

EXAIR®-MAIL

Number 54

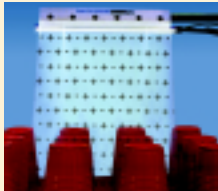
Winter 2002-03

NEWS YOU CAN USE FROM EXAIR CORPORATION



Eliminate Static Electricity Problems!

Static electricity shocks are a subtle reminder that the cold, dry days of winter are here. That tiny little spark that happens when you touch a doorknob after walking across the carpet can pack a mean punch! A static discharge not only hurts, but can create all sorts of production headaches. Paper and plastics jam up in the machinery, webs and films cling to itself, electronic sensors fail and dust attraction ruins surface finishes.



Super Ion Air Knife™ delivers a uniform sheet of ionized air!



Ionizing Bars - compact, rugged bars are ideal when airflow can't be used.

EXAIR has engineered a complete line of static eliminators to remedy these problems. For applications where high speeds or large surfaces are involved, it is best to use the **Super Ion Air Knife** (shown above) with its laminar airflow. This product adds "reach" and is **effective up to 20 feet away**. Other styles include the Ion Air Cannon, Ion Air Gun, and Ion Air Jet. All use only a small amount of compressed air.

EXAIR's new Stay Set Ion Air Jet™ adds a new "twist". It is ideal where frequent repositioning is required. This product can be placed in close proximity of the surface and the hose bent to aim the ionized airflow. The hose has "memory" and will not creep or bend.

There are applications where airflow might disturb the product. EXAIR's **Ionizing Bars** (shown above) or **Ionizing Point** don't require airflow and can neutralize the charge when mounted within a couple of inches of the surface.

Do you have a static problem? Our Application Engineers would be glad to help. You can contact them at 1-800-903-9247 or by e-mail at techhelp@exair.com.



The Model 7294-9362 Stay Set Ion Air Jet cleans dust from a glass lens prior to installation on a gauge.

It Moves So Much Air, We Patented It!

Heat. It's often the most costly bottleneck to productivity. Many production lines could move at a much faster pace if it weren't for the laws of thermodynamics. Unfortunately, the mass, material and shape of a part dictates how fast it will cool. This is all too familiar for those who have parts exiting a heat treat furnace, castings, extrusion dies, forging presses and the like.

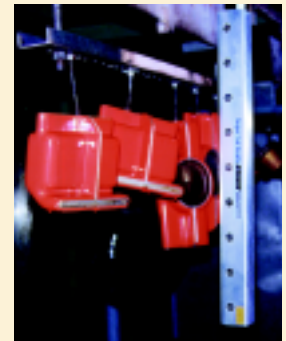
EXAIR's Super Air Amplifiers can help. Think of them as fans without impellers that can move a lot more air. The directed flow offers some distinct advantages:

- Higher velocities produce faster cooling rates
- There are no moving parts to wear out
- Controlled airflow rates eliminates thermal shock
- Patented design substantially increases airflow



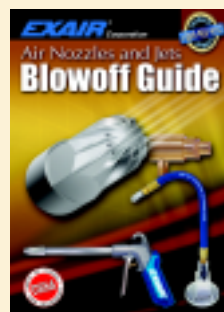
A Model 120022 2" (51mm) Super Air Amplifier quickly cools a weld on a large coolant tank.

In some cases, there is the need to cool parts of varying shape and size. EXAIR's Super Air Knife provides a high volume, high velocity sheet of laminar airflow. As shown on the right, various dip molded parts can be cooled on the same overhead conveyor.



A Model 110018 18" (46cm) Super Air Knife cools molten plastic following dip molding.

