

EXAIR®

MANUFACTURING INTELLIGENT COMPRESSED AIR® PRODUCTS SINCE 1983

Air Nozzles

Blowoff Guide

Third Edition



www.exair.com

What can EXAIR do for you?

Broadest and deepest variety of engineered compressed air products to help you conserve energy.

- » The most materials of construction including Aluminum, 303SS, 316SS, PEEK thermoplastic, PVDF.
- » Largest selection of sizes available from Air Knives and Air Nozzles to Vortex Tubes.

The most experienced Application Engineers in the industry.

- » Half of our Application Engineers have been with EXAIR longer than many companies have been in business.
- » All of our Application Engineers have come from manufacturing and technical backgrounds, we can understand your problem and suggest a solution.

Want proof from outside sources?

- » Plant Engineering Product of the Year winner - '11, '10, '09, '08, '06, '04, '03.
- » Plant Engineering Product of the Year finalist - '11, '07, '05, '02, '98, '97, '96.
- » Design News Best New Product finalist - '11, '10.
- » New Equipment Digest King Award winner - 2012.
- » Environmental Protection New Product of the Year - 2011.
- » Product Design Engineering Award finalist - '05, '04, '03, '98.

Products delivered quickly no matter where you are. We can get you a solution fast!

- » EXAIR's cataloged products on the shelf, ready for immediate shipment.
- » Products are available worldwide.

EXAIR.com

Manufacturing Intelligent Compressed Air Since 1983

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EXAIR uses cutting-edge methods to offer you the best possible help:

- » Our full featured website (www.exair.com) offers: price lists, performance data, installation & maintenance guides, CAD drawings, product videos, catalog PDFs, calculators, PowerPoint presentations, FAQs, and more!
- » Mobile website (m.exair.com) offers: contact information, videos, performance data, installation & maintenance guides, FAQs, and more!
- » Live Help Chat online. And you actually chat with someone who is knowledgeable in the field!
- » An active social media presence, including: blog (blog.exair.com), Facebook, Twitter, YouTube, and more!

EXAIR leads the industry in standards compliance.

- » UL, UL-C, CE, RoHS, REACH - In many cases EXAIR was the first and in some cases is still the ONLY company offering standards compliant solutions.

EXAIR provides solutions beyond what you see here.

- » Since we design and manufacture our products in Cincinnati, OH, we also provide custom solutions.



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.**

Air Nozzles

Engineered Air Nozzles reduce noise levels and air costs.

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

What Are Air Nozzles?

A simple solution to reduce excessive air consumption and noise levels on compressed air blowoff operations. EXAIR Air Nozzles 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?

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 meet Occupational Safety and Health Administration (OSHA) maximum dead ended 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 standard cubic feet per minute (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.



EXAIR®

Air Nozzles Advantages

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

Applications

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

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 ended 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 shown in this blowoff guide can be cycled on and off with instantaneous response. EXAIR's EFC 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)

Eliminate Harmful Dead Ended 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 manufactured by EXAIR have been designed for safety. All are safe to be supplied with higher pressure compressed air and meet OSHA standard CFR 1910.242(b).

Air Consumption of Open Tube And Pipe

Pressure Supply			Air Consumption of Homemade Blowoffs					
PSIG	BAR		Copper Tube			Open Pipe		
			1/4"	5/16"	3/8"	1/8"	1/4"	3/8"
80	5.5	SCFM	33	58	87	70	140	240
		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.

Consider the following example where a Model 1102 Mini Super Air Nozzle replaces a 1/8" (3.2mm) open pipe. The compressed air savings is easy to calculate and proves to be dramatic. Payout for Air Nozzles, 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" (3.2mm) 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 4, is 10 SCFM (283 SLPM).
- Compressed air saved = 70 - 10 = 60 SCFM (1,981 - 283 = 1,698 SLPM)
- For this example, the blowoff is continuous. If the duty cycle was 20%, then air saved would be 60 x .2 = 12 SCFM (1,698 x .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.)
- Dollars saved per hour = SCFM saved x 60 minutes x cost/1,000 SCF (SLPM saved x 60 min x cost/10,000 SL)
= 60 x 60 x \$0.25/1,000 (= 1,698 x 60 x \$0.089/10,000)
= **\$0.90/hour**
= **\$0.90/hr. is \$36.00/week and**
= **\$1,872.00/year savings for One nozzle!**

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Fax: (513) 671-3363
Email: techhelp@exair.com

How Air Nozzles Work

Air Nozzles use the coanda effect or small directed nozzles to amplify compressed airflow 25 times or more. As illustrated above, 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 ended pressure requirements, should the nozzle end be blocked.



Atto Super Air Nozzle™

Model 1108SS, 1108-PEEK, 1108SS-NPT, 1108-PEEK-NPT

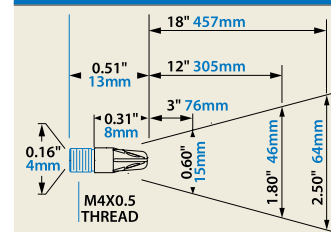
EXAIR's Atto Super Air Nozzle delivers the smallest, most precise blowoff. The air pattern for this tiny nozzle is forceful, measuring 1.0" in diameter when positioned 6" away from the surface. The 58 dBA noise level is a fraction of ordinary air nozzles.



1108SS
Type 316 Stainless Steel
1108-PEEK
PEEK (plastic)
M4 x 0.5

1108SS-NPT
Type 316 Stainless Steel
1108-PEEK-NPT
PEEK (plastic)
1/8 NPT male

Dimensions and Airflow Pattern



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

Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
2.5	71	2.0	56.7	58



Pico Super Air Nozzle™

Model 1109SS, 1109-PEEK, 1109SS-NPT, 1109-PEEK-NPT

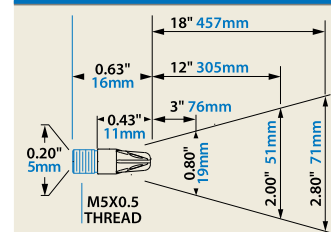
EXAIR's Pico Super Air Nozzle delivers a precise blowoff with a highly focused, forceful blast of airflow. The narrowly focused air pattern measures 1.25" in diameter at 6" away from the surface. The noise level is only 68 dBA.



