EXAIR CASE STUDY

1609

APPLICATION GOAL Reduce compressed air usage and noise levels by replacing loud & inefficient blowoffs with Safety Air Guns fitted with engineered Air Nozzles.

BEFORE EXAIR A manufacturer of products for the trucking, agriculture, and automotive industries uses compressed air guns like the one shown to the right for blowoff. They coordinated with an energy management firm to lower their utility costs, and that included reducing compressed air consumption. They operated 90 thumb guns with various extensions. With an average "trigger time" of 17 minutes per hour, and air consumption of 28.5 SCFM @80psig per air gun, totaling 2,565 SCFM for all 90 air guns operating 8 hours a day, 5 days a week, 50 weeks a year, their total annual operating cost for these 90 air guns was $21,802.50*.

AFTER EXAIR They replaced 90 existing air guns with EXAIR Model 1280SS Soft Grip Safety Air Guns with Micro Air Nozzles: 30 each with 6", 12", and 18" Extensions. With the same "trigger time", the EXAIR 1280SS' reduced their air consumption to a total of 1,170 SCFM @80psig for all 90 blow offs, bringing the total annual operating cost for all 90 stations to $9,945.00*.

Model 1280SS Soft Grip Safety Air Gun features the 1010SS Micro Air Nozzle, which uses just 13 SCFM @80psig.

EXAIR Soft Grip Safety Air Guns are available with Extensions from 6" to 72" in length.

SUMMARY: *The US Department of Energy estimates that compressed air costs $0.25 per 1,000 Standard Cubic Feet of consumption. Based on that, and the above reduction in air consumption, the use of the 1280SS Safety Air Guns saves **$11,857.50 per year,** reducing operating cost by 54%. Since they obtained these Safety Air Guns at no cost from their utility provider (*as part of a utility rebate initiative – check with your utility provider for similar programs in your area*), the savings were realized immediately. Additionally, sound levels went from 92 dBA to just 80 dBA, so they are now also compliant with OSHA Maximum Allowable Noise limits for 8 hour a day exposure (ref OSHA 1910.95a) of 90dBA or less.

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