An INTELLIGENT COMPRESSED AIR®

Air Nozzles and Jets











Air Nozzles and Jets

Engineered Air Nozzles and Jets reduce noise levels and air costs.

"Go Green" by upgrading your blowoff, cooling and drying operation to award winning **Super Air Nozzles!**



A simple solution to reduce excessive air consumption and noise levels on compressed air blowoff operations. EXAIR Air Nozzles and Jets produce outlet flows up to 25 times compressed air consumption using a small amount of compressed air as the power source. Many power companies now provide attractive rebates to plants who switch to engineered Super Air Nozzles!

Why Air Nozzles and Jets?

Air savings, compared to open copper tubes or pipes commonly used for blowoff, can be as high as 80%. Less compressed air means less noise. The typical noise level reduction is 10 dBA. All EXAIR Air Nozzles and Jets meet Occupational Safety and Health Administration (OSHA) maximum dead end pressure and sound level exposure requirements and carry the CE mark.

An open 1/4" (6mm) copper tube, by contrast, ejects pure compressed air at up to 40 SCFM (1,133 SLPM), the entire output of a 10 horsepower compressor. Annual energy cost can exceed \$1,000 per year. Noise levels in excess of 100 dBA are commonly produced. When supply pressure exceeds 30 PSIG (2 BAR), an open pipe, tube or drilled holes violates OSHA static pressure requirements.

Applications

- · Part cleaning
- · Chip removal
- Part drying
- · Liquid blowoff
- · Part cooling
- Material conveying
- Part ejection
- Fiber conveying
- Air assist

Advantages

- Reduced compressed air cost
- 10 dBA average noise reduction
- Conserve compressed air
- Improved blowoff performance
- Compact
- Improved safety
- Meets OSHA noise level requirements
- Meets OSHA pressure requirements
- Improved production









Flexible Stay Set Hoses™ are ideal where frequent repositioning of air nozzles is required.



This PEEK material Atto Super Air Nozzle was chosen because of its non-marring quality for a blowoff application on a sensitive lens.











Safe And Efficient Use Of Compressed Air

The inefficient use of compressed air for blowoff applications may create problems due to the energy costs, noise level and potential danger to personnel who are exposed to high pressure air. Open air pipes, copper tubes and drilled pipes are a few of the common abusers. They consume tremendous amounts of energy and often produce noise levels over 100 dBA.

Open Air Pipe or Copper Tube



Turbulent compressed air blasts straight out of the pipe or tube. It not only wastes huge amounts of compressed air but also violates OSHA noise and dead end pressure requirements.

Reduce Energy Costs

The best way to cut energy costs is through proper maintenance and use of the compressed air system. Leaks and dirty filters require maintenance on a regular basis. Energy savings can also be realized when replacing outdated compressor motors and controls with high efficiency models that often pay for themselves in a short period of time.

The most important factor to dramatically boost efficiency is proper use. Using engineered products like EXAIR's Super Air Nozzles can cut operating costs since they use only a fraction of the compressed air of typical blowoffs. In addition, all of the Air Nozzles and Jets shown in this catalog can be cycled on and off with an instantaneous response. EXAIR's EFC (shown on page 7) is an electronic flow control that limits compressed air use by turning on the air only when a part is present.

Reduce Noise Levels

High noise levels are a common problem for many plants. Compressed air noise often exceeds OSHA noise level exposure requirements, resulting in hearing loss to those working in close proximity. Noisy blowoffs at 80 PSIG (5.5 BAR) that produce noise levels of 100 dBA can be reduced to only 74 dBA when using a Super Air Nozzle. At that pressure, it is still possible to obtain hard-hitting force without the high noise.

OSHA Maximum Allowable Noise Exposure								
Hours per day (constant noise)	8	7	4	3	2	1	0.5	
Sound level dBA 90 91 95 97 100 105 110								
OSHA Standard 29 CFR - 1910.95 (a)	OSHA Standard 29 CFR - 1910.95 (a)							

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. All of the Air Nozzles and Jets manufactured by EXAIR have been designed for safety. All are safe to be supplied with higher pressure compressed air and meet OSHA Standard 29 CFR 1910.242(b).

Air Consumption of Open Tube And Pipe

Pre	ssure Sup	ply	Air Consumption of Homemade Blowoffs						
			Co	opper Tul	oe	(Open Pip	e	
PSIG	BAR		1/4"	5/16"	3/8"	1/8"	1/4"	3/8"	
80	5.5	SCFM	33	58	87	70	140	240	
80	ر.ر	SLPM	934	1,641	2,462	1,981	3,962	6,792	

Saving Money and Compressed Air

The table above shows the air consumption for typical homemade blowoffs. The pages that follow give the air consumption and other data on EXAIR's Air Nozzles and Jets.

Consider the following example where a Model 1102 Mini Super Air Nozzle replaces an 1/8" open pipe. The compressed air savings are easy to calculate and prove to be dramatic. Payout for Air Nozzles and Jets, including filter and installation cost is measured in weeks - not years, as is the case for other cost reduction equipment. Based on a 40 hour work week, 52 weeks a year.

Example:

- Existing blowoff is 1/8" open pipe at 80 PSIG (5.5 BAR) supply.
 Air consumption, from the table above, is 70 SCFM (1,981 SLPM).
- Use a 1/8 FNPT Model 1102 Mini Super Air Nozzle also at 80 PSIG (5.5 BAR) supply. Air consumption, from the table on page 54, is 10 SCFM (283 SLPM).
- 3. Compressed air saved = 70 10 = 60 SCFM (1,981 283 = 1,698 SLPM)
- 4. For this example, the blowoff is continuous. If the duty cycle was 20%, then air saved would be $60 \times .2 = 12$ SCFM (1,698 $\times .2 = 340$ SLPM).
- Most large plants know their cost per 1,000 standard cubic feet of compressed air (10,000 standard liters). If you don't know your actual cost per 1,000 SCF, \$0.25 is a reasonable average to use.
 (Cost per 10,000 standard liters is approximately \$0.089.)
- 6. Dollars saved per hour = SCFM saved × 60 minutes × cost/1,000 SCF (SLPM saved × 60 min × cost/10,000 SL) = 60 × 60 × \$0.25/1,000 (= 1,698 × 60 × \$0.089/10,000)
 - = \$0.90/hour
 - = \$0.90/hr. is \$36.00/week and
 - = \$1,872.00/year savings for One nozzle!

















Air Nozzles use the Coanda effect to amplify compressed airflow up to 25 times or more. As illustrated on the left, compressed air (black arrows) is ejected through a series of nozzles on the outer perimeter. As the air travels along the outer wall of the nozzle, surrounding air (blue arrows) is entrained into the stream. The airstream that results is a high volume, high velocity blast of air **at minimal consumption**. The air is always ejected so it can vent safely, **well below OSHA dead end pressure requirements**, should the nozzle end be blocked.

Selecting The Right Air Nozzle

EXAIR manufactures a wide selection of Air Nozzles and Jets, which are divided into two groups. The first group includes Air Nozzles and Jets that deliver force up to 22 ounces (624 grams) and are suitable for most applications. The second group includes Air Nozzles that produce high force up to 23 lbs (10.43 kg) where additional reach and force are required.

- Type 303 Stainless Steel- high temperatures and corrosive environments. Max temp 800°F (426°C)
- **Type 316 Stainless Steel-** high temperatures, corrosive environments, and mechanical wear. Max temp 1000°F (538°C)
- Brass- general purpose applications. Max temp 400°F (204°C)
- Zinc aluminum alloy- general purpose applications.
 Max temp 250°F (121°C)
- PEEK- replaces metals in harsh environments. Offers chemical resistance, non-marring. Max temp 320°F (160°C)

