



EXAIR®-MAIL

Manufacturing Intelligent Compressed Air Products for Industry Since 1983

Number 135

THE LATEST NEWS YOU CAN USE FROM EXAIR

Spring 2023

HollowStream Liquid Atomizing Nozzle Wins Product of the Year

EXAIR's HollowStream™ Liquid Atomizing Spray Nozzle creates a hollow cone spray pattern for pressurized liquids. Using a tangential flow design and wide-open internal features to prevent clogging, it works well with a wide range of liquids including water, detergents, chemicals, pesticides and much more.

Though the HollowStream is a relatively new product from EXAIR, it has already impacted the industry, proving itself a versatile tool for liquid spray applications. The HollowStream has become the latest in a storied history of award-winning products from EXAIR, receiving TWO new product awards: *Environmental Protection's 2022 New Product of the Year* for Pollution Control as well as *Occupational Health & Safety's 2022 New Product of the Year* for Dust Control.

HollowStream Nozzles produce a uniform distribution of liquid in a ring pattern with medium to large droplets. Liquid is supplied to the body of the nozzle where it's met with an inner vortex chamber that creates a swirling action resulting in a precise hollow cone pattern. Its compact design allows use in tighter areas while still being able to operate at pressures

up to 250 PSI. HollowStream, like all EXAIR Spray Nozzles, are made from stainless steel to provide extra durability and corrosion resistance. The HollowStream is a great tool for cooling, cleaning, foam breaking, rinsing, dust suppression and more.

EXAIR now offers the HollowStream in 1/4, 3/8, and a new 1/2 NPT size for higher volumes of liquid and bigger applications. To learn more about the award-winning HollowStream and the rest of EXAIR's Liquid Atomizing Nozzles, visit our site at <https://exair.co/05-hls>.

All EXAIR liquid Nozzles are CE compliant and are offered in a variety of flow rates for your specific application. In addition to Liquid Atomizing nozzles, EXAIR also supplies a line of Air Atomizing Nozzles with finer liquid atomization. They can be easily adjusted to the user's specifications and come in 3 distinct styles: Internal Mix, External Mix and Siphon Fed. Shop the rest of EXAIR's extensive line of nozzles at <https://exair.co/05-lan>.



Founder's Day

February 22nd is a special day on the EXAIR calendar as we honor a tradition known as Founder's Day. It's on Founder's Day that we celebrate in memoriam the birthday of our late founder, Roy Sweeney. Roy led EXAIR for 33 years, and it was through that leadership EXAIR was able to become the successful and innovative company that it is today.

Roy's expertise and business acumen was not the only legacy that he left behind. Roy was well known in the community for his charitable works and commitment to servitude. He and his wife Jackie made giving back a staple in their lives and through countless acts of kindness, set an example for not only EXAIR employees but anyone who had the pleasure of knowing them. Building strong relationships with their community and helping those less fortunate was as much a foundation of their everyday lives as EXAIR itself.

It's for this reason, that EXAIR continues to honor his memory by giving back. Every year on February 22nd EXAIR donates to local charities doing their part to make a difference in our community. It's with these donations that we not only celebrate Roy's footprint left on this world, but we're constantly reminded to look outside of ourselves and strive to make the world a better place.

Please read a recent blog from our president on what Founder's Day means to EXAIR, as well as a list of the charities we've donated to this year. <https://exair.co/em-foundersday>



EXAIR.com
MANUFACTURING INTELLIGENT COMPRESSED AIR® PRODUCTS SINCE 1983

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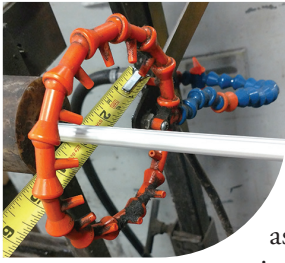


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Please see other side

Super Air Nozzles Reduce Air Consumption and Noise Levels

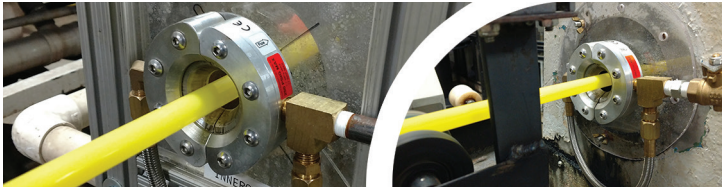


APPLICATION GOAL: Reduce compressed air consumption and noise levels in various blow off and drying applications.

