

Super Air Knife Is The Best Choice

When faced with the need to blowoff, dry or cool parts, webs and conveyors, one might think a blower or drilled pipe to be the logical choice. Not so. Did you know....

Blowers



- Are an expensive, capital expenditure
- Have turbulent, inconsistent airflows
- Produce noise levels over 90 dBA that violate OSHA noise requirements
- Blower bearings typically wear out in a year and most are not replaceable in the field (**days can be lost while it is sent out for service**). Filters and belts must also be replaced frequently.

Drilled Pipes



- Are inexpensive to make but can rapidly drain a compressed air system
- Have turbulent, inconsistent spikes of airflow
- Produce noise levels over 90 dBA violate OSHA noise level requirements
- Holes can be blocked - an OSHA violation over 30 PSIG



A stainless steel Super Air Knife delivers a high volume, high velocity laminar airflow to dry electropolished bolt covers.

EXAIR's low cost Super Air Knife produces a uniform sheet of airflow across the entire length. It also:

- Entrain surrounding room air at a 40:1 ratio
- Noise level is a whisper at 70 dBA at 100 PSIG
- Airflow can't be blocked which means safe operation
- Energy use is comparable to a blower without the maintenance and downtime.

Air consumption is extremely low. For example, one 6" (152mm) Super Air Knife uses 22 SCFM of compressed air at 100 PSIG. That is the same amount used by a single 1/8" diameter hole at that pressure.

Do you have a blowoff, drying or cooling application? Our Application Engineers would be glad to help you. Contact them at 1-800-903-9247 or by e-mail at techhelp@exair.com.

Avoid Unexpected Shutdowns

The hot days of summer are just around the corner. It's not too early to remind you that overheated circuit boards and controls can shutdown your machinery or process.



A dangerous shock hazard exists when the panel door is opened to let a fan blow hot, dirty shop air at the electronics.

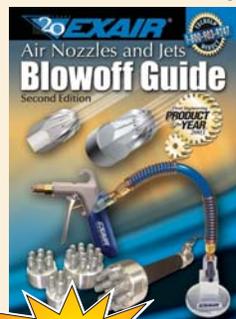


Safe operation is assured when the panel door remains closed, cooling the electronics with the 20°F air of a Cabinet Cooler.

EXAIR Cabinet Coolers are the low cost way to cool electronic controls and prevent those hot weather malfunctions. They mount in minutes and the panel door remains closed. 20°F (-7°C) air circulates through the enclosure.

Concerned about the compressed air use? Most energy conscious plants are. Cabinet Coolers minimize the air use by using an adjustable, industrial duty thermostat that holds the enclosure $\pm 2^\circ\text{F}$ of the 95°F (35°C) factory setting. Most electronics are rated at 104°F (40°C) and the Cabinet Cooler provides enough cooling to keep them functioning properly.

Would you like to know more? See "Cabinet Coolers" in EXAIR's Catalog 19 or visit us at www.exair.com.

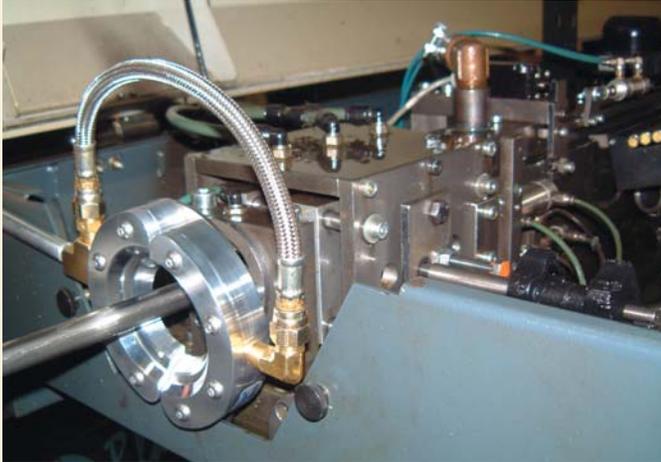


Free Blowoff Guide

EXAIR's second edition "Air Nozzles and Jets Blowoff Guide" is hot off the press and yours **FREE!** It provides engineered solutions to a variety of blowoff, cooling, cleaning and drying applications. Simply check the block on the enclosed postage-paid card and drop it in the mail. You can also visit the following unique web address www.exair.com/guide.htm to complete the mailing form. We'll send your FREE copy right away.



Application Spotlight: Eliminating Hydraulic Oil Contamination



The Problem:

A manufacturer of screw machine parts had a problem with hydraulic oil carry-over on their machines. As the bar feeder pulled the stock into the chuck, hydraulic oil that helped the bar stock move into position was drawn into the machine, and mixed with the high viscosity cutting oil (coolant). The heavy flow of the coolant that blasted the cutter and material surface at 2000 PSIG soon broke down due to the hydraulic oil contamination. The tooling heated up and wore out quickly. Smoke resulted that greatly reduced visibility in the plant.

The Solution:

They installed a **Model 2402 2" (51mm) Super Air Wipe** to wipe the hydraulic oil off of the stainless steel material as it entered the machine. Tool life was extended by 25% and there was no smoke.

Editor's Comment:

The Super Air Wipe is ideally suited for these types of applications. The 360° of airflow wiped down all surfaces of the bar stock. By contrast, an array of Air Nozzles might have removed some of the hydraulic oil but could not possibly provide the uniform coverage. The split design of the Super Air Wipe makes it easy to clamp around the surface (no threading) and is available in diameters from 1" - 11" (25 - 279mm). Other common applications include cooling extrusions, drying inks on cylindrical shapes, and blowoff of excess water, plating and coatings on pipe, cable, wire, rods and tubes.

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.

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 112 page Catalog 19.



Application Checklist

For over twenty years, EXAIR products have solved many common problems. Below are several recent ones that might sound familiar. Please call our Application Engineers at **1-800-903-9247** or contact them at **techhelp@exair.com** for help with yours.

- A manufacturer of board games uses the **Model 6985 2-1/2" (64mm) Line Vac Kit** to convey the game pieces for packaging.
- A manufacturer of fiberglass bathtub enclosures uses the **Model 120022 2" (51mm) Super Air Amplifier** to blow dust and debris from the mold cavity prior to molding tub and shower surrounds.
- Prior to dressing the wheel on a vertical grinder, a machine shop dries it with a **Model 110009 9" (229mm) Super Air Knife** that is mounted to the wheel dressing arm. Process time was cut in half.
- A motor home assembly plant uses the **Model 7293 Ion Air Gun System** to eliminate personnel shocks and dust attraction to the fiberglass exterior shell prior to painting.
- A pharmaceutical company blows the cold air of a **Model 3230 Vortex Tube** on a mandrel used to pick up screen printed bottles. Prior to installation, the mandrel grew due to process heat and wouldn't release the bottle.

Eliminate Heat Build Up!

Increase tool life, tolerances, and production rates!



Machining Without Coolant!



Eliminate tool edge burning!



The Cold Gun™ produces cold air at 20°F from compressed air to extend tool life, stop burning, and reduce wheel loading. The Cold Gun is ideal for dry machining or to replace messy mist systems. There are no moving parts to wear out. Applications include tool and carbide grinding, milling, drill sharpening and plastics machining.

For more information, see Catalog 19 or contact an Application Engineer at 1-800-903-9247.