Model Material Description Inlet SCFM SLPM Ozs Grams Level dBA Det		Air Nozzles And Jets	Comparison (sorted by	/ compressed a	ir consum	ption at 8	30 PSIG	(5.5 BA	R))	
Model Material Description Inlet SCFM SLPM Ozs Grams Level dBA Det				_	Air Const	umption	Fo	rce	Sound	More
1108-PEEK PEEK (Plastic)	Model	Material	Description	Inlet	SCFM	SLPM	Ozs	Grams		Details
1108SS-NPT Stainless Steel - Type 316 Atto Super Air Nozzle 1/8 MNPT 2.5 71 2.0* 57 58 p.	1108SS	Stainless Steel - Type 316	Atto Super Air Nozzle	M4 × 0.5	2.5	71	2.0*	57	58	p. 55
1108-PEEK.NPT	1108-PEEK	PEEK (Plastic)	Atto Super Air Nozzle	M4 × 0.5	2.5	71	2.0*	57	58	p. 55
1109SS Stainless Steel - Type 316 Pico Super Air Nozzle M5 x 0.5 4.9 139 5.0" 142 68 p.	1108SS-NPT	Stainless Steel - Type 316	Atto Super Air Nozzle	1/8 MNPT	2.5	71	2.0*	57	58	p. 55
1109-PEEK PEEK (Plastic) Pico Super Air Nozzle M5 x 0.5 4.9 139 5.0* 142 68 p.	1108-PEEK-NPT	PEEK (Plastic)	Atto Super Air Nozzle	1/8 MNPT	2.5	71	2.0*	57	58	p. 55
1109SS-NPT Stainless Steel - Type 316 Pico Super Air Nozzle 1/8 MNPT 4.9 139 5.0* 142 68 p.	1109SS	Stainless Steel - Type 316	Pico Super Air Nozzle	M5 × 0.5	4.9	139	5.0*	142	68	p. 55
1109-PEEK-NPT	1109-PEEK	PEEK (Plastic)	Pico Super Air Nozzle	M5 × 0.5	4.9	139	5.0*	142	68	p. 55
1110SS Stainless Steel - Type 316 Nano Super Air Nozzle M6 x 0.75 8.3 235 8.1* 230 75 p. 1110-PEEK PEEK (Plastic) Nano Super Air Nozzle M6 x 0.75 8.3 235 8.1* 230 75 p. 1110-PEEK-NPT Stainless Steel - Type 316 Nano Super Air Nozzle 1/8 MNPT 8.3 235 8.1* 230 75 p. 1100-PEEK-NPT PEEK (Plastic) Nano Super Air Nozzle 1/8 FNPT 10 283 9* 255 78 p. 1102 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 78 p. 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 </td <td>1109SS-NPT</td> <td>Stainless Steel - Type 316</td> <td>Pico Super Air Nozzle</td> <td>1/8 MNPT</td> <td>4.9</td> <td>139</td> <td>5.0*</td> <td>142</td> <td>68</td> <td>p. 55</td>	1109SS-NPT	Stainless Steel - Type 316	Pico Super Air Nozzle	1/8 MNPT	4.9	139	5.0*	142	68	p. 55
1110-PEEK	1109-PEEK-NPT	PEEK (Plastic)	Pico Super Air Nozzle	1/8 MNPT	4.9	139	5.0*	142	68	p. 55
1110SS-NPT Stainless Steel - Type 316 Nano Super Air Nozzle 1/8 MNPT 8.3 235 8.1* 230 75 p.	1110SS	Stainless Steel - Type 316	Nano Super Air Nozzle	M6 × 0.75	8.3	235	8.1*	230	75	p. 55
1110-PEEK-NPT PEEK (Plastic) Nano Super Air Nozzle 1/8 MNPT 8.3 235 8.1* 230 75 p. 1001 Brass Safety Air Nozzle 1/8 FNPT 10 283 9* 255 78 p. 1102 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1103 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 11035 Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1104 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9	1110-PEEK	PEEK (Plastic)	Nano Super Air Nozzle	M6 × 0.75	8.3	235	8.1*	230	75	p. 55
1001 Brass Safety Air Nozzle 1/8 FNPT 10 283 9* 255 78 p.0 1102 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p.1 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p.1 1102SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p.1 1103 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p.1 1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p.1 1126S Zinc Aluminum alloy 1"Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p.1 1126SS Stainless Steel - Type 316 1"Flat Super Air Nozzle 1/8 FNPT 10.5 <	1110SS-NPT	Stainless Steel - Type 316	Nano Super Air Nozzle	1/8 MNPT	8.3	235	8.1*	230	75	p. 55
1102 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1103 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1126 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT <th< td=""><td>1110-PEEK-NPT</td><td>PEEK (Plastic)</td><td>Nano Super Air Nozzle</td><td>1/8 MNPT</td><td>8.3</td><td>235</td><td>8.1*</td><td>230</td><td>75</td><td>p. 55</td></th<>	1110-PEEK-NPT	PEEK (Plastic)	Nano Super Air Nozzle	1/8 MNPT	8.3	235	8.1*	230	75	p. 55
1102-PEEK PEEK (Plastic) Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1102SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1103 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1126 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1009S Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT </td <td>1001</td> <td>Brass</td> <td>Safety Air Nozzle</td> <td>1/8 FNPT</td> <td>10</td> <td>283</td> <td>9*</td> <td>255</td> <td>78</td> <td>p. 60</td>	1001	Brass	Safety Air Nozzle	1/8 FNPT	10	283	9*	255	78	p. 60
1102SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 FNPT 10 283 9* 255 71 p. 1103 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1126 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 100SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 FNPT 13 368 12* 340 80 p. 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT	1102	Zinc Aluminum alloy	Mini Super Air Nozzle	1/8 FNPT	10	283	9*	255	71	p. 56
1103 Zinc Aluminum alloy Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1126 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT 13 368 12* 340 80 p. 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 <td>1102-PEEK</td> <td>PEEK (Plastic)</td> <td>Mini Super Air Nozzle</td> <td>1/8 FNPT</td> <td>10</td> <td>283</td> <td>9*</td> <td>255</td> <td>71</td> <td>p. 56</td>	1102-PEEK	PEEK (Plastic)	Mini Super Air Nozzle	1/8 FNPT	10	283	9*	255	71	p. 56
1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1126 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT 13 368 12* 340 80 p. 1009 Aluminum Adjustable Air Nozzle 1/8 MNPT 13 368 12* 340 79 p. 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 <td>1102SS</td> <td>Stainless Steel - Type 316</td> <td>Mini Super Air Nozzle</td> <td>1/8 FNPT</td> <td>10</td> <td>283</td> <td>9*</td> <td>255</td> <td>71</td> <td>p. 56</td>	1102SS	Stainless Steel - Type 316	Mini Super Air Nozzle	1/8 FNPT	10	283	9*	255	71	p. 56
1103SS Stainless Steel - Type 316 Mini Super Air Nozzle 1/8 MNPT 10 283 9* 255 71 p. 1126 Zinc Aluminum alloy 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT 13 368 12* 340 80 p. 1009 Aluminum Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14	1103	Zinc Aluminum alloy	Mini Super Air Nozzle	1/8 MNPT	10	283	9*	255	71	p. 56
1126SS Stainless Steel - Type 316 1" Flat Super Air Nozzle 1/8 FNPT 10.5 297 9.8† 278 75 p. 1010SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT 13 368 12* 340 80 p. 1009 Aluminum Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p.	1103SS	Stainless Steel - Type 316	Mini Super Air Nozzle	1/8 MNPT	10	283	9*	255	71	p. 56
1010SS Stainless Steel - Type 303 Micro Air Nozzle 1/8 MNPT 13 368 12* 340 80 p. 1009 Aluminum Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.	1126	Zinc Aluminum alloy	1" Flat Super Air Nozzle	1/8 FNPT	10.5	297	9.8†	278	75	p. 57
1009 Aluminum Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p.0 1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p.0 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p.0 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p.0 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p.0 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.0	1126SS	Stainless Steel - Type 316	1" Flat Super Air Nozzle	1/8 FNPT	10.5	297	9.8†	278	75	p. 57
1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 1 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.	1010SS	Stainless Steel - Type 303	Micro Air Nozzle	1/8 MNPT	13	368	12*	340	80	p. 55
1009SS Stainless Steel - Type 303 Adjustable Air Nozzle 1/8 MNPT 13 368 12** 340 79 p. 0 1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p. 1	1009	,,	Adjustable Air Nozzle		13	368	12**	340	79	p. 60
1100 Zinc Aluminum alloy Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.	1009SS	Stainless Steel - Type 303	Adjustable Air Nozzle	1/8 MNPT	13	368	12**	340	79	p. 60
1100-PEEK PEEK (Plastic) Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p. 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.	1100	,,	•		14	396	13*	369	74	p. 56
1100SS Stainless Steel - Type 316 Super Air Nozzle 1/4 FNPT 14 396 13* 369 74 p.1 1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.1					14		13*	369	74	p. 56
1101 Zinc Aluminum alloy Super Air Nozzle 1/4 MNPT 14 396 13* 369 74 p.	1100SS				14	396	13*	369	74	p. 56
	1101	Zinc Aluminum alloy	Super Air Nozzle	1/4 MNPT	14	396	13*	369	74	p. 56
	1101SS	•		1/4 MNPT	14	396	13*	369	74	p. 56
	1002				17	481	16*	454	80	p. 60
			,					454		p. 60
		/ 1	,		18	509	18*	510	83	p. 60
			•			509	16***	454		p. 61
		Stainless Steel – Type 303					16***	454		p. 61
		/1	,				20†			p. 61
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		/1								p. 57
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										p. 59

For High Force Air Nozzles, see page 63.

Force measured at 12" (305mm) from target.

*** Force measured at 12" (305mm) from target with a .008" (0.20mm) factory setting.

*** Force measured at 12" (305mm) from target with a .006" (0.15mm) factory setting.

All sound levels measured at 3 feet (914mm). All measurements taken at 80 PSIG (5.5 BAR).

 $\dagger\,$ Force measured at 12" (305mm) from target with a .015" (0.38mm) shim installed









FNPT = NPT Female

MNPT = NPT Male.



Air Nozzles COMP

Atto Super Air Nozzles™

(actual size)

Model 1108SS M4 × 0.5 Material: Type 316 Stainless Steel Model 1108-PEEK M4 × 0.5 Material: PEEK (plastic)



Model 1108SS-NPT 1/8 NPT male Material: Type 316 Stainless Steel Model 1108-PEEK-NPT 1/8 NPT male

Material: PEEK (plastic)

Model 1108SS, 1108-PEEK, 1108SS-NPT, 1108-PEEK-NPT Atto Super Air Nozzle

EXAIR's Atto Super Air Nozzle delivers the smallest, most precise blowoff. The air pattern for this tiny nozzle is focused, measuring 1.0" in diameter when positioned 6" away from the surface. The 58 dBA noise level is a fraction of ordinary air nozzles.