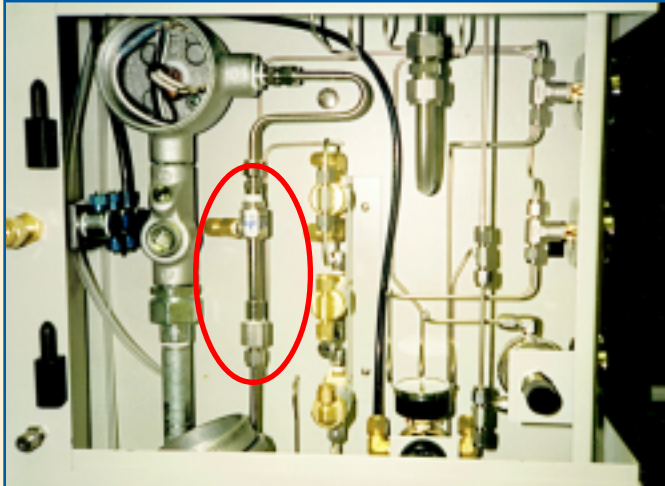
Would you like to know more about cooling? Mail the enclosed postage-paid card for your FREE copy of our 96 page Catalog 18.



Free Blowoff Guide

EXAIR's new "Air Nozzles and Jets Blowoff Guide" provides engineered solutions to a variety of blowoff, cooling, cleaning and drying applications. For your **FREE** copy, simply check the block on the enclosed postage-paid card or visit the following unique web address www.exair.com/guide.htm to complete the mailing form. We'll send yours right away.

Application Spotlight: Cooling A Sensor On A Gasser



The Problem:

A manufacturer of aluminum engine blocks and alloy wheels was experiencing a high level of rejects. Their process used a mixture of nitrogen and chlorine gas injected into the molten aluminum for cleaning purposes. An electrical sensor that controlled the gas flow through a proportional valve often misread the flow due to the 1300°F heat from the nearby casting furnace. Too much gas was being injected into the aluminum that produced small bubbles on the surface and through the part.

The Solution:

The company connected the cold air exhaust of a **Model 3208 Vortex Tube** to the threaded junction box attached to the base of the sensor. **The cold 20°F airflow surrounded the sensor, preventing the misreads.** The correct mixture of gas was applied to the aluminum and the bubbles disappeared.

Editor's Comment:

This manufacturer was dealing with some extremely expensive parts that were costly rejects. It is amazing to think that something with the price of a cordless drill was able to solve the problem! Generating cold air in the confined space of the enclosure would have been impossible using a conventional water chiller or freon charged cooler. **The compact, stainless steel Vortex Tube is ideal for cooling hot parts, machining operations, electrical enclosures and more.**

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.






No Voice Mail.

How many times have you called a company to get help only to land in a person's voice mail? In some cases, days can go by before someone returns your call. As a result, many choose to handle the problem some other way due to this lack of attention.

That won't happen with EXAIR. You can expect to talk with a real person who will answer your questions.

Application Checklist

Since 1983, EXAIR's compressed air products have solved many common industrial problems. Please call our Application Engineers at 1-800-903-9247 or contact them at techhelp@exair.com for help with yours.

-  A manufacturer of laminate flooring uses the **Model 111212 12" (30cm) Super Ion Air Knife** to blow chips and dust from the surface prior to packaging.
-  The new **Model 2404 4" (10cm) Super Air Wipe** was installed by a golf cart manufacturer on their broaching operation to keep metal shavings off the gears and out of the machine.
-  An automotive filter manufacturer uses the **Model 6083 1-1/2" (4cm) Line Vac** to vacuum trim and fines away from the filter media after it is cut.
-  A manufacturer of large sacks for bulk packaging inflates the sacks with the **Model 120022 2" (5cm) Super Air Amplifier** to inspect them for holes and other imperfections.
-  A special oven for baking bread automatically inverts the pan so the bread drops out at the end of the bake cycle. The oven manufacturer installed a **Model 110024 24" (61cm) Super Air Knife** to blow crumbs out of the pans.

Air Operated Conveyors

Ideal for long distance conveying!



Line Vac™ air operated conveyors are the low cost way to transport complex shapes, bulk solids and waste - with no moving parts or electricity. Units eject a small amount of compressed air to produce a vacuum on one end and high output flows on the other with instantaneous response. There are many sizes in aluminum and stainless steel to fit standard hose, tube and pipe.

For more information, see Catalog 18 or contact an Application Engineer at 1-800-903-9247.