

EXAIR®-MAIL



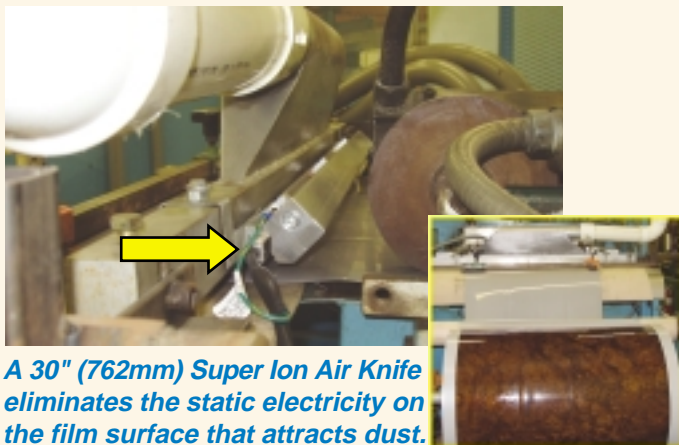
Number 66

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NEWS YOU CAN USE FROM EXAIR CORPORATION

Eliminate Static Cling And Dust

One thing is for certain - once the cold weather moves in, the humidity is sure to drop. The subtle reminders that most of us experience are those occasional shocks when touching an object after walking across the carpet. The reminder for those in charge of industrial processes is much worse. All of a sudden, machinery jams, parts cling to one another and surfaces become a dust magnet.



A 30" (762mm) Super Ion Air Knife eliminates the static electricity on the film surface that attracts dust.

A manufacturer of decorative panels that are used to cover automotive air bags contacted us recently with just such a problem. They know first hand how much money and time can be wrapped up in rejects and lost production due to the dust that was attracted by the static charge on their plastic covers. This company solved the problem by installing EXAIR's Super Ion Air Knife to blow static eliminating ions across the decorative wood grain film prior to vacuum forming it over the plastic panel (*shown above*).

EXAIR manufactures a complete line of static control products. Most of our static eliminators incorporate our engineered airflow products to remove the charge quickly and at great distances. In most cases, only 5 PSIG is necessary for the ion delivery but they can be cranked up to 80 PSIG if a scrubbing action is required.

Do you have a static electricity problem? There's a 20 page section in our catalog that addresses "static" as well as extensive information at www.exair.com.

FREE!
AC Sensor
With
Purchase!



Purchase a static eliminator by March 31, 2006 and receive a FREE AC Sensor. For details, visit: www.exair.com

3.3 lbs Of Force From A Single Nozzle!



EXAIR's Model 1106 1/2 NPT Super Air Nozzle has more force than four ordinary nozzles combined!

For the past several years, EXAIR's Super Air Nozzles have been the center of attention and our newest 1/2 NPT size is no exception. Both *Product Design and Development* and *Plant Engineering Magazine* have named it a finalist in their 2005 "Product Of The Year" awards.

The strong blowing force of the 1/2 NPT Super Air Nozzle is much different compared to other nozzles. It has an aerodynamic design that delivers a concentrated, high velocity airstream with hard-hitting force that is measured in pounds, not ounces. It is ideal for blowing heavy materials or for applications where the nozzle can't be mounted close to the surface to be blown off, dried or cooled.

We realize that many people don't require the strong blowing force generated by this nozzle. There are other Super Air Nozzles that will most likely suit the application. And, they're available in zinc aluminum, stainless steel and plastic.

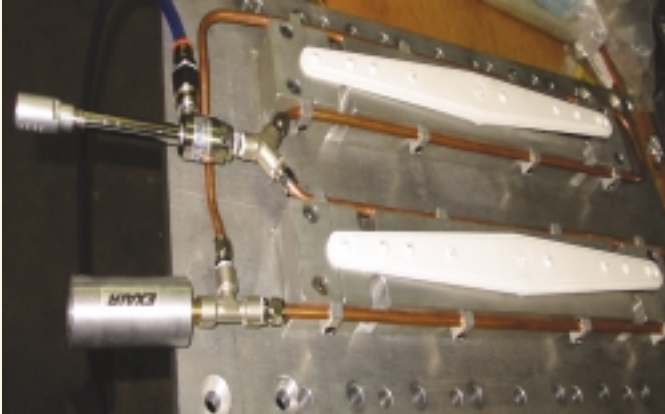
We didn't stop there. EXAIR now offers a solution for those requiring precision blowoff in tight spaces. The new Model 1010SS Micro Air Nozzle projects less than one inch past the mounting surface and provides 12 ounces of blowing force while achieving high amplification with minimal air consumption. The stainless steel construction is ideal for food, pharmaceutical, high temperature, and corrosive environments.