1109SS
Type 316 Stainless Steel
1109-PEEK
PEEK (plastic)
M5 x 0.5

1109SS-NPT
Type 316 Stainless Steel
1109-PEEK-NPT
PEEK (plastic)
1/8 NPT male

Dimensions and Airflow Pattern



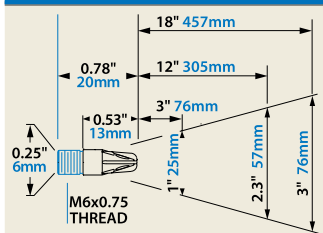
* Force measured at 12" (305mm) from target.
Sound level measured at 3' (914mm)
All measurements taken at 80 PSIG (5.5 BAR)

Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
4.9	139	5.0	141.7	68

Nano Super Air Nozzle™

Model 1110SS, 1110-PEEK, 1110SS-NPT, 1110-PEEK-NPT

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".

**Dimensions and Airflow Pattern**

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

Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
8.3	235	8.1	230	75



1110SS
Type 316 Stainless Steel
1110-PEEK
PEEK (plastic)
M6 x 0.75



1110SS-NPT
Type 316 Stainless Steel
1110-PEEK-NPT
PEEK (plastic)
1/8 NPT male

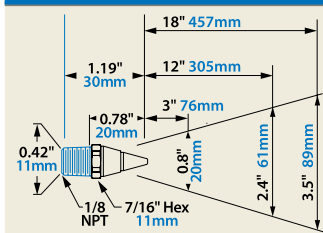
**Micro Air Nozzle™**

Model 1010SS

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.



1010SS
Type 303 Stainless Steel
1/8 NPT male

Dimensions and Airflow Pattern

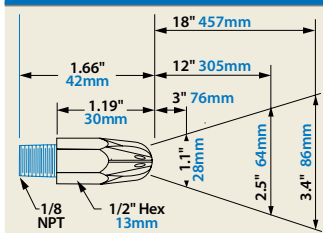
* Force measured at 12" (305mm) from target.
Sound level measured at 3' (914mm)
All measurements taken at 80 PSIG (5.5 BAR)

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

Mini Super Air Nozzle™

Model 1102, 1102-PEEK, 1102SS, 1103, 1103-PEEK, 1103SS

The 1/8 NPT Mini Super Air Nozzle provides 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.

**Dimensions and Airflow Pattern**

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

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



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



1103
Zinc Aluminum
1103-PEEK
PEEK (plastic)
1103SS
Type 316 Stainless Steel
1/8 NPT male

**Super Air Nozzle™**

Model 1100, 1100-PEEK, 1100SS, 1101, 1101-PEEK, 1101SS

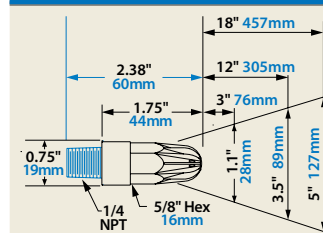
EXAIR's award winning Super Air Nozzles deliver high performance suitable for a wide range of blowoff, drying and cooling applications. The aerodynamic design of this engineered Super Air Nozzle directs the air to a single point of convergence, delivering hard-hitting force. It dramatically reduces air 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 can not be blocked or dead ended.



1100
Zinc Aluminum
1100-PEEK
PEEK (plastic)
1100SS
Type 316 Stainless Steel
1/4 NPT female



1101
Zinc Aluminum
1101-PEEK
PEEK (plastic)
1101SS
Type 316 Stainless Steel
1/4 NPT male

**Dimensions and Airflow Pattern**

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

Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
14	396	13	368	74

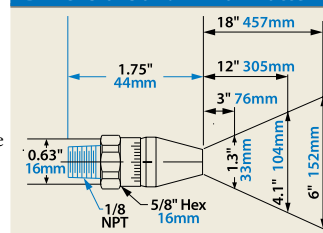
Adjustable Air Nozzles

Model 1009, 1009SS

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.



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

Dimensions and Airflow Pattern

* Force measured at 12" (305mm) from target with a .008" (0.20mm) factory setting.
Sound level measured at 3' (914mm)
All measurements taken at 80 PSIG (5.5 BAR)

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

Selecting The Right Air Nozzle

EXAIR manufactures a wide selection of Air Nozzles, which are divided into two groups. The first group includes Air Nozzles 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 (10,433 grams) where additional reach and force are required.

Selecting an air nozzle is specific to each application. Below are some items to consider.



Air Consumption:	Noise:	Materials:	Force:
Lower compressed air use is important for every company. EXAIR has a wide selection to help you. Our engineered air nozzles can lower air use compared to commercial grade nozzles, open tube or pipes and homemade blowoffs. To get an idea about how much air we can save you, look at the air consumption specified for each nozzle.	Compressed air blowoffs can be loud. The features designed into our air nozzles provide exceptionally quiet airflow exiting the nozzles. If you are trying to lower your environmental noise, EXAIR nozzles can play a role.	Type 303 Stainless Steel - high temperatures and corrosive environments. Type 316 Stainless Steel - high temperatures, corrosive environments, and mechanical wear. Matching existing pipe threads: Open pipes that are already threaded can be made OSHA safe by installing an engineered air nozzle, just match the threads.	The right amount of impact upon your part, surface or application can be the difference between success or failure. If you know the force you need, we have provided that value for you in our performance charts. If you need assistance with your selection, please contact an Application Engineer at 1-800-903-9247. We are here to help!

2" Super Air Nozzle™

Model 1122, 1122SS

EXAIR's 2" (51mm) Super Air Nozzle is a highly efficient, unique flat air nozzle. The 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



1122
Zinc Aluminum
1122SS
Type 316 Stainless Steel
1/4 NPT female

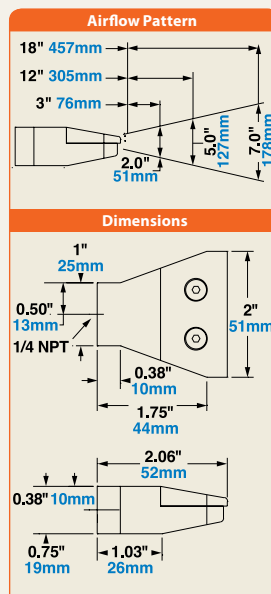
Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
22	622	22	624	77

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

The 2" Super Air Nozzle has 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 thickness.



The Model 1122SS Stainless Steel Shim Set for the 2" Super Air Nozzle (shown) includes a .005" (0.13mm), .010" (0.25mm), and .020" (0.51mm) thick shim. A .015" (0.38mm) shim is installed



Plant Engineering
PRODUCT
of the YEAR
2004

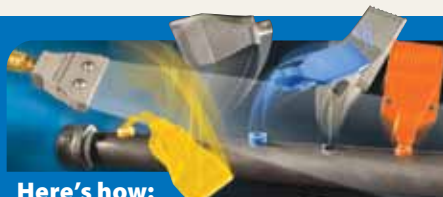
Save Over \$1,200 Per Year By Replacing One Outdated Air Nozzle!

