\$1,417	\$300	\$2,097
Blower Air Knife	N/A	N/A	10	90	\$5,500	\$1,288	\$1,500	\$8,288

*Based on national average electricity cost of 8.3 cents per kWh. Annual cost reflects 40 hours per week, 52 weeks per year.

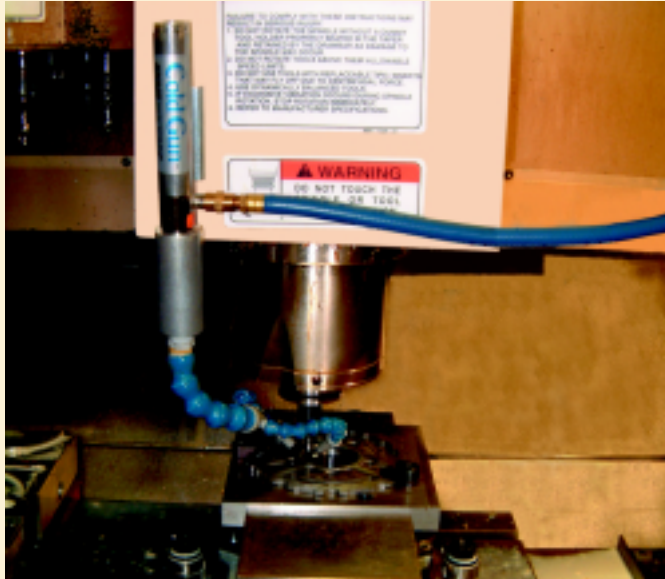
As shown in the table above, the Super Air Knife is the most cost effective way to blowoff the bottles. And, that's not just referring to the purchase price. The energy use for many common applications is about the same as an electrically powered blower - without the high cost for maintenance or downtime.

Equally important is performance. The Super Air Knife delivers a uniform, high velocity sheet of laminar airflow. In the bottle application above, it did an exceptional job of removing the moisture on one pass and the noise level was only 69 dBA. By contrast, the curtain of air from the blower was very inconsistent, leaving a lot of moisture and producing a dangerous noise level of 90 dBA.

Would you like to know more? See page 6 of Catalog 18 or visit our web site at www.exair.com/em/blowoff.htm We can help!



Application Spotlight: Cold Gun Increases Tool Life



The Problem:

Positech Corporation of Fairfield, OH manufactures intricate machined parts for the automotive, motorcycle and aerospace industries. One of their machinists, Dave Gray, had a frequent problem rough-milling pockets in type 410 stainless steel when using a two flute 3/8" carbide cutter on their Okuma vertical machining center. Coolant produced thermal shock, resulting in micro cracking of the carbide inserts. Without coolant, thermal cracking of the inserts was almost immediate. They were constantly changing inserts.

The Solution:

The company installed a Model 5215 Cold Gun System. The 20°F cold air kept the inserts cool and allowed all the heat to be carried away on the chips. Tool life increased by 50%.

Editor's Comment:

Heat build up can ruin expensive tooling as well as the part being machined. In Positech's situation, it would have been easy to constantly ruin a \$200 cutter. When asked how others solve this problem, Dave replied, "We've seen companies go so far as to defeat the safety interlocks so the machine runs with the doors open - just to blow a little compressed air at the part to cool it. For us, the Cold Gun keeps the tooling cool and allows us to immediately handle the part since the heat blows away with the chips."

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.

FREE! More Than A Catalog! It's A Technical Guide

EXAIR's Catalog 18 has been expanded to include technical data to help you better understand and use compressed air. It details safety issues as outlined by OSHA along with improving efficiency to reduce energy costs and noise. Return the enclosed postage-paid card and we'll send your FREE copy.



Application Checklist

In each newsletter, we summarize a few recent problems solved with an EXAIR product. Please call our Application Engineers at 1-800-903-9247 for help solving yours.

- A lighting manufacturer cools metal halide bulbs with the **Model 3225 Vortex Tube** after they are charged with gas and sealed.
- At the end of each shift, a snack foods manufacturer uses the **Model 6293 Deluxe Chip Vac System** to vacuum salt and crumbs from their ovens.
- A tooling manufacturer uses the **Model 110006 6" Super Air Knife** to blow water off a batch of end mills as they exit a washer.
- A pharmaceutical company uses the **Model 6066 3" Line Vac** to transport adhesive bandages from a production conveyor to an inspection station.
- Following a sanding operation, a furniture manufacturer uses the **Model 111124 24" Super Ion Air Knife System** to remove charged particles and saw dust prior to applying the finish.
- To eliminate a "bucket and ladder" fill operation, a manufacturer of ice cream conveys chopped nuts up to the mixer with the **Model 141100 1" Stainless Steel Threaded Line Vac**.

Best Air Nozzle Available!

Cut air consumption up to 80%
and noise levels up to 10 dBA!



Blowoff • Clean • Cool • Dry



EXAIR's new Super Air Nozzle provides a high thrust, concentrated stream of high velocity airflow. The sound level is extremely low and the air consumption is minimal. It is ideal for blowoff, cleaning, cooling and drying operations.

- Quiet - 74 dBA at 80 PSIG
- Uses only 14 SCFM at 80 PSIG
- Reduced cost for blowoffs
- Meets OSHA dead ended pressure requirements

For more details, return the postage-paid card for a catalog or contact an Application Engineer.