The Micro Air Nozzle has a narrowly focused air pattern.

For help choosing the air nozzle best suited to your application, contact an Application Engineer at 1-800-903-9247 or by e-mail at techhelp@exair.com.

Application Spotlight: Cooling Dishwasher Spray Arms



The Problem:

A manufacturer of major appliances had a problem with the spray arms of their dishwashers. The plastic arm is injection molded as two halves, then ultrasonically welded together. The heat produced during the welding process caused 20 percent of the spray arms to deform. When the dishwasher was put through its final tests, it was noted that the slight warpage would not permit the arm to spin properly. Attempts at cooling the welded surface using fans showed no sign of improvement.

The Solution:

The welding fixture used to hold two spray arms was modified to include a Model 3225 Vortex Tube for cooling. A copper tube with a series of holes was placed around the perimeter of each spray arm, directing cold 14°F (-10°C) air at the surface during the welding process. Since there were operators close by, a Model 3903 Hot Muffler was installed on the hot end of the Vortex Tube and a Model 3901 Cold Muffler at the end of the copper tubing exhaust to keep the noise level low. The warpage problem was completely eliminated.

Editor's Comment:

The low cost Vortex Tube is the ideal way to eliminate problems with overheating. They can be used for a wide range of spot cooling applications such as cooling machining operations, welds, gas samples, heat seals and enclosures as well as setting hot melts and adjusting thermostats. Since Vortex Tubes are constructed of stainless steel and have no moving parts, they are sure to be a long-term, reliable solution.

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.







Get Your FREE Copy!

EXAIR's Catalog 20 is a complete 116 page technical guide offering solutions to common industrial cooling, drying, conveying, blowoff, cleaning, and static electricity problems. It's yours FREE. Simply drop the enclosed postage paid card in the mail or for faster response, visit www.exair.com/cat20.htm and we'll send one right away.



New Application Checklist

EXAIR products solve many common problems. Here are a few recent ones that might be familiar. Please call our Application Engineers at 1-800-903-9247 or contact them at techhelp@exair.com for help with yours.

-  Prior to a laminating process, a manufacturer of projection screens uses the **Model 111148 48" (1219mm) Super Ion Air Knife** to eliminate the static and dust from the paper used to make the screens.
-  Following a sanitizing rinse, a barrel washing service uses a **Model 110036SS 36" (914mm) Stainless Steel Super Air Knife** to dry them.
-  A manufacturer of automotive solenoid valves removes excess oil from the valve body by pulling them through a **Model 2482 2" (51mm) Standard Air Wipe**.
-  A sensor manufacturer uses the **Model 3825 Adjustable Spot Cooler** to test the set point of thermostats used in refrigerator ice makers.
-  A cleaning service that sterilizes reusable medical waste containers dries the container surface with a **Model 120022 2" (51mm) Super Air Amplifier** prior to final sterilization.
-  A bakery blows reject doughnuts off a conveyor with the **Model 1122SS 2" (51mm) Super Air Nozzle**.

Super Air Wipe

Clamps around a surface to provide a 360° airstream!



The Super Air Wipe™ is ideal for blowoff, drying, cleaning and cooling of pipe, cable, extruded shapes and hose. The 360° airstream adheres to the surface of the product passing through it. The split design makes it easy to clamp around the surface. Many sizes are available. Applications include drying of inks, cooling hot extruded shapes; paint and silk screen printing; blowoff of water, dust, plating, coatings and contaminants.

For more information, see Catalog 20 or contact an Application Engineer at 1-800-903-9247.