Flat air nozzles by other manufacturers use a series of holes and consume enormous amounts of compressed air. Many break off, are loud and can get you an OSHA fine due to dangerous dead end pressures. Theirs aren't adjustable, making it likely you'll waste compressed air. Replacing one of theirs with the EXAIR 2" Super Air Nozzle can save over \$1,200 per year.

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, \$0.25 is a reasonable average to use.

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
2" Super Air Nozzle	*7.3 - 30 SCFM	62-81	0.5 - 1.9

*Air consumption dependent upon shim size.



Here's how:

- One popular flat nozzle consumes 31 SCFM @ 80 PSIG.
- EXAIR's 2" 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/min.

SCFM saved x 60 minutes x cost/1,000 SCF =
dollars saved per hour.

- In this case, 9.2 SCFM x 60 x \$0.25/1,000 SCF = **13.8 cents per hour.**
- 13.8 cents per hour x 24 hours = **\$3.31 per day.**
- \$3.31 per day x 365 days = **\$1,208.88 saved in one year** (in this 24/7 operation).

EXAIR's 2" Super Air Nozzle can pay for itself in less than 18 days.

How Much Air Does It Really Use?

Digital Flowmeter with USB Data Logger included.

Model 9092-DAT shown



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 using one part 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 can isolate the source and measure the sound level.

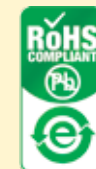
Replacing one drilled pipe or other homemade blowoff with one Super Air Nozzle can amount to a large air savings.

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 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) that blew 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 was reduced to only 60 SCFM when the Super Air Nozzles were installed.



2" High Power Super Air Nozzle™

Model HP1125, HP1125SS

EXAIR's 2" High Power Super Air Nozzles produce a flat 2" (51mm) wide airstream with a strong blowing force of 2.2 pounds. 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.



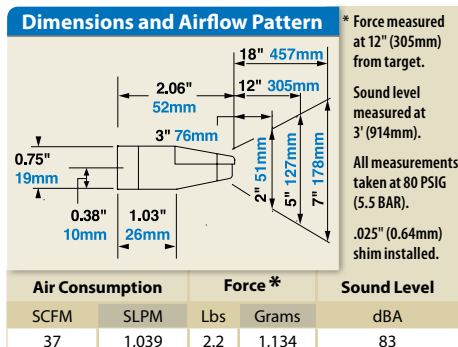
HP1125

Zinc Aluminum

HP1125SS

Type 316 Stainless Steel

1/4 NPT female



3/4 NPT Large Super Air Nozzle™

Model 1104, 1104SS, 1105, 1105SS

EXAIR's 3/8 NPT Super Air Nozzles produce 1.9 lbs 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.



1104

Zinc Aluminum

1104SS

Type 316 Stainless Steel

3/8 NPT female



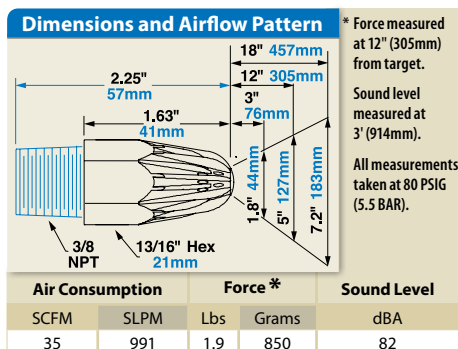
1105

Zinc Aluminum

1105SS

Type 316 Stainless Steel

3/8 NPT male



1-1/4 NPT Large Super Air Nozzle™

Model 1106, 1106SS, 1107, 1107SS

EXAIR's 1/2 NPT Super Air Nozzles produce 3.3 lbs 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.



1106

Zinc Aluminum

1106SS

Type 316 Stainless Steel

1/2 NPT female



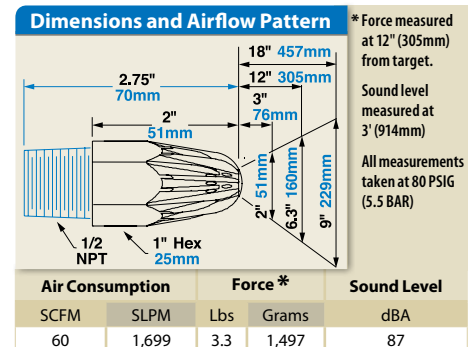
1107

Zinc Aluminum

1107SS

Type 316 Stainless Steel

1/2 NPT male



3/4 NPT Large Super Air Nozzle™

Model 1112, 1112SS, 1113, 1113SS

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



1112

Zinc Aluminum

1112SS

Type 316 Stainless Steel

3/4 NPT female



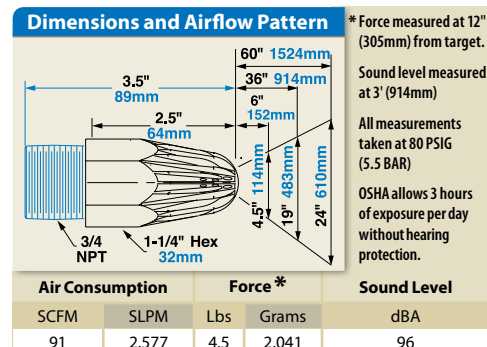
1113

Zinc Aluminum

1113SS

Type 316 Stainless Steel

3/4 NPT male



1 NPT Large Super Air Nozzle™

Model 1114, 1114SS, 1115, 1115SS

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 of blowing force – over 8 times that of ordinary nozzles.



1114

Zinc Aluminum

1114SS

Type 316 Stainless Steel

1 NPT female



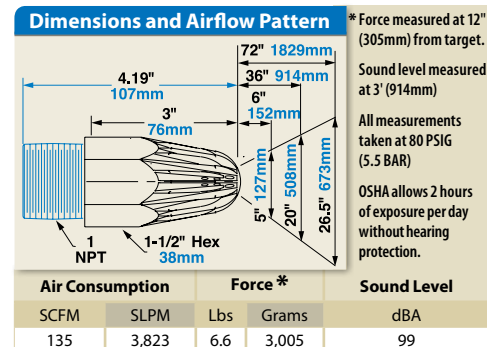
1115

Zinc Aluminum

1115SS

Type 316 Stainless Steel

1 NPT male



DID YOU KNOW?

