

EXAIR®

MANUFACTURING INTELLIGENT COMPRESSED AIR® PRODUCTS SINCE 1983



COAT



CLEAN



COOL



CONVEY



CONSERVE

34 CATALOG

NEW

HollowStream™ Liquid Atomizing Cone Nozzles..... pg. 103

TurboBlast® Safety Air Guns..... pg. 115

Intellistat® Ion Air Nozzle..... pg. 143



YOU REQUESTED THIS CATALOG AND PRICE LIST.
PLEASE SEE MAILING LABEL ON BACK COVER.



THANKS FOR CHOOSING...

...EXAIR as the source for your problem solving products. This catalog includes new products, technical data, photos and drawings to help you with your application. Please take a few extra minutes to review the different sections of this catalog. Chances are, you'll find the answers to some of your industrial/production problems.

EXAIR products are designed to improve the overall efficiency of your operations. Our Ultrasonic Leak Detector, the EFC™ Electronic Flow Control for compressed air and Digital Flowmeter are money-saving and energy-conserving tools that can save your company tens of thousands of dollars. The Digital Sound Level Meter can help you increase safety and eliminate costly fines resulting from high noise.

The Best Practices for Compressed Air Systems manual published by the Compressed Air Challenge® recommends Intelligent Compressed Air® products like the Super Air Knife™, Super Air Amplifier™, and the family of Super Air Nozzles™ for energy conservation. Our Intelligent Compressed Air® products are identified with this graphic.



The people at EXAIR do their best to earn your business. When you contact EXAIR, you can expect quality products along with exceptional value and service since the products we manufacture are sold direct to you.

Here are a few ways we make that happen:

Free Expert Technical Help! Our full staff of qualified Application Engineers is here to help you with your application. When you call our toll free number, live chat, tweet, fax or e-mail us, you'll get help right away from someone who understands the product and your application.

Great support! Would you like to read our blog posts regarding new applications, to use energy cost calculators to see how much your company can save, or to receive Twitter alerts for up to the minute information? Do you need a CAD drawing of an EXAIR product, a copy of a lost installation sheet or want to place an order after hours? Our secure web site lets you do all that and more!

Special Products Just For You! Do you have an application for a product that isn't shown in our catalog? Need an EXAIR product in another size, an odd length or different material? We manufacture many specials as shown throughout this catalog. Just let us know what you have in mind.

Fast Delivery! The products shown in this catalog are in stock and in most cases, will ship the same day you order.

For 25 years running, 99.9% of our orders shipped on time!

We will continue to do everything possible to see that you are satisfied with EXAIR. We appreciate your interest in our products and look forward to working with you.

Sincerely,

Bryan Peters, President

P.S. There's no risk to try our products. In addition to our five year warranty, we extend the following Unconditional Guarantee to all our U.S. and Canadian customers:



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.



Compressed Air Challenge is a registered trademark of Compressed Air Challenge, Inc.

EXAIR is the leader in standards compliance



Stay up to date by visiting our website and take advantage of the information and services we didn't have room to display in this catalog.

EXAIR.com®

The digital home of Intelligent Compressed Air® products for industry



Where you can

- **Chat live** with our problem solving, technical expert Application Engineers
- **Watch product videos** to learn more about the features and benefits of our engineered products
- Quickly **order online** with a purchase order or credit card (US & Canada)
- **Access product presentation slides** you can use to educate others
- **Find International Distributors** all across the world



Access our Knowledge Base to

- **Download 3D models** and CAD drawings in multiple formats to place into your drawings
- **Calculate air savings and ROI** to see how quickly EXAIR products will pay off
- Search our **Case Study Library & Applications database** and become familiar with how our products solve problems
- **Use our product FAQ's** for quick access to our most common questions
- Learn about our free **Efficiency Lab** service and use it to **determine air and money savings** you can achieve when installing EXAIR engineered solutions
- Collect compressed air data and pipe sizing recommendations
- **Find** Flow, Force and Heat conversions



Visit our PDF library and download

- Electronic files of the **entire catalog** or individual sections
- **Installation and Maintenance Guides** on every EXAIR product
- Our current **price list** to have all product prices in one convenient location
- EXAIR's **Air Nozzle Blowoff Guide** to see the details on our enormous selection of sizes, materials and performance options



Follow our blog for 5 new entries a week and learn

- Details and installations of widely varied applications
- The methodology and results of critical mathematical formulas which help determine money savings, air savings, performance benefits and more
- New product releases before they reach our catalog or website
- More about EXAIR, our team and community involvement
- **Go to** blog.exair.com



Make social connections

- Watch **over 90 videos** on EXAIR's YouTube Channel and see product features and benefits, applications, Tips & Tricks, How-to, our team members, or be entertained by Professor Penurious!
- **Follow our Company on Twitter @EXAIR** or our Application Engineers and learn more about promotions, updates on manufacturing, engineering and international industry perspective.



@EXAIR_BF



@EXAIR_BW



@EXAIR_EK



@EXAIR_JB



@EXAIR_JS



@EXAIR_NR



@EXAIR_RB



@EXAIR_TD

- **Connect with us on Facebook** at facebook.com/exair or follow us on Instagram.

Not on a PC? Our website is mobile friendly



6 EXAIR Optimization

Minimize compressed air use and detect wasteful leaks

6 Steps to Optimization.....	6
Electronic Flow Control.....	7
Digital Flowmeter.....	10
Digital Flowmeter with wireless capability.....	11
Digital Sound Level Meter.....	17
Ultrasonic Leak Detector.....	18



Air Knives

Blowoff, clean, dry and cool with less noise and air consumption

Super Air Knife.....	20
Compare Blowoffs.....	23
Explanation of Materials.....	26
Universal Air Knife Mounting System.....	29
Plumbing Kits.....	29
Standard Air Knife.....	33
Full-Flow Air Knife.....	36



Air Wipes

Blowoff, dry, clean and cool pipe, cable, extruded shapes and hose

Super Air Wipes.....	38
Standard Air Wipes.....	42



Air Amplifiers

Vent, exhaust, cool, dry and clean - with no moving parts

Super Air Amplifiers.....	46
Adjustable Air Amplifiers.....	50



Air Nozzles and Jets

Reduce noise levels and air costs on blowoff operations

Air Nozzles.....	52
Air Nozzle Comparison Chart.....	54
Super Air Nozzles.....	55
Flat Super Air Nozzles.....	57
Super Air Scraper.....	57
Back Blow Air Nozzles.....	59
Safety Air Nozzles.....	60
Air Jets.....	61
High Force Air Nozzles.....	63
High Force Air Nozzle Comparison Chart.....	63
High Force Flat Super Air Nozzles.....	63
High Force Super Air Nozzles.....	64
Super Air Nozzle Clusters.....	67
Stay Set Hoses.....	67
Swivel Fittings.....	68
Blowoff Systems.....	69



Air Atomizing Nozzles

All stainless steel construction for durability and corrosion resistance

1/8 NPT Atomizing Nozzles.....	71
Internal Mix Narrow Angle Round.....	71
Internal Mix Wide Angle Round.....	72
Internal Mix Flat Fan.....	73
External Mix Narrow Angle Flat Fan.....	74
Siphon Fed Round.....	75
Siphon Fed Flat Fan.....	76
1/4 NPT Atomizing Nozzles.....	77
Internal Mix Narrow Angle Round.....	77
Internal Mix Wide Angle Round.....	78
Internal Mix Flat Fan.....	79
Internal Mix Deflected Flat Fan.....	80
Internal Mix 360° Hollow Circular.....	80
External Mix Round.....	81
External Mix Narrow Angle Flat Fan.....	82
External Mix Wide Angle Flat Fan.....	83
Siphon Fed Round.....	84
Siphon Fed Flat Fan.....	85
1/2 NPT Atomizing Nozzles.....	86
Internal Mix Narrow Angle Round.....	86
Internal Mix Wide Angle Round.....	87
Internal Mix Flat Fan.....	88
Internal Mix 360° Hollow Circular.....	89
External Mix Narrow Angle Flat Fan.....	90
Siphon Fed Round.....	91



No Drip Air Atomizing Nozzles

Eliminate drips to conserve valuable liquids and improve product finishes.

1/8 NPT No Drip Atomizing Nozzles.....	93
No Drip Internal Mix Narrow Angle Round.....	93
No Drip Internal Mix Wide Angle Round.....	93
No Drip Internal Mix Flat Fan.....	94
No Drip External Mix Narrow Angle Flat Fan.....	95
No Drip Siphon Fed Round.....	96
No Drip Siphon Fed Flat Fan.....	96
1/4 NPT No Drip Atomizing Nozzles.....	93
No Drip Internal Mix Narrow Angle Round.....	93
No Drip Internal Mix Wide Angle Round.....	93
No Drip Internal Mix Flat Fan.....	94
No Drip Internal Mix Deflected Flat Fan.....	94
No Drip Internal Mix 360° Hollow Circular.....	94
No Drip External Mix Round.....	95
No Drip External Mix Narrow Angle Flat Fan.....	95
No Drip External Mix Wide Angle Flat Fan.....	95
No Drip Siphon Fed Round.....	96
No Drip Siphon Fed Flat Fan.....	96
1/2 NPT No Drip Atomizing Nozzles.....	93
No Drip Internal Mix Narrow Angle Round.....	93
No Drip Internal Mix Wide Angle Round.....	93
No Drip Internal Mix Flat Fan.....	94
No Drip Internal Mix 360° Hollow Circular.....	94
No Drip External Mix Narrow Angle Flat Fan.....	95
No Drip Siphon Fed Round.....	96
Droplet Size/Spray Angle Information.....	97



Liquid Atomizing Spray Nozzles

Stainless-steel nozzles to atomize pressured liquids. No air required.

FullStream Cone Nozzles.....	99
HollowStream Cone Nozzles.....	102

104



Safety Air Guns

Safety air guns use engineered air nozzles for high performance

Chip Shields.....	105
VariBlast® Precision Safety Air Guns.....	106
VariBlast® Compact Safety Air Guns.....	107
Soft Grip Safety Air Guns.....	109
Soft Grip Super Air Scraper.....	112
Heavy Duty Safety Air Guns.....	113
Back Blow Safety Air Guns.....	114
NEW TurboBlast® Safety Air Guns.....	115
Super Blast Safety Air Guns.....	117

119



Gen4® Static Eliminator

Eliminate static electricity, dust and shock hazard

Gen4® Super Ion Air Knife.....	121
Static Meter.....	123
Gen4® Standard Ion Air Knife.....	127
Gen4® Ionizing Bars.....	129
Gen4® Super Ion Air Wipes.....	131
Gen4® Ion Air Cannon.....	133
Gen4® Ion Air Gun.....	135
Gen4® Ion Air Jet/Gen4 Stay Set Ion Air Jet.....	137
Gen4® Ionizing Point.....	139
Gen4® Power Supplies.....	140
Intellistat® Ion Air Gun.....	141
NEW Intellistat® Ion Air Nozzle.....	143

145



E-Vac® Vacuum Generators

Vacuums for lifting, clamping, mounting and placement

How to Build an E-Vac System.....	146
In-Line.....	147
Adjustable.....	150
Vacuum Cups.....	152

156



Air Operated Conveyors

Convey parts, materials and waste- with no moving parts

Line Vac.....	156
Threaded Line Vac.....	162
Heavy Duty Line Vac.....	165
Sanitary Flange Line Vac.....	167
Light Duty Line Vac.....	169

171



Industrial Housekeeping

Reliable vacuums for chip removal, liquid transfer and cleaning

EasySwitch® Wet-Dry Vac.....	171
Reversible Drum Vac.....	173
High Lift Reversible Drum Vac.....	175
Chip Trapper.....	177
High Lift Chip Trapper.....	179
Chip Vac.....	181
Heavy Duty Dry Vac.....	183
Heavy Duty HEPA Vac.....	185
Vac-u-Gun.....	187

189



Vortex Tubes & Spot Cooling

Cold air for industrial spot cooling problems

Vortex Tubes.....	189
Adjustable Spot Cooler.....	197
Mini Cooler.....	200

201



Cold Gun Aircoolant Systems

Cool machining operations with clean, cold air

205



Cabinet Cooler® Systems

Cool and purge NEMA 12, 4 and 4X electrical control panels

How it Works.....	206
Selecting the Right Model.....	206
Special Cabinet Coolers.....	207
Calculating Heat Load.....	209
Cabinet Cooler Sizing Guide.....	210
NEMA 12 Models.....	212
NEMA 4 Models.....	213
NEMA 4X Models.....	214
Cabinet Cooler System Accessories.....	215
Hazardous Location Cabinet Coolers.....	216

218



Accessories

Mufflers, filters, regulators, valves, swivel fittings and more

Filters.....	218
Regulators.....	219
Silencing Mufflers.....	220
Valves, Swivels, Thermostats.....	222
Magnetic Bases, Stay Sets, Hoses.....	223
Air Hoses.....	223
Fittings.....	224
Receiver Tank.....	224

ORDER BY
2 PM
SHIPS SAME DAY

Catalog item orders received before 2 pm EDT/EST are generally shipped from Cincinnati, Ohio on the same day. You can expect delivery within 1-4 days depending on your location.

Terms and Conditions (U.S. and Canada Only)

Terms: Net 30 days upon credit approval, Visa, MasterCard, Discover and American Express.



ICC (International Chamber of Commerce)
INCOTERM 2010:

Delivery

EX WORKS (EXAIR Corporation, 11510 Goldcoast Dr., Cincinnati, Ohio 45249, USA.)

All cataloged products are shipped from stock, via U.P.S. within 24 hours after receipt of order. Priority shipment is available upon request.

Ordering:

Call 1-800-903-9247 or +1-513-671-3322 Worldwide 7:00 a.m. to 4:00 p.m. ET (Mon. - Fri.)

Fax toll free 1-866-329-3924 or

Worldwide +1-513-671-336

E-mail: orders@exair.com

Secure website: www.exair.com

Remit to address (payments only):

EXAIR Corporation Location 00766, Cincinnati, Ohio 45264-0766

Tax:

Sales and use tax, where applicable, are not included.

Technical Assistance:

Please call our Application Engineering Department,

1-800-90-EXAIR (1-800-903-9247)

e-mail at techelp@exair.com.



Warranty:

*5 Year Warranty applies to compressed air products only.
A 1 Year Warranty applies to all accessories and electrically powered products.

5 Year "Built To Last" Warranty against defects in workmanship and materials on all compressed air products*. Defective products must be returned freight prepaid for repair or replacement at our option. This warranty applies under conditions of normal use, but does not apply to defects that result from intentional damage, negligence, unreasonable use, wear or exposure.

EXAIR's Unconditional Guarantee:

Extends to all U.S. and Canadian customers and includes invoiced U.P.S. Ground Service shipping charges. Products returned after the 30 day guarantee period are subject to a 15% restocking charge. Products must be returned freight prepaid.



Copyright Restrictions:

The content of the EXAIR Catalog, including all photos, graphics, drawings and arrangements are proprietary to EXAIR Corporation and are protected by the United States and international copyright and trademark laws. You are authorized to use the contents of the EXAIR Catalog for personal use or as it relates to your role as a current or prospective customer of EXAIR. The contents of this catalog may not be copied or modified for any type of publication or distribution without the prior written consent of EXAIR Corporation. The content of the EXAIR Catalog is the intellectual property solely of the EXAIR Corporation with no rights transferred to other parties. No part of this catalog may be reproduced for any commercial purposes without the express authorization in writing by the EXAIR Corporation.

Trademarks:

"EXAIR.com", "EXAIR", "Cabinet Cooler", "E-Vac", "Intelligent Compressed Air", "VariBlast", "Gen4", "Intellistar", "EasySwitch", "TurboBlast" and "Compressed Air Intelligence" are registered trademarks of the EXAIR Corporation. The EXAIR logo, product names, designs and descriptive phrases are trademarked by EXAIR Corporation. These trademarks may not be used without prior written permission of the EXAIR Corporation.

11510 Goldcoast Dr.
Cincinnati, Ohio 45249-1621
Phone Number: (513) 671-3322
Fax Number: (513) 671-3363
E-mail: techelp@exair.com
Web Site: www.exair.com

EXAIRLogger, EPC, Digital Flowmeter, Digital Sound Level Meter, High Power Cold Gun, Super Air Knife, Standard Air Knife, Full-Flow Air Knife, Air Cannon, Super Air Amplifier, Adjustable Air Amplifier, Super Air Nozzle, Micro Air Nozzle, High Power Safety Air Nozzle, Stay Set Hose, Soft Grip Super Air Scraper, Super Air Scraper, Super Blast Safety Air Gun, Super Air Wipe, Heavy Duty Line Vac, Light Duty Line Vac, Sanitary Flange Line Vac, Threaded Line Vac, FullStream, FloodStream, HollowStream, Standard Air Wipe, Super Ion Air Knife, Standard Ion Air Knife, Super Ion Air Wipe, Ion Air Cannon, Ion Air Gun, Ion Air Jet, Ionizing Point, Stay Set Ion Air Jet, Line Vac, Chip Vac, Heavy Duty Dry Vac, Heavy Duty HEPA Vac, Reversible Drum Vac, High Lift Reversible Drum Vac, Chip Trapper, High Lift Chip Trapper, Vac-u-Gun, Deep Hole Vac-u-Gun, Air Disk, Air Stik, Mini Cooler, Cold Gun Aircoolant System, and ETC are trademarks of EXAIR Corporation.



Intelligent Compressed Air® products are identified throughout this catalog that can help your plant save tens of thousands of dollars over the course of a single year. *The Best Practice for Compressed Air Systems* manual published by the Compressed Air Challenge® recommends products like the Super Air Knife®, Super Air Amplifier®, and the family of Super Air Nozzles® for energy conservation. Many of the products shown offer unique ways to solve common industrial problems using compressed air. Compressed Air Challenge is a registered trademark of Compressed Air Challenge, Inc.



EXAIR has partnered with Energy Star, a voluntary program of the U.S. Department of Energy and the Environmental Protection Agency. Energy Star offers energy efficient solutions to help save money while protecting the environment for future generations. EXAIR has implemented improved energy management practices and technologies throughout our facility, including energy efficient lighting, HVAC systems, and electronic thermostats. EXAIR's participation in this program underscores our commitment to conserving energy.