Air Cons	umption	For	ce*	Sound Level
SCFM	SLPM	Ozs	Grams	dBA
2.5	71	2.0	57	58

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm).

All measurements taken at 80 PSIG (5.5 BAR)



Pico Super Air Nozzles™



(actual size)

Model 1109SS M5 × 0.5 Material: Type 316 Stainless Steel Model 1109-PEEK M5 × 0.5 Material: PEEK (plastic)



Model 1109SS-NPT 1/8 NPT male Material: Type 316 Stainless Steel

Material: PEEK (plastic)

Model 1109SS, 1109-PEEK, 1109SS-NPT, 1109-PEEK-NPT Pico Super Air Nozzle

EXAIR's Pico Super Air Nozzle delivers a precise blowoff with a highly focused, forceful blast of airflow. The narrowly focused air pattern measures 1.3" in diameter at 6" away from the surface. The noise level is only 68 dBA.

Air Consumption		For	ce*	Sound Level	
SCFM	SLPM	Ozs	Grams	dBA	
4.9	139	5.0	142	68	

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). Model 1109-PEEK-NPT 1/8 NPT male All measurements taken at 80 PSIG (5.5 BAR).



Nano Super Air Nozzles™



(actual size)

Model 1110SS M6 × 0.75 Material: Type 316 Stainless Steel **Model 1110-PEEK** M6 × 0.75 Material: PEEK (plastic)



Model 1110SS-NPT 1/8 NPT male Material: Type 316 Stainless Steel Model 1110-PEEK-NPT 1/8 NPT male

Material: PEEK (plastic)

Model 1110SS, 1110-PEEK, 1110SS-NPT, 1110-PEEK-NPT Nano Super Air Nozzle

EXAIR's Nano Super Air Nozzle delivers a highly focused, forceful blast of airflow. The air pattern for this small nozzle measures 1.5" in diameter at 6" away from the surface. The noise level is a low 75 dBA. Overall length measures only 0.78".

Air Cons	umption	For	ce*	Sound Level	
SCFM	SLPM Ozs		Grams	dBA	
8.3	235	8.1	230	75	

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).





Micro Air Nozzle™



Model 1010SS 1/8 NPT male Material: Type 303 Stainless Steel

Model 1010SS Micro Air Nozzle

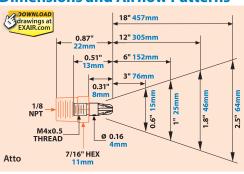
EXAIR's Micro Air Nozzle optimizes entrainment for a directed, high volume, high velocity airflow. The compact size permits mounting where space is limited. Sound level and air consumption are low.

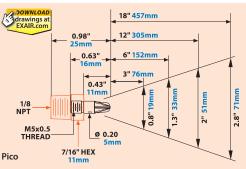
Air Consumption		For	ce*	Sound Level	
SCFM	SLPM	Ozs	Grams	dBA	
13	368	12	340	80	

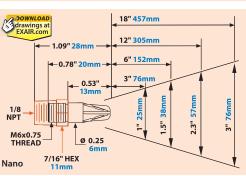
Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).

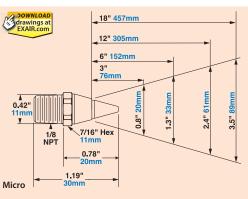
The Air Nozzles and Jets shown on pages 55 – 61 deliver up to 22 ounces (624 grams) of force, making them suitable for most applications. All models shown use a small amount of compressed air to entrain large volumes of surrounding room air. They have been engineered to provide the best performance with low sound levels and high efficiency.

Dimensions and Airflow Patterns













INTELLIGENT

Mini Super Air Nozzles™



Model 1102 1/8 NPT female Material: Zinc Aluminum allov Model 1102-PEEK 1/8 NPT female Material: PEEK (plastic) Model 1102SS 1/8 NPT female Material: Type 316 Stainless Steel

Model 1102, 1102-PEEK, 1102SS, 1103 and 1103SS Mini Super Air Nozzles

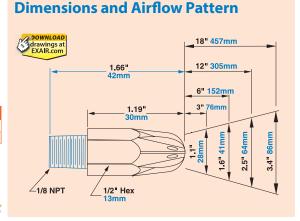
The 1/8 NPT Mini Super Air Nozzles provide a forceful, concentrated stream of high velocity airflow. It has fewer holes than the larger Super Air Nozzles, resulting in lower sound levels, air consumption and force.

Air Consumption		Fo	rce*	Sound Level		
SCFM	SLPM	Ozs Grams		dBA		
10	283	9	255	71		

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR)







Super Air Nozzles with Stay Set Hoses provide adjustability and precision.

Model 1103 1/8 NPT male Material: Zinc Aluminum alloy Model 1103SS 1/8 NPT male Material: Type 316 Stainless Steel

Super Air Nozzles™



Model 1100 1/4 NPT female Material: Zinc Aluminum alloy Model 1100SS 1/4 NPT female Material: Type 316 Stainless Steel



Model 1100-PEEK 1/4 NPT female Material: PEEK (plastic)



Model 1101 1/4 NPT male Material: Zinc Aluminum alloy Model 1101SS 1/4 NPT male Material: Type 316 Stainless Steel



The aerodynamic design of the Model 1100 Super Air Nozzle directs air to a single point of convergence.

Model 1100, 1100SS, 1100-PEEK, 1101 and 1101SS Super Air Nozzles

EXAIR's award winning Super Air Nozzles deliver high performance suitable for a wide range of blowoff, drying and cooling applications. The aerodynamic design of this engineered Super Air Nozzle directs the air to a single point of convergence, delivering hard-hitting force. It dramatically reduces air consumption and, in many cases, can cut the noise level in half. All Super Air Nozzles eject the compressed air through holes located in recessed grooves that cannot be blocked or dead ended.

Air Cons	sumption	Foi	rce*	Sound Level	
SCFM	SLPM	Ozs Gram		dBA	
14	396	13	369	74	

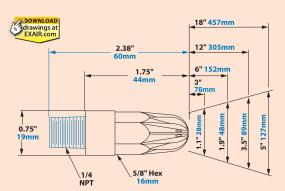
Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).







Dimensions and Airflow Pattern





Most EXAIR Air Nozzles have a standard hex base making them easy to install with a socket wrench.



Build Your Own System

EXAIR's Swivel Fittings, available for all our nozzles up to 1 NPT, make it easy to adjust the aim of the Air Nozzles and Jets. Correct placement of the blowing angle can help optimize performance, reduce noise levels and improve efficiency. See page 68 for details.

Swivel Fittings can be added to most EXAIR Nozzles by adding a "W" to the Model#.

1122 (2" Flat Super Air Nozzle)

W (Swivel Fitting)

1122W









Flat Super Air Nozzles COMPRESSED AIR



Flat Super Air Nozzles™



Model 1126 1/8 NPT female Material: Zinc Aluminum alloy Model 1126SS 1/8 NPT female Material: Type 316 Stainless Steel

Shim sets for the 1" Flat Super Air Nozzles include a .005" (0.13mm), .010" (0.25mm), and .020" (0.51mm) thick shim.

	Stainless Steel 1"
1136SS	Flat Super Air Nozzle
	Shim Set

Model 1126, 1126SS, 1122 and 1122SS 1" and 2" Flat Super Air Nozzles

EXAIR's 1" and 2" Flat Super Air Nozzles are highly efficient, unique flat air nozzles. Their patented† design uses a special shim to maintain the critical position of the component parts. A precise amount of air is released through the thin slot, across a flat surface. The result is a wide, forceful stream of high velocity, laminar airflow with minimal air consumption and noise.

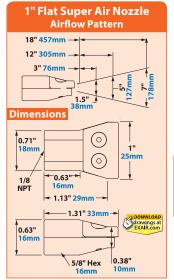
†Patent #5402938

Air Consumption			For	ce *	Sound Level	
Model	SCFM	SLPM	Ozs	Grams	dBA	
1126/1126SS	10.5	297	9.8	278	75	
t Fares massured	+ 12" (205)	from toract				

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR) .015" (0.38mm) shim installed.









Model 1122 1/4 NPT female Material: Zinc Aluminum allov

Model 1122SS 1/4 NPT female Material: Type 316 Stainless Steel

Shim sets for the 2" Flat Super Air Nozzles include a .005" (0.13mm), .010" (0.25mm), and .020" (0.51mm) thick shim.

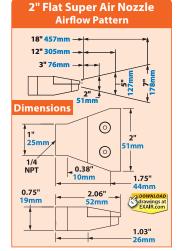
Stainless Steel 2" **1132SS** Flat Super Air Nozzle Shim Set

The 1" and 2" Flat Super Air Nozzles are shipped with a .015" (0.38mm) air gap opening that is set with a stainless steel shim positioned between the cap and the body. Force and flow may be easily increased or decreased by installing a different shim.