EXAIR's Swivel Fittings make it easy to adjust the aim of the Air Nozzles. Correct placement of the blowing angle can help optimize performance, reduce noise levels and improve efficiency.



Swivel Fittings

Model #	Description
9201	M4 x 0.5mm female x 1/8 MNPT
9202	M5 x 0.5mm female x 1/8 MNPT
9203	M6 x 0.75mm female x 1/8 MNPT
9052	1/8 MNPT x 1/8 FNPT
9053	1/4 MNPT x 1/4 FNPT
9068	3/8 MNPT x 3/8 FNPT
9069	1/2 MNPT x 1/2 FNPT
9023	3/4 MNPT x 3/4 FNPT

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

1210 (Soft Grip Safety Air Gun)

+ -W (Swivel Fitting)

1210-W

1-1/4 NPT Large Super Air Nozzle™

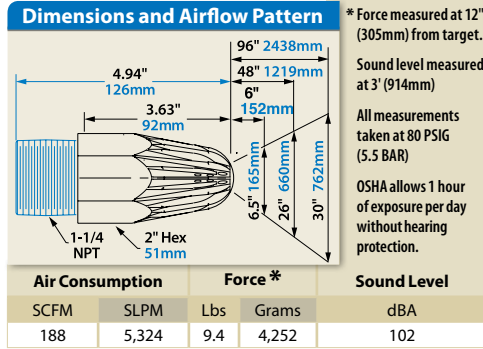
Model 1116, 1117

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



1116
Zinc Aluminum
1-1/4 NPT female

1117
Zinc Aluminum
1-1/4 NPT male



1-1/4 NPT Large Super Air Nozzle™

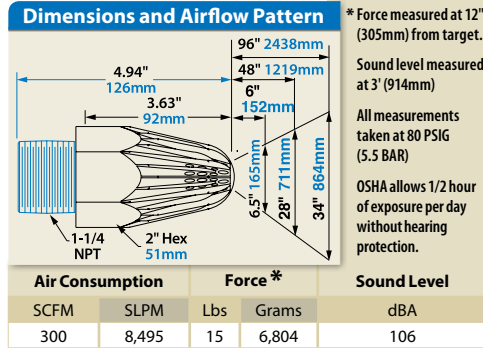
Model 1118, 1119

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 of blowing force – almost 18 times that of the standard Super Air Nozzle.



1118
Zinc Aluminum
1-1/4 NPT female

1119
Zinc Aluminum
1-1/4 NPT male



1-1/4 NPT Large Super Air Nozzle™

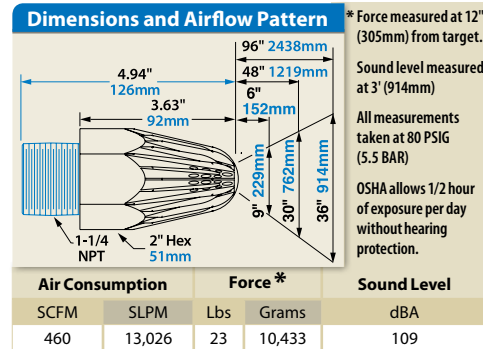
Model 1120, 1121

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 of blowing force – almost 28 times that of the standard Super Air Nozzle.



1120
Zinc Aluminum
1-1/4 NPT female

1121
Zinc Aluminum
1-1/4 NPT male

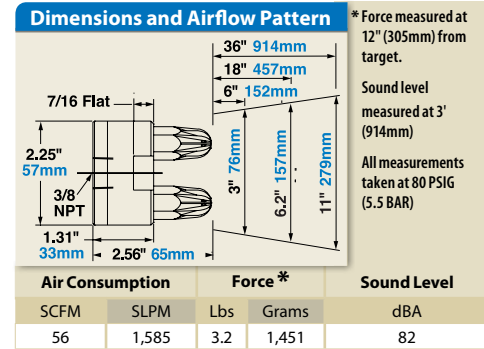


Super Air Nozzle Cluster™

Model 1111-4



1111-4
Zinc Aluminum
3/8 NPT female

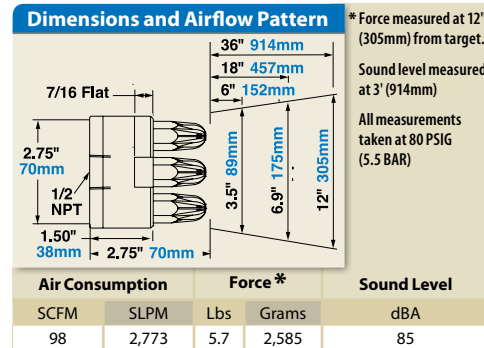


Super Air Nozzle Cluster™

Model 1111-7



1111-7
Zinc Aluminum
1/2 NPT female

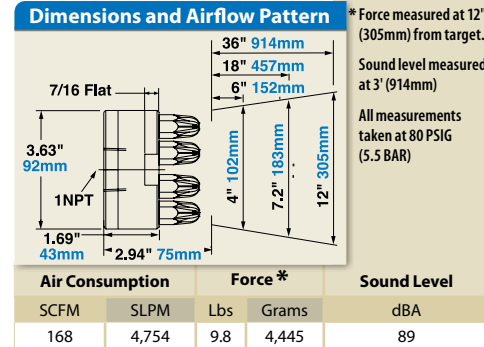


Super Air Nozzle Cluster™

Model 1111-12



1111-12
Zinc Aluminum
1 NPT female



**DID YOU
KNOW?**



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.**

Flexible Stay Set Hoses™

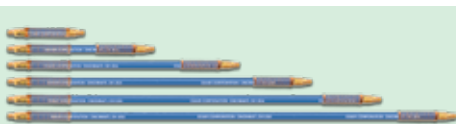
For applications where frequent repositioning of the Air Nozzle is required, the Flexible Stay Set Hoses™ are ideal. Simply mount the hose in close proximity to the application and bend it to aim the airstream at the target. Since the hose has "memory" it will not creep or bend. It always keeps the aim until physically moved to the next position. Two versions of the Stay Set Hose are available in a variety of lengths: 1/4 MNPT x 1/4 MNPT or 1/8 FNPT x 1/4 MNPT.



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



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.



