Number 99

NEWS YOU CAN USE FROM EXAIR CORPORATION

Spring 2014

Heavy Duty HEPA Vac For 110 Gallon Drums

EXAIR's new 110 Gallon Heavy Duty HEPA Vac[™] is a powerful, HEPA quality, industrial vacuum cleaner. The higher capacity drum means that fewer drum changes will be required during clean-up. The Heavy Duty HEPA Vac is designed to move more material with less wear. It has been engineered to filter contaminants to HEPA requirements in dusty environments requiring frequent cleaning.



It is extremely quiet at 82 dBA (half the noise of electric vacs), making it suitable for a wide variety of environments. An economical, easily maintained pre-filter stops larger particles, while the HEPA filter handles the smaller matter. All filters are tested for minimum 99.97% filtration at the 0.3 micron level to meet HEPA standards in strict accordance to IEST-RP-CC-007.

The 110 Gallon Premium Heavy Duty HEPA Vac System comes complete with the Heavy Duty Dry Vac, lever lock drum lid, shutoff valve, pre-filter, HEPA filter, 10' (3m) static resistant hose, hose hanger, 1/2 NPT quick connects coupling, 20' (6m) compressed air hose, pressure gauge, heavy duty aluminum tools, tool holder, drum dolly and 110 gallon drum. OSHA and CE Compliant. Quality is assured with a five year, "Built to Last" warranty. Check out the Heavy Duty HEPA Vac at www.exair.com/05/110hepa.htm.

In addition, during the month of May, you can receive a free Vac-u-Gun (\$98 value) with the purchase of any of our Reversible Drum Vac[™], Chip Trapper[™], Chip Vac[™], Heavy Duty Dry Vac[™] or Heavy Duty HEPA Vac[™] Systems. Check out our promo at www.exair.com/05/vacpromo.htm.

And The Winner Is!



EXAIR is definitely bringing home the gold (and silver...). Just last month, EXAIR's External Mix No Drip Liquid Atomizing Nozzles, Dual 316 Cabinet Cooler® Systems, and 1" Flat Super Air Nozzle™ all won gold awards in *Plant Engineering's* 2013 Product of the Year contest. The Heavy Duty HEPA Vac™ won a silver award. We have been named Finalists and/or Winners for most of the last 16 years.



EXAIR's Digital Flowmeter™ has been selected a winner for *Environmental Protection's* 2013 Product of the Year in the Energy Management category. EXAIR definitely has products that can help you conserve energy and compressed air, and that will help you save on your bottom line.



And, last but not least, EXAIR's 1109SS Pico Super Air Nozzle™ and 1" Flat Super Air Nozzle™ were finalists in *Design News*' 2013 Golden Mousetrap competition. Yes, building a better mousetrap is right up EXAIR's alley. Innovative products are essential to building a successful business and EXAIR is always working to create the largest selection of the best products available to help you solve your industrial problems. Talk to one of our Application Engineers to see what we have to help your plant be more efficient and work more smoothly.



Application Spotlight:

Super Air Nozzles



Application Goal:

Reduce air consumption to avoid having to purchase an additional 50 horsepower air compressor at cost of \$24,000.

Before EXAIR:

A company in Illinois was using 86 straight cut copper tubes for blowoff. They had a peak compressed air demand of 475 SCFM and an average compressed air demand of 190 SCFM. Their current 50 horsepower air compressor could not keep up with the peak demand and they were losing system pressure throughout the facility. Before considering adding another compressor, they decided to have an air auditor come in. The auditing consultants recommended they install engineered nozzles and directed them to EXAIR.



After EXAIR:

Reviewing their application with an EXAIR Application Engineer, it was recommended they install a **Model 1102 Super Air Nozzle** onto each tube.

With the amplified air flow of the Model 1102 Super Air Nozzle, lower air pressures could be used and still get comparable performance, thus reducing compressed air demand by 43%. Peak compressed air demand went from 475 SCFM to 275 SCFM and average overall air demand went from 190 SCFM to 70 SCFM.

Sound levels were reduced to a mere 71 dBA from 110 dBA. This was so much quieter than the open pipes; hearing protection was no longer required.

After one year, energy savings were just over \$9,000.00. With a cost of the nozzles and installation at \$7,300.00, ROI was under one year and with a cost avoidance of \$24,000 for a new compressor.





New Application Checklist

For decades, EXAIR's products have solved many common industrial problems. Call our Application Engineering Department at (513) 671-3322 or email them at techelp@exair.com for help with yours.



A custom robotic systems manufacturer needed a system to remove rejected ceramic spark plug parts from a conveyor. They used a **Model 6082 1 1/4" (32mm) Line Vac** to remove the part and put it through a sensor to count the number of rejected parts.



A printer is screen printing an aluminum plate. The process heats up the plates which need to be cooled down prior to an operator picking them from the conveyor line. Fan blowers were being used but did not provide enough cooling. The **Model 110030 30"** (762mm) Super Air Knife provided more volume of air and was able to provide more contact time which resulted in the desired cooling effect.



An automotive chassis manufacturer is needing to fan sheet metal 36" x 15" x .080" so it may be moved on to production as an individual sheet. They normally use a magnet for ferrous metal but this is for a non-ferrous metal. They are using (2) Model 1122 2" (51mm) Flat Super Air Nozzles placed at each corner of the sheet metal to facilitate separation of the sheets.



An optical company manufactures mirrors used in projection screen TV's. They were using 20 pieces of a fan nozzle from another manufacturer to blow on the mirrors. They have chosen to replace them with EXAIR's **Model 1122 2" (51mm) Flat Super Air Nozzles** so they may reduce air consumption and volume while still getting the job done. They will reduce noise levels from approximately 95 to 77 decibels.