EXAIR products are subject to ongoing development. Specifications are subject to change without notice.

Some products in this catalog are covered by U.S. Patent #5402938, #8153001, #8268179, #D903,817 and #9156045, and others may be U.S. Patent Pending.

EU Regd. Des. No.00770318-0001 ☐ Mexico No.60723; Canada No.194141

Copyright ©2022 EXAIR Corporation. All Rights Reserved.



EXAIR®

EFFICIENCYLAB



EXAIR's Intelligent Compressed Air® products vs Your current installation

How does the Efficiency Lab work?

Our Efficiency Lab service begins with receiving a sample of the product(s) you currently use for your application. One of our qualified Application Engineers will use calibrated testing equipment to compare the performance of your existing product(s) to an EXAIR engineered solution. These tests will determine air consumption, noise levels and force. The test results will then be published in a comprehensive report, which includes a cost savings analysis, and be provided to you. For most applications, EXAIR products can help you improve application efficiency AND typically pay for themselves in a matter of weeks.

How can I get a product tested for free?

To participate in our FREE Efficiency Lab please contact one of our Application Engineers and get the details about sending us your product(s).

You may reach an Application Engineer by phone at (800) 903-9247 or (513) 671-3322. You can send an email to lab@exair.com or visit our website and take advantage of our live help at www.exair.com.

EXAIR's FREE Efficiency Lab service determines how much air and dollar savings you will achieve by installing one of our Intelligent Compressed Air products.

Unable to send your product to EXAIR's Efficiency Lab?

If it is not possible to send us your product, we have a one page Product Efficiency Survey on our website (exair.com/labdoc) where you can provide us the details about a current inefficient compressed air application. Fill in the information and click submit. You will hear from one of our Application Engineers within three business days.

Okay, so what is the fine print?

This service is available to all customers in the U.S. and Canada only. Some restrictions may apply.

What about confidentiality?

Yes, EXAIR will keep the results of our Efficiency Lab test and report confidential unless given permission to share that information with others.

Products must be shipped to EXAIR freight prepaid. EXAIR will pay the return shipping via UPS ground.

Air Atomizing Spray Nozzles

All stainless steel construction for durability and corrosion resistance!

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. Atomizing spray nozzles are available in 1/8 NPT, 1/4 NPT and 1/2 NPT sizes.



A Model AN1010SS Internal Mix Narrow Angle Round Atomizing Nozzle is used to mark strips of steel before they leave the mill.

EXAIR's atomizing nozzles are available in 3 basic families:

Internal Mix:

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

External Mix:

External mix nozzles have the highest flow rates and allow the air and liquid flows to be adjusted independently. These nozzles are best where precise liquid flow is needed. External mix nozzles can be used on liquids with a viscosity above 300 cP. Both air and liquid sides are pressure fed.

Siphon Fed:

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



A Model 5R1010SS is used to supply a cooling mist for a drilling operation.

Why Atomizing Nozzles?

With EXAIR's atomizing nozzles, you can coat, cool, treat and paint a variety of products. Used with water, they are an efficient way to cool hot items in your automated process. These nozzles are also an excellent choice for dust mitigation.

Sound levels for the individual Atomizing Spray Nozzles are not provided. The fluid, pressure, surfaces being treated and surrounding enclosures used in conjunction with the Atomizing Spray Nozzle to form the system will determine the actual sound levels (which can vary greatly). Max temperature is 400°F (204°C) for Atomizing Spray Nozzles. All atomizing nozzles are CE compliant.



(2) Model EB1030SS atomizing nozzles are used to give a final sanitary rinse prior to labeling wine bottles.

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
- Versatile
- Interchangeable liquid and air caps
- Minimizes air consumption
- Fine atomization



Mounting Brackets are available - Model 901786 for 1/8 NPT, Model 901318 for 1/4 NPT and Model 901556 for 1/2 NPT atomizing nozzles.

For more information about droplet size and spray angle, see page 97.

Spray Nozzles

Air Atomizing Spray Nozzles

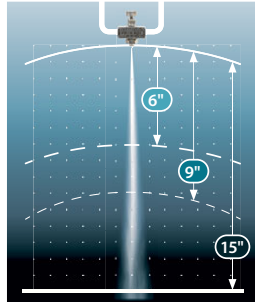


Internal Mix Narrow Angle Round Pattern - 1/8 NPT

Model AN8010SS, AN8020SS, AN8030SS, AN8040SS and AN8050SS

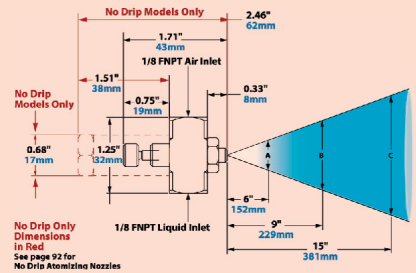
1/8 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, they can apply a heavy coat up close or send a very fine mist over 16 feet away! They are often used for precision application of lubricants during assembly, or marking items as they move through an assembly line. Narrow angle round pattern atomizing nozzles are capable of delivering the most liquid of any of our 1/8 NPT internal mix atomizing nozzles.

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



The modifiable spray pattern can generate a heavy or precision engineered mist for distances over 16 feet!

Dimensions and Flow Pattern



For more information about droplet size and spray angle, see page 97.

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air PSI/BAR	Liquid PSI/BAR	Pressure	Width			Max. Depth/feet/m																				
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	in	cm																			
AN8010SS	10	0.7	0.97	3.7	0.25	7.1	14	10	1.83	6.9	0.32	9.1	24	17	1.97	7.5	0.52	14.7	32	22	2.23	8.4	0.67	19.0	50	34	2.63	10.0	0.98	27.7	10	0.7	10	0.7	3	8	5	9	4.5	11	3.5	11
	12	0.8	0.80	3.0	0.32	9.1	18	12	1.5	5.7	0.39	11.0	28	19	1.7	6.4	0.59	16.7	36	25	1.97	7.5	0.74	20.9	54	37	2.37	9.0	1.02	28.9	18	1.2	20	1.4	3	8	4	10	5	13	5	15
	14	1.0	0.60	2.3	0.4	11.3	22	15	1.27	4.8	0.52	14.7	32	22	1.37	5.2	0.71	20.1	40	28	1.67	6.3	0.84	23.8	58	40	2.1	7.9	1.12	31.7	32	2.2	30	2.1	3	8	4	10	5.5	14	7	21
AN8020SS	10	—	—	—	—	—	26	18	0.73	2.8	0.67	19.0	38	26	0.8	3.0	0.93	26.3	48	33	1.00	3.8	1.09	30.9	66	46	1.7	6.4	1.21	34.3	48	33	4.0	2.8	3	8	4.5	11	6	15	8	24
	12	0.8	1.33	5.0	0.43	12.2	18	12	1.83	6.9	0.71	20.1	24	17	2.27	8.6	0.91	25.8	30	21	2.63	10.0	1.05	29.7	40	28	3.33	12.6	1.31	37.1	10	0.7	10	0.7	2	5	3	8	4	10	5	15
	14	1.0	1.03	3.9	0.6	17.0	22	15	1.63	6.2	0.84	23.8	32	22	1.9	7.2	1.09	30.9	34	23	2.47	9.3	1.12	31.7	46	32	3.13	11.8	1.4	39.6	20	1.4	20	1.4	2.5	6	3.5	9	4.5	11	7	21
AN8030SS	10	—	—	—	—	—	—	—	—	—	—	40	28	1.57	5.9	1.45	41.0	48	33	1.87	7.1	1.53	43.3	70	48	2.2	8.3	2.2	65.3	70	48	6.0	4.1	3.5	9	4.5	11	6.5	17	10	30	
	12	0.8	2.20	8.3	0.47	13.3	22	15	2.9	11.0	0.75	21.2	30	21	3.7	14.0	0.96	27.2	36	25	4.47	16.9	1.09	30.9	48	33	6.3	23.8	1.28	36.2	12	0.8	10	0.7	2	5	3	8	4.5	11	6	1.8
	16	1.1	1.60	6.1	0.56	15.9	26	18	2.43	9.2	0.82	23.2	34	23	3.2	12.1	1.00	28.3	40	28	4.17	15.8	1.12	31.7	52	36	5.87	22.2	1.3	36.8	26	1.8	20	1.4	2.5	6	3.5	9	5	13	6	1.8
AN8040SS	24	1.7	0.67	2.5	0.95	26.9	38	26	1.13	4.3	1.35	38.2	46	32	1.8	6.8	1.45	41.0	52	36	2.67	10.1	1.49	42.2	64	44	4.56	17.3	1.59	45.0	52	36	4.0	2.8	3	8	4	10	6	15	11	3.4
	28	1.9	0.47	1.8	1.07	30.3	42	29	0.77	2.9	1.53	43.3	52	36	1.4	5.3	1.76	49.8	60	41	2.00	7.6	1.87	52.9	70	48	3.14	14.8	1.84	52.1	70	48	6.0	4.1	4	10	5	13	6.5	17	11	3.4
	16	1.1	4.87	9.6	2.54	21.9	28	19	6.00	25.0	3.64	103.0	44	28	7.83	29.7	4.0	132.9	48	33	9.33	35.3	5.40	153	65	45	12.0	45.4	6.70	190	16	1.1	10	0.7	2.5	6	3	8	4	10	3	3.4
AN8050SS	20	1.4	3.57	11.0	2.92	82.6	32	22	5.60	21.2	3.98	112.6	44	30	6.87	26.0	4.99	141.3	55	38	8.17	30.9	5.98	169	75	52	10.8	41.0	7.57	214	32	2.2	20	1.4	3	8	4	10	5.5	14	11	3.4
	26	1.8	1.87	3.16	3.60	111.8	40	30	2.43	9.2	5.16	146.1	60	41	2.80	10.6	6.43	182.0	80	55	2.53	9.6	8.58	243	100	62	8.17	30.9	9.05	256	80	55	4.0	2.8	3	8	4	10	5.5	14	13	4.0
	30	2.1	1.03	1.54	4.06	115.0	50	34	1.33	5.0	5.92	167.7	70	48	1.23	4.7	7.78	220.4	90	62	1.27	4.8	9.61	277	100	69	6.13	23.2	9.90	280	100	69	6.0	4.1	3.5	9	4.5	11	6	15	15	4.6
AN8050SS	12	0.8	7.60	28.8	1.76	49.8	20	14	11.63	44.0	23.7	67.1	30	21	13.5	51.3	34.2	96.8	38	26	15.84	58.9	39.9	113	54	37	18.9	71.7	51.7	146	12	0.8	10	0.7	3	8	4	10	6	15	9	2.7
	14	1.0	6.10	23.1	1.97	55.8	22	15	10.53	39.9	28.0	80.7	34	23	11.37	43.0	39.2	111.0	42	29	14.1	53.3	54.0	127	60	41	17.2	65.1	5.83	165	22	1.5	20	1.4	3	8	4	10	6	15	11	3.4
	16	1.1	4.80	18.2	2.18	61.7	24	17	9.43	35.7	31.1	88.0	38	26	9.07	34.3	4.4	124.6	46	32	12.3	46.7	4.95	140	65	45	15.7	59.4	6.45	183	38	26	30	2.1	3	8	4	10	6	15	14	4.9
18	—	—	—	—	—	32	22	5.07	19.2	41.9	118.6	46	32	5.6	21.2	5.52	156.3	57	39	7.7	29.0	6.24	177	85	59	8.13	30.8	8.58	243	85	59	6.0	4.1	4	10	5	13	6.5	17	16	4.9	

Air Atomizing Spray Nozzles



Siphon Fed Round Pattern - 1/8 NPT



Model: SR8010SS
Material: Type 303 Stainless Steel



Model: SR8020SS
Material: Type 303 Stainless Steel



Model: SR8030SS
Material: Type 303 Stainless Steel



Model: SR8040SS
Material: Type 303 Stainless Steel

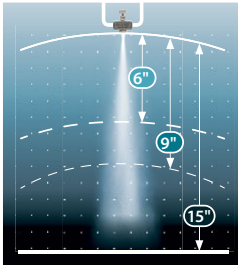


Model: SR8050SS
Material: Type 303 Stainless Steel

Model SR8010SS, SR8020SS, SR8030SS, SR8040SS and SR8050SS

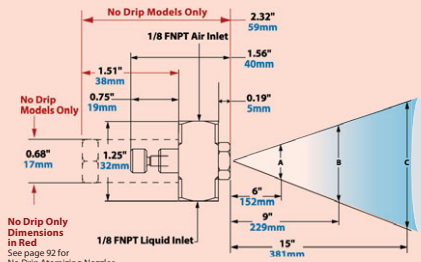
1/8 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed round pattern nozzles provide the most liquid flow of any siphon fed nozzle.

Siphon or gravity fed for non-pressurized applications.



The amount of liquid applied by the Siphon Fed atomizing nozzles varies depending on valve or inlet pressures.

Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 97.

Spray Nozzles

Liquid Flow in GPH/LPH

Spray Dimensions at 8" (20cm) Siphon Height

Model	Liquid Flow in GPH/LPH															Spray Dimensions at 8" (20cm) Siphon Height														
	Air				Gravity Head					Siphon Height						Air		Width			Max. Depth feet/m									
	Pressure PSI/BAR	SCFM/ SLM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A in cm		B in cm	C in cm							
SR8010SS	10	0.7	0.48	1.36	0.35	1.3	0.33	1.2	0.27	1.0	0.21	0.8	0.21	0.8	0.17	0.7	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5		
	20	1.4	0.68	1.92	0.41	1.6	0.40	1.5	0.43	1.6	0.27	1.0	0.26	1.0	0.24	0.9	0.23	0.9	—	20	1.4	1.5	4	2	5	3	8	1.5	0.5	
	40	2.8	1.35	3.83	0.49	1.9	0.48	1.8	0.46	1.7	0.35	1.3	0.32	1.2	0.30	1.1	0.26	1.0	0.23	0.9	40	2.8	1.5	4	2	5	3	8	2	0.6
	60	4.1	2.12	5.99	0.53	2.0	0.52	2.0	0.50	1.9	0.40	1.5	0.42	1.6	0.33	1.3	0.28	1.1	0.25	0.9	60	4.1	1.5	4	2	5	3	8	3	0.9
SR8020SS	10	0.7	0.59	1.67	0.61	2.3	0.53	2.0	0.48	1.8	0.35	1.3	0.33	1.2	0.24	0.9	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5		
	20	1.4	1.16	3.28	0.73	2.8	0.7	2.6	0.66	2.5	0.58	2.2	0.55	2.1	0.4	1.5	0.35	1.3	—	20	1.4	1.5	4	2	5	3	8	2	0.6	
	40	2.8	1.9	5.38	0.88	3.3	0.8	3.0	0.76	2.9	0.66	2.5	0.59	2.2	0.53	2.0	0.45	1.7	0.38	1.4	40	2.78	1.5	4	2	5	3	8	3	0.9
	60	4.1	2.62	7.42	0.96	3.6	0.92	3.5	0.82	3.1	0.75	2.8	0.68	2.6	0.6	2.3	0.52	2.0	0.46	1.7	60	4.1	1.5	4	2	5	3	8	4	1.2
SR8030SS	10	0.7	0.55	1.56	1.31	5.0	1.22	4.6	0.96	3.6	0.76	2.9	0.61	2.3	0.53	2.0	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5		
	20	1.4	1.06	3.00	1.66	6.3	1.59	6.0	1.23	4.7	1.07	4.1	1.13	4.3	0.92	3.5	0.76	2.9	—	20	1.4	1.5	4	2	5	3	8	3	0.9	
	40	2.8	1.86	5.27	1.89	7.2	1.8	6.8	1.53	5.8	1.34	5.1	1.49	5.6	1.19	4.5	1.05	4.0	0.82	3.1	40	2.78	1.5	4	2	5	3	8	4	1.2
	60	4.1	2.45	6.94	1.98	7.5	1.86	7.0	1.58	6.0	1.46	5.5	1.74	6.6	1.34	5.1	1.29	4.9	1.04	3.9	60	4.1	1.5	4	2	5	3	8	5	1.5
SR8040SS	10	0.7	1.40	3.95	2.65	10.0	2.43	9.2	2.12	8.0	1.22	4.6	1.00	3.8	—	—	—	—	10	0.7	1.5	4	2	5	3	8	3	0.9		
	20	1.4	2.03	5.75	3.01	11.4	2.86	10.8	2.53	9.6	1.78	6.7	1.57	6.0	1.37	5.2	—	—	—	20	1.4	1.5	4	2	5	3	8	4	1.2	
	40	2.8	3.17	8.98	3.58	13.6	3.55	13.4	3.29	12.0	2.54	9.6	2.48	9.4	2.18	8.2	1.98	7.5	1.22	4.6	40	2.78	1.5	4	2	5	3	8	4	1.2
	60	4.1	4.42	1.25	4.09	15.5	3.99	15.1	3.75	14.0	3.03	11.5	2.98	11.3	2.85	11.0	2.59	9.8	2.11	8.0	60	4.1	1.5	4	2	5	3	8	5	1.5
SR8050SS	10	0.7	1.84	5.21	1.84	7.0	4.16	15.7	3.83	14.0	3.28	12.4	3.1	11.7	2.45	9.3	0.74	2.8	—	10	0.7	1.5	4	2	5	3	8	5	1.5	
	20	1.4	2.93	8.29	2.93	11.1	5.53	20.9	3.7	14.0	4.12	15.6	3.51	13.3	3.98	15.0	3.35	12.7	1.8	6.8	40	2.8	1.5	4	2	5	3	8	7	2.1
	40	2.8	4.02	1.14	4.02	15.2	5.83	22.1	4.39	17.0	4.6	17.4	4.31	16.3	5.08	19.0	4.16	15.7	2.93	11.1	60	4.1	1.5	4	2	5	3	8	9	2.7
	60	4.1	5.12	1.45	5.12	19.4	5.92	24.4	5.56	21.0	5.5	20.8	5.09	19.3	5.33	20.0	5.18	19.6	3.84	14.5	80	5.5	1.5	4	2	5	3	8	10	3.0

Siphon Fed Flat Fan Pattern - 1/8 NPT



Model: SF8010SS
Material: Type 303 Stainless Steel



Model: SF8020SS
Material: Type 303 Stainless Steel

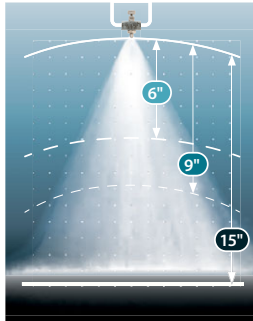


Model: SF8030SS
Material: Type 303 Stainless Steel

Model SF8010SS, SF8020SS and SF8030SS

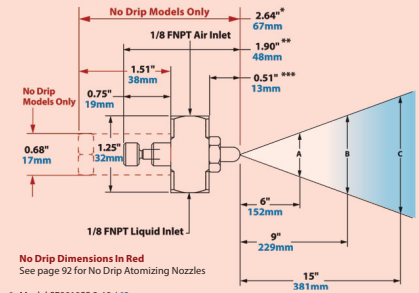
1/8 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed flat fan pattern nozzles are the best choice where liquid is needed over a broad band such as a moving assembly line.