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

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

The Air Nozzles shown (directly left) 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
9256	6" (152mm)	1/4 MNPT x 1/8 FNPT
9262	12" (305mm)	1/4 MNPT x 1/8 FNPT
9268	18" (457mm)	1/4 MNPT x 1/8 FNPT
9274	24" (610mm)	1/4 MNPT x 1/8 FNPT
9280	30" (762mm)	1/4 MNPT x 1/8 FNPT
9286	36" (914mm)	1/4 MNPT x 1/8 FNPT



Model 1122
2" (51mm)
Super Air Nozzle

Model 1122SS
2" (51mm)
SS Super Air Nozzle

Model HP1125
2" (51mm)
High Power Super Air Nozzle

Model HP1125SS
2" (51mm)
SS High Power Super Air Nozzle



Model 1100
Super Air Nozzle

Model 1100SS
SS Super Air Nozzle

Model 1100-PEEK
PEEK Super Air Nozzle



Model 1108SS-NPT
Atto Super Air Nozzle

Model 1109SS-NPT
Pico Super Air Nozzle

Model 1110SS-NPT
Nano Super Air Nozzle



Model 1010SS
SS Micro 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

Blowoff Kits

Model # 1100-9312

Blowoff Kit includes

- (1) 1100 Super Air Nozzle
- (1) 9212 Stay Set Hose
- (1) 9042 Magnetic Base



Model # 1100-9412

Blowoff Kit includes

- (2) 1100 Super Air Nozzle
- (2) 9212 Stay Set Hose
- (1) 9043 Magnetic Base



Model # 1103-9362

Blowoff Kit includes

- (1) 1103 Mini Super Air Nozzle
- (1) 9262 Stay Set Hose
- (1) 9042 Magnetic Base



Model # 1103-9462

Blowoff Kit includes

- (2) 1103 Mini Super Air Nozzle
- (2) 9262 Stay Set Hose
- (1) 9043 Magnetic Base



Model # 1122-9312

Blowoff Kit includes

- (1) 1122 2" Super Air Nozzle
- (1) 9212 Stay Set Hose
- (1) 9042 Magnetic Base



Model # 1122-9412

Blowoff Kit includes

- (2) 1122 2" Super Air Nozzle
- (2) 9212 Stay Set Hose
- (1) 9043 Magnetic Base



DID YOU KNOW ?

EXAIR's Magnetic Bases are suited to applications where frequent movement of the Air Nozzle 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 infinitely vary the force and flow.

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, a length of Stay Set Hose, and a one or two outlet magnetic base. Here's how:

- Choose the Air Nozzle model. **Example:** Model 1100 Super Air Nozzle
- You have the option to include a length of Stay Set Hose. Simply list the model of the Stay Set Hose (shown on page 12) as a dash number after the Air Nozzle model number.
Example: A Model 1100 Super Air Nozzle with a Model 9212 12" (305mm) Stay Set Hose is a Model 1100-9212.
- 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: A Model 1100 Super Air Nozzle with a 12" (305mm) Stay Set Hose and One Outlet Magnetic Base is a Model 1100-9312.



A Model 1100-9312 Super Air Nozzle with a 12" (305mm) Stay Set Hose and One Outlet Magnetic Base.

Magnetic Bases

Model #	Description
9042	One Outlet Magnetic Base
9043	Two Outlet Magnetic Base

Safety Air Guns

"Go Green" by upgrading your blowoff, cooling, and drying operation to EXAIR's Safety Air Guns using award winning Super Air Nozzles!

Why EXAIR Safety Air Guns?

Inexpensive air guns are sold through many catalogs and industrial supply companies. Most have triggers or other parts that break quickly. Their performance is similar to open pipe, where they simply blow a lot of compressed air. In addition to the high air consumption, many produce noise levels that violate OSHA requirements. Some even generate dangerous dead end pressures that can result in serious or fatal injuries if blocked.

EXAIR's Safety Air Guns eliminate these problems. They are durable and comfortable to use. Each model uses an engineered Air Nozzle that provides superior performance by entraining large volumes of surrounding air. Safe operation is assured along with low air consumption and noise levels.



Precision Safety Air Gun is extremely lightweight and the most comfortable to operate during periods of extended use. The small diameter nozzle and extension will fit into tight spaces while providing strong blowing force. Chip Shields for worker safety are also available.



Soft Grip Safety Air Gun has a durable cast aluminum body that is suited for rugged industrial use. The ergonomic design has a large trigger for easy operation and a convenient hanger hook for easy storage. Extension Pipes, Chip Shields and Stay Set Hoses for hard to reach areas are available.



Heavy Duty Safety Air Gun is a powerful air gun with a durable cast aluminum body that is best suited for heavy use in rugged industrial environments. The ergonomic composite rubber grip and wide curved trigger can be used for hours without fatigue. Chip Shields and Extension Pipes for hard to reach areas are available.



Super Blast Safety Air Guns provide the strongest blowing force - ideal for long distance, wide area blowoff, cooling, and drying applications. The comfortable foam rubber handle provides a firm grip. The spring-loaded valve instantly shuts off the air supply if the air gun is dropped.

Safety Air Guns use engineered air nozzles for high performance!

Selecting The Right Safety Air Gun

The pages that follow show four Safety Air Guns. The Soft Grip and Heavy Duty Safety Air Guns are available with a variety of air nozzles (listed in order of force). Stainless steel air nozzles provide more mechanical wear resistance while withstanding corrosion and high temperatures. PEEK Air Nozzles provide protection from accidental impact with the target and outstanding corrosion resistance. Air consumption, force and sound level are shown for all models. Complete details for each Air Nozzle are shown on pages 2-11.



Chip Shields

Protect workers from flying debris and prevent splash back!

Why the EXAIR Chip Shield?

Chip Shields are a durable polycarbonate shield that protects operators from flying debris often associated with blowing chips off machined parts. Chip Shields are also great for keeping coolant from spreading everywhere during drying operations. EXAIR's Chip Shields help meet the requirements of OSHA 1910.242(b) for safe use of compressed air.

Chip Shields are available for EXAIR's Precision Safety Air Gun, Soft Grip Safety Air Gun and Heavy Duty Safety Air Gun. Chip Shields can be used on Safety Air Guns with or without an Aluminum Extension. Chip Shields are not for use on guns that use a Stay Set Hose.

How to Order the EXAIR Chip Shield.

To order a Safety Air Gun with a Chip Shield, simply add a '-CS' to the end of the model number.

Examples:

Model 1210-CS is a Model 1210 Soft Grip Safety Air Gun with a Chip Shield.

