

A Better Air Knife

It's slow economic times like these when all of us look to spend money wisely. For blowoff, cooling and drying applications that require an air knife, it is important to know the facts. Buying the wrong thing now can cost a lot later.

Drilling holes in a piece of pipe is dirt cheap. But, if you put one of our Digital Flowmeters on the air supply, you'd find out that it gobbles up a lot of compressed air and keeps the compressor running. OSHA can issue a hefty fine for the noise AND for the fact that it is lethal if it is dead-ended.

Blowers have issues too. It costs thousands of dollars to buy them and thousands to keep them. Did you know about the downtime? Bearings in centrifugal blower heads turn about 18,000 RPM and can wear out in a year! Most bearings can't be field installed so you'll have to crate it up and send it back to the manufacturer. There's no instant "on/off" and the noise can be deafening.



Type 316 Stainless Steel Super Air Knives are used in this plating operation to blow harmful vapors away from the workers.

EXAIR's low cost Super Air Knife is the logical solution. It provides a laminar airflow that pulls in surrounding room air (40:1 amplification) while remaining quiet at only 69 dBA (at 80 PSIG). It's compact, offers instant "on/off" and can't be dead-ended. Maintenance costs are low since there are no moving parts to wear out. They are available in many sizes from stock in aluminum, Type 303 and Type 316 stainless steel.

Would you like some help with a Super Air Knife application? Please contact an Application Engineer at (800) 903-9247. They'll be glad to help.

Keep Your Cool This Summer

Remember the record heat from last summer? There's a good chance your company had some equipment that failed or experienced electrical malfunctions due to the extremely high temperatures. Don't take the risk of the heat shutting down your machines or production line again this year. Install an EXAIR Cabinet Cooler®.



A Model 4830 NEMA 4 Cabinet Cooler cools a panel with 20°F air while keeping the inside dry.

EXAIR's Cabinet Coolers are a low cost fix to a high cost problem. These flashlight sized air conditioners mount in minutes through an electrical knockout and keep the enclosure cool with 20°F cold air. They are available in a wide range of cooling capacities and maintain the NEMA 12, 4 or 4X rating of your enclosure. Thermostat control minimizes compressed air use by activating the Cabinet Cooler only when the temperature reaches critical levels.

Be sure to pass this newsletter along to the person who maintains your control panels. Please contact an Application Engineer at (800) 903-9247 or by e-mail at techhelp@exair.com if you'd like to know more.

EXAIR Wins "Product Of The Year"

This is the fourth time that EXAIR has won the "Product Of The Year" award from *Plant Engineering Magazine*. Their panel of engineers selected 138 products. As a finalist in the "compressed air" category, they chose EXAIR's large Super Air Nozzle that delivers 9.4 pounds of strong blowing force while limiting the air consumption and noise.



The readers of the magazine voted at the end of 2008. EXAIR received the award in a ceremony on March 30, 2009 in Charleston, SC. Thank you to everyone who voted for our large Super Air Nozzle and to those who continue to put their trust in our products.

Application Spotlight: Eliminating Static Electricity on a Bottling Line



The Problem:

A manufacturer of beauty care products produces body firming, toning and penetrating creams and lotions. Static electricity on their filling and labeling line continually brought production to a screeching halt. The static electricity was generated as the bottles rubbed against the plastic chain belt and guide rails of their process conveyor. The high charge on the bottles frequently attracted the liquid to the outside surface of the bottles. The automatic labeling system often failed to apply the label to the goopy, lotion covered bottles. For some, where the liquid actually ended up in the bottle, the charge on the outside surface of the bottle was enough to make the label not line up properly. The reject rate was extremely high.

The Solution:

They installed a Model 7292 Ion Air Cannon directly above the plastic bottles, just prior to the liquid dispensing nozzles. The concentrated airflow full of static eliminating ions wiped the inside and outside surface of the bottles, neutralizing the charge. All of the liquid flowed into the bottles and the labels went on perfectly straight. **The rejects were completely eliminated.**

Editor's Comment:

When production rates and quality suffer due to static electricity, thousands of dollars can easily be lost. EXAIR manufactures a complete line of static control products to eliminate these problems. For this application, the Ion Air Cannon was the best choice. Mounting it above the bottles and supplying it with compressed air at 5 PSIG was just enough to deliver the ions to the bottle surface without disturbing its orientation.



Do You Have A Friend Or Colleague...



...that would be interested in the EXAIR products? If so, please pass on the enclosed, **small** postage paid card. We'll be glad to send a **FREE** copy of our 144 page Catalog 22.



✓ New Application Checklist

For over 25 years, EXAIR products have solved many common industrial problems. Please call an Application Engineer at (800) 903-9247 for help with yours.

- ✓ A company that services compressor equipment uses the **Model 6084 2" Line Vac** to convey the desiccant beads from the large sacks into the air dryers.
- ✓ A manufacturer of aluminum coated steel tubing used in automotive exhaust systems cools the tubing welds with a **Model 2404 4" Super Air Wipe** to prevent warpage.
- ✓ Prior to printing their entertainment DVDs, the manufacturer discharges the 125 disc spindle with the **Model 7293 Ion Air Gun System** so they can pull one disc at a time off the stack.
- ✓ A candle manufacturer discharges powdered candle wax with a **Model 111218 18" Super Ion Air Knife Kit** so the wax drops down into the candle press cavities instead of clinging to the surrounding machinery surfaces.
- ✓ Drying time of finished moldings was reduced by one hour when a wood products company installed (12) **Model 120022 2" (51mm) Super Air Amplifiers** to evenly distribute the heat in their drying tunnel.



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- » Aluminum, stainless steel or hardened alloy
- » Fits standard hose, tube and pipe
- » Many sizes available from stock

Line Vac converts ordinary hose, tube or pipe into a compressed air operated conveying system for complex shapes, bulk solids and waste. Units produce a vacuum on one end and high output flows on the other. New Heavy Duty models resist wear and provide the highest conveying rates.

Call now **(800) 903-9247**

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