	Air Cons	umption	For	ce *	Sound Level
Model	SCFM	SLPM	Ozs	Grams	dBA
1122/112255	21.8	622	22	624	77

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR)





2" Flat Super Air Nozzles blow off metal parts as they are lifted through a vacuum chamber.

Super Air Scraper™



Model 1144 1/4 NPT female Material: Zinc Aluminum alloy/Steel

Shim sets for the 2" Flat Super Air Nozzles include a .005" (0.13mm), .010" (0.25mm), and .020" (0.51mm) thick shim.

	Stainless Steel 2"
1132SS	Flat Super Air Nozzle
	Shim Set

Model 1144 2" Super Air Scraper

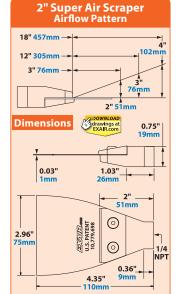
EXAIR's 2" Super Air Scraper is a patented nozzle† used to eliminate stubborn debris from work or machine surfaces. This 2" flat nozzle utilizes a corrosion resistant scraper blade to provide the needed leverage to get underneath and scrape away fixed debris before the air can remove it from a surface. Applications include removal of tape, gaskets, adhesive, labels and stickers, grease, paint and sealant. A scraper nozzle can assist in cleaning sub plates, machining tables and difficult to sweep metal chips, flakes or discs. They are ideal when used as a Soft Grip Super Air Scraper (see page 123). †Patent #10,779,698

	Air Consumption		Force *		Sound Level		
Model	SCFM SLPM		Ozs Grams		dBA		
1144	21.8	622	22	624	77		
Force measured at 12" (205mm) from target							

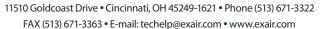
Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR) .015" (0.38mm) shim installed

> 2" Super Air Scraper can eliminate stubborn debris.









the Competition!

Save Over \$1,200 Per Year By Replacing One Outdated Air Nozzle!

We've all seen flat air nozzles. Some are yellow. Others are orange. The oldest ones are blue or metal. Those other manufacturers want you to believe you'll save money by conserving compressed air while protecting your workers from harmful noise levels. In reality, those colorful air nozzles that blow the air out of holes consume enormous amounts of air. The plastic ones often break off. Some might even get you an OSHA fine due to the dangerous dead ended pressures that exist if someone blocks the air exhaust.

EXAIR's award winning 2" Flat Super Air Nozzle™ has been engineered to replace those outdated flat nozzles. There are no dangerous holes that can be blocked. EXAIR's patented, award winning design is efficient, maintaining a precise amount of airflow through a thin slot. The result is a forceful stream of high velocity, laminar airflow with minimal air consumption and noise. You can increase or decrease the force of each flat air nozzle – using shims to tune it to the application so you'll never waste compressed air. EXAIR also offers a 1" Flat Super Air Nozzle™, with the same laminar airflow, to fit in tighter spaces.

Flat nozzles from other manufacturers can consume over 30 SCFM (a refrigerator sized compressor) and aren't adjustable. Some manufacturers offer different flow rates but you need to guess at which one will do the job since you can't adjust them once you've made the purchase. By default, most users feel bigger is better and go with the highest flow rate, wasting compressed air. See page 57 for more details.

PRODUCT

EXAIR's 2" Flat Super Air Nozzle Theirs (Old Technology)

- 2004 Product Of The Year Winner
- Your choice of zinc/aluminum or Type 316 stainless steel
- Flexible Stay Set Hoses™, swivel fittings and magnetic bases are available
- Meets or exceeds OSHA standards
- Quietest flat nozzle available
- Easy to change the force and flow

- Can consume over 30 SCFM
- Expensive metal or plastic
- No easy adjustment wasted compressed air
- May not be OSHA safe
- · Significantly louder
- · Plastic is easily broken

Here's hows

- One popular flat nozzle consumes 31 SCFM @ 80 PSIG.
- EXAIR's 2" Flat Super Air Nozzle with .015" shim consumes 21.8 SCFM @ 80 PSIG.
- 31 SCFM (theirs) 21.8 SCFM (EXAIR's) = 9.2 SCFM compressed air saved.

Most large plants know their cost per 1,000 standard cubic feet of compressed air. If you don't know your actual cost per 1,000 SCF, 25¢ is a reasonable average to use.

- SCFM saved x 60 minutes x cost/1,000 SCF = dollars saved per hour.
- In this case, 9.2 SCFM x 60 x .25/1,000 SCF= 13.8 cents saved per hour.
- 13.8 cents per hour x 24 hours = \$3.31 saved per day.
- \$3.31 per day x 365 days = \$1,208.88 saved in one year (in this 24/7 operation).

And, This Savings Is For One Nozzle!

Air Nozzle	Air Consumption @ 80 PSIG	Noise Level dBA	lbs. of Force @ 80 PSIG
Yellow	29 SCFM	83	1.7
Orange	28 SCFM	82	1.7
Blue	26 SCFM	78	1.5
Metal (machined)	29 SCFM	82	1.7
Metal (cast)	31 SCFM	80	1.9
EXAIR 2" Flat Super Air Nozzle	*7.3- 30 SCFM	62-81	0.5 – 1.9

*Air consumption dependent upon shim size.

EXAIR's 2" Flat Super Air Nozzle can pay for itself in less than 27 days.

Put the 2" Flat Super Air Nozzle to work in your blowoff, cooling or drying application. We're sure you'll agree that it blows away the competition!











Back Blow Air Nozzles



M4 Back Blow Air Nozzle



Model 1004SS M4 × 0.5 Material: Type 316 Stainless Steel

Model 1004SS Back Blow Air Nozzle

EXAIR's M4 Back Blow Air Nozzle delivers the smallest, most effective airflow for cleaning out small diameter tubes, pipes, channels or holes. Its forceful airflow can be used on diameters as small as 1/4" (6.3mm) and up to 1" (25.4mm). Extensions for reaching farther into a pipe, tube, hose, channel or hole are available.

Air Consumption		Sound Level*	Use With:	
Model	SCFM SLPM		dBA	Inside Diameters
1004SS	4.5	127	75	1/4" - 1" (6.3-25.4mm)
* Sound lev	el measured	at 3' (914mr	n).	

All measurements taken at 80 PSIG (5.5 BAR).

Dimensions and Airflow Pattern Direction of Airflow 0.59" 0.19" 4.7mm FLATS 11mm FLATS 12" 305mm 12" 305mm 12" 305mm 18" 457mm

1/4 NPT Back Blow Air Nozzle



Model 1006SS 1/4 NPT female **Material:** Type 316 Stainless Steel

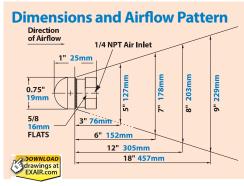
Model 1006SS Back Blow Air Nozzle

The 1/4 NPT Back Blow Air Nozzle delivers high performance suitable for a wide range of diameters. Recommended diameter range is 7/8"- 4" (22-102mm). A large variety of extensions for reaching farther into a pipe, tube, hose, channel or hole are available.

	Air Consumption		Sound Level*	Use With:
Model	SCFM	SLPM	dBA	Inside Diameters
1006SS	22	622	80	7/8"- 4" (22-102mm)

Sound level measured at 3' (914mm).
 All measurements taken at 80 PSIG (5.5 BAR).





Dimensions and Airflow Pattern

Air Inlet

6" 152mm

12" 305mm

18" 457mm

24" 610mm

36" 914mm

.0

1 NPT Back Blow Air Nozzle



Model 1008SS 1 NPT female **Material:** Type 316 Stainless Steel

Model 1008SS Back Blow Air Nozzle

EXAIR's largest Back Blow Air Nozzle produces the greatest force for stubborn, sticky materials which may be inside of pipes, tubes, channels or holes. It is capable of reaching into diameters from 2"-16" (51-406mm) so it can handle small and large diameters. Extensions are available.

Air Consumption		Sound Level*	Use With:	
Model	SCFM	SLPM	dBA	Inside Diameters
1008SS	57	1,614	89	2" - 16" (51-406mm)

^{*} Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).

Vith: 1-13/32 35.7mm FLATS 1-200mm)

Direction of Airflow

Aluminum Extension Pipe

0) 1
1	,

Chip Shields should be used to protect operators from debris. A Model 901650 Chip Shield is for M4 × 0.5 extensions and a Model 901222 is available for 1/4 NPT extensions.

Alullillulli Extension Pipe					
	Extensions provide the necessary reach to clean out your pipe, tube, hose or channel. Available up to 72" (1829mm) long.				
Model	Description				
9492	6" (152mm) Aluminum, M4 × 0.5				
9493	12" (305mm) Aluminum, M4 × 0.5				
9495	24" (610mm) Aluminum, M4 x 0.5				
9497	36" (914mm) Aluminum, M4 x 0.5				
9188	12" (305mm) Aluminum, 1/4 NPT				
9189	18" (457mm) Aluminum, 1/4 NPT				
9190	24" (610mm) Aluminum, 1/4 NPT				
9191	36" (914mm) Aluminum, 1/4 NPT				
9192	48" (1219mm) Aluminum, 1/4 NPT				
9193	60" (1524mm) Aluminum, 1/4 NPT				
9194	72" (1829mm) Aluminum, 1/4 NPT				
900353	12" (305mm) Aluminum, 1 NPT				
901254	36" (914mm) Aluminum, 1 NPT				
901259	72" (1829mm) Aluminum, 1 NPT				



A Back Blow Air Nozzle cleans chips and coolant from inside a machined pipe.