Model 1310-12-CS is a Model 1310 Heavy Duty Safety Air Gun with a 12" (305mm) Aluminum Extension Pipe and Chip Shield.

Chip Shields for Safety Air Guns With Aluminium Extensions

Chip Shields are also available to be retrofitted to existing Safety Air Guns. For models that already have an Aluminum Extension in place, the Chip Shield is supplied with a rubber grommet to ensure a tight fit onto the extension.

Chip Shield #	Safety Air Gun Models Covered
901220	1408SS, 1409SS, 1410SS and 1410-PEEK
901221	1280SS, 1290, 1290SS, 1296SS, 1297SS, 1298SS, 1299, 1299SS and 1299-PEEK
901222	1210, 1210SS, 1210-PEEK, 1230, 1230SS, HP1230, HP1230SS, 1310, 1310SS, 1310-PEEK, 1330, 1330SS, HP1330 and HP1330SS
901223	1240, 1250, 1250SS, 1260, 1260SS, 1340, 1350, 1350SS, 1360 and 1360SS

Chip Shields for Safety Air Guns Without Aluminium Extensions

For models that **do not** already have an Aluminum Extension in place, a short extension nipple and the necessary adapter is provided.

Chip Shield Kit #	Safety Air Gun Models Covered
901231	1280SS, 1290, 1290SS, 1296SS, 1297SS, 1298SS, 1299, 1299SS and 1299-PEEK
901232	1210, 1210SS, 1210-PEEK, 1230, 1230SS, HP1230, HP1230SS, 1310, 1310SS, 1310-PEEK, 1330, 1330SS, HP1330 and HP1330SS
901233	1240, 1250, 1250SS, 1340, 1350 and 1350SS
901234	1260, 1260SS, 1360 and 1360SS



EXAIR®



Model 1299-6-CS shown



Model 1360SS-CS shown



Model 1408SS-CS shown

Precision Safety Air Gun

EXAIR's Precision Safety Air Guns are extremely lightweight and have a focused blast of air that provides excellent cleaning capability. The small diameter nozzle and extension easily fit into tight spaces while still packing a strong punch. The Precision Safety Air Gun is available with EXAIR's Atto, Pico or Nano Nozzles, which were engineered to maximize entrainment of ambient air while minimizing air consumption and noise. Safe operation is assured since the airflow that exits the nozzle can not be blocked, as required by OSHA standard 1910.242(b). The 58 to 75 dBA noise level is well below the limits of the OSHA maximum allowable noise exposure standard 29 CFR 1910.95 (a).

Nozzles are available in type 316 Stainless Steel for superior corrosion resistance or in PEEK plastic for non-marring applications and increased chemical resistance. The body is made of high impact, glass reinforced nylon. The inlet is 1/4 NPT. All models are available with an impact resistant polycarbonate Chip Shield.



This Precision Safety Air Gun uses EXAIR's Nano, Pico or Atto Super Air Nozzle which have been engineered to maximize entrainment of room air while minimizing compressed air consumption. These nozzles are available in a rugged Type 316 Stainless Steel or PEEK plastic to provide non-marring protection should the nozzle come in contact with other surfaces.




1408SS	Nozzle: 1108SS Atto Super Air Nozzle			
1408-PEEK	Nozzle: 1108-PEEK Atto Super Air Nozzle PEEK Plastic			
Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
2.5	71	2.0	57	58



1409SS	Nozzle: 1109SS Pico Super Air Nozzle			
1409-PEEK	Nozzle: 1109-PEEK Pico Super Air Nozzle PEEK Plastic			
Air Consumption		Force *		Sound Level
SCFM	SLPM	Ozs	Grams	dBA
4.9	139	5.0	142	68



1410SS	Nozzle: 1110SS Nano Super Air Nozzle				
1410-PEEK	Nozzle: 1110-PEEK Nano Super Air Nozzle PEEK Plastic				
	Air Consumption		Force *		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)



The Precision Safety Air Gun has an ergonomic design to keep the hand in a comfortable position. A hanger is provided for convenient storage or mounting to a tool balancer.

Don't Starve Your Gun!

EXAIR Introduces: Coiled Hoses



Add a Coiled Hose to your: Precision Safety Air Gun [p16], Soft Grip Safety Air Gun [p18], and Heavy Duty Safety Air Gun [p20]

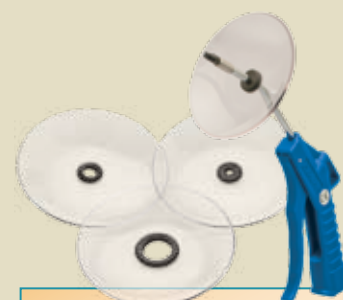
Advantages to using a Coiled Hose:

1. Larger diameter for better air flow.
(See table below)
2. Designed to withstand temperatures between -60°F and +200°F.
3. Efficient.
4. High safety factor.
5. Space saving.
6. Self retracting.
7. Versatile.
8. Spring guards for additional strain relief.
9. Swivel fitted for added ease of installation.

Coiled Hoses

3/8 ID hose 12' length

Model #	Inlet
900750	1/4 NPT Coiled Hose With Swivel
900751	3/8 NPT Coiled Hose With Swivel



Chip Shields can be added to EXAIR's Safety Air Guns by adding a "-CS" to the Model#.

Example:

1410-PEEK (Precision Safety Air Gun with PEEK Nozzle)
 + -CS (Chip Shield)
1410-PEEK-CS

See page 15 for available Chip Shield models

Soft Grip Safety Air Gun

EXAIR's Soft Grip Safety Air Gun is ideal for hours of continuous use without fatigue. The ergonomic design keeps the hand in a comfortable position and incorporates a large trigger that permits operation with one or more fingers. The durable cast aluminum body is suited for rugged industrial use and includes a convenient hanger hook for easy storage. The Soft Grip Safety Air Gun is available with Air Nozzles as shown for quiet, safe and efficient use of the compressed air supply. Aluminum Extension Pipes, Stay Set Hoses, and Chip Shields are available for most models. The inlet is 1/4 NPT.



