EXAIR®-MAIL
TECHELP 1-800-903-9247 DIRECT
Number 105 NEWS YOU CAN USE FROM EXAIR CORPORATION Fall 2015

New Longer Stainless Steel Super Air Knives Cover Wide Spans, Resist Temperature and Corrosion

EXAIR has expanded its Stainless Steel Long Super Air Knives to include a maximum length of 108". The corrosion resistant material ensures seamless airflow in harsh environments and withstands temperatures up to 800°F (427°C). The energy efficient design minimizes compressed air use by entraining 40 parts room air to one part compressed air. It is ideal for blowing corrosive chemicals off parts, drying food products and cooling hot materials such as molten glass, castings and molded parts.

The Long Super Air Knives provide a uniform, high volume, high velocity curtain of air that is infinitely adjustable from a gentle blowing force to a hard-hitting blast of air, with compressed air inlets located on each end and the bottom to permit easy mounting in tight spaces.

Intelligent Use of Compressed Air

Almost every industrial facility has at least one compressor that is used for many different applications, equipment and operations. While most applications for compressed air present no real problems, some do. Improper use, such as open tubes or open air guns, can translate into unnecessary energy costs, high noise levels and dangerous exposure of personnel to high pressure air.

Reduce Energy Costs

The most important factor to dramatically boost efficiency is to use engineered compressed air products like the Super Air Knife and Super Air Nozzles. EXAIR's engineered products are designed to be effective with much less compressed air than commercial nozzles, homemade blowoffs or open air lines. Replacing ONE ¼" open tube with our Model 1100 Super Air Nozzle can pay for itself in 16 days and save $420 per year. Learn more about calculating compressed air cost savings by viewing our on demand webinar at ow.ly/Swe19.

Reduce Noise Levels

High noise levels are a common problem for many plants. Compressed air noise often exceeds OSHA (Occupational Safety and Health Administration) noise level exposure standards, resulting in hearing loss to those working in close proximity. The sound level of the Super Air Knife is well below the OSHA standard of 90 decibels (dBA); it produces 69 dBA, even at high pressures of 80 PSIG (5.5 BAR). Using the Super Air Knife, it is possible to obtain hard-hitting force without the high noise.

Eliminate Harmful Dead End Pressures

Air can be dangerous when the outlet pressure of a hole, hose or copper tube is higher than 30 PSIG (2 BAR). In the event the opening is blocked by a hand or other body part, air may enter the bloodstream through the skin, resulting in a serious injury. The CE compliant Super Air Knife has been engineered for safety and cannot be dead ended. It is safe to operate at higher pressures and complies with OSHA standard 1910.242(b), dealing with outlet pressure.

EXAIR has a special offer for you during November and December. **Order any EXAIR Super Air Knife by December 31, 2015, and we will include a FREE Model 1210 Soft Grip Safety Air Gun.** EXAIR's Soft Grip Safety Air Gun is ideal for hours of continuous use without fatigue. Aluminum Extension Pipes, Stay Set Hose and Chip Shields are also available. Order today at www.exair.com/05/sakpromo.htm.

Do you have an application that you'd like to discuss? Contact an Application Engineer at 1-800-903-9247 or by e-mail at techelp@exair.com. They'll be glad to help!

The New EXAIR Catalog 28!

Bigger, better, and more informative than ever!

The catalog is loaded with cost saving ideas to help your company reduce compressed air use and save money. It includes hundreds of photos, drawings, test data and illustrations to help you better understand and apply EXAIR products.

For more details, go to: www.exair.com/05/catalog.htm

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Application Spotlight:

Lowering Noise Levels

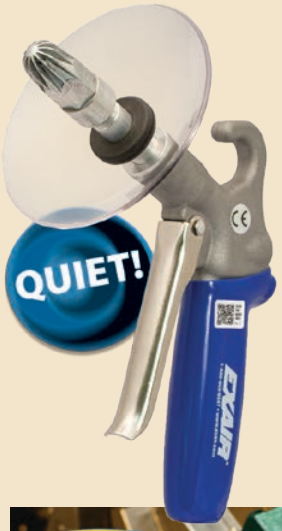
Application Goal:

The goal of this application is to reduce the noise level of the production environment to less than 85 dBA, in part by addressing loud air guns in the plant...

The Problem:

This customer used a third party to perform a safety audit in their facility. They found that the production area sound level was over 93 dBA on average. This exceeded the OSHA allowable noise level exposure for personnel. The existing blowoff gun also failed to meet or exceed OSHA's dead end pressure standard CFR 1910.242(b). The target noise level in the area was 84 dBA, on average.

The Solution:



After installing the EXAIR **Model 1210-CS Soft Grip Safety Air Gun** with **Model 1100 Super Air Nozzle** and **Chip Shield,** the noise level in the production area was reduced by 19 dBA, averaging 74 dBA. The Soft Grip Safety Air Guns also provided an engineered nozzle that exceeds the OSHA dead end pressure standard by providing less than 30 PSI dead end pressure at the nozzle tip. The Chip Shield gives an extra level of protection to the operator from debris that may become airborne.

Editor's Comment:

This customer was able to avoid a citation from OSHA by implementing an engineered solution to their compressed air application. This lowered the sound level in their facility well below the required level of 84 dBA to an average of 74 dBA, along with the benefit of having a safe dead end pressure and protecting the operator with the added Chip Shield.

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 techelp@exair.com for assistance with yours.

- A manufacturer of medical devices for the cardiovascular industry is punching aluminum foil that has a heavy oxide coating on both sides. The brittle oxide would fall from the top half of a small punch die and land in the lower half. The oxide is abrasive enough to cause early wear on the dies if not removed between cycles. A **Model 110003SS 3" (76mm) Stainless Steel Super Air Knife** was installed to blow the oxide from the dies between cycles.

- A production facility needed to provide a cooling air flow to a woven fabric as it exited the final processing on a tube. The one-directional flow pattern produced by most blow off devices disturbed the fabric surface, causing unacceptable wrinkling. They installed a **Model 2409 9" (229mm) Super Air Wipe**, which provides an even, laminar 360° blow off, which doesn't disturb or wrinkle the fabric tube.

- A machinist was using an oil based coolant to machine aluminum plate on a vertical CNC machining center. The coolant was very messy and costly. By replacing this coolant system with a **Dual Outlet High Power Cold Gun Aircoolant System** they eliminated the cost of the coolant, as well the maintenance cost on the coolant pumps.

- A repair shop is using a **4" (102mm) Super Air Amplifier** to vent welding fumes from repair operations in tight spaces. They needed something that was easily portable and could entrain large volumes of air.