BEFORE EXAIR: A hose manufacturer had plastic modular hose assemblies (made for liquid coolant use) or air blow offs at various stations. Some

were used to blow debris from products, others were used to dry the product as it exited a wash cycle. These hoses are not designed for use with air, and were brought into question for possible replacement with engineered products that would be more efficient and quieter.

AFTER EXAIR: Two of the modular hose blow offs were replaced with a Model 2403 3" Aluminum Super Air Wipe (for the ring) and a Model 2401 1" Aluminum Super Air Wipe (for the 2-point). Upon verifying successful operation in these two applications, 22 other production lines through-out the plant were outfitted with EXAIR Super Air Wipes, replacing modular hose blow offs. The table below lists the quantities of each type of blow off that was replaced, their respective operating pressures, and the reductions in both air consumption and sound levels.



SUMMARY: With a total purchase price of \$10,220.00 (2017 Prices) the return on investment was just 285 days. The environmental benefit of the quiet Super Air Wipes was immediate.

Qty	Supply Pressure (psig)	Modular Hose Blow Off	SCFM	EXAIR Model	SCFM	Air Savings (each)	Annual Operating Cost Savings (each)	Annual Operating Cost Savings (ext)	Sound Level Modular Hose (dBA)	Sound Level Air Wipe (dBA)	Total Annual Savings:
4	30	2-Point	23.5	2400-1/2" Super Air Wipe	6.5	17.0	\$510.00	\$2,040.00	83	70	\$13,077.00
6	35	2-Point	27.6	2401-1" Super Air Wipe	10.0	17.6	\$528.00	\$3,168.00	85	71	
11	40	Ring	37	2402-2" Super Air Wipe	17.0	20.0	\$600.00	\$6,600.00	87	73	
3	40	Ring	37	2403-3" Super Air Wipe	22.9	14.1	\$423.00	\$1,269.00	87	74	

*Cost of compressed air usage is based on electric utility cost of \$0.08/kWh and calculated for operation 8 hours/day, 5 days/week, 50 weeks/year.



EXAIR unconditionally guarantees its cataloged products for 30 days.

If you are not satisfied for any reason within that time, you may return the product for full credit with no restocking charge.

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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 techhelp@exair.com for assistance with yours.

Super Air Knife Speeds Up Production with Rapid Cooling

Customer heats up blanks of masonite board to emboss them with the appearance of a 6 panel door to be used for interior doors for houses. The problem is that the skins have to be cooled once pressed. The customer has been simply letting the panels cool in normal room air (no forced air cooling). The result was that there was a bottleneck in the production line due to the slow cooling process. Customer implemented (2) **Model 110048 48" (1219mm) Aluminum Super Air Knives** and has been able to cut cooling time by 66%.

GO TO <https://exair.co/05-sak>

Venting Weld Smoke and Fumes

Company manufactures specialized engineered flexible piping systems. They need to vent weld smoke/fumes from a large area in their manufacturing facility. (6) pieces of a **Model 120024 4" (102mm) Super Air Amplifier** will move enough air to keep the welding smoke and fumes from building up in the welding area.

GO TO <https://exair.co/05-sal>

Vacuum Transfer of Paper Chads

Customer is responsible for the archiving and preservation of public and private records. When they punch binder holes, the chads accumulate in the machine and around the work station. They had been using shop vacs but they burned out quickly. Using the **Model 6083 1-1/2" (38mm) Line Vac** they vacuumed the chads as they were formed and directed them into a dumpster.

GO TO <https://exair.co/05-lv>



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