1210	Nozzle: 1100 Super Air Nozzle
1210SS	Nozzle: 1100SS Super Air Nozzle Stainless Steel
1210-PEEK	Nozzle: 1100-PEEK Super Air Nozzle PEEK
Air Consumption	
SCFM	SLPM
14	396
Force *	
Ozs	Grams
13	368
Sound Level	
dBA	
74	



1299	Nozzle: 1103 Mini Super Air Nozzle
1299SS	Nozzle: 1103SS Mini Super Air Nozzle Stainless Steel
1299-PEEK	Nozzle: 1102-PEEK Super Air Nozzle PEEK
Air Consumption	
SCFM	SLPM
10	283
Force *	
Ozs	Grams
9	255
Sound Level	
dBA	
71	

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



The Soft Grip Safety Air Gun is easily configurable with EXAIR Nozzles, Extension Pipes, Stay Set Hoses, and Chip Shields

Shown here:
1210-PEEK-CS



1280SS	Nozzle: 1010SS Micro Air Nozzle
Air Consumption	
SCFM	SLPM
13	368
Force *	
Ozs	Grams
12	340
Sound Level	
dBA	
80	



1290	Nozzle: 1009 Adjustable Air Nozzle
1290SS	Nozzle: 1009SS Adjustable Air Nozzle Stainless Steel
Air Consumption	
SCFM	SLPM
13	368
Force *	
Ozs	Grams
12	340
Sound Level	
dBA	
79	

1230	Nozzle: 1122 2" Super Air Nozzle
1230SS	Nozzle: 1122SS 2" Super Air Nozzle Stainless Steel
Air Consumption	
SCFM	SLPM
22	622
Force *	
Ozs	Grams
22	624
Sound Level	
dBA	
77	



.015" (0.38mm) shim installed

1250	Nozzle: 1104 3/8 NPT Super Air Nozzle
1250SS	Nozzle: 1104SS 3/8 NPT Super Air Nozzle Stainless Steel
Air Consumption	
SCFM	SLPM
35	991
Force *	
Ozs	Grams
30	850
Sound Level	
dBA	
82	



HP1230	Nozzle: HP1125 2" HP Super Air Nozzle
HP 1230SS	Nozzle: HP1125SS 2" HP Super Air Nozzle Stainless Steel
Air Consumption	
SCFM	SLPM
37	1,039
Force *	
Lbs	Grams
2.15	1,134
Sound Level	
dBA	
83	



.025" (0.64mm) shim installed

1240	Nozzle: 1111-4 Super Air Nozzle Cluster
Air Consumption	
SCFM	SLPM
56	1,585
Force *	
Lbs	Grams
3.2	1,451
Sound Level	
dBA	
82	



1260	Nozzle: 1106 1/2 NPT Super Air Nozzle
1260SS	Nozzle: 1106SS 1/2NPT Super Air Nozzle Stainless Steel
Air Consumption	
SCFM	SLPM
60	1,699
Force *	
Lbs	Grams
3.3	1,497
Sound Level	
dBA	
87	



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

Add An Extension Pipe Or Stay Set Hose

Add an Extension Pipe or Stay Set Hose to your Soft Grip Safety Air Gun. Here's how:

1. Choose an EXAIR Soft Grip Safety Air Gun.
Example: Model 1210
2. To add an Aluminum Extension Pipe, create the model number by adding a dash and number of the appropriate extension length after the model of the Soft Grip Safety Air Gun.
(See table below)
Example: The Model 1210 Soft Grip Safety Air Gun with a 12" (305mm) Aluminum Extension Pipe is a Model 1210-**12**.
3. To add a Stay Set Hose, create the model number by adding a dash and number of the appropriate Stay Set Hose after the model of the Soft Grip Safety Air Gun.
(See table below)
Example: The Model 1210 Safety Air Gun with a 12" (305mm) Stay Set Hose is a Model 1210-**12SSH**.



Aluminum Extension Pipe

All Soft Grip Safety Air Guns with Extension Pipes come fully assembled.

Model Addition #	Length
-6	6" (152mm)
-12	12" (305mm)
-18	18" (457mm)
-24	24" (610mm)
-36	36" (914mm)
-48	48" (1219mm)
-60	60" (1524mm)
-72	72" (1829mm)



Stay Set Hose

All Soft Grip Safety Air Guns with Stay Set Hoses come fully assembled.

Model Addition #	Length
-6SSH	6" (152mm)
-12SSH	12" (305mm)
-18SSH	18" (457mm)
-24SSH	24" (610mm)
-30SSH	30" (762mm)
-36SSH	36" (914mm)

Heavy Duty Safety Air Gun

EXAIR's Heavy Duty Safety Air Gun is a powerful air gun that delivers high force for use in rugged, industrial environments. The 3/8 NPT compressed air inlet increases the compressed air flow available to the Super Air Nozzle, resulting in higher force and flow than other air guns. The durable cast aluminum body includes an ergonomic composite rubber grip and wide curved trigger that makes it comfortable for hours of use without fatigue. Aluminum Extension Pipes and Chip Shields are available.



Model 1350-36 Heavy Duty Safety Air Gun using a Model 1009 Adjustable Air Nozzle and 36" (914mm) Aluminum Extension Pipe cleaning a printing press before a production.



1310 Nozzle: 1100 Super Air Nozzle

1310SS Nozzle: 1100SS Super Air Nozzle
Stainless Steel

1310-PEEK Nozzle: 1100-PEEK Super Air Nozzle
PEEK Plastic

Air Consumption	Force *		Sound Level	
	SCFM	SLPM	Ozs Grams	dBA
14	396	13	368	74



1330 Nozzle: 1122 2" Super Air Nozzle

1330SS Nozzle: 1122SS 2" Super Air Nozzle
Stainless Steel

Air Consumption	Force *		Sound Level	
	SCFM	SLPM	Ozs Grams	dBA
22	622	22	624	77

Flat air pattern.

.015" (0.38mm) shim installed



1350 Nozzle: 1104 3/8 NPT Super Air Nozzle

1350SS Nozzle: 1104SS 3/8 NPT Super Air Nozzle
Stainless Steel

Air Consumption	Force *		Sound Level	
	SCFM	SLPM	Ozs Grams	dBA
35	991	30	850	82

Flat air pattern.

.025" (0.64mm) shim installed

HP1330 Nozzle: HP1125 2" HP Super Air Nozzle

HP 1330SS Nozzle: HP1125SS 2" HP Super Air Nozzle
Stainless Steel

Air Consumption	Force *		Sound Level	
	SCFM	SLPM	Lbs Grams	dBA
37	1,039	2.15	1,134	83

1340SS Nozzle: 1111-4 Super Air Nozzle Cluster

Air Consumption	Force *		Sound Level	
	SCFM	SLPM	Lbs Grams	dBA
56	1,585	3.2	1,451	82

1360 Nozzle: 1106 1/2 NPT Super Air Nozzle

1360SS Nozzle: 1106SS 1/2 NPT Super Air Nozzle
Stainless Steel

Air Consumption	Force *		Sound Level	
	SCFM	SLPM	Lbs Grams	dBA
60	1,699	3.3	1,497	87

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

Add An Extension Pipe

Add an Extension Pipe to your Heavy Duty Safety Air Gun. Here's how:

1. Choose an EXAIR Heavy Duty Safety Air Gun.
Example: Model 1310
2. To add an Aluminum Extension Pipe, create the model number by adding a dash number of the appropriate extension length after the model of the Heavy Duty Safety Air Gun.

