EXAIR®-MAIL

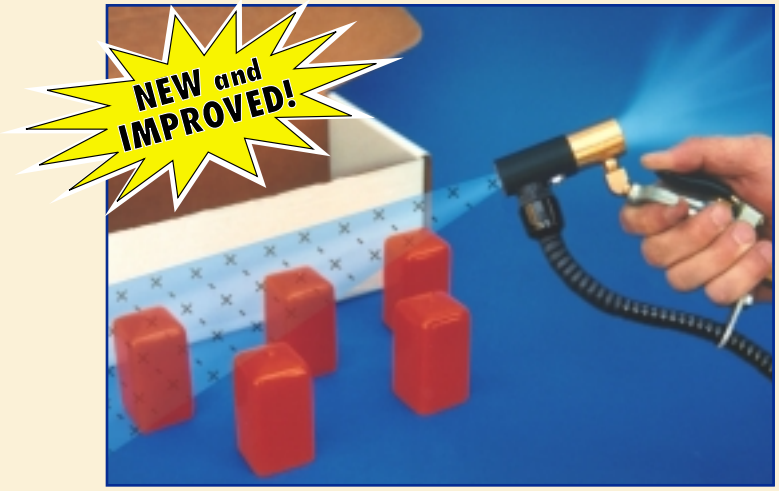
TECHELP 1-800-90-EXAIR DIRECT

Number 42 Winter 1999-2000

NEWS YOU CAN USE FROM EXAIR CORPORATION

Eliminate Static and Dust - Fast!

The cold winter months are here again! One thing is for sure - as soon as the temperature drops, the moisture in the air disappears and static electricity begins to wreak havoc on production and parts. Dust attraction, paper jams, and ruined product appearance are only a few of the problems.



The Model 7293 Ion Air Gun System neutralizes and cleans plastic parts prior to packaging.

The new Ion Air Gun combines incredibly fast static decay rates with low compressed air consumption. It is the ideal way to remove static, contaminants and dust from three-dimensional parts prior to assembly, painting packaging, or finishing. The shockless Ion Air Gun neutralizes static electricity and cleans up to 15 feet away.

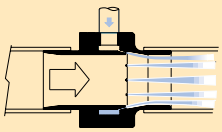
This new product offers some dramatic improvements. The new Ion Air Gun provides a comfortable grip and hand position which allows hours of continuous use without fatigue. We added an extremely flexible, yet durable power cable assembly designed for rugged industrial use. It still uses less air than ordinary guns and can remove the charge faster than ever!

Can't locate the source of your static problem? The new Model 7905 Digital Static Meter measures surface voltages up to ±20 kV . See Catalog 16 for details.

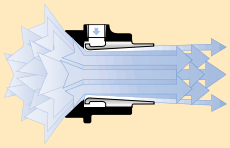
If static is affecting your operation, contact Kirk Edwards, Brian Williams, Joe Panfalone or Joe Eschleman in our Application Engineering Dept. at 1-800-903-9247. They will be glad to help.

Line Vac vs. Air Amplifier

Back in the Fall of 1996, EXAIR introduced the Line Vac - a product line with an appearance similar to the Air Amplifier but for substantially different applications.



Line Vac is used to convey parts and materials using small amounts of compressed air. Line Vacs are used to load parts into hoppers, remove trim from moving webs, remove parts or scrap from press operations, move parts or materials from station to station.



The Air Amplifier is used to move large volumes of surrounding air using small amounts of compressed air. Air Amplifiers are used to cool hot parts, exhaust smoke or fumes, ventilate areas, dry wet parts, and balance the heat level inside ovens or furnaces.

Some have used Air Amplifiers for conveying small parts. They really aren't the best choice for conveying applications since they can clog easily due to downstream back pressure. (This back pressure is caused by long hose lengths or multiple hose bends.) Instead of the compressed air following the Coanda profile in the Air Amplifiers throat, it can turn and blow out the intake!