Siphon or gravity fed for non-pressurized applications.



1/8 NPT Siphon Fed Flat Fan atomizing nozzles apply a light coating of liquid over a wide band.

Dimensions and Airflow Pattern



No Drip Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

* Model SF8010SS 2.48 / 63mm
** Model SF8010SS 1.74 / 44mm
*** Model SF8010SS 0.36 / 9mm

For more information about droplet size and spray angle, see page 97.

Model	Liquid Flow in GPH/LPH															Spray Dimensions at 8" (20cm) Siphon Height														
	Air				Gravity Head					Siphon Height						Air		Width				Max. Depth feet/m								
	Pressure PSI/BAR	SCFM/ SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A in	B cm		C in	cm						
SF8010SS	10	0.7	1.07	30.3	0.32	1.2	0.30	1.1	0.25	1.0	0.24	0.9	0.23	0.9	0.18	0.7	0.17	0.7	0.14	0.5	10	0.7	7	18	9	23	12	30	2	0.6
	20	1.4	1.31	37.1	0.36	1.4	0.35	1.3	0.31	1.2	0.31	1.2	0.30	1.1	0.25	0.9	0.23	0.9	0.19	0.7	20	1.4	7	18	9	23	12	30	2	0.6
	60	4.1	1.69	47.9	0.43	1.6	0.40	1.5	0.35	1.3	0.34	1.3	0.32	1.2	0.27	1.0	0.26	1.0	0.24	0.9	30	2.1	7	18	9	23	12	30	2	0.6
SF8020SS	20	1.4	1.81	51.3	1.52	5.8	1.33	5.0	1.10	4.2	0.80	0.9	0.76	2.9	0.71	2.7	0.50	1.9	0.36	1.4	20	1.4	8	20	9	23	12	30	2	0.6
	30	2.1	2.30	65.1	1.18	4.5	1.16	4.4	1.06	4.0	0.85	3.2	0.79	3.0	0.77	2.9	0.52	2.0	0.44	1.7	30	2.1	9	23	11	28	13	33	2	0.6
	40	2.8	2.83	80.2	1.01	3.8	0.90	3.4	0.83	3.1	0.70	2.6	0.67	2.5	0.63	2.4	0.42	1.6	0.27	1.0	40	2.8	9	23	10	25	13	33	2	0.6
SF8030SS	50	3.4	3.34	94.6	0.85	3.2	0.71	2.7	0.59	2.2	0.48	1.8	0.41	1.6	0.51	1.9	0.32	1.2	—	—	50	3.4	7	18	8	20	9	23	3	0.9
	20	1.4	1.78	50.3	1.45	5.5	1.40	5.3	1.38	5.2	0.94	3.6	0.90	3.4	0.77	2.9	0.72	2.7	0.61	2.3	20	1.4	7	18	8	20	9.5	24	2	0.6
	30	2.1	2.24	63.5	1.16	4.4	1.12	4.2	1.10	4.2	1.00	3.8	0.98	3.7	0.86	3.2	0.81	3.1	0.69	2.6	30	2.1	7	18	8	20	9.5	24	2	0.6
SF8030SS	40	2.8	2.75	77.8	0.98	3.7	0.96	3.6	0.85	3.2	0.90	3.4	0.87	3.3	0.79	3.0	0.66	2.5	0.52	2.0	40	2.8	7	18	8	20	9.5	24	3	0.9
	50	3.4	3.00	85.0	0.83	3.2	0.79	3.0	0.70	2.6	0.75	2.8	0.69	2.6	0.66	2.5	0.51	1.9	0.44	1.7	50	3.4	7	18	8	20	9.5	24	3	0.9

Air Atomizing Spray Nozzles



Internal Mix Narrow Angle Round Pattern - 1/4 NPT



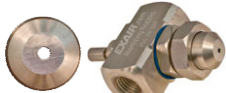
Model AN1010SS, AN1020SS, AN1030SS, and AN1040SS

1/4 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, they can apply a heavy coat up close or send a very fine mist over 30 feet away! They are often used for precision application of lubricants during assembly, or marking items as they move through an assembly line. Narrow angle round pattern atomizing nozzles are capable of delivering the most liquid of any of our 1/4 NPT internal mix atomizing nozzles.

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



Model: AN1010SS
Material: Type 303 Stainless Steel



Model: AN1020SS
Material: Type 303 Stainless Steel



Model: AN1030SS
Material: Type 303 Stainless Steel

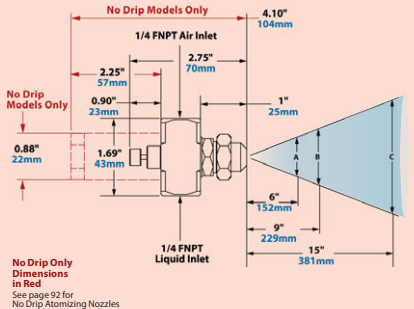


Model: AN1040SS
Material: Type 303 Stainless Steel



The amount of liquid applied can be greatly varied by adjusting the valve or inlet pressures.

Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 97.

Model	10 PSI/0.7 BAR Liquid					20 PSI/1.4 BAR Liquid					30 PSI/2.1 BAR Liquid					40 PSI/2.8 BAR Liquid					60 PSI/4.1 BAR Liquid					Spray Dimensions																
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	Liquid PSI/BAR	A	B	C	Max. Depth																		
	in	cm	ft ³ /min	in	cm	ft ³ /min	in	cm	ft ³ /min	in	cm	ft ³ /min	in	cm	ft ³ /min	in	cm	ft ³ /min	in	in	cm	in	cm	ft																		
AN1010SS	10	0.7	1.4	5.3	0.6	17	18	1.2	1.8	6.8	0.9	25	24	1.7	2.3	8.7	1.0	28	30	2.1	2.7	10.2	1.2	34	40	2.8	3.3	12.5	1.5	42	12	0.8	1.0	0.7	2.3	6	3.3	8	5.0	13	6	1.8
	12	0.8	1.2	4.5	0.7	20	22	1.5	1.6	6.1	1.0	28	32	2.2	1.9	7.2	1.3	37	38	2.6	2.3	8.7	1.5	42	52	3.6	2.8	10.6	1.9	54	20	1.4	2.0	1.4	2.8	7	3.8	10	6.0	15	8	2.4
	14	1.0	1.1	4.2	0.8	23	24	1.7	1.5	5.7	1.1	31	36	2.5	1.6	6.1	1.5	42	44	3.0	1.9	7.2	1.7	48	62	4.3	2.3	8.7	2.4	68	42	2.9	4.0	2.8	3.5	9	4.5	11	6.5	17	10	3.0
AN1020SS	—	—	—	—	—	—	26	1.8	1.3	4.9	1.2	34	40	2.8	1.3	4.9	1.7	48	48	3.3	1.7	6.4	2.0	57	70	4.8	1.9	7.2	2.8	79	58	4.0	6.0	4.1	4.0	10	5.0	13	7.0	18	11	3.4
	16	1.1	3.7	14.0	2.8	79	28	1.9	5.2	19.7	4.0	113	40	2.8	6.0	22.7	5.2	147	48	3.3	7.0	26.5	5.9	167	65	4.5	9.9	37.5	7.0	198	24	1.7	1.0	0.7	2.5	6	3.5	9	5.5	14	11	3.4
	20	1.4	2.5	9.5	3.4	96	36	2.5	2.7	10.2	5.1	144	48	3.3	3.8	14.4	6.4	181	65	4.5	3.6	13.6	8.1	229	80	5.5	6.6	25.0	8.6	244	38	2.6	2.0	1.4	2.8	7	4.0	10	6.5	17	12	3.7
AN1030SS	24	1.7	1.4	5.3	4.0	113	40	2.8	1.7	6.4	5.7	161	55	3.8	2.1	7.9	7.3	207	75	5.2	1.4	5.3	9.8	277	90	6.2	4.5	17.0	10.1	286	65	4.5	4.0	2.8	3.5	9	5.0	13	7.0	18	14	4.3
	28	1.9	0.6	2.3	4.6	130	44	3.0	0.8	3.0	6.4	181	60	4.1	1.1	4.2	8.1	229	80	5.5	0.8	3.0	10.2	289	100	6.9	2.4	9.1	11.3	320	85	5.9	6.0	4.1	4.0	10	5.5	14	7.5	19	18	5.5
	12	0.8	7.8	29.5	1.9	54	20	1.4	12.9	48.8	2.5	71	30	2.1	15.1	57.2	3.4	96	38	2.6	18.0	68.1	4.1	116	54	3.7	23.0	87.1	5.3	150	14	1.0	1.0	0.7	2.8	7	4.0	15	11.5	17	10	3.0
AN1040SS	14	1.0	6.0	22.7	2.2	62	24	1.7	9.8	37.1	3.0	85	38	2.6	9.4	35.6	4.5	127	46	3.2	13.1	49.6	5.1	144	65	4.5	17.1	64.7	6.7	190	40	2.8	3.0	2.1	3.8	10	5.5	14	7.0	18	19	5.8
	16	1.1	4.4	16.7	2.6	74	28	1.9	7.0	26.5	3.6	102	42	2.9	7.0	26.5	5.1	144	52	3.6	9.6	36.3	6.0	170	75	5.2	12.3	46.6	8.0	227	50	3.4	4.0	2.8	4.0	10	6.0	15	8.0	20	22	6.7
	18	1.2	3.3	12.5	2.9	82	32	2.2	4.1	15.5	4.4	125	46	3.2	5.0	18.9	5.9	167	56	3.9	7.3	27.6	6.6	187	85	5.9	7.3	27.6	9.6	272	70	4.8	6.0	4.1	4.0	10	6.0	15	8.0	20	26	7.9
AN1040SS	14	1.0	6.3	23.8	3.5	99	20	1.4	24.0	90.8	3.0	85	28	1.9	33.0	125	3.4	96	32	2.2	46.5	176	2.8	79	42	2.9	66.0	250	2.7	76	40	1.0	1.0	0.7	3.0	8	4.5	11	6.5	17	17	5.2
	16	1.1	3.0	11.4	4.2	119	24	1.7	13.0	49.2	4.2	119	32	2.2	24.0	90.8	4.6	130	40	2.8	30.0	114	5.1	144	50	3.4	54.0	204	4.3	122	24	1.7	2.0	1.4	3.5	9	6.0	15	7.5	19	21	6.4
	—	—	—	—	—	—	26	1.8	9.0	34.1	4.9	139	36	2.5	12.5	47.3	5.9	167	46	3.2	16.5	62.5	6.8	193	58	4.0	39.0	148	6.6	187	44	3.0	4.0	2.8	4.5	11	7.0	18	8.5	22	30	9.1
—	—	—	—	—	—	28	1.9	5.5	20.8	5.6	159	50	3.4	10.3	39.0	8.2	232	70	4.8	15.8	6.0	10.2	289	64	4.4	6.0	4.1	5.0	13	7.0	18	9.0	23	10	20	23	30	31	10.1			

Spray Nozzles

Internal Mix Wide Angle Round Pattern - 1/4 NPT



Model AW1010SS, AW1020SS, AW1030SS, and AW1040SS

EXAIR's 1/4 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. They can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles are also perfect for applying a coating to parts packed in large containers, for example, misting a container of stamped steel parts with oil to prevent oxidation during shipment.

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



Model: AW1010SS
Material: Type 303 Stainless Steel



Model: AW1020SS
Material: Type 303 Stainless Steel



Model: AW1030SS
Material: Type 303 Stainless Steel

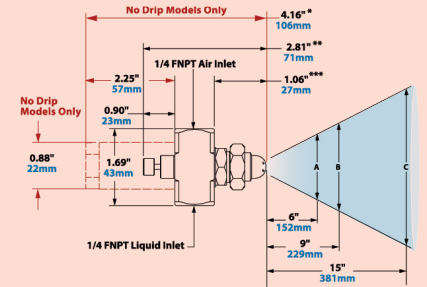


Model: AW1040SS
Material: Type 303 Stainless Steel



A Model AW1030SS is used to keep dust down during charcoal briquette production.

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

*Model AW2105SS: 4.03" / 102mm
**Model AW1010SS: 2.68" / 68mm
***Model AW1055S: 0.93" / 24mm

For more information about droplet size and spray angle, see page 92.

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																												
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	A	B	C	Max. Depth feet/m																								
AW1010SS	8	0.6	1.8	6.8	0.3	8	14	1.0	2.4	9.1	0.4	11	22	1.5	2.7	10.2	0.5	14	30	2.1	3.0	11.4	0.7	20	44	3.0	3.5	13.2	0.9	25	10	0.7	10	0.7	7	18	9	23	11	28	15	36	6	1.8
	10	0.7	1.6	6.1	0.4	11	18	1.2	2.1	7.9	0.5	14	30	2.1	2.3	8.7	0.7	20	38	2.6	2.6	9.8	0.8	23	55	3.8	3.1	11.7	1.1	31	34	2.3	3.0	2.1	11	25	12	30	16	41	8	2.4		
	12	0.8	1.5	5.7	0.4	11	22	1.5	1.9	7.2	0.6	17	36	2.5	1.9	7.2	0.8	23	46	3.2	2.1	7.9	1.0	28	65	4.5	2.5	9.5	1.3	37	42	2.9	4.0	2.8	10	25	12	30	16	41	9	2.7		
	14	1.0	1.3	4.9	0.5	14	26	1.8	1.6	6.1	0.7	20	40	2.8	1.6	6.1	0.9	25	50	3.4	1.9	7.2	1.1	31	75	5.2	2.1	7.9	1.5	42	60	4.1	6.0	4.1	10	25	12	30	16	41	12	3.2		
AW1020SS	12	0.8	2.8	10.6	1.7	48	22	1.5	4.0	15.1	2.3	65	30	2.1	5.4	20.4	2.5	71	38	2.6	6.4	24.2	2.9	82	54	3.7	8.5	32.2	3.5	99	12	18	10	0.7	10	25	13	33	17	43	9	2.7		
	14	1.0	1.6	6.1	2.0	57	24	1.7	3.1	11.7	2.5	71	34	2.3	3.8	14.4	3.2	91	44	3.0	4.4	16.7	3.9	110	58	4.0	7.0	26.5	4.1	116	34	2.3	3.0	2.1	11	28	13	33	18	46	11	3.4		
	---	---	---	---	---	---	26	1.8	2.0	7.6	2.9	82	38	2.6	1.8	6.8	4.0	113	48	3.3	2.6	9.8	4.6	130	65	4.5	5.4	20.4	5.2	147	46	3.2	4.0	2.8	11	28	14	36	18	46	14	4.3		
	---	---	---	---	---	---	40	2.8	0.9	3.4	4.5	127	52	3.6	1.0	3.8	5.4	153	75	5.2	1.7	6.4	7.1	201	60	4.1	6.0	4.1	11	28	14	36	19	48	18	46	16	43.9						
AW1030SS	10	0.7	6.8	25.7	1.1	31	20	1.4	8.5	32.2	1.5	42	30	2.1	9.0	34.1	2.0	57	40	2.8	10.0	37.9	2.6	74	56	3.9	15.0	56.8	2.9	82	12	18	10	0.7	10	25	13	33	18	46	9	2.7		
	12	0.8	4.5	17.0	1.4	40	22	1.5	6.0	22.7	1.9	54	34	2.3	5.8	22.0	2.8	79	44	3.0	7.0	26.5	3.4	96	60	4.1	12.0	45.4	3.5	99	34	2.3	3.0	2.1	11	28	14	36	18	46	13	3.4		
	14	1.0	2.2	8.3	1.9	54	24	1.7	4.5	17.0	2.3	65	38	2.6	2.4	9.1	3.8	108	48	3.3	7.7	14.0	4.2	119	70	4.8	5.0	18.9	5.6	159	46	3.2	4.0	2.8	11	28	14	36	19	48	15	4.6		
	---	---	---	---	---	---	26	1.8	2.6	9.8	2.7	76	40	2.8	1.4	5.3	4.3	122	52	3.6	1.5	5.7	5.2	147	80	5.5	0.8	3.0	7.7	218	65	4.5	6.0	4.1	11	28	14	36	20	51	19	5.8		
AW1040SS	24	1.7	6.0	22.7	5.4	153	38	2.6	9.3	35.2	7.7	218	48	3.3	15.5	58.7	8.4	238	60	4.1	19.3	73.1	10.3	292	85	5.9	24.0	91.0	13.8	391	28	19	10	0.7	10	25	14	36	16	41	16	4.9		
	28	1.9	4.0	15.1	6.1	173	44	3.0	5.5	20.8	9.1	258	56	3.9	9.0	34.1	10.6	300	70	4.8	12.0	45.4	12.8	362	90	6.2	21.3	80.6	15.2	430	46	3.2	4.0	2.8	11	28	14	36	18	46	18	5.5		
	30	2.1	2.5	9.5	6.7	190	48	3.3	5.5	13.2	10.0	283	62	4.3	6.0	22.7	12.1	343	80	5.5	6.5	24.6	14.7	416	95	6.6	18.5	70.0	16.5	467	75	5.2	6.0	4.1	12	30	16	41	22	56	24	7.3		
	32	2.2	2.0	7.6	7.3	207	52	3.6	1.9	7.2	10.8	306	72	4.8	2.8	10.6	13.4	379	90	6.2	2.8	10.6	17.2	487	100	6.9	15.8	59.8	17.3	490	90	6.2	6.0	4.1	12	30	16	41	23	58	25	7.6		



Air Atomizing Spray Nozzles



Internal Mix Flat Fan Pattern - 1/4 NPT



Model: AF1010SS
Material: Type 303 Stainless Steel



Model: AF1020SS
Material: Type 303 Stainless Steel



Model: AF1030SS
Material: Type 303 Stainless Steel



Model: AF1040SS
Material: Type 303 Stainless Steel



Model: AF1050SS
Material: Type 303 Stainless Steel

Model AF1010SS, AF1020SS, AF1030SS, AF1040SS, and AF1050SS

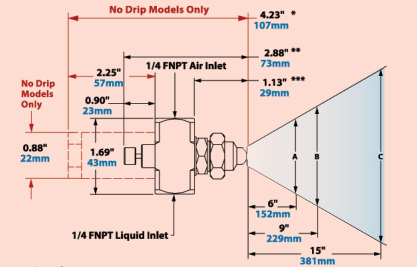
1/4 NPT internal mix flat fan pattern atomizing nozzles are designed with efficiency in mind. Especially good for vertical or horizontal assembly lines, their broad thin pattern makes efficient use of your expensive liquids. Their output can be adjusted for a very light film or a heavy coat of whatever liquid you're working with. Whether it's applying paint to hanging sheet metal, or using a water mist to cool a laminate web, flat fan atomizing nozzles cover a wide flat area, ideal for products moving on a conveyor.

