

# EXAIR®-MAIL



Number 43

Spring 2000

NEWS YOU CAN USE FROM EXAIR CORPORATION

## Cool Idea Saves Big Dollars

When you need to heat something up, it's easy. Heat sources such as electrical strip heaters, cartridge heaters, and heat guns are always easy to find.

Cooling a part, on the other hand, gets more complicated. Typically, a chiller or large refrigeration system with its associated compressor, evaporator, condenser and refrigerant are required which can cost thousands.

EXAIR's Stainless Steel Vortex Tubes are the low cost alternative for a wide variety of spot cooling applications. Temperatures from  $-50^{\circ}$  to  $+260^{\circ}$ F ( $-46^{\circ}$  to  $+127^{\circ}$ C) with flow rates up to 150 SCFM can be obtained for cooling rates up to 10,200 Btu/hr.



### *The Model 3808 Mini Cooler System prevents premature tool wear on a slotting operation.*

The EXAIR Mini Cooler is the latest vortex tube product suited for a variety of applications. **It produces a stream of  $20^{\circ}$ F ( $-7^{\circ}$ C) cold air to prevent burning, melting and heat related breakage as a result of high-speed operations.** The compact size, swivel magnetic base and flexible hose to direct the cold airflow make it very easy to use. It is the ideal way to cool small tools, needles or blades and maintain tolerances on dry surface operations. The new **Mini Cooler uses only 8 SCFM** of compressed air and has no moving parts to wear out.

Can we help you with a spot cooling application? Contact Brian Williams, Kirk Edwards, Joe Panfalone or Neal Raker in our Application Engineering Department at 1-800-903-9247.

## Prepare for the Worst

As the hot summer days approach, this photo becomes all too familiar to a lot of plants. The increasing summertime heat can cause circuit boards to fail,



shutting down a machine, or even worse, an entire production line. In addition to circulating hot, dirty air through the enclosure, an open panel door is an electrical hazard to personnel who are working close by.

*A Model 4808 micro NEMA 4 Cabinet Cooler cools a panel with  $20^{\circ}$ F air while keeping the inside dry.*



EXAIR manufactures a complete line of NEMA 4, 4X and 12 Cabinet Coolers that are available from stock in a wide variety of cooling capacities. All models are UL Listed and are available with thermostat control to minimize compressed air usage. The Cabinet Coolers are so small that some people carry them around in their tool box just to be ready for those heat related emergencies.

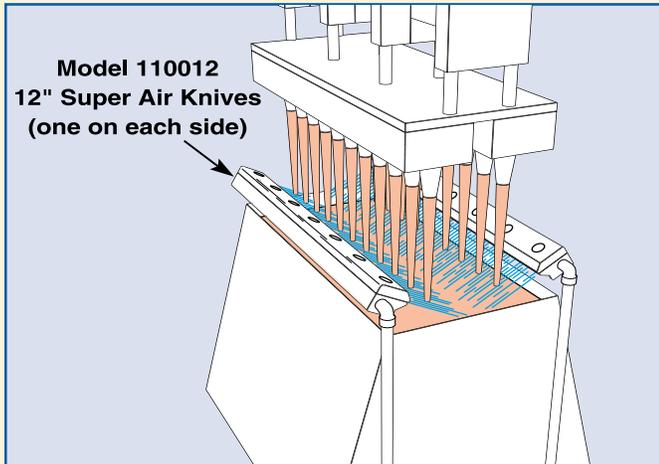
If you would like to prepare for the worst by doing some advance planning, we'd be happy to send you our Catalog 16 to help determine which model is best suited to your application. Simply return the enclosed postage-paid card and we'll send your free copy right away.

## 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 Spotlight: Eliminating Dip Molding Rejects



### The Problem:

The dip molding process is used to make anything from the colorful boots around gas pump handles to the grips for pliers and other hand tools. One molder had a high reject problem with many of their parts. As the die was lifted from the molten plastic, excess would run down the part and harden - just like candle wax. The smooth surface was ruined drastically reducing production.

### The Solution:

The company installed (2) **Model 110012 12" Super Air Knives** to wipe the excess plastic from the part and blow it back down into the tank. **The product surface was completely smooth and all rejects were eliminated.**

### Editor's Comment:

The Super Air Knife was the best choice for this application. In this case, the manufacturer needed the assurance that the airstream would be uniform so no surface would be missed. The balanced, laminar flow of the Super Air Knife did just that along with minimizing the air consumption and noise level.

**EXAIR.com**

Have you ever noticed the number of companies who never update their website? Worse yet, many are hard to navigate through and are about as easy to use as an abacus.

The EXAIR website is constantly changing. In addition to bringing the latest product information, you will find downloadable CAD drawings, compressed air engineering data, pdf's of our catalog and installation sheets, and more. You can even securely place your order on line. Visit EXAIR today! [www.exair.com](http://www.exair.com)



## Do You Have a Friend or Colleague

that may have an interest in the EXAIR products? If so, please pass on the small enclosed postage-paid card. We'll be glad to send our free 72 page catalog.

## Application Checklist

Since 1983, EXAIR's compressed air products have solved many common industrial problems. Call an Application Engineer for help with yours.

-  A manufacturer of metal shelving uses the **Model 11142 42" Super Ion Air Knife System** to remove static and dust from shelves and supports prior to painting.
-  A micro brewery uses the **Model 6063 1-1/2" Stainless Steel Line Vac** to convey bottle caps to the capping machine.
-  The **Model 110018 18" Super Air Knife** is used to blow fines away from glass blocks as they exit a mold.
-  Following a metalizing operation, a motor manufacturer cools the shaft with a **Model 3825 Adjustable Spot Cooler System** and reduces the cooling time by forty minutes.
-  A manufacturer of metal products exhausts the fumes from their induction furnace with the **Model 6034 4" Stainless Steel Adjustable Air Amplifier**.

## Low Cost Air Mover!



### Exhaust, Vent, Dry and Cool



Super 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 components. Many sizes are available in aluminum or stainless steel.

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