

EXAIR®-MAIL

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NEWS YOU CAN USE FROM EXAIR CORPORATION



Cool Electronic Cabinets - Safely!

The scorching hot days of summer are here. That usually spells fun for most unless the heat brings your production to a screeching halt due to overheated electronics.

EXAIR's low cost Cabinet Coolers are the permanent solution to the fluctuations in heat load. In addition to a wide range of cooling capacities, we manufacture models that are suited to a variety of environments, including:

- NEMA 4 (dust, rain and hose down)
- NEMA 4X (same as NEMA 4 but in corrosive areas)
- NEMA 12 (dust, dirt, dripping of non-corrosive liquids)

Since we are concerned about your safety, EXAIR doesn't just claim that these ratings are so. EXAIR Cabinet Coolers are UL Listed, assuring you the Cabinet Cooler will maintain the rating of your enclosure and keep the inside of your panel cool and dry without risk of a shock hazard.



The Model 4208 NEMA 12 Cabinet Cooler System keeps the panel cool and personnel safe!

Recently, we've made some improvements to our smallest Cabinet Cooler that will be good news to your ears. The mini Cabinet Cooler (shown above) now features internal muffling that has brought the sound level down to an amazing 60 dBA! Like other models, it incorporates a stainless steel vortex tube that circulates 20°F (-7°C) air throughout the enclosure. It is available with thermostat control to minimize compressed air use and there are no moving parts to wear out.

Need help selecting the right model for your overheated enclosure? Contact Kirk, Brian, Joe or Neal in our Application Engineering Department. They can help.

Turn Ordinary Pipe Into A Conveyor

NEW!



Threaded Line Vac connects to standard pipe, converting it into a powerful in-line conveyor!

Now, EXAIR has made it easier than ever to create an instant conveying system. A simple trip to your local home center for some PVC pipe and related fittings, and soon, you're ready to convey!

As you've seen in our catalog, the number of Line Vac styles is continually growing. The addition of the Threaded Line Vac is the result of an all too familiar phone call to our Application Engineers for a version with pipe threads (the existing style was not easy to connect to pipe, even when using clamps). Now, these new threaded models simply screw into the threaded pipe couplers to ensure a secure fit.

Thanks to the large number of you who asked for these easy-to-use threaded conveyors. We know you'll be pleased with the performance as well as the low price. Keep that in mind with other EXAIR products. Maybe the configuration isn't quite right. Just call one of our Application Engineers and tell them what you need. We make a lot of specials and want to help you.

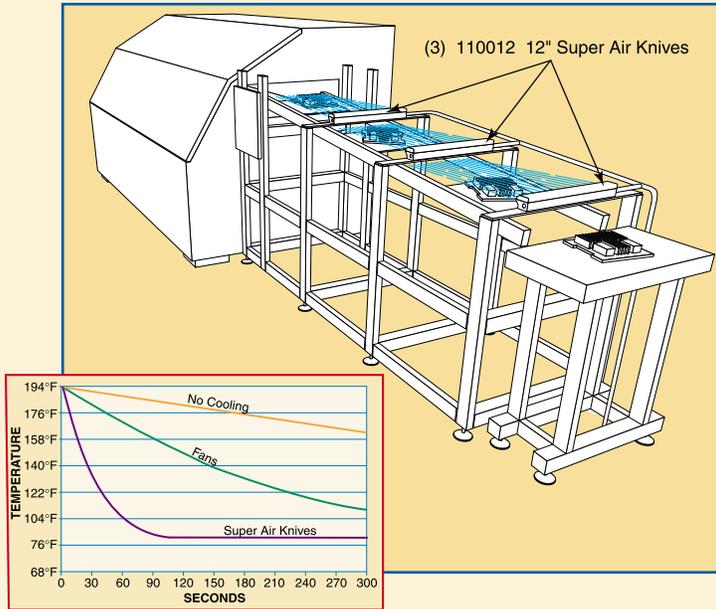
Want to know more about Threaded Line Vac? We'll be glad to send you a brochure. Just check the box on the enclosed postage-paid card and we'll send it right away.

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.

Application Spotlight: Super Air Knife Replaces Fan Cooling



The Problem:

A manufacturer of automotive electronics had a problem cooling computers as they exited a wave solder machine. In order to be handled and tested, the computers had to first be cooled to 81°F (27°C). Initially, they had tried banks of 6" (15cm) diameter axial fans across the 8' (2.5m) length of the cooling conveyor. It consisted of 16 fans blowing down from the top and 16 fans blowing up from the bottom at 7" (18cm) away from the surface. After travelling the full length of the conveyor with the fans running at full force (a five minute duration), the computers were still 108°F (42°C). Quality Control personnel sat with an unacceptable backlog of computers waiting to be tested.

The Solution:

The company removed the top and bottom fan banks and replaced them with (3) **Model 110012 12" Super Air Knives** that were evenly spaced across the cooling section. Each Super Air Knife was angled so the computer and heat sink received the constant rush of airflow. **With the conveyor at the same speed (1.6 FPM), and Super Air Knives at only 40 PSIG, the computers were cooled to 81°F (27°C) in 90 seconds!**

Editor's Comment:

The laminar airflow of the Super Air Knives was the key to success in this application. Fan cooling could only provide random spikes of air at moderate velocities. **The uniform sheet of air from the Super Air Knife quietly swept away the heat away within the first 2' (61cm) of the conveyor.** Low air consumption and the compact size of the Super Air Knife was an added bonus.

NEW! FAQ

We have made a major addition to the EXAIR web site that will be helpful to you. Our Application Engineers have compiled a list of over 60 Frequently Asked Questions.

They address issues regarding the use of compressed air and applying the EXAIR products to industrial problems. You'll find answers to:

- Can I use a Vortex Tube to cool my panel instead of a Cabinet Cooler?
- What is the difference between "SCFM" and "CFM"?
- How do EXAIR blowoff products compare to a blower?

For the answers to these and many other questions, visit www.exair.com.

Application Checklist

In each newsletter, we summarize some common problems solved by EXAIR's products. Please call our Application Engineering Department for help with yours.

- A miniature camera that monitors the boiler flame of a hospital HVAC system remains cool with a **Model 4208 Cabinet Cooler System**.
- Following a rinse operation, a manufacturer of automotive oil filters blows the housings dry with the (2) **Model 110012 12" Super Air Knives**.
- A laser manufacturer eliminates static and dust from quartz laser tubes with the **Model 7293 Ion Air Gun System** prior to assembly.
- A toilet paper manufacture creates an air barrier on an optical "break sensor" with the airflow from a **Model 120022 2" Super Air Amplifier**. It prevents the settling of paper dust on the sensor that could cause misreads.

Reduce Blowoff Noise!

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



Blowoff • Clean • Cool • Dry

Air Jets and Nozzles



Reduce blowoff noise
and air costs!

EXAIR Corporation

Energy saving Air Jets and Nozzles use a small amount of compressed air to induce a high mass flow of free air - up to 25 times the air consumed! The high outlet flows are ideal for blowoff, cleaning, cooling and drying operations. Air Jets and Nozzles meet OSHA dead-ended pressure requirements. Many styles and materials available.

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