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



A Model AF1030SS is used to spray an anti-corrosion coating on stamped steel parts as they travel on a conveyor.

Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com

Spray Nozzles

No Drip Only Dimensions in Red See page 92 for No Drip Atomizing Nozzles

*Model AF2010SS & AF2020SS: 4.10" / 104mm
**Model AF1010SS & AF1020SS: 2.75" / 70mm
***Model AF1010SS & AF1020SS: 1" / 25mm

For more information about droplet size and spray angle, see page 97.

Model	10 PSI/0.7 BAR Liquid				20 PSI/1.4 BAR Liquid				30 PSI/2.1 BAR Liquid				40 PSI/2.8 BAR Liquid				60 PSI/4.1 BAR Liquid				Spray Dimensions																																		
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM		Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM		Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM		Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM		Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/BAR	Pressure Liquid PSI/BAR	A in	B in	C in	Max. Depth feet/m																														
AF1010SS	10	0.7	1.6	6.1	0.7	20	18	1.2	2.1	7.9	1.0	28	28	1.9	2.4	9.1	1.4	40	38	2.6	2.6	9.8	1.7	48	55	3.8	3.2	12.1	2.2	62	16	1.1	1.0	0.7	9	23	12	30	15	38	5	1.5													
	14	1.0	1.4	5.3	0.9	25	26	1.8	1.7	6.4	1.3	37	40	2.8	1.8	6.8	1.8	51	50	3.4	2.0	7.6	2.1	59	75	5.2	2.3	8.7	3.0	85	40	2.8	3.0	2.1	12	28	13	33	17	43	6	1.8													
	18	1.2	1.1	4.2	1.1	31	34	2.3	1.2	4.5	1.7	48	48	3.3	1.4	5.3	2.1	59	60	4.1	1.6	6.1	2.5	71	90	6.2	1.6	6.1	3.6	102	50	3.4	4.0	2.8	14	36	16	41	22	56	7	2.1													
	22	1.5	0.8	3.0	1.3	37	40	2.8	0.8	3.0	1.9	54	55	3.8	1.0	3.8	2.4	68	70	4.8	1.2	4.5	3.0	85	100	6.9	1.3	4.9	4.1	116	60	3.4	4.0	2.8	14	36	16	41	22	56	7	2.1													
	25	1.8	0.7	2.5	1.4	43	40	2.8	0.8	3.0	1.9	54	55	3.8	1.0	3.8	2.4	68	70	4.8	1.2	4.5	3.0	85	100	6.9	1.3	4.9	4.1	116	60	3.4	4.0	2.8	14	36	16	41	22	56	7	2.1													
AF1020SS	12	0.8	2.4	9.1	0.7	20	20	1.4	3.4	12.9	0.9	25	30	2.1	3.9	14.8	1.2	34	38	2.6	4.6	17.4	1.4	40	65	4.5	4.7	17.8	2.2	62	16	1.1	1.0	0.7	9	23	12	30	15	38	5	1.5													
	16	1.1	1.8	6.8	0.9	25	28	1.9	2.4	9.1	1.2	34	38	2.6	2.9	11.0	1.5	42	50	3.4	2.0	3.2	12.1	1.9	54	75	5.2	3.7	14.0	2.6	74	50	3.4	4.0	2.8	14	36	16	41	22	56	7	2.1												
	18	1.2	1.5	5.7	1.0	28	32	2.2	1.8	6.8	1.5	42	46	3.2	2.0	7.6	1.9	54	60	4.1	2.2	8.3	2.3	65	85	5.9	2.8	10.6	3.0	85	50	3.4	4.0	2.8	14	36	16	41	22	56	7	2.1													
	20	1.4	1.3	4.9	1.1	31	36	2.5	1.4	5.3	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102	80	5.5	6.0	4.1	16	41	21	53	29	74	8	2.4													
	26	1.1	4.5	17.0	2.0	57	28	1.9	4.0	6.0	2.2	27	79	38	2.6	7.0	26.5	3.5	99	46	3.2	8.5	32.2	4.0	113	75	4.5	11.0	41.6	3.5	150	20	1.4	1.0	0.7	11	28	14	36	19	48	10	3.0												
AF1030SS	14	1.4	3.3	12.5	2.4	68	32	2.2	5.0	18.9	3.1	88	42	2.9	6.4	24.2	3.8	108	52	3.6	7.5	28.4	4.5	127	65	4.0	10.0	37.9	5.7	161	16	1.1	1.0	0.7	9	23	12	30	15	38	5	1.5													
	20	1.7	2.4	9.1	2.7	76	34	2.3	4.5	17.8	3.3	93	46	3.2	5.5	20.8	4.1	116	58	4.0	6.3	23.8	4.9	139	80	5.5	8.0	30.3	6.4	181	54	3.7	4.0	2.8	14	36	16	41	22	56	7	2.1													
	28	1.9	1.5	5.7	1.1	28	36	2.5	3.9	14.8	3.5	59	48	3.3	5.1	19.3	4.4	125	60	4.1	6.0	22.7	5.2	147	90	6.2	6.4	24.2	7.2	204	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102	80	5.5	6.0	4.1	16	41	21	53	29	74	8	2.4	
	32	2.2	1.5	4.2	1.1	31	36	2.5	1.2	4.5	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102	80	5.5	6.0	4.1	16	41	21	53	29	74	8	2.4													
	36	2.5	1.4	5.3	1.1	31	36	2.5	1.4	5.3	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102	80	5.5	6.0	4.1	16	41	21	53	29	74	8	2.4													
AF1040SS	12	0.8	8.1	30.7	1.4	40	32	2.2	1.5	40.4	4.9	54	34	2.3	13.1	49.6	2.7	76	46	3.2	14.3	54.4	3.4	96	65	4.5	18.3	69.3	4.5	127	32	2.2	5.0	18.9	3.1	88	42	2.9	6.4	24.2	3.8	108	52	3.6	7.5	28.4	4.5	127	65	4.0	10.0	37.9	5.7	161	
	16	1.1	5.9	22.3	1.8	51	30	2.1	7.1	26.9	2.7	62	42	2.9	8.9	33.7	3.4	96	54	3.7	10.3	39.0	4.1	116	80	5.5	11.9	45.0	5.9	167	36	3.2	2.0	3.2	12.1	1.9	54	75	5.2	3.7	14.0	2.6	74	50	3.4	4.0	2.8	14	36	16	41	22	56	7	2.1
	18	1.2	5.0	18.9	2.0	57	34	2.3	5.6	21.2	3.1	88	48	3.3	6.3	23.8	4.1	116	60	4.1	7.9	29.9	4.8	136	90	6.2	8.5	32.2	6.8	193	85	5.9	6.0	4.1	16	41	21	53	29	74	8	2.4													
	22	1.5	3.3	12.5	2.4	68	38	2.6	4.1	15.5	3.5	99	52	3.6	5.0	18.9	4.5	127	70	4.8	4.6	17.4	5.8	164	100	6.9	6.0	22.7	7.9	224	14	1.0	1.0	0.7	14	36	16	41	22	56	7	2.1													
	26	1.8	1.1	5.8	3.3	3.0	88	26	1.8	11.5	43.5	4.3	122	34	2.3	20.8	78.7	4.6	130	42	2.9	30.0	114	4.8	136	58	4.0	42.0	15.5	5.5	156	16	1.1	1.0	0.7	14	36	16	41	22	56	7	2.1												
AF1050SS	14	1.1	5.3	33.3	3.0	88	28	1.9	7.8	29.5	4.9	139	36	2.5	17.0	64.3	4.9	139	46	3.2	20.5	77.6	6.1	173	65	4.5	30.0	114	6.8	193	38	2.6	3.0	2.1	16	41	20	51	25	64	15	4.6													
	16	1.1	5.8	33.3	3.0	88	28	1.9	7.8	29.5	4.9	139	36	2.5	17.0	64.3	4.9	139	46	3.2	20.5	77.6	6.1	173	65	4.5	30.0	114	6.8	193	38	2.6	3.0	2.1	16	41	20	51	25	64	15	4.6													
	18	1.2	5.0	18.9	2.0	57	34	2.3	5.6	21.2	3.1	88	48	3.3	6.3	23.8	4.1	116	60	4.1	7.9	29.9	4.8	136	90	6.2	8.5	32.2	6.8	193	85	5.9	6.0	4.1	16	41	21	53	29	74	8	2.4													
	22	1.5	3.3	12.5	2.4	68	38	2.6	4.1	15.5	3.5	99	52	3.6	5.0	18.9	4.5	127	70	4.8	4.6	17.4	5.8	164	100	6.9	6.0	22.7	7.9	224	14	1.0	1.0	0.7	14	36	16	41	22	56	7	2.1													
	26	1.8	1.1	5.8	3.3	3.0	88	26	1.8	11.5	43.5	4.3	122	34	2.3	20.8	78.7	4.6	130	42	2.9	30.0	114	4.8	136	58	4.0	42.0	15.5	5.5	156	16	1.1	1.0	0.7	14	36	16	41	22	56	7	2.1												

Air Atomizing Spray Nozzles

Internal Mix Deflected Flat Fan Pattern - 1/4 NPT



Model: AD1010SS
Material: Type 303 Stainless Steel



A Model AD1010SS is used to apply a protective coating to wood panels.

Model AD1010SS

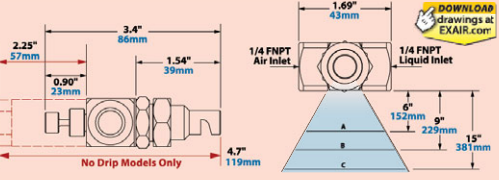
1/4 NPT internal mix deflected flat fan nozzles are designed for applications where space is at a premium. The flat fan pattern sprays at a right angle to the nozzle's orientation, allowing spray to be placed precisely where it's needed in close quarters. These nozzles are ideal for coating the inside of enclosures and ductwork.

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

Dimensions and Airflow Pattern

No Drip Dimensions in Red
No Drip Models Only
See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.



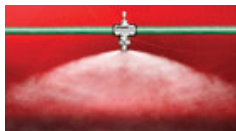
DOWNLOAD drawings at EXAIR.com

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																																																																										
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure Air PSI/BAR	Liquid PSI/BAR	A in cm	B in cm	C in cm	Max. Depth in/cm																																																																					
	AD1010SS	6	0.4	3.0	11.5	1.4	4.1	14	1.0	4.0	15.1	2.3	6.6	22	1.8	4.6	17.6	3.2	9.0	26	1.8	5.7	21.4	3.5	9.8	38	2.6	6.9	26.0	4.7	13.3	12	0.8	10	0.7	9	23	14	26	16	41	36	91	22	1.5	20	1.4	11	28	13	33	16	41	42	107	34	2.3	30	2.1	8	20	12	30	16	41	45	114	46	3.2	40	2.8	9	23	12	30	15	38	48	122	70	4.8	60	4.1	12	30	15	38	18	46	42

Internal Mix 360° Hollow Circular Pattern - 1/4 NPT



Model: AT1010SS
Material: Type 303 Stainless Steel



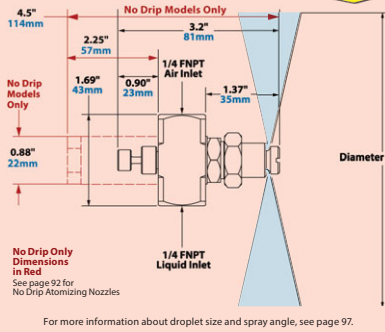
This 360° circular pattern nozzle can be used to coat inside diameters or cover a broad area of over 4' (1219mm).

Model AT1010SS

1/4 NPT internal mix 360° nozzles are designed for applications where the spray pattern must be oriented away from the nozzle in all directions. 360° nozzles are ideal where a smooth, even coating is needed on the ID of pipe or similar ductwork. They also work great for operations where a mist over a broad area is needed, such as dust suppression, humidification and cooling.

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

Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																																												
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure Air PSI/BAR	Liquid PSI/BAR	A in cm	B in cm	C in cm	Diameter in cm																																							
	AT1010SS	20	1.4	4.5	16.8	4.3	12.1	34	2.3	7.3	27.5	6.4	18.2	50	3.4	8.4	30.6	8.9	25.1	60	4.1	11.5	43.5	10.0	28.3	85	5.9	14.7	55.7	13.3	37.6	20	1.4	10	0.7	36	91	34	2.3	20	1.4	39	99	50	3.4	30	2.1	44	112	60	4.1	40	2.8	49	124	85	5.9	60	4.1	53

For Technical Assistance, Call An EXAIR Application Engineer 1-800-903-9247
Toll Free FAX (866) 329-3924 - E-mail: techelp@exair.com - www.exair.com

Air Atomizing Spray Nozzles



External Mix Round Pattern - 1/4 NPT



Model: ER1010SS
Material: Type 303 Stainless Steel



Model: ER1020SS
Material: Type 303 Stainless Steel



Model: ER1030SS
Material: Type 303 Stainless Steel



Model: ER1040SS
Material: Type 303 Stainless Steel



Model: ER1050SS
Material: Type 303 Stainless Steel

Model ER1010SS, ER1020SS, ER1030SS, ER1040SS and ER1050SS

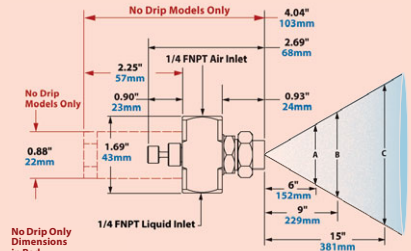
1/4 NPT external mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern. Applications include spot treatments of parts, covering irregularly shaped objects or covering a container of parts with a heavy coat. They are also an excellent choice for controlling heavy dust and particulates. Since they are external mix, airflow and liquid flow can be controlled independently.

For pressure fed applications with independent air and liquid control.



(2) Model ER1020SS atomizing nozzles are used to apply a fire retardant coating to wood trim.

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.