An Intelligent Compressed Airo Product

Safety Air Nozzles

Safety Air Nozzles

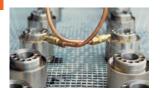


Model 1001 1/8 NPT female Material: Brass

Model 1002 1/4 NPT female Material: Brass

Model 1002SS 1/4 NPT female Material: Type 303 Stainless Steel Model 1003 3/8 NPT female

Model 1003 3/8 NPT female **Material:** Brass



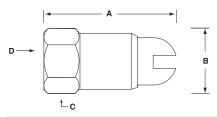
Oddly shaped parts often require a combination of Safety Nozzles for blowoff.

Model 1001, 1002, 1002SS and 1003 Safety Air Nozzles

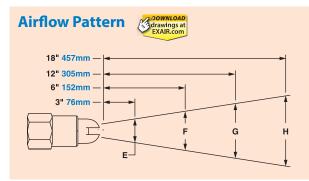
Safety Air Nozzles eject a small amount of compressed air 360° around the outer ring that combines with the air ejected from the center hole to produce a high volume, high velocity blast of air. The slotted end allows air to vent safely should the nozzle end be blocked.

Air Consumption		Force*		Sound Level	
Model	SCFM	SLPM	Ozs Grams		dBA
1001	10	283	9	255	78
1002	17	481	16	454	80
1002SS	17	481	16	454	80
1003	18	509	18	510	83

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).



Dimensions		Α	В	C	D
Model				Hex	Inlet
1001	in	1.19	0.38	1/2	1/8
	mm	30	10	13	NPT
1002 1002SS	in	1.44	0.50	5/8	1/4
	mm	37	13	16	NPT
1003	in	1.65	0.63	3/4	3/8
	mm	42	16	19	NPT



Model		E	F	G	Н
1001	in	1.1	2.1	4.1	6.0
	mm	28	53	104	152
1002 1002SS	in	1.3	2.3	4.4	6.5
	mm	33	58	112	165
1003	in	1.3	2.4	4.7	7.0
	mm	33	61	119	178



Contact an Application Engineer at 1-800-903-9247.

Send in your air nozzle for the Award Winning EXAIR Efficiency Lab Service

We will test your existing product for air use, noise and force. We'll compare it to our Intelligent Compressed Air® products and provide a full report to help improve your process.

Adjustable Air Nozzles



Model 1009 1/8 NPT male Material: Aluminum Model 1009SS 1/8 NPT male Material: Type 303 Stainless Steel



Adjustable Air Nozzles are perfect for a variety of blowoff applications.

Model 1009 and 1009SS Adjustable Air Nozzles

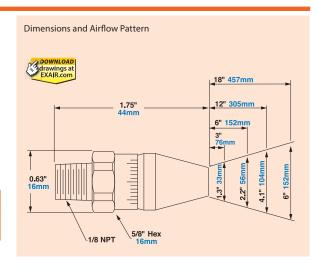
Adjustable Air Nozzles are suitable for a wide variety of blowoff applications. The design allows you to "tune in" the force and flow to the application requirements, thereby minimizing air consumption. A micrometer-like dial indicates the gap setting. A set screw in the end can be tightened so the air nozzle holds the setting.

Air Cons	umption	Force*		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
13	368	12	340	79

^{*} Force measured at 12" (305mm) from target with a .008" (0.20mm) factory setting.

Sound level measure d at 3' (914mm).

All measurements taken at 80 PSIG (5.5 BAR).







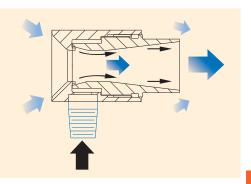






How Air Jets Work

Air Jets utilize the Coanda effect (wall attachment of a high velocity fluid) to produce air motion in their surroundings. As illustrated on the right, a small amount of compressed air (black arrows) is throttled through an internal ring nozzle above sonic velocity. A vacuum is produced, pulling large volumes of surrounding, or "free" air, through the jet (blue arrows). Both the outlet and inlet can be ducted for remote positioning. If the end is blocked, flow simply reverses at well below OSHA dead end pressure requirements.



High Velocity Air Jets



Model 6013 1/8 NPT male Material: Brass Max Temp: 275°F (135°C)



Model 6013SS 1/8 NPT male **Material:** Type 303 Stainless Steel **Max Temp:** 400°F (204°C)



Material: Type 303 Stainless Steel

Model 6013 and 6013SS High Velocity Air Jets

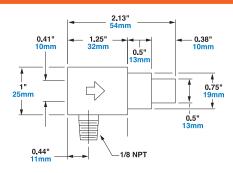
Provides maximum thrust with a confined, directed airstream. It is the best choice for part ejection, chip removal, and part drying.

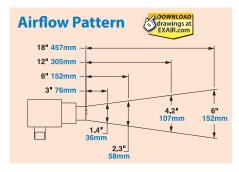
Shim Sets: Shims can be used to change the gap on the Model 6013 and 6013SS High Velocity Air Jet.

Air Consumption		For	ce*	Sound Level
SCFM	SLPM	Ozs	Grams	dBA
22	622	20	567	82

^{*} Force measured at 12" (305mm) from target with a .015" (0.38mm) shim installed. Sound level measured at 3' (914mm).

All measurements taken at 80 PSIG (5.5 BAR).





The Model 6313 Air Jet Shim Set for the High Velocity Air Jet includes a .006" (0.15mm) and a .009" (0.23mm) thick shim. A .015" (0.38mm) shim comes installed with the Model 6013 and 6013SS Air Jet.

Adjustable Air Jets



Model 6019 1/8 NPT male Material: Brass Max Temp: 275°F (135°C)



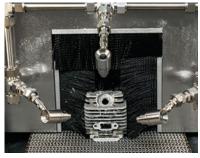
Model 6019SS 1/8 NPT male **Material:** Type 303 Stainless Steel **Max Temp:** 400°F (204°C)

Model 6019 and 6019SS Adjustable Air Jets

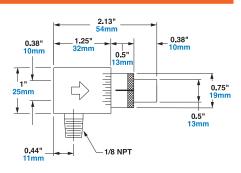
This is an adjustable version of the Model 6013 High Velocity Air Jet. Airflow and thrust are easily adjusted using the micrometer gap indicator.

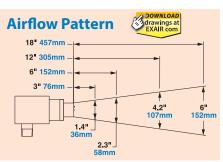
Air Cons	umption	Force*		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
18	509	16	454	83

^{*} Force measured at 12" (305mm) from target with a .006" (0.15mm) setting. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).



A combination of Model 6013SS High Velocity Air Jets dry this chainsaw cylinder head.







How Much Air Does It Really Use?

The amount of compressed air wasted by copper tubes, drilled pipe and other compressed air blowoffs can easily cost thousands of dollars per year. To quantify it, air consumption can be translated into electrical energy use. One horsepower of compressor (746 Watts) generates 4 to 5 SCFM (113 to 142 SLPM). The SCFM (SLPM) output depends on the efficiency of the compressor. Wasteful blowoffs can drain the compressed air system where a plant will experience frequent and sizeable pressure drops. The lack of air can be eliminated when the inefficient blowoffs are replaced.

Efficient products like EXAIR's engineered Super Air Nozzles are quiet while being capable of pulling in 25 parts of room air for every one part of compressed air. Companies who want to "Go Green" and minimize compressed air use should listen for the loud compressed air noise in their plant. Once the noisy blowoff is located, EXAIR's Digital Sound Level Meter (shown on page 17) can isolate the source and measure the sound level. Replacing one drilled pipe or other homemade blowoff with one Super Air Nozzle can amount to a large air savings. Here's a typical example:



EXAIR's Digital Sound Level Meter detects the source of high noise. (See page 17)



A Steel Plant Reduces Air Use by 59%

A steel plant was using open ended pipes on their cold rolled process to blow away a dense fog of oil vapor so the operator could see the process. Each pipe consumed 195 SCFM (5,521 SLPM) of compressed air. With only a 3:1 air amplification ratio, the open ended pipe did a poor job of clearing the fog. The pipes were dangerous since they could potentially be dead ended (an OSHA violation). Even with hearing protection, workers complained that it was loud.

They installed (2) Model 1106 1/2 NPT Stainless Steel Super Air Nozzles with Model 9069 Swivel Fittings (to aim them) to blow the fog across the 6' (1.8m) width. The Super Air Nozzles completely cleared the fog and the workers complimented the significant noise drop. Each open pipe that used to consume 195 SCFM (5,521 SLPM) was reduced to only 60 SCFM (1,699 SLPM) when the Super Air Nozzles were installed.







Digital Flowmeter with USB Data Logger are available. See pages 10-16 for full details.

