



# EXAIR®-MAIL

Manufacturing Intelligent Compressed Air Products for Industry Since 1983

Number 124

NEWS YOU CAN USE FROM EXAIR CORPORATION

Summer 2020

## Summer is about to arrive!

It doesn't matter what is going on all around us, the seasons keep changing. It is time to enjoy our flower beds, riding our bikes, hiking, sunbathing, swimming and all the summer activities we look forward to in the winter and spring. You may have already been enjoying the longer days, the sunshine, gardening, grilling or fishing.

And, as we start thinking about the heat of Summer there is another activity we need to do in the summer – keep cool! Heat can cause us serious problems and we need be proactive to combat heat's ill effects. Remember to stay hydrated, take breaks and seek shade or lower temperatures when necessary. We also do not need other heat related problems to keep us from enjoying our summer activities. Are you ready to deal with the problems high temperatures can bring to your plant? High temperatures can cook the electronics that control your machines, resulting in erroneous readings, trip-outs or fried circuit boards. Cooling the electrical cabinet can eliminate these problems, but how will you do it? You have enough to deal with, without having to worry about keeping your production line moving.

EXAIR is here to help you with our low-cost, reliable Cabinet Cooler® Systems. EXAIR Cabinet Coolers incorporate a vortex tube to produce cold air from compressed air - with no moving parts. Cabinet Coolers convert an ordinary supply of compressed air into clean, cold 20°F air. NEMA 12, 4, and 4X Cabinet Coolers are UL listed to match the NEMA rating of your enclosure and are available in many cooling capacities for large and small control panels. Our Hazardous Location

Cabinet Cooler systems are Classified UL listed approved for Class I Div 1 groups A, B, C, and D – Class II Div 1 Groups E, F and G – and Class III. And we have all of the details to share with you.

Download our White Paper “Cabinet Coolers End Costly Shutdowns” at <https://exair.co/ccecs05>. In this real-life story, Lasercraft found the Cabinet Cooler was easy to install, compact in size, readily available, maintenance free, quiet, reliable and inexpensive. Read for yourself how these Cabinet Coolers ended costly shutdowns for Lasercraft – and they can do the same for you.

Need to know more? Watch our Webinar “Compare Your Cooling Options” on demand to learn more about what causes that heat and how it can affect your production. Learn the differences in some common cooling methods so you can choose the solution best for you. Watch at <https://exair.co/cooling05>.

EXAIR produces many products to help with your cooling needs. Learn more about Cabinet Coolers, Vortex Tubes, Adjustable Spot Coolers, Super Air Knives, Super Air Nozzles, Super Air Amplifiers, Super Air Wipes and more on our website. Each can help with a different type of cooling problem.

Visit us online to learn more or chat with one of our Application Engineers. They have years of experience helping customers get the Cabinet Cooler System that best fits their needs. EXAIR is here to help you with this problem.

## New EasySwitch Wet-Dry Vac!

EXAIR's new EasySwitch™ Wet-Dry Vac is a powerful compressed air powered vacuum that is engineered to make it simple to switch between wet and dry cleanups. Its patent pending system allows you to quickly switch filter types when switching from vacuuming a dry material to a liquid. For dry material, standard or HEPA certified filters are available. Using only compressed air, the EasySwitch Wet-Dry Vac creates a powerful vacuum without the need for electricity. Because the EasySwitch has no moving parts and uses no electricity, there is no concern for clogged impellers or motor failure associated with using electric vacuums for liquids. Learn more about our new EasySwitch Vac at <https://exair.co/easy05>.