Spray Nozzles

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions					
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air/BAR	Liquid/BAR	Width			Max. Depth feet/m
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	in	cm	in	cm		
ER1010SS	5 0.3	0.9 25.5	5 0.3	0.9 25.5	10 0.7	10 0.7	1.9 36.8	20 1.4	1.9 36.8	20 1.4	1.9 36.8	20 1.4	1.9 36.8	20 1.4	1.9 36.8	10 0.7	3 0.2	30 7.6	43 10.9	63 16.0	9 2.7
	10 0.7	1.3 36.8	10 0.7	1.3 36.8	20 1.4	20 1.4	2.4 68.0	40 2.8	2.4 68.0	40 2.8	2.4 68.0	40 2.8	2.4 68.0	40 2.8	2.4 68.0	20 1.4	5 0.3	3.3 8.4	4.5 11.4	6.8 17.3	11 3.4
	20 1.4	1.9 53.8	30 2.1	2.4 68.0	40 2.8	40 2.8	3.0 85.0	60 4.1	3.0 85.0	60 4.1	3.0 85.0	60 4.1	3.0 85.0	60 4.1	3.0 85.0	40 2.8	10 0.7	3.5 8.9	5.3 13.5	7.5 19.1	13 4.0
ER1020SS	6 0.4	0.9 25.5	10 0.7	1.3 36.8	10 0.7	1.3 36.8	20 1.4	2.4 68.0	20 1.4	2.4 68.0	20 1.4	2.4 68.0	20 1.4	2.4 68.0	20 1.4	10 0.7	3 0.2	3.8 9.7	5.0 12.7	7.5 19.1	10 3.0
	10 0.7	1.3 36.8	20 1.4	1.8 51.0	20 1.4	1.8 51.0	40 2.8	3.1 87.8	40 2.8	3.1 87.8	40 2.8	3.1 87.8	40 2.8	3.1 87.8	40 2.8	20 1.4	5 0.3	4.0 10.2	5.8 14.7	7.0 17.8	12 3.7
	20 1.4	2.4 68.0	30 2.1	3.1 87.8	40 2.8	4.3 16.3	3.1 87.8	60 4.1	4.1 116	60 4.1	4.1 116	60 4.1	4.1 116	60 4.1	4.1 116	40 2.8	10 0.7	4.3 10.9	6.0 15.2	8.3 21.1	15 4.6
ER1030SS	10 0.7	4.0 113	10 0.7	4.0 113	15 1.0	4.9 139	30 2.1	7.7 218	40 2.8	7.7 218	40 2.8	7.7 218	40 2.8	7.7 218	40 2.8	10 0.7	3 0.2	4.8 12.2	6.8 17.3	9.0 22.9	24 7.3
	20 1.4	6.0 170	20 1.4	6.0 170	30 2.1	7.7 218	40 2.8	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	60 4.1	20 1.4	5 0.3	4.5 11.4	6.5 16.5	8.5 21.6	23 7.0
	40 2.8	9.5 269	40 2.8	9.5 269	50 3.4	13.4 379	60 4.1	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	40 2.8	10 0.7	4.8 12.2	6.8 17.3	9.0 22.9	29 8.8
ER1040SS	15 1.0	4.9 139	20 1.4	6.0 170	30 2.1	7.7 218	40 2.8	9.5 269	50 3.4	13.4 379	60 4.1	15.3 433	80 5.5	15.3 433	80 5.5	15 1.0	3 0.2	5.8 14.7	7.5 19.1	10.0 25.4	15 4.6
	30 2.1	7.7 218	30 2.1	7.7 218	40 2.8	9.5 269	50 3.4	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	60 4.1	20 1.4	5 0.3	6.0 15.2	8.0 20.3	10.5 26.2	19 5.8
	40 2.8	9.5 269	50 3.4	13.4 379	60 4.1	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	40 2.8	10 0.7	6.0 15.2	8.0 20.3	10.5 26.2	23 7.0
ER1050SS	40 2.8	14.0 396	55 4.8	18.0 510	65 4.5	21.0 595	80 5.5	23.0 631	100 7.1	23.0 631	100 7.1	23.0 631	100 7.1	23.0 631	100 7.1	40 2.8	5 0.3	6.5 16.5	8.8 22.4	11.0 27.9	29 8.8
	50 3.4	16.8 470	65 4.5	22.3 631	80 5.5	25.3 716	100 7.1	29.7 90	120 8.5	29.7 90	120 8.5	29.7 90	120 8.5	29.7 90	120 8.5	50 3.4	10 0.7	6.5 16.5	9.0 22.9	12.0 30.4	31 9.1
	60 4.1	19.7 558	70 4.8	25.3 631	80 5.5	25.3 716	100 7.1	29.7 90	120 8.5	29.7 90	120 8.5	29.7 90	120 8.5	29.7 90	120 8.5	60 4.1	10 0.7	6.5 16.5	9.0 22.9	11.0 27.9	30 9.1
65 4.5	21.0 595	80 5.5	22.3 631	90 6.2	25.3 716	100 7.1	29.7 90	120 8.5	29.7 90	120 8.5	29.7 90	120 8.5	29.7 90	120 8.5	65 4.5	20 1.4	6.0 15.2	8.0 20.3	11.0 27.9	32 9.8	

Note: When air pressure is 10x or more than liquid pressure, liquid flow may diminish.

11510 Goldcoast Drive • Cincinnati, OH 45249-1621 • Phone (513) 671-3322
FAX (513) 671-3363 • E-mail: techelp@exair.com • www.exair.com



Air Atomizing Spray Nozzles

External Mix Narrow Angle Flat Fan Pattern - 1/4 NPT

Model EF1010SS, EF1020SS, EF1030SS and EF1040SS

1/4 NPT external mix narrow angle flat fan pattern nozzles are great where a high volume of liquid is needed over a concentrated area. Since they are external mix, airflow and liquid flow can be controlled independently. External mix narrow angle flat fan pattern nozzles are the best choice where thicker liquids for a heavy coating are needed over a narrow band, such as a paint line.

For pressure fed applications with independent air and liquid control.



Model: EF1010SS
Material: Type 303 Stainless Steel



Model: EF1020SS
Material: Type 303 Stainless Steel



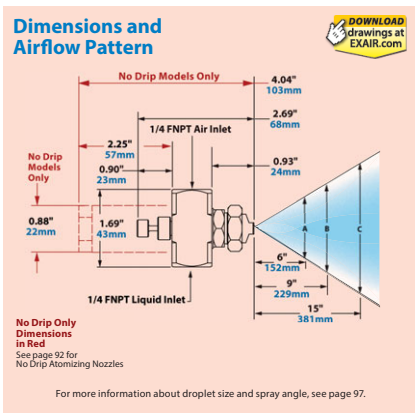
Model: EF1030SS
Material: Type 303 Stainless Steel



Model: EF1040SS
Material: Type 303 Stainless Steel



A Model EF1020SS is used to supply humidification for a corrosion test chamber.



spray nozzles

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions																				
	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width			Max. Depth feet/m															
	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR																
EF1010SS	5	0.3	0.8	2.27	10	0.7	1.0	28.3	15	1.0	1.3	36.8	25	1.7	1.8	51.0	45	3.1	2.7	76.5	5	0.3	3	0.2	4.0	10.2	5.8	14.7	9.5	24.1	6	1.8				
	10	0.7	1.0	2.83	20	1.4	1.4	42.5	25	1.7	1.8	51.0	40	2.8	2.5	70.8	60	4.1	3.4	96.3	25	1.7	20	1.4	6.5	16.5	9.5	24.1	13.0	33.0	13	4.0				
	20	1.4	1.5	4.25	30	2.1	2.9	82.1	60	4.1	3.4	96.3	90	6.2	4.7	133	95	6.5	5.1	144	75	5.2	40	2.8	6.5	16.5	9.5	24.1	13.0	33.0	18	5.5				
EF1020SS	10	0.7	1.0	2.83	15	1.0	1.3	36.8	20	1.4	1.5	42.5	35	2.4	2.2	62.3	50	3.4	2.9	82.1	60	4.1	7.5	28.4	3.4	9.6	3	0.2	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3
	20	1.4	1.5	4.25	25	1.7	2.5	70.8	30	2.1	2.9	82.1	40	2.8	3.8	108	80	5.5	4.3	122	100	6.9	7.5	28.4	4.3	12.2	3.5	2.4	6.5	16.5	11.0	27.9	16.0	40.6	17	5.2
	30	2.1	2.9	8.21	40	2.8	3.4	96.3	50	3.4	3.8	108	90	6.2	4.7	133	100	6.9	5.2	147	75	5.2	40	2.8	7.5	19.1	10.0	30.5	17.0	43.2	22	6.7				
EF1030SS	10	0.7	1.0	2.83	15	1.0	1.3	36.8	20	1.4	1.5	42.5	35	2.4	2.2	62.3	50	3.4	2.9	82.1	60	4.1	7.5	28.4	3.4	9.6	3	0.2	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3
	20	1.4	1.5	4.25	25	1.7	2.5	70.8	30	2.1	2.9	82.1	40	2.8	3.8	108	80	5.5	4.3	122	100	6.9	7.5	28.4	4.3	12.2	3.5	2.4	6.5	16.5	11.0	27.9	16.0	40.6	17	5.2
	30	2.1	2.9	8.21	40	2.8	3.4	96.3	50	3.4	3.8	108	90	6.2	4.7	133	100	6.9	5.2	147	75	5.2	40	2.8	7.5	19.1	10.0	30.5	17.0	43.2	22	6.7				
EF1040SS	10	0.7	1.0	2.83	15	1.0	1.3	36.8	20	1.4	1.5	42.5	35	2.4	2.2	62.3	50	3.4	2.9	82.1	60	4.1	7.5	28.4	3.4	9.6	3	0.2	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3
	20	1.4	1.5	4.25	25	1.7	2.5	70.8	30	2.1	2.9	82.1	40	2.8	3.8	108	80	5.5	4.3	122	100	6.9	7.5	28.4	4.3	12.2	3.5	2.4	6.5	16.5	11.0	27.9	16.0	40.6	17	5.2
	30	2.1	2.9	8.21	40	2.8	3.4	96.3	50	3.4	3.8	108	90	6.2	4.7	133	100	6.9	5.2	147	75	5.2	40	2.8	7.5	19.1	10.0	30.5	17.0	43.2	22	6.7				

Air Atomizing Spray Nozzles



External Mix Wide Angle Flat Fan Pattern - 1/4 NPT



Model: EB1010SS
Material: Type 303 Stainless Steel



Model: EB1020SS
Material: Type 303 Stainless Steel



Model: EB1030SS
Material: Type 303 Stainless Steel

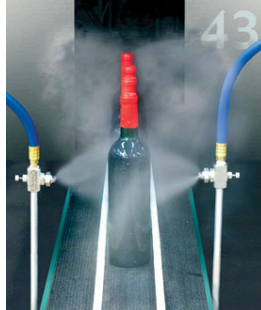


Model: EB1040SS
Material: Type 303 Stainless Steel

Model EB1010SS, EB1020SS, EB1030SS and EB1040SS

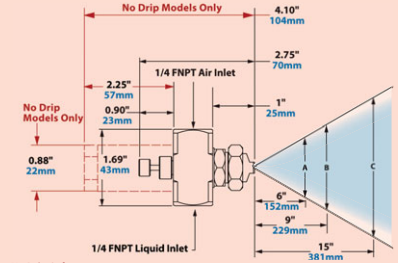
1/4 NPT external mix wide angle flat fan pattern nozzles are great where a high volume of liquid is needed over a wide area such as a conveyor line. Because they are external mix, airflow and liquid flow can be controlled independently. Common applications are those which require a moderate application of liquid over a broad area, such as cooling or coating wide webs.

For pressure fed applications with independent air and liquid control.



(2) Model EB1040SS nozzles are used to rinse wine bottles after capping.

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.

Spray Nozzles



Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions			Max. Depth feet/m		
	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/ BAR	Liquid PSI/ BAR	Width A in cm		B in cm	C in cm
	EB1010SS	5 0.3	0.9 25.5	1.1 31.1	5 0.3	1.4 5.3	1.3 36.8	8 0.6	1.1 31.1	1.0 0.7	1.3 36.8	20 1.4	2.0 56.6	15 1.0	1.7 48.1	10 0.7	10 0.7	5 0.3		8.0 20.3	11.0 27.9
EB1020SS	8 0.6	1.0 3.8	1.1 31.1	10 0.7	1.4 5.3	1.3 36.8	10 0.7	1.1 31.1	1.0 0.7	1.3 36.8	20 1.4	2.0 56.6	15 1.0	1.7 48.1	10 0.7	10 0.7	5 0.3	8.0 20.3	11.0 27.9	14.0 35.6	11 3.4
EB1030SS	10 0.7	1.7 48.1	1.3 36.8	15 1.0	1.4 5.3	1.3 36.8	20 1.4	1.1 31.1	1.0 0.7	1.3 36.8	30 2.1	2.6 73.6	20 1.4	2.6 73.6	15 1.0	10 0.7	5 0.3	11.0 27.9	15.0 38.1	20.0 50.8	13 4.0
EB1040SS	15 1.0	2.0 56.6	1.3 36.8	20 1.4	2.0 56.6	1.3 36.8	30 2.1	1.1 31.1	1.0 0.7	1.3 36.8	40 2.8	3.0 85.0	30 2.1	3.0 85.0	20 1.4	10 0.7	5 0.3	11.0 27.9	15.0 38.1	21.0 53.3	14 4.3
EB1010SS	6 0.4	1.0 28.3	6 0.4	1.0 28.3	6 0.4	1.0 28.3	10 0.7	1.0 28.3	10 0.7	1.3 36.8	20 1.4	2.0 56.6	15 1.0	2.0 56.6	10 0.7	10 0.7	5 0.3	11.0 27.9	15.0 38.1	20.0 50.8	8 2.4
EB1020SS	7 0.5	1.1 31.1	8 0.6	8 0.6	3.2 12.1	1.1 31.1	8 0.6	1.1 31.1	1.0 0.7	1.5 42.5	25 1.7	2.3 65.1	15 1.0	2.3 65.1	10 0.7	10 0.7	5 0.3	11.0 27.9	16.0 40.6	21.0 53.3	11 3.4
EB1030SS	8 0.6	1.1 31.1	9 0.6	9 0.6	3.2 12.1	1.1 31.1	8 0.6	1.1 31.1	1.0 0.7	1.5 42.5	25 1.7	2.6 74.0	15 1.0	2.6 74.0	10 0.7	10 0.7	5 0.3	11.0 27.9	17.0 43.2	22.0 55.9	12 3.7
EB1040SS	10 0.7	1.3 36.8	10 0.7	1.3 36.8	12 0.8	1.3 36.8	15 1.0	1.5 42.5	1.0 0.7	1.5 42.5	30 2.1	3.0 85.0	20 1.4	3.0 85.0	15 1.0	10 0.7	5 0.3	11.0 27.9	16.0 40.6	21.0 53.3	14 4.3
EB1010SS	8 0.6	3.4 96.3	10 0.7	3.8 108	15 1.0	3.8 108	15 1.0	4.8 136	35 2.4	8.4 238	50 3.4	8.4 238	50 3.4	11.0 31.1	11.0 31.1	5 0.3	11.0 27.9	17.0 43.2	21.0 53.3	13 4.0	
EB1020SS	15 1.0	4.4 16.7	4.8 136	20 1.4	5.5 20.8	4.8 136	25 1.7	5.9 167	25 1.7	6.7 190	35 2.4	7.6 215	25 1.7	7.6 215	15 1.0	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	16 4.9
EB1030SS	20 1.4	5.9 167	25 1.7	5.5 20.8	6.7 190	35 2.4	7.6 215	7.6 215	3.1 11.0	8.4 238	55 3.8	11.0 41.6	35 2.4	11.0 41.6	20 1.4	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	26 7.9
EB1040SS	25 1.7	6.7 190	30 2.1	6.7 190	7.6 215	40 2.8	8.4 238	8.4 238	4.1 15.1	9.3 263	60 4.5	12.0 34.0	40 2.8	12.0 34.0	25 1.7	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	30 9.1
EB1010SS	10 0.7	3.8 108	15 1.0	4.8 136	25 1.7	4.8 136	25 1.7	6.7 190	45 3.1	10.1 286	75 5.2	10.1 286	65 4.5	10.1 286	30 2.1	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	17 5.2
EB1020SS	15 1.0	4.8 136	20 1.4	5.9 167	30 2.1	5.9 167	30 2.1	7.6 215	50 3.4	11.0 31.1	85 5.9	11.0 31.1	85 5.9	11.0 31.1	15 1.0	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	19 5.8
EB1030SS	20 1.4	5.9 167	30 2.1	6.7 190	35 2.4	6.7 190	35 2.4	8.4 238	55 3.8	11.0 31.1	110 7.6	11.0 31.1	110 7.6	11.0 31.1	20 1.4	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	23 7.0
EB1040SS	25 1.7	6.7 190	35 2.4	7.6 215	40 2.8	7.6 215	40 2.8	9.3 263	70 4.5	11.0 31.1	140 9.9	11.0 31.1	140 9.9	11.0 31.1	25 1.7	10 0.7	5 0.3	11.0 27.9	18.0 45.7	24.0 61.0	26 7.9

Air Atomizing Spray Nozzles



Siphon Fed Flat Fan Pattern - 1/4 NPT



Model: SF1010SS
Material: Type 303 Stainless Steel



Model SF1010SS, SF1020SS and SF1030SS

1/4 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed flat fan pattern nozzles are the best choice where liquid is needed over a broad band such as a moving assembly line.



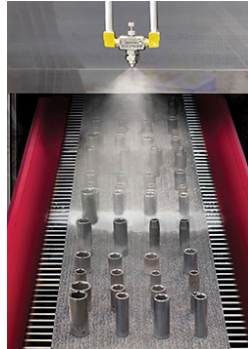
Model: SF1020SS
Material: Type 303 Stainless Steel



Siphon or gravity fed for non-pressurized applications.

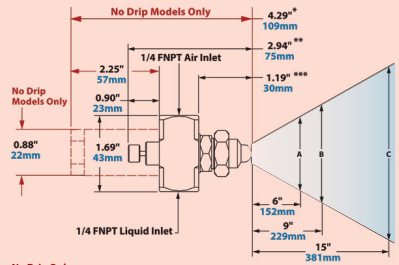


Model: SF1030SS
Material: Type 303 Stainless Steel



A model SF1020SS is used to apply a light coating of oil to prevent sockets from rusting prior to a packaging operation.

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red See page 92 for No Drip Atomizing Nozzles

*Model SF2010SS: 4.15" / 105mm
**Model SF1010SS: 2.80" / 71mm
***Model SF1010SS: 1.05" / 27mm

For more information about droplet size and spray angle, see page 97.