Compressed air products should not be used at pressures higher than indicated by the manufacturer since this wastes air. When looking for places to conserve air, it is important to measure the air consumption of everything connected to the compressed air supply rather than relying on the numbers printed in a manufacturer's literature. Some manufacturers of compressed air products understate the air consumption of their products. It is hard to say if it is done intentionally or in error. One possibility is that their flow meter has not been regularly calibrated. Another reason could be a failure to properly use their flow meter.

Most flow meter manufacturers require that any measurement made on their meter be multiplied by a correction factor in order to get the exact air consumption measurement. This takes into account the conditions under which the flow meter was calibrated. If a company using one of these flow meters takes the reading but fails to multiply it by the appropriate correction factor, it would appear their product uses a lot less compressed air — easily half of what it actually consumes. EXAIR's Digital Flowmeter models (starting on page 10) are an easy to use solution that does not require regular calibration and provides the actual reading without having to use a correction factor.

















High Force Air Nozzles COMPRESSED AIR



Some applications require extremely high force with extensive reach. EXAIR offers most standard nozzles in a high force version. With incredibly high blowing forces these nozzles are ideal for part ejection as well as blowoff, cooling and drying applications. EXAIR has engineered Large Super Air Nozzles that put the blowing capability of multiple nozzles into one single air nozzle. Hard-hitting force is measured in pounds, not ounces. All meet OSHA noise level and dead end pressure requirements.

High Force Air Nozzles "Quick Pick" Comparison

	High For	ce Air Nozzles Comparison (sorte	d by compre	ssed air co	onsumpt	ion)			
Model	Material	Description	Inlet	Air Consur 80 PSIG (F	orce	Sound Level	More Details
		-		SCFM	SLPM	Lbs	Grams	dBA	Details
HP1126	Zinc Aluminum alloy	1" High Power Flat Super Air Nozzle	1/8 FNPT	17.5	495	1 [†]	454	82	p. 63
HP1126SS	Stainless Steel - Type 316	1" High Power Flat Super Air Nozzle	1/8 FNPT	17.5	495	1 [†]	454	82	p. 63
HP1002	Brass	High Power Safety Air Nozzle	1/4 FNPT	32	906	1.8*	816	87	p. 64
HP1002SS	Stainless Steel - Type 303	High Power Safety Air Nozzle	1/4 FNPT	32	906	1.8*	816	87	p. 64
1104	ZInc Aluminum alloy	Super Air Nozzle	3/8 FNPT	35	991	1.9*	862	82	p. 64
1104SS	Stainless Steel - Type 316	Super Air Nozzle	3/8 FNPT	35	991	1.9*	862	82	p. 64
1104-PEEK	PEEK (Plastic)	Super Air Nozzle	3/8 FNPT	35	991	1.9*	862	82	p. 64
1105	ZInc Aluminum alloy	Super Air Nozzle	3/8 MNPT	35	991	1.9*	862	82	p. 64
1105SS	Stainless Steel - Type 316	Super Air Nozzle	3/8 MNPT	35	991	1.9*	862	82	p. 64
HP1125	Zinc Aluminum alloy	2" High Power Flat Super Air Nozzle	1/4 FNPT	37	1,039	2.2	998	83	p. 64
HP1125SS	Stainless Steel - Type 316	2" High Power Flat Super Air Nozzle	1/4 FNPT	37	1,039	2.2	998	83	p. 64
1111-4	Zinc Aluminum alloy	Super Air Nozzle Cluster	3/8 FNPT	56	1,585	3.2*	1,451	82	p. 67
100855	Stainless Steel - Type 316	Back Blow Air Nozzle	1 FNPT	57	1,614	NA	NA	89	p. 59
1106	Zinc Aluminum alloy	Super Air Nozzle	1/2 FNPT	60	1,699	3.3*	1,497	87	p. 65
1106SS	Stainless Steel - Type 316	Super Air Nozzle	1/2 FNPT	60	1,699	3.3*	1,497	87	p. 65
1106-PEEK	PEEK (Plastic)	Super Air Nozzle	1/2 FNPT	60	1,699	3.3*	1,497	87	p. 65
1107	Zinc Aluminum alloy	Super Air Nozzle	1/2 MNPT	60	1,699	3.3*	1,497	87	p. 65
1107SS	Stainless Steel - Type 316	Super Air Nozzle	1/2 MNPT	60	1,699	3.3*	1,497	87	p. 65
1112	Zinc Aluminum alloy	Super Air Nozzle	3/4 FNPT	91	2,577	4.5*	2,041	96	p. 65
1112SS	Stainless Steel - Type 316	Super Air Nozzle	3/4 FNPT	91	2,577	4.5*	2,041	96	p. 65
1113	Zinc Aluminum alloy	Super Air Nozzle	3/4 MNPT	91	2,577	4.5*	2,041	96	p. 65
1113SS	Stainless Steel - Type 316	Super Air Nozzle	3/4 MNPT	91	2,577	4.5*	2,041	96	p. 65
1111-7	Zinc Aluminum alloy	Super Air Nozzle Cluster	1/2 FNPT	98	2,773	5.7*	2,585	85	p. 67
1114	Zinc Aluminum alloy	Super Air Nozzle	1 FNPT	135	3,823	6.6*	2,994	99	p. 65
1114SS	Stainless Steel - Type 316	Super Air Nozzle	1 FNPT	135	3,823	6.6*	2,994	99	p. 65
1115	Zinc Aluminum alloy	Super Air Nozzle	1 MNPT	135	3,823	6.6*	2,994	99	p. 65
1115SS	Stainless Steel - Type 316	Super Air Nozzle	1 MNPT	135	3,823	6.6*	2,994	99	p. 65
1111-12	Zinc Aluminum alloy	Super Air Nozzle Cluster	1 FNPT	168	4,754	9.8*	4,445	89	p. 67
1116	Zinc Aluminum alloy	Super Air Nozzle	1-1/4 FNPT	188	5,324	9.4*	4,264	102	p. 66
1117	Zinc Aluminum alloy	Super Air Nozzle	1-1/4 MNPT	188	5,324	9.4*	4,264	102	p. 66
1118	Zinc Aluminum alloy	Super Air Nozzle	1-1/4 FNPT	300	8,495	15*	6,804	106	p. 66
1119	Zinc Aluminum alloy	Super Air Nozzle	1-1/4 MNPT	300	8,495	15*	6,804	106	p. 66
1120	Zinc Aluminum alloy	Super Air Nozzle	1-1/4 FNPT	460	13,026	23*	10,433	109	p. 66
1121	Zinc Aluminum alloy	Super Air Nozzle	1-1/4 MNPT	460	13,026	23*	10,433	109	p. 66

For Air Nozzles with lower force, see page 54.

FNPT = NPT Female

1" High Power Flat Super Air Nozzles™



Model HP1126 1/8 NPT female Material: Zinc Aluminum alloy Model HP1126SS 1/8 NPT female Material: Type 316 Stainless Steel



A 1" High Power Flat Super Air Nozzle is used to tip a part from a chute and on to a conveyor.

Model HP1126 and HP1126SS 1" High Power Flat Super Air Nozzles

EXAIR's 1" High Power Flat Super Air Nozzles produce a flat 1" (25mm) wide airstream with a blowing force of 1 pound. The unique design of this super-efficient nozzle makes it an ideal fit for both tight spaces and tight budgets. It uses EXAIR's patented technology to maximize entrained airflow while reducing noise levels.

Air Consumption		Foi	ce*	Sound Level
SCFM	SLPM	Lbs	Grams	dBA
17.5	495	1	454	82

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR). .025" (0.64mm) shim installed.

Dimensions and Airflow Pattern 200WLOAD Grawings at EXAIR.com 18" 457mm 12" 305mm 1/8 NPT 1/8 NPT

The Model HP1136SS Shim Set for the 1" High Power Flat Super Air Nozzle includes a .020" (0.51mm) and .030" (0.76mm) thick shim. A .025" (0.64mm) shim is installed





^{*} Force measured at 12" (305mm) from target. All sound levels measured at 3 feet (914mm). All measurements taken at 80 PSIG (5.5 BAR).

⁺ Force measured at 12" (305mm) from target

High Force Air Nozzles

High Power Safety Air Nozzles™



Model HP1002 1/4 NPT female Material: Brass

Model HP1002SS 1/4 NPT female Material: Type 303 Stainless Steel

Model HP1002 and HP1002SS High Power Safety Air Nozzles

Provide strong blowing force for applications requiring high thrust and velocity. It uses more compressed air than other air nozzles but is low when compared to typical blow-offs delivering the same force.

Air Consumption		Fo	rce*	Sound Level
SCFM	SLPM	Lbs	Grams	dBA
32	906	1.8	816	87

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR)

Dimensions and Airflow Pattern 18' 457mm 12" 305mm 1.44" 37mm 3' 76mm 1.44"

2" High Power Flat Super Air Nozzles™



Model HP1125 1/4 NPT female Material: Zinc Aluminum alloy Model HP1125SS 1/4 NPT female Material: Type 316 Stainless Steel

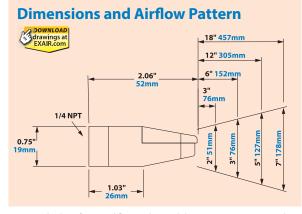
2" High Power Flat Super Air Nozzles EXAIR's 2" High Power Flat Super Air

Model HP1125 and HP1125SS

EXAIR's 2" High Power Flat Super Air Nozzles produce a flat 2" (51mm) wide air-stream with a strong blowing force of 2.2 pounds (998 grams). The adjustable force is more than three times that of ordinary air nozzles. It uses EXAIR's patented† technology to maximize entrained airflow while reducing noise levels.

