

EXAIR[®]-MAIL

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NEWS YOU CAN USE FROM EXAIR CORPORATION



Do Your Doorknobs Inflict Pain?



Static electricity shocks are a subtle reminder that the cold, dry winter months are here. When humidity is low (below 40%), your feet strip electrons off the carpet and you eventually experience a painful discharge, often near 10,000 volts. The current is too low to kill people, but can be lethal to machines where parts and materials jam up or dust attraction ruins the product appearance.

An electrically powered ionizing bar is the answer for situations where they can be mounted in close proximity to the charged material. EXAIR manufactures a variety of lengths



Model 7006 6" Ionizing Bar.

for this purpose. But, what happens when the static is over a large or confined area? What about high speeds?



A Model 111012 12" Super Ion Air Knife eliminates static on a sheeter.

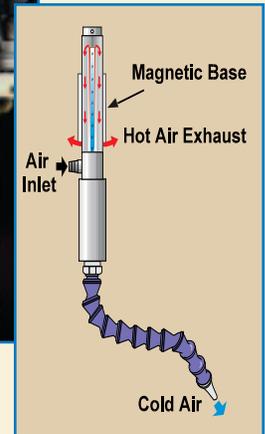
The Super Ion Air Knife[™] is the solution! The laminar sheet of air can flood an area or surface with static eliminating ions - even up to 20 feet away! The balanced sheet of air sweeps surfaces clean of static, dust and other foreign materials. Production speeds, product quality and surface cleanliness can improve dramatically. *Plant Engineering* along with *Product Design and Development* magazines have named the Super Ion Air Knife a 1998 finalist for "Product of the Year".

Would you like to know more about eliminating your static problems? Contact Brian, Neal or Joe in our Application Engineering Department. They can help.

Machining Without Coolants



Model 5215 Cold Gun System keeps a side milling cutter cool during a slitting operation.



It's expensive and frustrating. Excessive heat build-up during dry machining operations often leads to shortened tool life, loaded diamond wheels, parts with micro-cracks and burned fingers. In most cases, flood coolants are not an option and a lot of downtime is spent replacing the tooling and scraping bad parts.

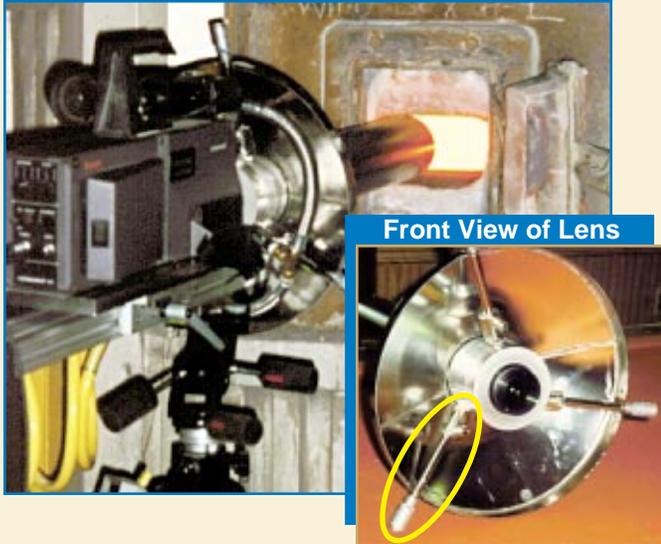
There is a solution! EXAIR's Cold Gun Aircoolant System[™] directs 20°F air at the part or tools to eliminate heat problems. While the Cold Gun is not a substitute for liquid coolants, it can often provide the same result in cooling as a mist system without the mess and hazardous vapors that people might breathe.

The compact Cold Gun is easy to use. The magnetic base allows quick mounting to most machines while the ball and socket hose can be directed to the point of heat build-up. There are no adjustments which allows the highest amount of cooling without freezing up. **Sound level is a low 72 dBA at 3 feet. And, it can be operated continuously at 80 PSIG for a cost of only 18¢ per hour.**

Would you like to know more about the Cold Gun and the problems it can solve? If so, simply return the enclosed postage-paid card. We will send your free copy of Catalog 15 right away.

(please see other side)

Application Spotlight: Cooling an Infrared Scanner



Three Vortex Tubes keep the boroscope lens cool.

The Problem:

Electrical utility companies need to measure the flame temperature in their boilers so they're assured of getting maximum burning efficiency with minimal fuel usage. Without cooling, the heat of the 2300°F boiler would destroy the infrared temperature scanner.

The Solution:

Three special **Model 3230 Vortex Tubes** with brass generators installed (no plastic parts) were used to cool the boroscope lens housing of the infrared scanner. **The boroscope could be inserted into the 1200°F side porthole of the boiler while the vortex tubes kept the housing cool (approximately 70°F).** As an added bonus, the airflow kept the sapphire lens at the end of the housing clean from ash buildup.

Editor's Comment:

In this case, the Vortex Tubes protected some extremely expensive equipment from heat related damage. The vortex tube's compact size allowed the scanning equipment to be easily moved from one location to another without having to transport heavy refrigeration equipment. Like this case with extremely high temperatures, our Application Engineers are always glad to discuss modifications to our standard products to suit your 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.

Application Checklist

EXAIR's compressed air products solve many common industrial problems. Please call our Application Engineering Department for help with yours.

- A pharmaceutical company rapidly cools the safety shrink-band on bottle tops with a **Model 3825 Adjustable Spot Cooler**.
- A spray paint manufacturer uses a **Model 110036 36" Super Air Knife** to blow the water from the cupped areas of aerosol cans as they exit a hot water rinse.
- A manufacturer of telephones blows dust and debris from the parts with the **Model 11124 24" Super Ion Air Knife** prior to assembly.
- A kitchen appliance manufacturer rapidly cools toasters with the **Model 120021 1-1/4" Super Air Amplifier** following a heat test.
- A bottling plant transfers the caps for 2 liter bottles with a **Model 6065 2-1/2" Stainless Steel Line Vac**.

Stainless Steel Blowoffs for Washdown, High Temperature and Corrosive Applications



Air Saving Blowoff is Super Quiet



The **Super Air Knife™** dramatically reduces compressed air usage and noise. It delivers a balanced sheet of laminar airflow with hard-hitting force. Amplifies airflow 40:1. Many sizes in aluminum or stainless steel. Ideal for blowing liquid and chips from parts or conveyors, cooling hot parts, and air screening.

Exhaust • Vent • Cool • Dry



Air Amplifiers™ use a small amount of compressed air to produce airflows up to 250 miles per hour! Amplifies airflow 25:1 at the outlet. From a "blast" to a "breeze", they are ideal for exhausting smoke, cooling hot parts, distributing heat in ovens or molds and drying. Many sizes available in aluminum or stainless steel.

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