Spray Nozzles

Liquid Flow in GPH/LPH

Spray Dimensions at 8" (20cm) Siphon Height

Model	Liquid Flow in GPH/LPH															Spray Dimensions at 8" (20cm) Siphon Height														
	Air				Gravity Head					Siphon Height						Air		Width				Max. Depth feet/m								
	Pressure PSI/BAR	SCFM/ SLP/M	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A in	B cm		C in	cm						
SF1010SS	10	0.7	0.9	25.5	0.4	1.5	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	0.2	0.8	0.1	0.4	10	0.7	9	23	11	28	13	33	5	1.5		
	20	1.4	1.3	36.8	0.4	1.5	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	20	1.4	10	25	12	30	14	36	6	1.8		
	30	2.1	1.7	48.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	---	---	---	---	---	30	2.1	11	28	13	33	15	38	7	2.1	
SF1020SS	20	1.4	2.3	65.1	1.2	4.5	1.1	4.2	1.0	3.8	0.9	3.4	0.8	3.0	0.6	2.3	0.5	1.9	20	1.4	10	25	14	36	19	48	6	1.8		
	30	2.1	2.9	82.1	1.1	4.2	1.1	4.2	1.0	3.8	0.8	3.0	0.8	3.0	0.6	2.3	0.5	1.9	30	2.1	11	28	15	38	21	53	7	2.1		
	40	2.8	3.5	99.1	1.0	3.8	0.9	3.4	0.8	3.0	0.7	2.6	0.7	2.6	0.5	1.9	0.4	1.5	40	2.8	13	33	16	41	23	58	6	1.8		
SF1030SS	50	3.4	4.3	122	0.8	3.0	0.7	2.6	0.5	1.9	0.5	1.9	0.4	1.5	0.3	1.1	---	---	---	50	3.4	14	36	18	46	25	64	6	1.8	
	20	1.4	2.2	62.3	1.8	6.8	1.6	6.1	1.5	5.7	1.4	5.3	1.4	5.3	1.3	4.9	1.1	4.2	1.0	3.8	20	1.4	9	23	11	28	15	38	8	2.4
	30	2.1	2.8	79.2	1.9	7.2	1.8	6.8	1.8	6.8	1.7	6.4	1.7	6.4	1.6	6.1	1.4	5.3	1.2	4.5	30	2.1	10	25	13	33	17	43	9	2.7
SF1030SS	40	2.8	3.3	93.4	1.8	6.8	1.8	6.8	1.7	6.4	1.6	6.1	1.6	6.1	1.5	5.7	1.3	4.9	1.2	4.5	40	2.8	11	28	14	36	17	43	10	3.0
	50	3.4	4.0	113	1.6	6.1	1.5	5.7	1.4	5.3	1.4	5.3	1.3	4.9	1.3	4.9	1.1	4.2	1.0	3.8	50	3.4	11	28	14	36	18	46	11	3.4

Air Atomizing Spray Nozzles

Internal Mix Narrow Angle Round Pattern - 1/2 NPT

Model AN5010SS and AN5020SS

1/2 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, these larger atomizing nozzles can apply a heavy coat up close or send a very fine mist over 40 feet away! They are often used for higher volume application of lubricants during assembly, or marking items as they move through an assembly line.

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

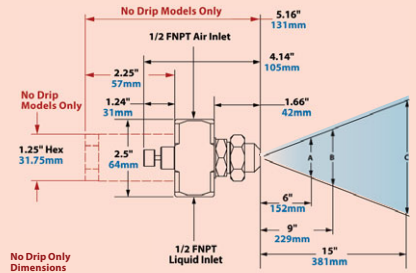


Model: AN5010SS
Material: Type 303 Stainless Steel



Model: AN5020SS
Material: Type 303 Stainless Steel

Dimensions and Dimensional Drawings



DOWNLOAD drawings at EXAIR.com

No Drip Only Dimensions in Red See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.

For more information about droplet size and spray angle see page 97.

With adjustable liquid flow, these nozzles can be used to apply a heavy coat or a precise volume of liquid.

Model		Spray Dimensions										Max. Depth feet/m		
		Pressure				Width								
		Air PSI/BAR	Liquid PSI/BAR			A		B		C				
AN5010SS	20	1.4	5	0.3									22	6.7
	36	2.5	15	1.0									30	9.1
	50	3.4	25	1.7	3.5	9	5.75	14.6	8.5	22			34	10.4
	60	4.1	35	2.4									37	11.3
AN5020SS	10	0.7	5	0.3	4	10	6	15.2	8.5	22	20	6.1		
	32	2.2	25	1.7	5.5	14	7.5	19.1	10	25	27	8.2		
	44	3.0	35	2.4	6	15	9	22.9	10.5	27	35	10.7		
	64	4.4	55	3.8	6	15	9	22.9	10.5	27	42	12.8		

Model	5 PSI/0.3 BAR Liquid					15 PSI/1.0 BAR Liquid					25 PSI/1.7 BAR Liquid					35 PSI/2.4 BAR Liquid					55 PSI/3.8 BAR Liquid									
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM									
AN5010SS	18	1.2	9	34.1	12	339.8	28	1.9	27	102.2	14.5	411	38	2.6	51.6	195.3	16.4	464	48	3.3	75.6	286	18.4	521	---	---	---	---	---	---
	20	1.4	7	26.5	12.8	362.5	32	2.2	20	75.7	16.2	459	44	3.0	32.4	122.6	19.5	552	60	4.1	36.6	139	25.3	716	---	---	---	---	---	---
	22	1.5	6	22.7	13.6	385.2	38	2.6	20	75.7	19	538	54	3.7	22	83.3	24.3	688	72	5.0	21.6	82	31.0	878	---	---	---	---	---	---
	24	1.7	4.5	17.0	14.5	410.6	42	2.9	12.5	47.3	20.4	578	60	4.1	18	68.1	26.9	762	78	5.4	16.8	64	33.7	954	---	---	---	---	---	---
AN5020SS	10	0.7	30	113.6	13.7	388.0	18	1.2	98.4	372.4	15.6	442	26	1.8	159	601.8	17.6	498	36	2.5	183	693	20.0	566	54	3.7	231	874.3	26.0	736
	12	0.8	18.6	70.4	16.2	458.8	20	1.4	73.2	277.1	17.9	507	32	2.2	99	374.7	23.7	671	42	2.9	126	477	26.1	739	60	4.1	168	635.9	33.4	946
	---	---	---	---	---	---	22	1.5	63.6	240.7	20.3	575	36	2.5	75	283.9	28.6	810	46	3.2	96	363	31.0	878	72	5.0	76	287.7	47.2	1337
	---	---	---	---	---	---	24	1.7	52.8	199.8	22.6	640	40	2.8	57.6	218.0	33.0	935	52	3.6	71	269	37.7	1068	76	5.2	54	204.4	51.3	1453

Air Atomizing Spray Nozzles



Internal Mix Wide Angle Round Pattern - 1/2 NPT

Model AW5010SS, AW5020SS and AW5030SS

EXAIR's 1/2 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. These larger atomizing nozzles can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles are also perfect for applying a coating to parts packed in large containers, for example, misting a container of stamped steel parts with oil to prevent oxidation during shipment.

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



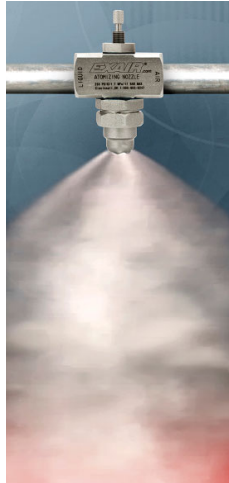
Model: AW5010SS
Material: Type 303 Stainless Steel



Model: AW5020SS
Material: Type 303 Stainless Steel

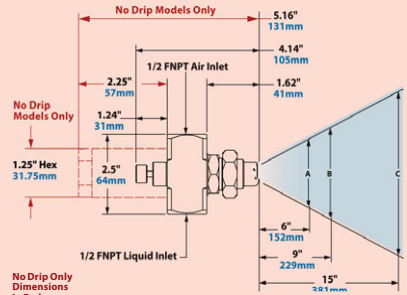


Model: AW5030SS
Material: Type 303 Stainless Steel



Produce a large volume, fine mist or a hard hitting spray with these adjustable liquid nozzles.

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.

Spray Nozzles

Model	5 PSI/0.3 BAR Liquid			15 PSI/1.0 BAR Liquid			25 PSI/1.7 BAR Liquid			35 PSI/2.4 BAR Liquid			55 PSI/3.8 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/BAR	Liquid PSI/BAR	A in	B in	C in	Max. Depth feet/m																					
AW5010SS	---	---	---	---	---	---	28	1.9	33	125	7.6	215	40	2.8	28.8	109	11.0	312	58	4.0	66	250	11.7	331	30	2.1	25	17	12.5	31.8	18	46	26	66	18	5.5						
AW5020SS	10	0.69	32	121	12.0	340	26	1.8	36.8	139	21.8	617	44	3.0	40.8	154	33.5	949	58	4.0	49.2	186	41.2	1167	60	4.1	49	185	13.4	379	40	2.8	35	2.4	13	33.0	19	48	26	66	20	6.1
AW5030SS	14	0.97	13.2	50	16.2	459	32	2.2	21	79	27.7	784	48	3.3	26.4	100	38.2	1082	62	4.3	36	136	44.7	1266	60	4.1	35	2.4	15	38.1	18	46	22	56	40	12.2						
	---	---	---	---	---	---	34	2.3	15.6	59	29.6	838	50	3.4	20.4	77	39.1	1107	65	4.5	27	102	46.9	1328	80	5.5	115	435	45.6	1291	12	0.8	5	0.3	15	38.1	19	5	24	64	22	6.7
	12	0.83	20.4	77	14.5	411	30	2.1	28.8	109	25.6	725	44	3.0	40.8	154	33.5	949	58	4.0	49.2	186	41.2	1167	60	4.1	49	185	13.4	379	40	2.8	35	2.4	13	33.0	19	48	26	66	20	6.1
	10	0.69	31.2	118	12.8	362	18	1.2	11.2	42.4	14.6	413	26	1.8	180	681	170	481	36	2.5	210	795	21.2	600	54	3.7	26.4	999	28.2	799	10	0.7	5	0.3	16	40.6	21	53	31	79	20	6.1
	12	0.83	18.6	70	15.15	429	20	1.4	87	329	16.5	467	30	2.1	138	522	206	583	40	2.8	177	670	25.0	708	62	4.3	21.8	818	36	1020	20	1.4	15	10	16	40.6	20.5	52	27	69	22	6.7
	---	---	---	---	---	---	22	1.5	72	273	18.5	524	36	2.5	83.4	316	26.7	756	48	3.3	102	386	32.5	920	70	4.8	110	568	42.4	1201	44	3.0	35	2.4	13	33.0	17	43	22	56	35	10.7
	---	---	---	---	---	---	24	1.7	60	227	20.4	578	40	2.8	61.2	232	31.0	878	52	3.6	82.2	311	36.7	1039	78	5.2	151	420	48.1	1362	64	4.4	35	2.8	13.5	34.3	17	43	22	56	34	13.4

Air Atomizing Spray Nozzles

Internal Mix Flat Fan Pattern - 1/2 NPT

Model AF5010SS and AF5020SS

1/2 NPT internal mix flat fan pattern atomizing nozzles are designed with efficiency in mind. Especially good for vertical or horizontal assembly lines, the broad thin pattern of these larger atomizing nozzles makes efficient use of your expensive liquids. Their output can be adjusted for a very light film or a heavy coat of atomized liquid. Whether it's applying paint to hanging sheet metal, or using a water mist to cool a laminate web, flat fan atomizing nozzles cover a wide flat area, ideal for products moving on a conveyor.

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



Model: AF5010SS
Material: Type 303 Stainless Steel

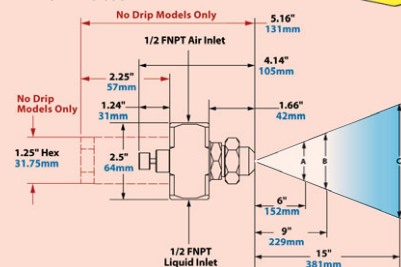


Use the adjustable liquid valve to apply just the right amount of liquid upon your application.



Model: AF5020SS
Material: Type 303 Stainless Steel

Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com

No Drip Only Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.

Need Help Choosing The Best Atomizing Nozzle For Your Application?

Not sure which atomizing nozzle is required?

Our Application Engineers can assist you in determining the correct model.

Call 1-800-903-9247 to speak with an Application Engineer.

Model		Spray Dimensions														Max. Depth feet/m								
		Pressure						Width																
		Air PSI/BAR		Liquid PSI/BAR		in		A		B		C												
AF5010SS	20	1.4	10	0.7	25	64	34	86	45	114	14	4.3	40	2.8	20	1.4	28	71	36	91	46	117	18	5.5
	50	3.4	25	1.7	29	74	38	91	48	122	22	6.7	70	4.8	40	2.8	32	81	42	107	51	130	27	8.2
	10	0.7	5	0.3	21	53	27	69	36	91	13	4.0	20	1.4	15	1.0	34	86	42	107	52	132	15	4.6
AF5020SS	44	3.0	35	2.4	39	99	47	119	64	163	19	5.8	64	4.4	55	3.8	40	102	50	127	68	173	20	6.1

Model	5 PSI/0.3 BAR Liquid					15 PSI/1.0 BAR Liquid					25 PSI/1.7 BAR Liquid					35 PSI/2.4 BAR Liquid					55 PSI/3.8 BAR Liquid													
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM													
AF5010SS	---	---	---	---	---	28	1.9	33.6	127	23.4	663	44	3.0	38.4	145	32.4	918	58	4.0	46.2	175	40.3	1141	---	---	---	---	---	---					
	---	---	---	---	---	30	2.1	25.2	95	25.3	716	48	3.3	35.8	136	36.2	1025	62	4.3	34.8	132	43.5	1232	---	---	---	---	---	---					
	---	---	---	---	---	34	2.3	12.6	48	28.7	813	50	3.4	18	68	38.0	1076	65	4.5	25.2	95	46.0	1303	---	---	---	---	---	---					
	---	---	---	---	---	36	2.5	11.5	44	31.2	884	60	4.1	3.5	13	46.0	1303	70	4.8	16.2	61	49.7	1408	---	---	---	---	---	---					
	---	---	---	---	---	10	0.69	18	68	18.0	510	18	1.2	87.6	332	15.6	442	26	1.8	150	568	17.9	507	36	2.5	177	670	22.3	632	54	3.7	231	874	29.3
AF5020SS	12	0.83	6	23	6.0	170	20	1.4	62.4	236	18.4	521	30	2.1	99	375	22.3	632	40	2.8	132	500	26.6	753	60	4.1	186	704	35.6	1008				
	---	---	---	---	---	22	1.5	45.6	173	20.6	583	36	2.5	50.4	191	29.9	847	46	3.2	76.8	291	34.4	974	68	4.7	108	409	44.4	1257					
	---	---	---	---	---	24	1.7	30.6	116	23.3	660	40	2.8	26.4	100	35.2	997	52	3.6	38.4	145	41.5	1175	76	5.2	66	250	53.13	1505					

Air Atomizing Spray Nozzles



Internal Mix 360° Hollow Circular Pattern - 1/2 NPT



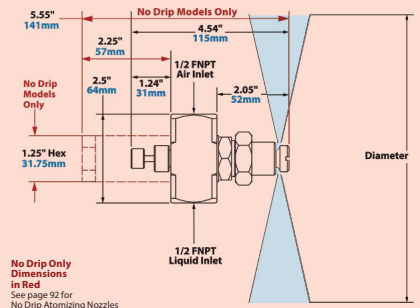
Model: AT5010SS
Material: Type 303 Stainless Steel

Model AT5010SS

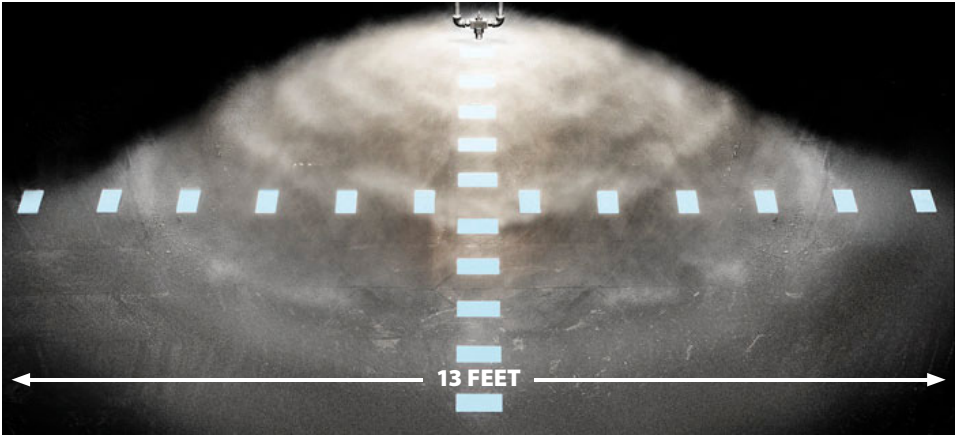
1/2 NPT internal mix 360° nozzles are designed for applications where the spray pattern must be oriented away from the nozzle in all directions. These larger 360° nozzles are ideal where a smooth, even coating is needed on the ID of pipe or similar ductwork. They also work great for operations where a mist over a broad area is needed, such as dust suppression, humidification and cooling.

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

Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 97.



360° circular pattern nozzles can be used to coat inside diameters or cover a broad area up to 13' (4m).

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																				
	Air Pressure	GPH/LPH	SCFM/SLPM	Air Pressure	GPH/LPH	SCFM/SLPM	Air Pressure	GPH/LPH	SCFM/SLPM	Air Pressure	GPH/LPH	SCFM/SLPM	Air Pressure	GPH/LPH	SCFM/SLPM	Pressure	Diameter																			
	PSI/BAR			PSI/BAR			PSI/BAR			PSI/BAR			PSI/BAR			in	cm																			
AT5010SS	14	1.0	54	204	13.7	388	24	1.7	100	379	17.3	490	36	2.5	114	431	23.7	671	48	3.3	132	500	29.6	838	72	5.0	150	568	41.5	1175	16	1.1	10	0.7	56	142
	16	1.1	33.6	127	16.3	462	28	1.9	66	250	21.8	617	40	2.8	83	314	28.0	793	54	3.7	85	322	36.2	1025	76	5.2	120	454	45.6	1291	42	2.9	30	2.1	112	284
	18	1.2	16.8	64	18.5	524	32	2.2	32.5	123	26.7	756	46	3.2	38.4	145	34.6	980	60	4.1	42	159	42.7	1209	78	5.4	108	409	47.9	1357	56	3.9	40	2.8	144	366
	20	1.4	10.8	41	20.0	566	36	2.5	12	45	30.8	872	50	3.4	14.4	55	39.1	1107	66	4.6	15.6	59	49.9	1413	82	5.7	84	318	51.5	1458	80	5.5	60	4.1	156	396

Air Atomizing Spray Nozzles



Siphon Fed Round Pattern - 1/2 NPT



Model: SR501055
Material: Type 303 Stainless Steel

Model SR501055

1/2 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a heavy coating is needed at a specific area. Flow rate of these larger atomizing nozzles is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 24" or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. 1/2 NPT siphon fed round pattern nozzles provide the most liquid flow of any siphon fed nozzle.

Siphon or gravity fed for non-pressurized applications.



