EXAIR®

MANUFACTURING INTELLIGENT COMPRESSED AIR PRODUCTS SINCE 1983



COAT



COOL



CONSERVE



CLEAN



CONVEY

36 CATALOG

BETE®
PERFORMANCE SPRAY ENGINEERING
DIVISION OF EXAIR

MF MicroWhirl Misting & Fogging Nozzles ..... pg 107
NF Standard Fan Nozzles ..... pg 108
TF Full Cone Spray Nozzles ..... pg 109
MP MaxiPass Maximum Free Passage Nozzles ..... pg 110
WL Full Cone Nozzles ..... pg 111
HC HydroClaw & TW Spiral Tank Washing Nozzles ... pg 112
HWS2 HydroWhirl Stinger & HWM HydroWhirl Mini pg 113
HWP HydroWhirl Poseidon & HWD HydroWhirl Disc pg 114

TECHELP DIRECT 1-800-903-9247

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

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.



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



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



Access our Knowledge Base in "Resources"

- **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



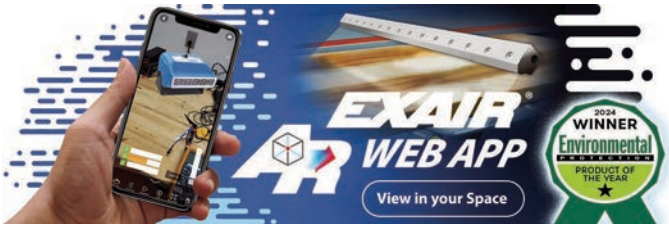
Make social connections

- Watch over 150 videos on EXAIR's YouTube Channel and see product features and benefits, applications, Tips & Tricks, How-to, and our team members.
- Follow our Company on X@EXAIR or our Application Engineers and learn more about promotions, updates on manufacturing, engineering and international industry perspective.
- Connect with us on Facebook at facebook.com/exair or follow us on Linked In, Twitter and Instagram.



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 Augmented Reality Mobile Application

- Browse EXAIR's product offerings and pull up live 3D models
- Orient the model to see how it will fit in your space
- Tap hotspots to learn more about it
- Click the link to purchase the product

Terms and Conditions 4
Efficiency Lab 5



EXAIR Optimization
Minimize compressed air use and detect wasteful leaks
- 6 Steps to Optimization 6
- Electronic Flow Control 7
- Digital Flowmeter 10
- 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
- Adjustable 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



Liquid Atomizing Spray Nozzles
Stainless-steel nozzles to atomize pressured liquids. No air required.
- OmniStream Cone Nozzles, 1/4 NPT 98
- OmniStreamCone Nozzles, 3/8 NPT 99
- OmniStream Cone Nozzles, 1/2 NPT 100
- NEW HollowStream Cone Nozzles, 1/8 NPT 101
- HollowStream Cone Nozzles, 1/4 NPT 102
- HollowStream Cone Nozzles, 3/8 NPT 103
- HollowStream Cone Nozzles, 1/2 NPT 104
- NEW PowerStream Cone Nozzles, 1/8 NPT 105



BETE Hydraulic Nozzles
Industry leading spray technology
- MW MicroWhirl Misting & Fogging Nozzles 107
- NF Standard Fan Nozzles 108
- TF Full Cone Spray Nozzles 109
- MP MaxiPass Maximum Free Passage Nozzles . . 110
- WL Full Cone Nozzles 111
- HC HydroClaw & TW Spiral Tank Washing Nozzles 112
- HWS HydroWhirl Stinger & HWM HydroWhirl Mini 113
- HWP HydroWhirl Poseidon & HWD HydroWhirl Disc 114

115 Safety Air Guns



Safety air guns use engineered air nozzles for high performance

- Chip Shields....116
- VariBlast® Precision Safety Air Guns....117
- VariBlast® Compact Safety Air Guns....118
- Soft Grip Safety Air Guns....120
- Soft Grip Super Air Scraper....123
- Heavy Duty Safety Air Guns....124
- Back Blow Safety Air Guns....125
- TurboBlast® Safety Air Guns....126
- Super Blast Safety Air Guns....128

