

# EXAIR®-MAIL

Number 37

NEWS YOU CAN USE FROM EXAIR CORPORATION



Fall 1998

## New Air Saving Blowoff is Super Quiet!

If you have loud, air guzzling blowoffs in your plant, our Catalog 15 includes a new air knife you'll want to know about! The overall reaction from those who have purchased one has been, "WOW"! EXAIR's new Super Air Knife™ blows everything away! This new generation of air knife dramatically reduces noise and compressed air usage when compared to other blowoffs. The Super Air Knife offers a more efficient way to clean, dry or cool parts, webs or conveyors.



**(2) Model 110012 12" Super Air Knives dry bottles prior to labeling.**

How quiet is it? **At 80 PSIG, the noise level is only 70 dBA** which allows you to carry on a conversation next to it in a normal tone of voice. The air savings is a whopping 63% over typical blowoffs!

**The Super Air Knife delivers a balanced airflow across the entire length. And, the air exhausts in a perfect straight line - no air deflection, high velocity spikes or dead spots!** Compressed air inlets are provided on each end and the bottom of the Super Air Knife for easy mounting. Standard lengths up to 42" are available from stock.

Do you want to reduce noise and compressed air usage? Contact Neal, Joe or Brian in our Application Engineering Department at 1-800-903-9247. They'll be glad to discuss your application.

## The Amazing Vortex Tube!

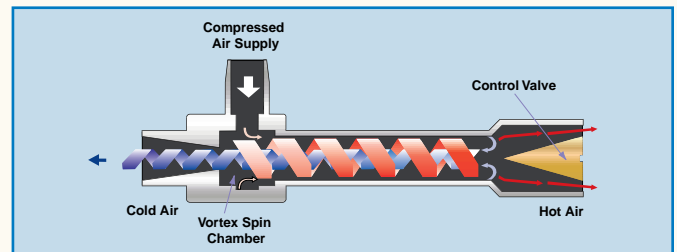


**The Vortex Tube produces cold air down to -50°F with no moving parts!**

Ask a friend or colleague the question, "What is a vortex tube?", and chances are you will get a blank stare. Believe it or not, the vortex tube has been around for 70 years, but very few are familiar with it.

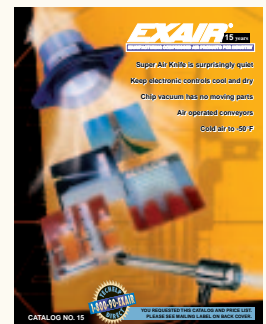
It seems unbelievable but is true! The vortex tube spins compressed air almost 1,000,000 RPM, and exhausts cold air on one end and hot air on the other. The cold air can be used for numerous cooling applications such as:

- Lens grinding
- Cooling lasers and sensors
- Setting hot melts
- Cooling electrical enclosures
- Tool cooling and more!



Using compressed air as its only power source, the vortex tube can deliver cooling capacities up to 10,200 Btu/hr. And, it will last a lifetime since the stainless steel vortex tube has no moving parts to wear out.

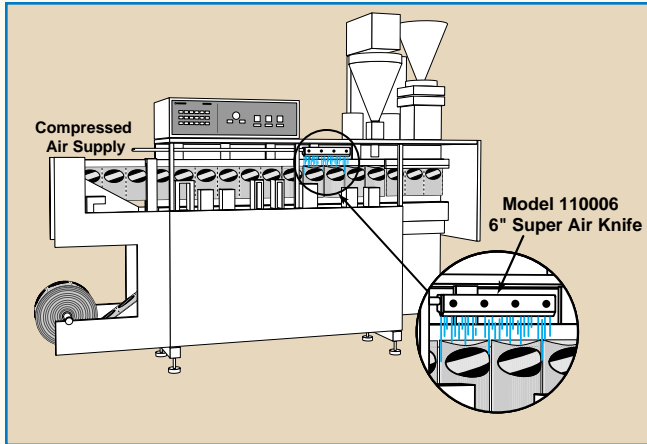
Would you like to know more about the operation of vortex tubes, the history and their applications? If so, simply return the enclosed postage paid card. We'll send your free copy of the full color Catalog 15 right away.



**All New Catalog 15**

*(please see other side)*

## Application Spotlight: Opening Pouches on a Bagger



### The Problem:

A manufacturer of food seasonings experienced a high reject rate on its horizontal form-fill-seal baggers. Cam activated clips used to guide the continuous strip of pouches often failed to pull them open. The result was numerous empty pouches and a sizeable amount of wasted product all over the machine.

### The Solution:

A **Model 110006 6" Super Air Knife** was installed above the pouches just prior to fill. **The air-assist guided the mouth of each pouch open so the seasoning could drop in.** All pouches were filled and wasted product was eliminated.

### Editor's Comment:

The "controlled" uniform blast of air across the entire length of the 6" Super Air Knife was the key to success in this application. **There was no chance of accidentally catching the edge of the pouch since the airflow exhausts in a perfectly straight line without deflection.** When reduced air consumption, low noise and balanced laminar flow are key requirements, the Super Air Knife is always the best choice for the application.

## Reward Without Risk!

We try to make it as easy as possible for you to do business with us. If you have an application in mind that you'd like to try, but not at the cost of being stuck with products that you can't use, we offer the following:

### The **EXAIR** Guarantee

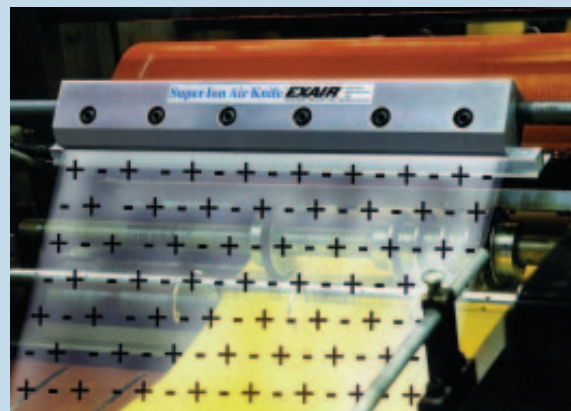
EXAIR unconditionally guarantees its cataloged products for 30 days. If you are not satisfied for any reason within that time, you may return the product for full credit with no restocking charge.

## 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 food products cools pasta with (4) **Model 6022 2" Standard Air Amplifiers** as it exits a pasteurizer.
- Large circuit breakers are life cycle tested by allowing them to heat up, then rapidly cooled with a **Model 3825 Adjustable Spot Cooler**.
- A brake drum manufacturer cools the machined surface with a **Model 5315 Cold Gun System** to minimize warping and maintain accuracy.
- A snack food products company uses the **Model 6063 1-1/2" Stainless Steel Line Vac** to convey peanuts to a packaging station.
- An automotive battery manufacturer keeps an electrical enclosure at the charging station cool and free of acid fumes with a **Model 4230 Cabinet Cooler System**.

## Powerful Static Eliminator



**Super Ion Air Knife™.** Powerful static eliminator prevents jamming, tearing, shocks and dust up to 20' away!

If static build-up threatens your operation, blow it away with our new Super Ion Air Knife. The simple, compact Super Ion Air Knife delivers static eliminating ions in a curtain of air, while blowing away dust and other contaminants. Sound level for most applications is a quiet 50 dBA. For more details, return the postage-paid card for a catalog or contact an Application Engineer.

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