Spray Nozzles

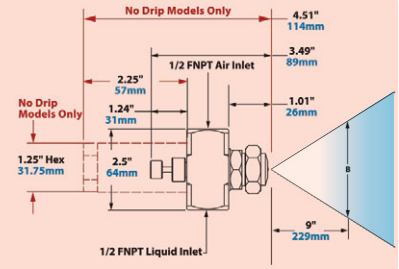
Use a siphon fed nozzle when no liquid pressure is available.

Air and Liquid Caps are Interchangeable!



Changing liquid volume and/or liquid air pattern can be done in the field. EXAIR's vast selection of caps are all interchangeable!

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red
See page 92 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 97.

Model	Liquid Flow in GPH/LPH														Spray Dimensions at 8" (20cm) Siphon Height									
	Air		Gravity Head					Siphon Height							Air		Width		Max. Depth feet/m					
	Pressure PSI/BAR	SCFM/SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	Pressure PSI/BAR	in		cm				
SR501055	20	1.4	19.3	547	---	---	---	---	22.1	84	14.3	54	---	---	---	20	1.4	6	15	22	6.7			
	30	2.1	25.2	714	---	---	---	---	28.6	108	25.7	97	12.3	47	---	30	2.1	6	15	25	7.6			
	40	2.8	32.8	929	---	---	56.8	---	31.5	119	28.4	107	19.6	74	---	40	2.8	6	15	28	8.5			
	50	3.4	36.7	1039	61	231	57.4	217	42.8	162	32.1	121	30.2	114	21.8	83	---	50	3.4	6	15	29	8.8	
	60	4.1	42.2	1195	59.1	224	57.4	217	43.8	166	33.1	125	33	125	25.7	97	9.9	37	60	4.1	6	15	31	9.4
	70	4.8	47.7	1351	66	250	58.6	222	43.8	166	35.3	134	35.3	134	29.7	112	12.5	47	70	4.8	6	15	35	10.7
	80	5.5	52.9	1498	68.3	259	59.1	224	44.5	168	44.6	169	36.9	140	31.5	119	17.5	66	80	5.5	6	15	37	11.3

No Drip Air Atomizing Spray Nozzles



Eliminate drips to conserve valuable liquids and improve product finishes!

What Are No Drip Atomizing Nozzles?

EXAIR's patented[†] no drip atomizing spray nozzles work in the same way our standard atomizing nozzles do, but have the added benefit of positively stopping liquid flow when compressed air is shut off. All models use stainless steel construction for durability and corrosion resistance.

EXAIR's no drip atomizing nozzles are available in 3 basic families:

Internal Mix:

Internal mix nozzles mix the liquid and air inside the air cap and produce the finest atomization. Internal mix nozzles can be used on liquids with a viscosity up to 300 cP. Both air and liquid sides are pressure fed. **No Drip Internal Mix Atomizing Nozzles are for pressure fed applications not requiring independent air and liquid control.**

External Mix:

External mix nozzles have the highest flow rates and allow the air and liquid flows to be adjusted independently. These nozzles are best where precise liquid flow is needed. External mix nozzles can be used on liquids with a viscosity above 300 cP. Both air and liquid sides are pressure fed. **No Drip External Mix Atomizing Nozzles are for pressure fed applications with independent air and liquid control.**

Siphon Fed:

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 (91cm). Siphon fed nozzles can be used on liquids with a viscosity up to 200 cP. **No Drip Siphon Fed Atomizing Nozzles are siphon or gravity fed for non-pressurized applications.**

[†] Patent #9156045

Why No Drip Atomizing Nozzles?

When spraying any type of liquid, post spray liquid flow can cause big problems. Unwanted drips can ruin product finishes on painted or coated surfaces. In addition, excess liquid flow wastes precious resources such as expensive coatings, chemicals or water. EXAIR's no drip atomizing nozzles are ideal where no post-spray drip is permissible. When the compressed air supply is shut off, the no drip nozzle positively seals off the flow of liquid eliminating the possibility of drips. They can be used in any situation that our standard atomizing nozzles can be used, including Siphon Fed applications. Unlike some manufacturers, there's no need to run a separate air line to control the no drip mechanism. The same compressed air used to combine and atomize liquid in a variety of patterns is used to open a valve allowing liquid to flow. That makes these ideal for use with EXAIR's money and energy saving EFC (see page 7).

EXAIR's no drip nozzles do not change flow rates from standard atomizing nozzles. Operations that require up to 180 cycles per minute can be achieved. Minimum operating air pressure of 30 PSIG (2.1 BAR) required for 1/4 and 1/2 NPT nozzles. 20 PSIG (1.4 BAR) is required for 1/8 NPT nozzles.



Mounting Brackets are available - Model 901786 for 1/8 NPT, Model 901318 for 1/4 NPT and Model 901556 for 1/2 NPT atomizing nozzles.

Applications

- Painting
- Coating
- Rinsing
- Cooling
- Quenching
- Wetting (moistening)
- Humidification
- Dust Control

Advantages

- No post spray drip
- Adjustable
- Easily used with an EFC
- Minimizes air and liquid consumption
- All stainless steel construction
- Fine atomization
- Interchangeable liquid and air caps
- Compact

No Drip Air Atomizing Spray Nozzles



No Drip Internal Mix Atomizing Nozzles are for pressure fed applications not requiring independent air and liquid control.



NO DRIP INTERNAL MIX ATOMIZING NOZZLES

Model	Description
No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles	
AN9010SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 2.63 GPH/9.96 LPH Max, 1/8 NPT
AN9020SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 3.33 GPH/12.61 LPH Max, 1/8 NPT
AN9030SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 6.3 GPH/23.85 LPH Max, 1/8 NPT
AN9040SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 12.00 GPH/45.42 LPH Max, 1/8 NPT
AN9050SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 18.93 GPH/71.66 LPH Max, 1/8 NPT
AN2010SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 3.3 GPH/12.5 LPH Max, 1/4 NPT
AN2020SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 9.9 GPH/37.5 LPH Max, 1/4 NPT
AN2030SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 23.0 GPH/87.1 LPH Max, 1/4 NPT
AN2040SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 66.0 GPH/250 LPH Max, 1/4 NPT
AN6010SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 75.6 GPH/286 LPH Max, 1/2 NPT
AN6020SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 231.0 GPH/874 LPH Max, 1/2 NPT
No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles	
AW9010SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 2.60 GPH/9.84 LPH Max, 1/8 NPT
AW9020SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 9.83 GPH/37.22 LPH Max, 1/8 NPT
AW9030SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 15.00 GPH/56.78 LPH Max, 1/8 NPT
AW9040SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 22.33 GPH/84.54 LPH Max, 1/8 NPT
AW2010SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 3.5 GPH/13.2 LPH Max, 1/4 NPT
AW2020SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 8.5 GPH/32.2 LPH Max, 1/4 NPT
AW2030SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 15.0 GPH/56.8 LPH Max, 1/4 NPT
AW2040SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 24.0 GPH/91 LPH Max, 1/4 NPT
AW6010SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 66.0 GPH/250 LPH Max, 1/2 NPT
AW6020SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 115.0 GPH/435 LPH Max, 1/2 NPT
AW6030SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 264.0 GPH/999 LPH Max, 1/2 NPT

Spray Nozzles



Model	Description
No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles	
AF9010SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 3.47 GPH/13.12 LPH Max, 1/8 NPT
AF9020SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 4.27 GPH/16.15 LPH Max, 1/8 NPT
AF9030SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 17.00 GPH/64.35 LPH Max, 1/8 NPT
AF9040SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 28.00 GPH/105.99 LPH Max, 1/8 NPT
AF2010SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 3.2 GPH/12.1 LPH Max, 1/4 NPT
AF2020SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 4.7 GPH/17.8 LPH Max, 1/4 NPT
AF2030SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 11.0 GPH/41.6 LPH Max, 1/4 NPT
AF2040SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 18.3 GPH/69.3 LPH Max, 1/4 NPT
AF2050SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 42.0 GPH/159 LPH Max, 1/4 NPT
AF6010SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 46.2 GPH/175 LPH Max, 1/2 NPT
AF6020SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 231.0 GPH/874 LPH Max, 1/2 NPT
No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles	
AD2010SS	No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles, 6.9 GPH/26 LPH Max, 1/4 NPT
No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles	
AT2010SS	No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles, 14.7 GPH/55.7 LPH Max, 1/4 NPT
AT6010SS	No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles, 150 GPH/568 LPH Max, 1/2 NPT

NO DRIP INTERNAL MIX ATOMIZING NOZZLES

No Drip Air Atomizing Spray Nozzles



No Drip External Mix Atomizing Nozzles are for pressure fed applications with independent air and liquid control.



Model	Description
No Drip External Mix Round Pattern Atomizing Nozzles	
ER2010SS	No Drip External Mix Round Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
ER2020SS	No Drip External Mix Round Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
ER2030SS	No Drip External Mix Round Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
ER2040SS	No Drip External Mix Round Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT
ER2050SS	No Drip External Mix Round Pattern Atomizing Nozzles, 60.0 GPH/227 LPH Max, 1/4 NPT
No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles	
EF9010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 2.00 GPH/7.57 LPH Max, 1/8 NPT
EF9020SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 2.93 GPH/11.09 LPH Max, 1/8 NPT
EF9030SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 7.67 GPH/29.03 LPH Max, 1/8 NPT
EF9040SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 14.42 GPH/54.59 LPH Max, 1/8 NPT
EF9050SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 25.00 GPH/94.64 LPH Max, 1/8 NPT
EF2010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
EF2020SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
EF2030SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
EF2040SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT
EF6010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 303.0 GPH/1,147 LPH Max, 1/2 NPT
No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles	
EB2010SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
EB2020SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
EB2030SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
EB2040SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT

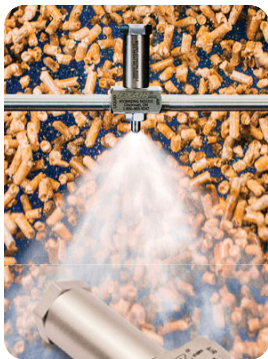
Spray Nozzles

NO DRIP EXTERNAL MIX ATOMIZING NOZZLES

No Drip Air Atomizing Spray Nozzles

No Drip Siphon Fed Atomizing Nozzles are siphon or gravity fed for non-pressurized applications.

Spray Nozzles



Model	Description
No Drip Siphon Fed Round Pattern Atomizing Nozzles	
SR9010SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.53 GPH/2.02 LPH Max, 1/8 NPT
SR9020SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.96 GPH/3.63 LPH Max, 1/8 NPT
SR9030SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 1.98 GPH/7.50 LPH Max, 1/8 NPT
SR9040SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 4.09 GPH/15.48 LPH Max, 1/8 NPT
SR9050SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 5.12 GPH/19.38 LPH Max, 1/8 NPT
SR2010SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.8 GPH/3.0 LPH Max, 1/4 NPT
SR2020SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 1.9 GPH/7.2 LPH Max, 1/4 NPT
SR2030SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 5.8 GPH/22.0 LPH Max, 1/4 NPT
SR2040SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 15.0 GPH/56.8 LPH Max, 1/4 NPT
SR6010SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 68.3 GPH/259 LPH Max, 1/2 NPT
No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles	
SF9010SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 0.43 GPH/1.62 LPH Max, 1/8 NPT
SF9020SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.52 GPH/5.75 LPH Max, 1/8 NPT
SF9030SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.45 GPH/5.49 LPH Max, 1/8 NPT
SF2010SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 0.4 GPH/1.5 LPH Max, 1/4 NPT
SF2020SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.2 GPH/4.5 LPH Max, 1/4 NPT
SF2030SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.9 GPH/7.2 LPH Max, 1/4 NPT

NO DRIP SIPHON FED ATOMIZING NOZZLES



Droplet Size

One of the primary reasons atomizing spray nozzles are used is because of their fine droplet size. Benefits of fine droplet size include even coating and liquid conservation. For reference, a large raindrop is around 6,000 microns (0.236") in diameter. Standard liquid nozzles produce droplet sizes ranging from 4,000 microns (0.157") down to 300 microns (0.012") in diameter. EXAIR's Atomizing Nozzles produce minuscule droplet sizes in the range of 100 microns (0.004") to 20 microns (0.0008")!

Droplet size can be adjusted by varying either the air or liquid pressure. An increase in air pressure or decrease in liquid pressure will generally produce a smaller droplet size. Below is a chart showing various models of atomizing air nozzles and their droplet sizes at selected pressures.

Droplet Size			
Model	Liquid Pressure	Air Pressure	Droplet Size μm^*
AN1020SS	20 PSI	40 PSI	71
	40 PSI	65 PSI	83
ER1020SS	5 PSI	40 PSI	39
	20 PSI	40 PSI	57
SR1020SS	4" Siphon Height	20 PSI	25
	4" Siphon Height	40 PSI	22

* Volume Median Diameter $D_v(50.0)$ of liquid droplets.
 $1 \mu\text{m} = 1 \text{ micron} = 0.00004"$. All tests performed with water.

Spray Angle

The Spray Angle is the trigonometric angle created by the width of the spray pattern and the distance at which it is measured. This angle can vary greatly within a given family of atomizing nozzles depending on flow rates and pressures, but will generally fall into the ranges below:

Spray Angle		
Family	Minimum Angle	Maximum Angle
Internal Mix Narrow Angle Round Pattern - AN1010SS, AN2010SS, etc.	20°	45°
Internal Mix Wide Angle Round Pattern - AW1010SS, AW2010SS, etc.	50°	90°
Internal Mix Flat Fan Pattern - AF1010SS, AF2010SS, etc.	50°	120°
Internal Mix Deflected Flat Fan Pattern - AD1010SS, AD2010SS, etc.	67°	90°
External Mix Round Pattern - ER1010SS, ER2010SS, etc.	25°	60°
External Mix Narrow Angle Flat Fan Pattern - EF1010SS, EF2010SS, etc.	35°	70°
External Mix Wide Angle Flat Fan Pattern - EB1010SS, EB2010SS, etc.	50°	105°
Siphon Fed Round Pattern - SR1010SS, SR2010SS, etc.	20°	50°
Siphon Fed Flat Fan Pattern - SF1010SS, SF2010SS, etc.	50°	100°

Spray Nozzles



Liquid Atomizing Spray Nozzles



Pressurized liquid nozzles increase liquid flow for cooling, washing and rinsing!

What are Liquid Atomizing Spray Nozzles?

EXAIR's Liquid Atomizing Spray Nozzles require no air to operate. They produce droplets by spinning the liquid and breaking its surface tension through a precision orifice or by impacting the liquid on to a surface of the nozzle. Compared to EXAIR's Air Atomizing Spray Nozzles, liquid atomizing spray nozzles generate more liquid volume and produce a coarse spray pattern. The higher liquid flow rates benefit some common industrial applications like cleaning, cooling, rinsing, dust suppression and washing. Many liquid atomizing spray nozzles operate well when the liquid they are spraying contains particulate or is a slurry.



Why Liquid Atomizing Spray Nozzles?

They are good general-purpose nozzles for industry and are commonly used with inexpensive liquids like water, rinse aids or detergents while also very effective with chemicals, pesticides and herbicides. Adjustment of the liquid flow rate can be done with varying liquid pressure but without the same adjustability or refinement of Air Atomizing Spray Nozzles. Their smaller footprint allows for mounting in smaller spaces and with less plumbing required, since no air line is needed. Liquid nozzles, made of Type 303 stainless steel are durable and rugged, with no moving parts and have a maximum operating temperature of 800°F (427°C).



Applications

- Cooling
- Quenching
- Coating
- Dust suppression
- Washing
- Rinsing

Advantages

- High liquid flow rates
- Increase the liquid's surface area
- Increase the liquid coverage area on your target
- All stainless steel construction
- Compact footprint
- Versatile



Liquid Atomizing Spray Nozzles



FullStream™ Cone Nozzles - 1/4 NPT



Model: FL1008SS

Material: Type 303 Stainless Steel



Model: FL1010SS

Material: Type 303 Stainless Steel



Model: FL1011SS

Material: Type 303 Stainless Steel

Model FL1008SS, FL1010SS and FL1011SS

EXAIR's 1/4 NPT FullStream Cone Nozzles, with a full cone spray pattern, are among the most common type of spray nozzle. Full cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry. Their tangential flow design is vaneless, which creates wide open internal features to resist clogging. This produces a uniform distribution in a full cone round pattern and medium to large droplets. Their right-angle design is compact and operates at up to 250 PSI liquid pressure. FullStream nozzles also work well with liquids containing particulate.

Compared to EXAIR's Air Atomizing Spray Nozzles the FullStream will have higher liquid flow rates.

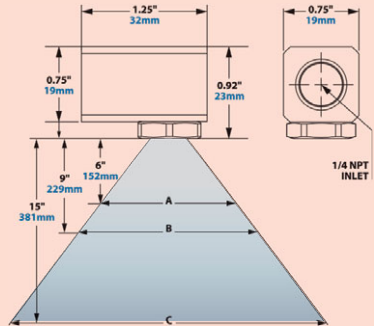
For maximum liquid conservation and spray control visit page 70.



1/4 NPT FullStream Cone Nozzle with cone spray pattern is rinsing anodized aluminium pipe.

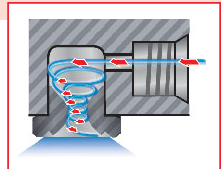
Dimensions and Spray Pattern

DOWNLOAD drawings at EXAIR.com



How FullStream and HollowStream Cone Nozzles Work

With FullStream and HollowStream nozzles, the atomizing fluid is supplied into the body of the nozzle creating a swirling action within the vortex chamber. This vortex produces a full cone spray pattern when the precisely machined nozzle breaks the liquid surface tension as it exits the orifice at a controlled spray angle.