Air Cons	Air Consumption		orce*	Sound Level
SCFM	SLPM	Lbs	Grams	dBA
37	1.039	2.2	998	83

- Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR). .025" (0.64mm) shim installed.
- † Patent #5402938



Note: For highest force and flow, order Model 900633 .030" (0.76mm) shim.



The Model HP1132SS Shim Set for the 2" High Power Flat Super Air Nozzle includes a .020" (0.51mm) and .030" (0.76mm) thick shim. A .025" (0.64mm) shim is installed.

Large Super Air Nozzles



Model 1104 3/8 NPT female Material: Zinc Aluminum alloy Model 1104SS 3/8 NPT female Material: Type 316 Stainless Steel Model 1104-PEEK 3/8 NPT female Material: PEEK (plastic)



Model 1105 3/8 NPT male Material: Zinc Aluminum alloy Model 1105SS 3/8 NPT male Material: Type 316 Stainless Steel

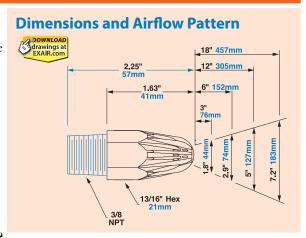
Model 1104, 1104SS, 1104-PEEK, 1105 and 1105SS 3/8 NPT Super Air Nozzles

EXAIR's 3/8 NPT Super Air Nozzles produce 1.9 lbs (862 grams) of strong blowing force that is 2.3 times that of the standard Super Air Nozzle. The protective aerodynamic slots guide the airflow to a single point of convergence for hard-hitting force and dramatic noise reduction over typical blowoffs.

Air Cons	umption	Fo	rce*	Sound Level
SCFM	SLPM	Lbs	Grams	dBA
35	991	1.9	862	82

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR)















High Force Air Nozzles



Large Super Air Nozzles™



Model 1106 1/2 NPT female Material: Zinc Aluminum alloy Model 1106SS 1/2 NPT female Material: Type 316 Stainless Steel Model 1106-PEEK 1/2 NPT female Material: PEEK (Plastic)



Model 1107 1/2 NPT male Material: Zinc Aluminum alloy Model 110755 1/2 NPT male Material: Type 316 Stainless Steel

Model 1106, 1106-PEEK, 1106SS, 1107 and 1107SS 1/2 NPT Super Air Nozzles

EXAIR's 1/2 NPT Super Air Nozzles produce 3.3 lbs (1.5 kg) of blowing force – 4 times that of ordinary nozzles. Air consumption and noise are extremely low compared to that of open pipe or copper tubes.

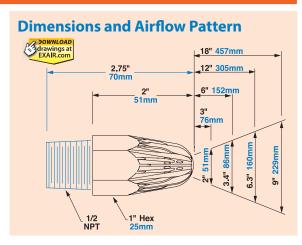
Air Cons	Air Consumption		ce*	Sound Level
SCFM	SLPM	Lbs	Kg	dBA
60	1,699	3.3	1.5	87

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).



PRODUCT







Model 1112 3/4 NPT female Material: Zinc Aluminum alloy Model 1112SS 3/4 NPT female Material: Type 316 Stainless Steel



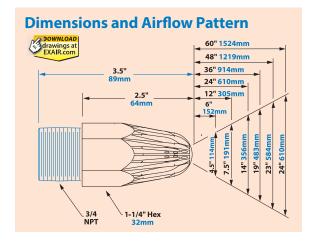
Model 1113 3/4 NPT male Material: Zinc Aluminum alloy Model 1113SS 3/4 NPT male Material: Type 316 Stainless Steel

Model 1112, 1112SS, 1113 and 1113SS 3/4 NPT Super Air Nozzles

EXAIR's Super Air Nozzles are available in larger sizes where extreme force is required. The 3/4 NPT Super Air Nozzles produce 4.5 lbs (2.04 kg) of blowing force – over 5 times that of ordinary nozzles.

Air Cons	onsumption		ce*	Sound Level
SCFM	SLPM	Lbs	Kg	dBA
91	2,577	4.5	2.04	96

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR). OSHA allows 3 hours of exposure per day without hearing protection.





Model 1114 1 NPT female Material: Zinc Aluminum alloy Model 1114SS 1 NPT female Material: Type 316 Stainless Steel



Model 1115 1 NPT male Material: Zinc Aluminum alloy Model 1115SS 1 NPT male Material: Type 316 Stainless Steel

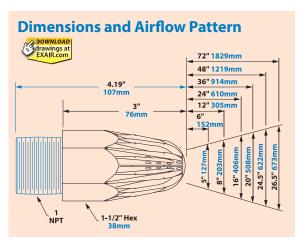
Model 1114, 1114SS, 1115 and 1115SS 1 NPT Super Air Nozzles

EXAIR's 1 NPT Super Air Nozzles optimize entrained airflow across the nozzle surface to minimize the noise level while providing extremely strong blowing force. They produce 6.6 lbs (3.01 kg) of blowing force – over 8 times that of ordinary nozzles.

Air Cons	Air Consumption		ce*	Sound Level
SCFM	SLPM	Lbs	Kg	dBA
135	3,823	6.6	2.99	99

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR) OSHA allows 2 hours of exposure per day without hearing protection.









High Force Air Nozzles

Large Super Air Nozzles™



Model 1116 1-1/4 NPT female Material: Zinc Aluminum alloy



Model 1117 1-1/4 NPT male Material: Zinc Aluminum alloy

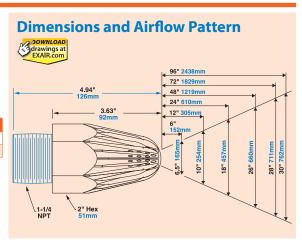
Model 1116 and 1117 1-1/4 NPT Super Air Nozzles

EXAIR's 1-1/4 NPT Super Air Nozzles provide exceptionally strong blowing force. They produce 9.4 lbs (4.25 kg) of blowing force - almost 12 times that of the standard Super Air Nozzle.

Air Cons	Air Consumption		orce*	Sound Level
SCFM	SLPM	Lbs	Kg	dBA
188	5,324	9.4	4.26	102

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR). OSHA allows 1 hour of exposure per day without hearing protection.





Model 1118 1-1/4 NPT female Material: Zinc Aluminum alloy



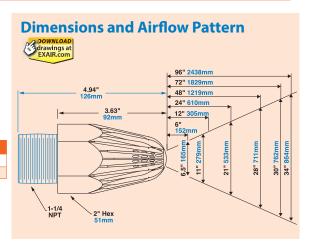
Model 1119 1-1/4 NPT male Material: Zinc Aluminum alloy

Model 1118 and 1119 1-1/4 NPT Super Air Nozzles

These 1-1/4 NPT Super Air Nozzles have larger orifices than the Model 1116 / 1117 that provide additional air velocity. They generate 15 lbs (6.80 kg) of blowing force almost 18 times that of the standard Super Air Nozzle.

Air Consumption		Force*		Sound Level
SCFM	SLPM	Lbs	Kg	dBA
300	8.495	15	6.80	106

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR) OSHA allows 1/2 hour of exposure per day without hearing protection.



Model 1120 1-1/4 NPT female Material: Zinc Aluminum alloy



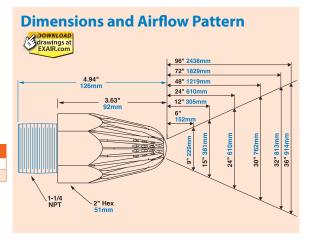
Model 1121 1-1/4 NPT male Material: Zinc Aluminum alloy

Model 1120 and 1121 1-1/4 NPT Super Air Nozzles

These 1-1/4 NPT Super Air Nozzles have the largest orifices that provide additional air velocity, and generate the strongest blowing force of any single air nozzle. They produce 23 lbs (10.43 kg) of blowing force – almost 28 times that of the standard Super Air Nozzle.

Air Consumption		F	orce*	Sound Level
SCFM	SLPM	Lbs	Kg	dBA
460	13.026	23	10.43	109

Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR) OSHA allows 1/2 hour of exposure per day without hearing protection.



















Super Air Nozzle Clusters COMPRE



Super Air Nozzle Clusters

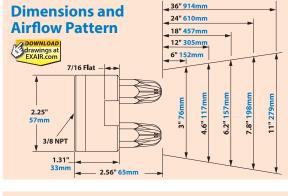
Model 1111-4 Super Air Nozzle Cluster

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Air Consumption		Force*		Sound Level
SCFM	SLPM	Lbs	Kg	dBA
56	1,585	3.2	1.45	82

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR).