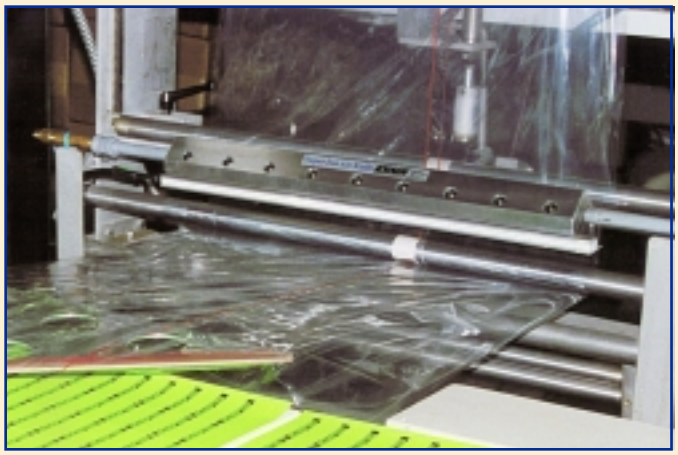
A Model 6083 1-1/2" Line Vac conveys plastic caps from a barrel to an assembly station.

Instead of directing the compressed air across a Coanda profile that bends the airstream, the Line Vac uses directed jets of compressed air that accelerate the material through the unit for long vertical or horizontal distances. The jets do not back flow easily, making them ideal for conveying applications. Line Vac is available in eight sizes that fit the standard hose diameters from 3/4" to 4" and are stocked in both stainless steel and aluminum.

Would you like to know more about this low cost way to convey? Return the enclosed postage-paid card and we will be happy to send your free copy of our Catalog 16.

(please see other side)

Application Spotlight:



The Problem:

A printer of card and adhesive label stock had a problem with their automatic "L" Sealer. Every time there was a slight drop in humidity, the charged plastic film would cling to the machine surface or bunch up on itself. As a result, the machine operator had to take mis-wrapped packages, cut away the bad wrap, then hope it worked right the next time - a real frustrating bottleneck!

The Solution:

A **Model 11118 18" Super Ion Air Knife** was installed over the film to remove the charge. Every bundle was perfectly wrapped with no rejects.

Editor's Comment:

When jamming, tearing, dust or shocks are a problem, the compact Super Ion Air Knife is the answer. It creates a laminar, ionized airflow to eliminate the static electricity over large surfaces, even when powered at only 10 PSIG! Like all the EXAIR static eliminators, **the charge is neutralized in a fraction of a second** which is ideal for webs or products moving at high speeds.

Our Pledge To You!

EXAIR manufactures durable products that won't leave you disappointed. We have a full staff of qualified Application Engineers who can help you right now when you call our toll free number. The products are in stock so you can solve the problem quickly. And, when you order, we not only back the product with a one year warranty, but also offer the following guarantee:

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

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

- A manufacturer of coolant tanks cools the welds with a **Model 120022 2" Super Air Amplifier** to dramatically reduce cooling time.
- A snack foods company uses the **Model 6063 1-1/4" Stainless Steel Line Vac** to transport peanuts from a gaylord box to a filling hopper.
- Following a rinse operation, a fabricator of sheet metal products dries camera housings with a **Model 110012 12" Super Air Knife.**
- An exhaust fan manufacturer prevents the melting of plastic vent covers by cooling the CNC routed surface with a **Model 3825 Adjustable Spot Cooler.**
- To boost production, a manufacturer of plastic extruded shapes cools the extrusions with a **Model 3225 Vortex Tube** as they exit the die.

Cold Air For Cooling Applications

TECHELP 1-800-90-EXAIR DIRECT

Adjustable Spot Cooler™

Cold air to -30°F for for machining!

EXAIR® Corporation

With the turn of a knob, the Adjustable Spot Cooler™ delivers a precise temperature setting from minus 30°F to room temperature. It improves production rates, tolerances and surface finish. Applications include tool sharpening, plunge and form grinding, plastics machining, cooling hot melt adhesives, soldered parts, sawing operations.

Vortex Tubes™

Up to 1 Ton of Refrigeration!

EXAIR® Corporation

EXAIR Vortex Tubes™ produce up to 10,200 Btu/hr. with no moving parts. Tubes convert an ordinary supply of compressed air into two streams; one hot and one cold. Temperatures are adjustable from -50°F to +250°F. Applications include cooling environmental chambers, welding horns, electronic controls, gas samples and CCTV cameras.

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

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