		FullStream Cone Nozzles							Spray Angle											
Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM								Inlet			Width					
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	80 psi	Pressure PSI/BAR	A		B		C			
1/4 NPT	FL1008SS	8	0.109"	GPM	0.50	0.60	0.70	0.80	1.15	1.55	1.80	7	0.5	5.7	14	8.6	22	14.3	36	
				LPM	1.89	2.27	2.65	3.03	4.35	5.87	6.81	20	1.4	7.4	19	11.0	28	18.4	47	
				GPM	1.89	2.27	2.65	3.03	4.35	5.87	6.81	60	4.1	8.4	21	12.6	32	21.0	53	
	FL1010SS	10	0.125"	GPM	0.48	0.67	0.83	1.00	1.34	1.88	2.36	7	0.5	6.8	17	10.2	26	17.0	43	
				LPM	1.82	2.54	3.14	3.79	5.07	7.12	8.93	20	1.4	8.7	22	13.1	33	21.8	55	
				GPM	1.82	2.54	3.14	3.79	5.07	7.12	8.93	60	4.1	10.1	26	15.1	38	25.2	64	
	FL1011SS	11	0.144"	GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	7	0.5	6.8	17	10.2	26	17.0	43	
				LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	20	1.4	8.7	22	13.1	33	21.8	55	
				GPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	60	4.1	10.1	26	15.1	38	25.2	64	

Liquid Atomizing Spray Nozzles

FullStream™ Cone Nozzles - 3/8 NPT



Model: FL30115S
Material: Type 303 Stainless Steel



Model: FL30135S
Material: Type 303 Stainless Steel



Model: FL30165S
Material: Type 303 Stainless Steel



Model: FL30205S
Material: Type 303 Stainless Steel



Model: FL30235S
Material: Type 303 Stainless Steel



Model: FL30265S
Material: Type 303 Stainless Steel



Model: FL30295S
Material: Type 303 Stainless Steel

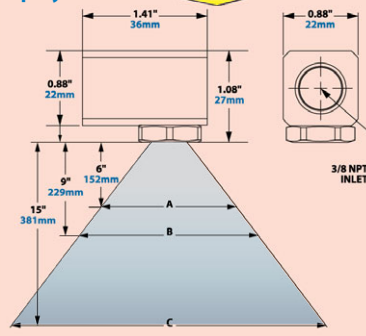
Model FL30115S, FL30135S, FL30165S, FL30205S, FL30235S, FL30265S and FL30295S

EXAIR's 3/8 FullStream Cone Nozzles, with a full cone spray pattern, are among the most common type of spray nozzles. Full cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry. Their tangential flow design is vaneless, which creates wide open internal features to resist clogging. This produces a uniform distribution in a full cone round pattern and medium to large droplets. Their right-angle design is compact and operates at up to 250 PSI liquid pressure. FullStream nozzles also work well with liquids containing particulate.

Compared to EXAIR's Air Atomizing Spray Nozzles the FullStream will have higher liquid flow rates.

For maximum liquid conservation and spray control visit page 70.

Dimensions and Spray Pattern



3/8 NPT FullStream Cone Nozzle washing the inside of a 55 gallon drum.



Inlet Connection	Model	Capacity	Max Free Passage	FullStream Cone Nozzles															
				Flow Rate GPM/LPM															
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi									
3/8 NPT	FL30115S	11	0.128"	GPM	0.57	0.76	0.91	1.10	1.52	2.20	2.70	LPM	2.16	2.88	3.44	4.16	5.75	8.33	10.22
				LPM	0.75	0.95	1.13	1.30	1.86	2.60	3.34	2.84	3.60	4.28	4.92	7.04	9.84	12.64	
	FL30135S	13	0.144"	GPM	0.98	1.10	1.25	1.60	2.23	2.90	3.60	LPM	3.71	4.16	4.73	6.06	8.44	10.98	13.63
				LPM	1.22	1.64	1.88	2.00	2.98	4.24	4.82	4.62	6.21	7.12	7.57	11.28	16.05	18.24	
	FL30165S	16	0.154"	GPM	1.36	1.76	1.96	2.30	3.18	4.56	5.38	LPM	5.15	6.66	7.42	8.71	12.04	17.26	20.36
				LPM	1.26	1.80	2.02	2.60	3.30	5.18	6.12	4.77	6.81	7.65	9.84	12.49	19.61	23.17	
	FL30205S	20	0.172"	GPM	1.30	1.84	2.28	2.90	3.62	5.48	6.48	LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53
				LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53								
	FL30235S	23	0.189"	GPM	1.26	1.80	2.02	2.60	3.30	5.18	6.12	LPM	4.77	6.81	7.65	9.84	12.49	19.61	23.17
				LPM	1.26	1.80	2.02	2.60	3.30	5.18	6.12								
	FL30265S	26	0.204"	GPM	1.30	1.84	2.28	2.90	3.62	5.48	6.48	LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53
				LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53								
FL30295S	29	0.221"	GPM	1.30	1.84	2.28	2.90	3.62	5.48	6.48	LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	
			LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53									

Inlet	Pressure PSI/BAR	Spray Angle													
		A			B			C							
		in	cm	in	cm	in	cm	in	cm						
7	0.5	8.1	21	12.1	31	20.2	51	20	1.4	9.9	25	14.8	38	24.7	63
60	4.1	10.4	26	15.6	40	26.1	66	7	0.5	7.6	19	11.5	29	19.1	49
20	1.4	9.0	23	13.6	35	22.6	57	60	4.1	10.4	26	15.6	40	26.1	66
7	0.5	7.6	19	11.5	29	19.1	49	20	1.4	9.7	25	14.6	37	24.3	62
60	4.1	10.4	26	15.6	40	26.1	66	7	0.5	8.4	21	12.6	32	21.0	53
20	1.4	9.9	25	14.8	38	24.7	63	60	4.1	11.2	28	16.8	43	28.0	71
7	0.5	9.0	23	13.6	35	22.6	57	20	1.4	10.2	26	15.4	39	25.6	65
60	4.1	11.2	28	16.8	43	18.0	46	7	0.5	9.7	25	14.6	37	24.3	62
20	1.4	10.8	27	16.2	41	27.0	69	60	4.1	12.0	30	18.0	46	30.0	76
7	0.5	9.9	25	14.8	38	24.7	63	20	1.4	10.8	27	16.2	41	27.0	69
60	4.1	12.0	30	18.0	46	30.0	76								



Liquid Atomizing Spray Nozzles

FullStream™ Cone Nozzles - 1/2 NPT



Model FL5032SS, FL5040SS, FL5048SS, FL5056SS, FL5064SS and FL5072SS

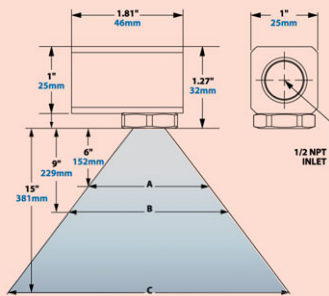
EXAIR's 1/2 NPT FullStream Cone Nozzles, with a full cone spray pattern, are among the most common type of spray nozzles. Full cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry. Their tangential flow design is vaneless, which creates wide open internal features to resist clogging. This produces a uniform distribution in a full cone round pattern and medium to large droplets. Their right-angle design is compact and operates at up to 250 PSI liquid pressure. FullStream nozzles also work well with liquids containing particulate.

Compared to EXAIR's Air Atomizing Spray Nozzles the FullStream will have higher liquid flow rates.

For maximum liquid conservation and spray control visit page 70.

Dimensions and Spray Pattern

DOWNLOAD 3 drawings at EXAIR.com



1/2 NPT FullStream Cone Nozzle with cone spray pattern is cleaning red potatoes.

		FullStream Cone Nozzles							Spray Angle										
Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM							Inlet			Width					
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	Pressure PSI/BAR	A in	B cm	C cm	in	C cm			
1/2 NPT	FL5032SS	32	0.201"	GPM	1.74	2.46	2.80	3.20	4.46	6.28	7.30	7	0.5	9.4	23.9	14.1	35.81	23.4	59.4
				LPM	6.59	9.31	10.60	12.11	16.88	23.77	27.63	20	1.4	10.1	25.7	15.1	38.3	25.2	64.0
	FL5046SS	40	0.242"	GPM	2.68	3.14	3.52	4.00	5.60	7.80	8.76	7	0.5	10.1	25.7	15.1	38.4	25.2	64.0
				LPM	10.14	11.89	13.32	15.14	21.20	29.53	33.16	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL5048SS	48	0.281"	GPM	3.06	3.56	3.96	4.80	6.81	9.58	11.73	7	0.5	10.1	25.7	15.1	38.4	25.2	64.0
				LPM	11.28	13.48	15.00	18.17	25.78	39.26	44.40	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL5056SS	56	0.295"	GPM	3.32	4.18	4.67	5.60	7.89	11.22	13.74	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				LPM	12.57	15.82	17.68	21.20	29.87	42.47	52.01	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL5064SS	64	0.328"	GPM	3.50	4.50	5.15	6.40	9.13	12.70	15.81	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				LPM	13.25	17.03	19.49	24.23	34.56	48.07	59.85	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL5072SS	72	0.359"	GPM	4.08	5.00	6.17	7.20	10.17	14.40	17.64	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				LPM	15.44	18.93	23.36	27.25	38.50	54.51	66.77	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				GPM															
				LPM															

Liquid Atomizing Spray Nozzles

HollowStream™ Cone Nozzles – 1/4 NPT



Model: HL1001SS

Material: Type 303 Stainless Steel



Model: HL1002SS

Material: Type 303 Stainless Steel



Model: HL1003SS

Material: Type 303 Stainless Steel



Model: HL1005SS

Material: Type 303 Stainless Steel



Model: HL1008SS

Material: Type 303 Stainless Steel



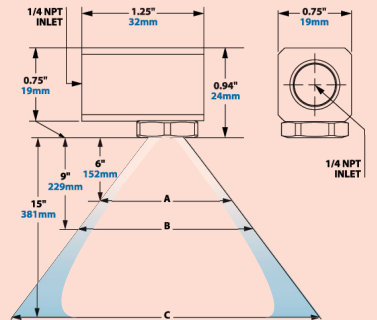
Model: HL1011SS

Material: Type 303 Stainless Steel

Model HL1001SS, HL1002SS, HL1003SS, HL1005SS, HL1008SS and HL1011SS

EXAIR's 1/4 NPT HollowStream Cone Nozzles produce a ring of liquid upon your target and are among the most common type of spray nozzles. Hollow cone spray nozzles generally use less liquid than full cone spray nozzles. These nozzles will be used when cooling, cleaning, washing, rinsing and dust suppression can be achieved with less liquid than a full cone nozzle. Their tangential flow design is vaneless which creates wide open internal features to resist clogging. They produce a uniform distribution in a hollow cone round pattern and medium to large droplets. The right-angle design is compact and operates at up to 250 PSI liquid pressure. HollowStream nozzles also work well with liquids containing particulate.

Dimensions and Spray Pattern



Compared to EXAIR's Air Atomizing Spray Nozzles the HollowStream will have higher liquid flow rates.

For maximum liquid conservation and spray control visit page 70.

See page 99 for How the FullStream and HollowStream Cone Nozzles Work.

		HollowStream Cone Nozzles								Spray Angle									
Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM								Inlet		Width					
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	Pressure PSI/BAR	A in	B cm	C in	C cm				
1/4 NPT	HL1001SS	1	0.052"	GPM	0.06	0.07	0.09	0.10	0.13	0.18	0.21	7	0.5	4.8	12.3	6.1	15.5	7.8	19.8
				LPM	0.23	0.26	0.34	0.38	0.49	0.68	0.79	20	1.4	7.3	18.5	9.2	23.3	11.7	29.7
	HL1002SS	2	0.086"	GPM	0.14	0.17	0.19	0.20	0.27	0.38	0.46	60	4.1	12.1	30.8	15.3	38.8	19.5	49.5
				LPM	0.53	0.64	0.72	0.76	1.02	1.44	1.74	7	0.5	6.1	15.5	8.6	21.7	11.2	28.4
	HL1003SS	3	0.109"	GPM	0.20	0.24	0.28	0.32	0.45	0.63	0.77	20	1.4	9.2	23.3	12.8	32.6	16.8	42.6
				LPM	0.76	0.91	1.06	1.21	1.70	2.38	2.91	60	4.1	15.3	38.8	21.4	54.4	28.0	71.1
	HL1005SS	5	0.120"	GPM	0.27	0.35	0.39	0.49	0.65	0.91	1.12	7	0.5	8.4	21.3	9.7	24.7	14.3	36.3
				LPM	1.02	1.32	1.47	1.85	2.46	3.44	4.23	20	1.4	12.6	32.0	14.6	37.0	21.5	54.5
	HL1008SS	8	0.166"	GPM	0.46	0.59	0.73	0.80	1.16	1.60	2.04	60	4.1	21.0	53.4	24.3	61.7	35.8	90.8
				LPM	1.74	2.23	2.76	3.02	4.38	6.05	7.71	7	0.5	7.1	18.0	7.8	19.8	10.1	25.6
	HL1011SS	11	0.180"	GPM	0.65	0.81	0.93	1.10	1.47	2.03	2.50	20	1.4	10.6	26.9	11.7	29.7	15.1	38.4
				LPM	2.46	3.06	3.52	4.16	5.56	7.67	9.45	60	4.1	17.7	44.9	19.5	49.5	25.2	63.9
				GPM	0.65	0.81	0.93	1.10	1.47	2.03	2.50	7	0.5	9.5	24.2	12.0	30.5	14.8	37.6
				LPM	2.46	3.06	3.52	4.16	5.56	7.67	9.45	20	1.4	14.3	36.4	18.0	45.7	22.2	56.5
												60	4.1	23.9	60.6	30.0	76.2	37.0	94.1

Liquid Atomizing Spray Nozzles

NEW HollowStream™ Cone Nozzles – 3/8 NPT



Model: HL3005SS
Material: Type 303 Stainless Steel



Model: HL3008SS
Material: Type 303 Stainless Steel



Model: HL3010SS
Material: Type 303 Stainless Steel



Model: HL3015SS
Material: Type 303 Stainless Steel



Model: HL3020SS
Material: Type 303 Stainless Steel



Model: HL3025SS
Material: Type 303 Stainless Steel

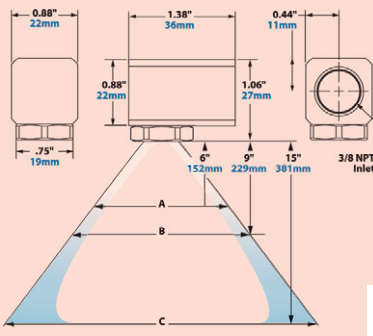


Model: HL3030SS
Material: Type 303 Stainless Steel

Model HL3005SS, HL3008SS, HL3010SS, HL3015SS, HL3020SS, HL3025SS and HL3030SS

EXAIR's 3/8 NPT HollowStream Cone Nozzles produce a ring of liquid upon your target and are among the most common type of spray nozzles. Hollow cone spray nozzles generally use less liquid than full cone spray nozzles. These nozzles will be used for cooling, cleaning, washing, rinsing and dust suppression with less liquid than a full cone nozzle. Their tangential flow design is vaneless which creates wide open internal features to resist clogging. They produce a uniform distribution in a hollow cone round pattern and medium to large droplets. The right-angle design is compact and operates at up to 250 PSI liquid pressure. HollowStream nozzles work well with liquids containing particulate.

Dimensions and Spray Pattern



DOWNLOAD Drawings at EXAIR.com

Spray Nozzle

Compared to EXAIR's Air Atomizing Spray Nozzles the HollowStream will have higher liquid flow rates.

For maximum liquid conservation and spray control visit page 70.

See page 99 for How the FullStream and HollowStream Cone Nozzles Work.

		HollowStream Cone Nozzles									Spray Angle										
Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM									Inlet			Width					
				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	Pressure PSI/BAR	A in	B cm	C in	A cm	B in	C cm			
3/8 NPT	HL3005SS	5	0.111"	GPM	0.29	0.34	0.39	0.45	0.62	0.75	0.86	1.04	7	0.5	10.1	25.6	15.1	38.4	25.2	63.9	
				LPM	1.11	1.30	1.48	1.71	2.35	2.83	3.25	3.95	20	1.4	11.0	27.9	16.5	41.9	27.5	69.8	
	HL3008SS	8	0.159"	GPM	0.50	0.60	0.71	0.82	1.12	1.33	1.50	1.80	7	0.5	7.5	19.0	11.2	28.6	18.7	47.6	
				LPM	1.88	2.28	2.68	3.09	4.25	5.04	5.68	6.80	20	1.4	8.4	21.3	12.6	32.0	21.0	53.4	
	HL3010SS	10	0.172"	GPM	0.64	0.75	0.89	1.01	1.36	1.62	1.83	2.47	7	0.5	8.4	21.3	12.6	32.0	21.0	53.4	
				LPM	2.42	2.84	3.36	3.81	5.16	6.13	6.93	9.35	20	1.4	9.5	24.2	14.3	36.4	23.9	60.6	
	HL3015SS	15	0.166"	GPM	0.94	1.10	1.29	1.48	1.98	2.60	2.80	3.60	7	0.5	11.4	28.9	17.1	43.4	28.5	72.3	
				LPM	3.54	4.16	4.88	5.60	7.48	9.84	10.60	13.63	20	1.4	13.1	33.3	19.6	49.9	32.7	83.2	
	HL3020SS	20	0.203"	GPM	1.28	1.50	1.81	2.00	2.75	3.39	3.92	4.53	7	0.5	11.4	28.9	17.1	43.4	28.5	72.3	
				LPM	4.86	5.69	6.86	7.57	10.41	12.84	14.83	17.13	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
	HL3025SS	25	0.219"	GPM	1.45	1.78	2.02	2.45	3.34	4.00	4.52	5.40	7	0.5	10.1	25.6	15.1	38.4	25.2	63.9	
				LPM	5.49	6.75	7.63	9.27	12.65	15.14	17.10	20.44	20	1.4	11.0	27.9	16.5	41.9	27.5	69.8	
HL3030SS	30	0.281"	GPM	1.80	2.30	2.68	3.10	4.23	5.13	6.03	7.28	7	0.5	8.2	20.9	12.4	31.4	20.6	52.4		
			LPM	6.81	8.71	10.13	11.73	15.99	19.40	22.81	27.54	20	1.4	8.7	22.1	13.1	33.2	21.8	55.4		