It’s a worldwide problem that can’t be fixed with a bandage, a piece of chewing gum or duct tape. The economic recession has companies tightening their belts, looking for ways to significantly reduce costs. Compressed air leaks and inefficient blowoffs can be wasting thousands of dollars of electricity. Some simple upgrades and repairs to your compressed air system will cut your company’s electric bill, make your system more effective, and limit compressed air use.

EXAIR has products to help you optimize your compressed air system. The Ultrasonic Leak Detector can identify costly leaks – often paying for itself when the first leak is located and repaired. The EFC™ Electronic Flow Control turns off the compressed air used for blowoff when no part is present. Digital Flowmeters measure compressed air usage and monitor waste. EXAIR’s Receiver Tank can be installed at the point of high demand so additional compressed air is available for a short duration. Pressure Regulators permit easy selection of an operating pressure that will allow the air product to work properly without using excessive amounts of compressed air.

It is most important to use the compressed air responsibly. You will want to look at upgrading your blowoffs. EXAIR’s efficient, award winning Super Air Nozzles, Super Air Knives and Super Air Amplifiers effectively entrain large volumes of room air using only a small part of compressed air as the power source.

EXAIR’s staff of Application Engineers are available to help with your optimizing projects. They can be reached at (800) 903-9247 or techelp@exair.com.

Eliminate Static Problems

Cold weather is here and with it are the static electricity problems associated with the frigid, low humidity days. It’s all too common that processes and machinery that have operated without a problem are now experiencing jams, tears, painful shocks and dust attraction.

EXAIR manufactures a complete line of static eliminators for a wide variety of industrial processes. Each of them use a 5kV power supply to generate an abundance of negative and positive ions. When a surface becomes charged, it will take the number of positive and negative ions from the static eliminator (called an ionizer) to become balanced. The Super Ion Air Knife, Ion Air Cannon, Ion Air Gun, and Ion Air Jets use a small amount of air to pull in large volumes of room air that moves the ions to hard to reach spaces, across large areas, or in high speed applications.

We’ve just recently added the new Super Ion Air Wipe that is ideal for continuously moving materials like pipe, cable, extruded shapes, hose, wire and more. It provides a uniform 360˚ ionized airstream that is easy to clamp around a continuously moving part for eliminating static electricity and contaminants. The Super Ion Air Wipe maximizes ionized airflow while minimizing compressed air consumption.

If you’d like help with a static problem, contact an Application Engineer at (800) 903-9247 or techelp@exair.com.

FREE AC Sensor
Order a static eliminator by March 31, 2009, and we’ll include a FREE AC Sensor that lights up and beeps when voltage is detected. Visit www.exair.com/05/sepromo.htm for details.
Application Spotlight
Eliminating Rolling Mill Fog

Before

The Problem:
When cold rolled steel is made, the steel goes through a series of powerful rollers that compress it to a specific width and thickness. The steel heats up as it is reduced and work hardens. A thin layer of oil is applied to the surface to prevent oxidation and rust. The oil on the hot steel vaporizes as the steel moves back and forth through the rollers. This created a dense fog, making it impossible for the operator to visually inspect the steel. Attempts at blowing air across the width using open pipes had little effect at eliminating the fog. The open ended pipes consumed an enormous amount of air and were dangerous since they could potentially be dead ended (an OSHA violation).

The Solution:
They installed (2) Model 1106 Stainless Steel Super Air Nozzles with Model 9069 Swivel Fittings (to aim them) that blew the fog across the width. The nozzles completely cleared the fog from the area, permitting the operator to see the steel. Safe operation was no longer an issue.

Editor’s Comment:
The simple installation of two Super Air Nozzles made all the difference. The fog disappeared and the operators commented how there was a significant drop in noise levels despite the high background noise in the plant. Air consumption dropped substantially when each open pipe that consumed 195 SCFM was reduced to only 60 SCFM when the nozzles were installed. Super Air Nozzles, that are suited to a large number of blowoff, drying and cooling applications, are available in a many sizes and produce up to 15 lbs of force!

Visit www.exair.com/105san.htm to know more.