

EXAIR®-MAIL

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NEWS YOU CAN USE FROM EXAIR CORPORATION

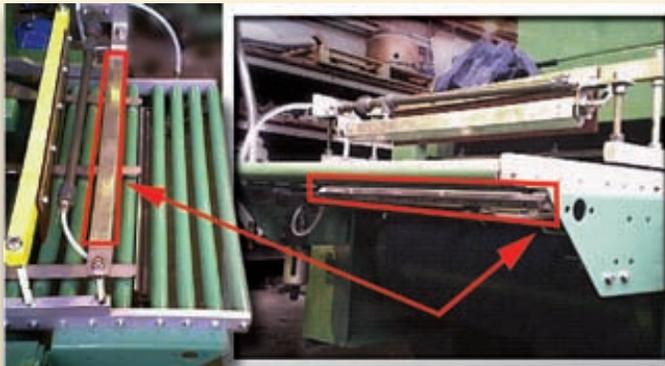


There's A Better Way - Using Less Air!

Purchased gas lately? The price keeps soaring and it's likely you've considered some ways to pay less, such as combining trips, car pooling, or even purchasing a more efficient vehicle. Energy conscious plants face a similar problem with their compressed air system. When the cost of electricity soars or the compressor is maxed out, many companies look for ways to spend less money, namely, to cut air consumption.

Some may consider a blower to be an energy saving alternative. Those who take the time to do their homework will find a blower to have some inherent problems:

- It is an expensive, capital expenditure
- Bearings typically wear out in a year and aren't field replaceable
- Maintenance is frequent and expensive
- Most don't get the parts dry or clean on the first pass



Replacing two drilled pipes on this tile making machine with (2) Model 110024 24" (610mm) Super Air Knives eliminated the need for an additional compressor.

The example shown above is typical. This tile manufacturer had two 24" (610mm) drilled pipes blowing water and dust off the tiles; one blowing the tile clean from the top and another mounted on the bottom. The pipes had 1/16" diameter holes on 1/2" centers and consumed 373 SCFM of air. Replacing the pipes with (2) 24" Super Air Knives brought the air consumption down to 139 SCFM (eliminating about 50 horsepower worth of compressed air). For this application, there was an annual savings of \$7,300 (the plant runs one 40 hour work week).

Do you need help reducing the compressed air use for your blowoff, drying and cooling applications? Contact an Application Engineer by calling (800) 903-9247. They can help you find ways to cut your air consumption.

Avoid Hot Weather Shutdowns

If our current weather patterns are any indication, we are in for a hot summer with temperatures above normal. The Climate Prediction Center of the National Weather Service predicts warmer than average temperatures for most regions. Don't let overheated control panels and circuit boards shut down your machines and processes!



A Model 4830 Cabinet Cooler has a 2,000 Btu/hr. cooling capacity that can, in most cases, offset summertime heat load, regardless of panel size.

EXAIR manufactures Cabinet Coolers that are the low cost way to cool your electrical enclosures and eliminate heat-related downtime. These compact air conditioners convert ordinary compressed air into 20°F (-7°C) air that circulates through the enclosure while maintaining the NEMA 12, 4 or 4X rating of the enclosure. Models with thermostat control are available that minimize the compressed air usage and keep the enclosure within ±2°F of the thermostat setting. All models are UL Listed.

Not sure how much cooling is needed? In most cases, a 2,000 Btu/hr. Cabinet Cooler can offset the summertime heat load, regardless of the panel size. Our Application Engineers are also available to help you determine the actual heat load of your enclosure. Call them at 800-903-9247. They'll be glad to help.



Do You Have a Friend or Colleague...

that may have an interest in EXAIR Products?

If so, please pass on the small enclosed postage-paid card. We'll be glad to send our FREE 116 page Catalog 20.

Application Spotlight: Cooling Truck Pistons



The Problem:

An engine plant had a problem with heat slowing their production line. As part of the piston assembly process, they use an induction heater to transfer heat from a steel plate through the aluminum piston head. When the temperature reaches 290°F, a wrist pin is press fit into the connecting rod so the piston can swivel. Trying to get the heat back out of the piston assembly so it could be handled by the gauging station personnel was a problem. It took 220 seconds for the temperature to drop from 290°F to 180°F. This wasn't even close to the 100°F temperature needed for operators to handle them. There was no space to install a long cooling conveyor. Fans and blowers failed to provide the concentrated airflow needed to remove the heat quickly.

The Solution:

The company installed a series of **Model 120022 2" (51mm) Super Air Amplifiers** to blow high volumes of room temperature air on the pistons. **They were able to cool them from 290°F to 100°F in 53 seconds.**

Editor's Comment:

Imagine a concentrated airflow stronger than a leaf blower! Super Air Amplifiers use EXAIR patented technology that provides high amplification (the model used in this application entrains 22 parts surrounding room air to one part compressed air consumed). The cooling rate was easily controlled using a pressure regulator to increase or decrease the amount of airflow. Super Air Amplifiers are available in many sizes in aluminum and stainless steel. They are perfect for cooling, venting, drying, exhausting and more.

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.

✓ New Application Checklist

EXAIR products are used by many industries. Here are several recent problems solved by EXAIR products. Please call our Application Engineers at **1-800-903-9247** or contact them at techhelp@exair.com for help with yours.

- ✓ An electronics manufacturer uses a **Model 120020 3/4" (19mm) Super Air Amplifier** to cool glass vacuum tubes after the gas is inserted and the molten glass is sealed.
- ✓ A manufacturer of food condiments uses a **Model 6067 4" (102mm) Line Vac** to convey plastic caps for their squeeze bottles from a box on the floor up to the capping machine.
- ✓ A small tractor manufacturer uses a **Model 110036 36" (914mm) Super Air Knife** to blow steel shot off steel sheet prior to putting it through a leveler.
- ✓ A manufacturer of pool liners notches aluminum strips used to hold the liner in place. They eliminated messy coolant and a wash operation by switching to a **Model 5315 Cold Gun System**.
- ✓ A manufacturer of plastic bags installed a **Model 11112 12" (305mm) Super Ion Air Knife System** to eliminate the static electricity charge that caused bags to jam up on the forming machine.



Machining Without Coolant

- » Low cost, portable, quiet
- » Won't freeze up during continuous use
- » Improves surface finish
- » No moving parts – maintenance free

The Cold Gun increases tool life, tolerances and production rates by eliminating heat build up. It produces 20°F air from ordinary compressed air. The Cold Gun is ideal for dry machining or to replace messy mist systems.

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

EXAIR®

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To learn more go to:
www.exair.com/05/499.htm