(See table below)

Example: The Model 1310 Heavy Duty Safety Air Gun with a 12" (305mm) Aluminum Extension Pipe is a Model 1310-12.



Aluminum Extension Pipe

All Heavy Duty Safety Air Guns with Extension Pipes come fully assembled.

Model Addition #	Length
-6	6" (152mm)
-12	12" (305mm)
-18	18" (457mm)
-24	24" (610mm)
-36	36" (914mm)
-48	48" (1219mm)
-60	60" (1524mm)
-72	72" (1829mm)



Chip Shields can be added to EXAIR's Safety Air Guns by adding a "-CS" to the Model#.

Example:

1310 (Heavy Duty Safety Air Gun)
-CS (Chip Shield)

+ 1310-CS

See page 15 for available Chip Shield models


High Force Safety Air Guns

These hand-held versions of our Super Air Nozzle Clusters and large Super Air Nozzles provide the same strong blowing force with the added convenience of a comfortable soft grip and easy to operate spring-loaded manual valve that automatically shuts off if it is dropped. The Super Blast Safety Air Guns are ideal for long distance, wide area blowoff, cooling and drying applications. All Super Blast Safety Air Guns meet OSHA noise level and pressure requirements.




1213-4 Nozzle: 1111-4 female
3/8 NPT Super Air Nozzle Cluster

Air Consumption		Force *		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
56	1,585	3.2	1,451	82



1213-7 Nozzle: 1111-7 female
1/2 NPT Super Air Nozzle Cluster

Air Consumption		Force *		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
98	2,773	5.7	2,585	85



1213-12 Nozzle: 1111-12 female
1 NPT Super Air Nozzle Cluster

Air Consumption		Force *		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
168	4,754	9.8	4,445	89



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


Super Blast Safety Air Guns provide strong blowing force to clean large areas quickly.



1214 Nozzle: 1112 3/4 NPT female
Large Super Air Nozzle

1214SS Nozzle: 1112SS 3/4 NPT female
Large Super Air Nozzle
Stainless Steel

Air Consumption		Force *		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
91	2,577	4.5	2,041	96




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

1215 Nozzle: 1114 1 NPT female
Large Super Air Nozzle

1215SS Nozzle: 1114SS 1 NPT female
Large Super Air Nozzle
Stainless Steel


Air Consumption		Force **		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
135	3,823	6.6	3,005	99



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


1216 Nozzle: 1116 1-1/4 NPT female
Large Super Air Nozzle

Air Consumption		Force ***		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
188	5,324	9.4	4,252	102




1217 Nozzle: 1118 1-1/4 NPT female
Large Power Super Air Nozzle

Air Consumption		Force ***		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
300	8,495	15	6,804	106



1218 Nozzle: 1120 1-1/4 NPT female
Large Power Super Air Nozzle

Air Consumption		Force ***		Sound Level
SCFM	SLPM	Lbs	Grams	dBA
460	13,026	23	10,433	109



*** Force measured at 12" (305mm) from target.
Sound level measured at 3' (914mm).
All measurements taken at 80 PSIG (5.5 BAR)
Model 1216 OSHA 1 hour total exposure per day without hearing protection
Model 1217 and 1218 OSHA 1/2 hour total exposure per day without hearing protection



Spring loaded and self closing safety valve

Comfortable grip.
Available in longer extensions:
3' and 6' handle lengths

Our most powerful air gun available
with forces up to 9.8 Lbs.



Our most powerful air gun available
with forces up to 23 Lbs.

The **LEADER IN** COMPRESSED AIR NOZZLE TECHNOLOGY

NOW OFFERS YOU AWARD WINNING

LIQUID Atomizing Nozzles



Internal Mix

For pressure fed applications not requiring independent air and liquid control.



Internal mix nozzles mix the liquid and water inside the air cap and produce the finest atomization. Both air and liquid sides are pressure fed. Internal mix nozzles can be used on liquids with a viscosity up to 300 cp.

Siphon Fed

Siphon or gravity fed for non-pressurized applications.



Siphon fed nozzles require no liquid pressure and can be used with gravity fed liquids or lift liquids from a siphon height as much as 36 inches (91 cm). Siphon fed nozzles can be used on liquids with a viscosity up to 200 cp.

External Mix

For pressure fed applications with independent air and liquid control.



External mix nozzles have the highest flow rates and allow the air and liquid flows to be adjusted independently and precisely. External mix nozzles are also the best choice for liquids with a viscosity over 200 cp.

Applications

Washing
Rinsing
Coating
Cooling
Quenching
Wetting (moistening)
Humidification
Dust Control

Advantages

Fully adjustable
Maximizes liquid dispersion
Minimizes liquid consumption
All stainless steel construction
Compact
Minimize air consumption

What Are Atomizing Nozzles?

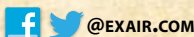
EXAIR's atomizing spray nozzles atomize fluids (most commonly water) in a range of spray patterns for a variety of uses. They combine liquid and compressed air to create a mist of atomized liquid that can be easily adjusted to meet the needs of your application. All models use stainless steel construction for durability and corrosion resistance.



www.exair.com/bg/180.htm

EXAIR

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Cold air from the **Cold Gun** eliminates heat cracking and tool edge burning during sharpening.



Super Air Knives reduce air consumption and noise on your blowoff, cleaning, drying, or cooling applications.



Industrial Vacuums for wet or dry cleanup. Available in 5, 30, 55 or 110 gallon capacities.



Line Vac converts ordinary hose, tube or pipe into a conveying system.



Air Amplifiers make your venting, exhausting, cooling, cleaning or drying applications efficient.



Static Eliminators neutralize static charges to keep surfaces clean, operators safe and processes running smoothly.



Chip Trapper vacuums the old chips and coolant, then pumps out only clean coolant.



Cabinet Cooler® Systems stop electronic controls from overheating and eliminate downtime due to heat, dirt, and moisture.

EXAIR.com