**EXAIR.com®**  
MANUFACTURING INTELLIGENT COMPRESSED AIR® PRODUCTS SINCE 1983

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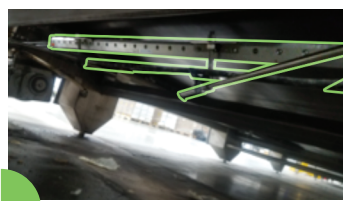
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# Super Air Knife Replaces Drilled Pipe, Reducing Compressed Air Usage and Noise

A commercial bakery has been making tortilla shells from an ancient family recipe for decades. As their production grew, they incorporated conveyor-type ovens to bake the shells. The shells moved from the oven to the packaging station, and along the way, they transitioned to a lower height chain belt. A 48" long drilled copper pipe, installed under this transition point and supplied with compressed air at 95 PSIG, was used to "float" the tortilla shells across the gap, but it was very loud and used a lot of air. It also resulted in inconsistent flow across the 48" length which was too weak to properly "float" the shells at some points, and strong enough to flip or fold them at others. This was happening at a rate of about 11 flips/folds per hour.



**48" Aluminum Super Air Knife with 9060 Mounting Systems** keeps tortillas from flipping on conveyor.

A Model 110248 48" Aluminum Super Air Knife Kit was installed, using two Model 9060 Universal Air Knife Mounting Systems. With supply pressure regulated to only 38 PSIG, they achieved consistent flow across the entire length. Flipped and folded shells have been completely eliminated. In addition to solving the quality problem with the flipped and folded shells, there was also a considerable reduction in sound level and compressed air consumption, resulting in a substantial operating cost savings.

	Supply Pressure	Sound level	Compressed air consumption	Consumption savings, annual	Cost savings, annual
Drilled Pipe	95 PSIG	101 dBA	259.8 SCFM	21,744,000 SCF	\$5,436.00
Super Air Knife	38 PSIG	61 dBA	78.6 SCFM		

\*Cost of compressed air usage is based on electric utility cost of \$0.08/kWh and calculated for operation 8 hours/day, 5 days/week, 50 weeks/year.

**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.

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## New Application Checklist

EXAIR products solve a variety of problems. Please call our Application Engineers at 1 (800) 903-9247 or e-mail them at [techhelp@exair.com](mailto:techhelp@exair.com) for assistance with yours.



### Cabinet Cooler Cools and Keeps Dust Out

This customer laser cuts wood subassemblies. The dust created gets into their control panels creating maintenance problems. They sealed up the panel to keep the dust out but then the electronics overheated. Installing the EXAIR **Model 4340 Cabinet Cooler** not only maintained cool internal temperatures but also provided a positive pressure inside the panel to prevent contaminants from getting in.



### Super Air Wipe Cools and Cleans

A tier 1 automotive manufacturer is extruding an outer jacket to a brake hose. The material is approximately 250°-300°F. They are using some water coolant directed at the die but the material is moving too fast to get sufficient contact time. They needed to get the coolant off the hose and provide more cooling. The solution was to use a **Model 2401 1" (25mm) Super Air Wipe** at the exit end of a 6-foot-long 4" diameter cooling tube. The Super Air Wipe was blowing into the tube and against the direction of travel of the hose. As the hose exited the cooling tube it was cleaned of the coolant. The Super Air Wipe also provided a great deal of airflow within the tube to provide the additional cooling needed.



### Line Vac Makes Repackaging Easy

A food packaging company repackages banana peppers from 55 gallon drums to 5 gallon and 1 gallon containers with a **Model 6066 3" Stainless Steel Line Vac**. Line Vacs are an excellent way to convey what you need to convey – with no moving parts.

**BUY A CABINET COOLER® System**  
Get a **FREE AC Sensor** with Purchase!

For a limited time, EXAIR is offering a free AC Sensor when you purchase one of our Cabinet Cooler® Systems. Cabinet Coolers are the low cost, reliable way to cool and purge electronic control panels. NEMA 12, 4 and 4X Cabinet Coolers that match the NEMA rating of the enclosure are available in many cooling capacities for large and small control panels.

**Order a Cabinet Cooler System by August 31, 2020, and you will receive a free Model 7929 AC Sensor!**



To learn more go to:  
[https://exair.co/05\\_ccpromo\\_ad](https://exair.co/05_ccpromo_ad)

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