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!
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 exceeded 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.