Model 1111-4 3/8 NPT female Material: Nozzles - Zinc Aluminum alloy Body - Aluminum

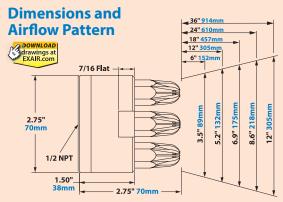




Model 1111-7 Super Air Nozzle Cluster

Air Cons	umption	For	ce*	Sound Level
SCFM	SLPM	Lbs	Kg	dBA
98	2,773	5.7	2.59	85

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR)



Model 1111-7 1/2 NPT female

Material: Nozzles - Zinc Aluminum alloy
Body - Aluminum



Model 1111-12 Super Air Nozzle Cluster

Air Consumption		Force*		Sound Level
SCFM	SLPM	Lbs	Kg	dBA
168	4,754	9.8	4.45	89

* Force measured at 12" (305mm) from target. Sound level measured at 3' (914mm). All measurements taken at 80 PSIG (5.5 BAR)

Dimensions and Airflow Pattern 36" 914mm 24" 610mm 18" 457mm 18" 457mm 12" 305mm 6" 152mm 6" 152mm 7/16 Flat 1 NPT 1 NPT 1 NPT 1 NPT 1 NPT 1 NPT 1 NPT

Model 1111-12 1 NPT female

Material: Nozzles - Zinc Aluminum alloy Body - Aluminum

Flexible Stay Set Hoses™

Adding Flexibility

For applications where frequent repositioning of the standard force Air Nozzles or Jets is required, the Flexible Stay Set Hoses™ are ideal. Simply mount the hose in close proximity to the application and bend it to aim the airstream at the target. Since the hose has "memory", it will not creep or bend. It always keeps the aim until physically moved to the next position.

Two versions of the Stay Set Hoses are available in a variety of lengths. The 1/4 MNPT × 1/4 MNPT hose has a 1/4 NPT male fitting on each end and the 1/4 MNPT × 1/8 FNPT hose has a 1/4 NPT male fitting on one end and 1/8 NPT female fitting on the other.



Flexible Stay Set Hoses bend and keep their aim until physically moved.







Nozzle Accessories

Flexible Stav Set Hoses™ continued

The Air Nozzles shown below can be used with the following Stay Set Hoses (1/4 NPT male fitting on each end):

Model #	Description	Model #	Description
9206	6" (152mm) 1/4 MNPT × 1/4 MNPT	9224	24" (610mm) 1/4 MNPT x 1/4 MNPT
9212	12" (305mm) 1/4 MNPT × 1/4 MNPT	9230	30" (762mm) 1/4 MNPT × 1/4 MNPT
9218	18" (457mm) 1/4 MNPT × 1/4 MNPT	9236	36" (914mm) 1/4 MNPT × 1/4 MNPT

Model 1002 Safety Air Nozzle

Model 1002SS SS Safety Air Nozzle

Model HP1002 High Power Safety Air Nozzle

Model HP1002SS

SS High Power Safety Air Nozzle



Model 1122

2" (51mm) Flat Super Air Nozzle

Model 1122SS

2" (51mm) SS Flat Super Air Nozzle

Model HP1125

2" (51mm) High Power Flat Super Air Nozzle

Model HP1125SS

2" (51mm) SS High Power Flat Super Air Nozzle



Model 1100 Super Air Nozzle

Model 1100SS SS Super Air Nozzle

Model 1100-PEEK PEEK Super Air Nozzle

Model 1006SS

SS Back Blow Air Nozzle

The Air Nozzles and Jets shown below can be used with the following Stay Set Hoses (1/4 NPT male fitting on one end, 1/8 NPT female on the other):

Model#	Description	Model #	Description
9256	6" (152mm) 1/4 MNPT × 1/8 FNPT	9274	24" (610mm) 1/4 MNPT × 1/8 FNPT
9262	12" (305mm) 1/4 MNPT × 1/8 FNPT	9280	30" (762mm) 1/4 MNPT × 1/8 FNPT
9268	18" (457mm) 1/4 MNPT × 1/8 FNPT	9286	36" (914mm) 1/4 MNPT x 1/8 FNPT



Model 1108SS-NPT

Atto Super Air Nozzle



Model 1010SS

SS Micro Air Nozzle Flat Super Air Nozzle

Model 1108-PEEK-NPT Atto PEEK Super Air Nozzle

Model 1109SS-NPT Pico Super Air Nozzle

Model 1109-PEEK-NPT Pico PEEK Super Air Nozzle

Model 1110SS-NPT Nano Super Air Nozzle

Model 1110-PEEK-NPT Nano PEEK Super Air Nozzle



Model 1126 1" (25mm)

Model 1126SS 1" (25mm) SS Flat Super Air Nozzle

Model HP1126 1" (25mm) High Power Flat Super Air Nozzle

Model HP1126SS 1" (25mm) SS High Power Flat Super Air Nozzle



Model 1103 Mini Super Air Nozzle

Model 1103SS SS Mini Super Air Nozzle



Model 1009 Adjustable Air Nozzle

Model 1009SS SS Adjustable Air Nozzle



Model 6013

Model 6013SS SS High Velocity Air Jet



Model 6019 High Velocity Air Jet Adjustable Air Jet

> Model 6019SS SS Adjustable Air Jet



Flexible Stay Set Hoses bend to fit your application and will maintain their orientation until the position needs to be re-adjusted. The airstream can be aimed at precisely the correct spot.

Swivel Fittings

Swivel Fittings can be added to most EXAIR Nozzles by adding a "W" to the Model#.



1122 (2" Flat Super Air Nozzle)

W (Swivel Fitting)

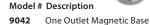
1122W

EXAIR's Swivel Fittings make it easy to adjust the aim of the Air Nozzles and Jets. Correct placement of the blowing angle can help optimize performance, reduce noise levels and improve efficiency. Swivel Fittings permit a movement of 25 degrees from the center axis for a total movement of 50 degrees. Type 303 or 316 Stainless Steel.

	Swivel Fittings					
•	Model #	Description				
	9201	M4 × 0.5mm female × 1/8 MNPT, 316SS				
	9202	M5 \times 0.5mm female \times 1/8 MNPT, 316SS				
	9203	M6 × 0.75mm female × 1/8 MNPT, 316SS				
	9052	1/8 MNPT × 1/8 FNPT, 303SS				
•	9053	1/4 MNPT × 1/4 FNPT, 303SS				
	9068	3/8 MNPT × 3/8 FNPT, 303SS				
	9069	1/2 MNPT × 1/2 FNPT, 303SS				
	9023	3/4 MNPT × 3/4 FNPT, 303SS				
	9204	1 MNPT × 1 FNPT, 303SS				

Magnetic Bases

Magnetic bases are suited to applications where frequent movement of the Air Nozzle or Jet is required. The powerful magnet permits horizontal or vertical mounting that will hold the blowing position of the Stay Set Hose. A shutoff valve is provided that can be used to vary the force and flow.













Blowoff Systems 🦽



Build Your Own System

Now you can put together the best combination that suits your blowoff, cooling, drying or cleaning application. Select the model number that includes your choice of Air Nozzle or Jet, a length of Stay Set Hose, and a one or two outlet magnetic base. Here's how:

- 1. Choose the Air Nozzle or Jet model. **Example:** Model 1122 Super Air Nozzle
- 2. You have the option to include a length of Stay Set Hose. Simply list the model of the Stay Set Hose (shown on previous page) as a dash number after the Air Nozzle or Jet model number.
 - **Example:** A Model 1122 Super Air Nozzle with a Model 9212 12" (305mm) Stay Set Hose is a Model 1122-9212.
- 3. You have the option to include a magnetic base. If you want a One Outlet Magnetic Base, change the second digit of the "added on" dash number to a "3". If you would like the Two Outlet Magnetic Base, change the second digit to a "4". By using a "4", you will receive (2) Air Nozzles or Jets and (2) Stay Set Hoses to attach to the Two Outlet Magnetic Base.

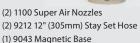
Example: Two Model 1122 Super Air Nozzles with two 12" (305mm) Stay Set Hoses and Two Outlet Magnetic Base is a Model 1122-9412.



A Model 1122-9412 includes two Model 1122 Super Air Nozzles with two 12" (305mm) Stav Set **Hose and Two Outlet** Magnetic Base.









(1) 1103 Mini Super Air Nozzle (1) 9262 12" (305mm) Stay Set Hose (1) 9042 Magnetic Base











Blowoff Kit includes

Model #

1909

- (1) 1102 Mini Super Air Nozzle
- (1) 1009 Adjustable Air Nozzle
- (1) 1100 1/4 NPT Super Air Nozzle
- (1) 1104 3/8 NPT Super Air Nozzle (1) 1106 1/2 NPT Super Air Nozzle
- (1) 1122 2" Flat Super Air Nozzle
- (1) 6013 High Velocity Air Jet
- (1) 6019 Adjustable Air Jet



Model # 1909SS

Stainless Steel Blowoff Kit includes

- (1) 1102SS 1/8 NPT Mini Super Air Nozzle
- (1) 1009SS Adjustable Air Nozzle
- (1) 1100SS 1/4 NPT Super Air Nozzle
- (1) 1104SS 3/8 NPT Super Air Nozzle
- (1) 1106SS 1/2 NPT Super Air Nozzle
- (1) 1010SS 1/8 NPT Micro Air Nozzle
- (1) 1122SS 2" Flat Super Air Nozzle