130 Gen4® Static Eliminators



Eliminate static electricity, dust and shock hazard

- Gen4® Super Ion Air Knife....132
- Static Meter....134
- Gen4® Standard Ion Air Knife....138
- Gen4® Ionizing Bars....140
- Gen4® Super Ion Air Wipes....142
- Gen4® Ion Air Cannon....144
- Gen4® Ion Air Gun....146
- Gen4® Ion Air Jet/Gen4 Stay Set Ion Air Jet....148
- Gen4® Ionizing Point....150
- Gen4® Power Supplies....151
- Intellistat® Ion Air Gun....152
- Intellistat® Ion Air Nozzle....154
- Varistat Bench Ionizer....156

158 E-Vac® Vacuum Generators



Vacuums for lifting, clamping, mounting and placement

- How to Build an E-Vac System....159
- In-Line....160
- Adjustable....163
- Vacuum Cups....165

169 Air Operated Conveyors



Convey parts, materials and waste - with no moving parts

- Line Vac....169
- Threaded Line Vac....175
- Heavy Duty Line Vac....178
- Sanitary Flange Line Vac....180
- Light Duty Line Vac....182

184 Industrial Housekeeping



Reliable vacuums for chip removal, liquid transfer and cleaning

- EasySwitch® Wet-Dry Vac....185
- Reversible Drum Vac....187
- High Lift Reversible Drum Vac....189
- Chip Trapper....191
- High Lift Chip Trapper....193
- Chip Vac....195
- Heavy Duty Dry Vac....197
- Heavy Duty HEPA Vac....199
- Vac-u-Gun....201

203 Vortex Tubes & Spot Cooling



Cold air for industrial spot cooling problems

- Vortex Tubes....203
- Adjustable Spot Cooler....211
- Mini Cooler....214

215 Cold Gun Aircoolant Systems



Cool machining operations with clean, cold air

219 Cabinet Cooler® Systems



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

- How it Works....220
- Selecting the Right Model....220
- Special Cabinet Coolers....221
- Calculating Heat Load....223
- Cabinet Cooler Sizing Guide....224
- NEMA 12 Models....226
- NEMA 4 Models....227
- NEMA 4X Models....228
- Cabinet Cooler System Accessories....229
- Hazardous Location Cabinet Coolers....230
- ATEX Cabinet Coolers....232

234 Accessories



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

- Filters....234
- Regulators....235
- Silencing Mufflers....236
- Valves, Swivels, Thermostats....238
- Magnetic Bases, Stay Sets, Hoses....239
- Air Hoses....239
- Fittings....240
- Receiver Tank....240

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.

VISA MasterCard DISCOVER NOVUS AMERICAN EXPRESS Cards

ICC (International Chamber of Commerce) INCOTERM 2020: EX WORKS (EXAIR, 11510 Goldcoast Dr., Cincinnati, Ohio 45249, USA.)

Delivery 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 +1-513-671-3363
E-mail: orders@exair.com Secure website: www.exair.com

Remit to address (payments only): EXAIR 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.

Built to Last 5 yr. WARRANTY

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

Warranty: 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 LLC 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. The content of the EXAIR Catalog is the intellectual property solely of EXAIR 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 EXAIR.

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

EXAIRLogger, EFC, Digital Flowmeter, Hot Tap 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, OmniStream, PowerStream, 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 LLC.

EXAIR.com®
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

An INTELLIGENT COMPRESSED AIR® Product

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 Practices 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.

Energy ENERGY STAR PARTNER

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, #10,779,698, #9156045 and 11,969,134, others may be U.S. Patent Pending.
EU Regd. Des. No.00770318-0001 and No. 009025463-0001 Ⓓ Mexico No.60723; Canada No.194141, UK Registered Design No. 6211314
Copyright ©2025 EXAIR LLC. All Rights Reserved.



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

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.

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.

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 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.

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

Built to Last 5 yr. WARRANTY
See our Terms & Conditions



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 SR1010SS 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.



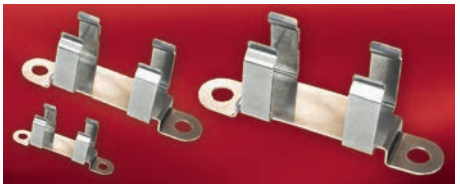
(2) Model EB1030SS atomizing nozzles are used to give a final sanitary rinse prior to labeling wine bottles.

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.

An INTELLIGENT COMPRESSED AIR® Product

Internal Mix Narrow Angle Round Pattern - 1/8 NPT



Model: AN8010SS
Material: Type 303 Stainless Steel

Model: AN8020SS
Material: Type 303 Stainless Steel

Model: AN8030SS
Material: Type 303 Stainless Steel

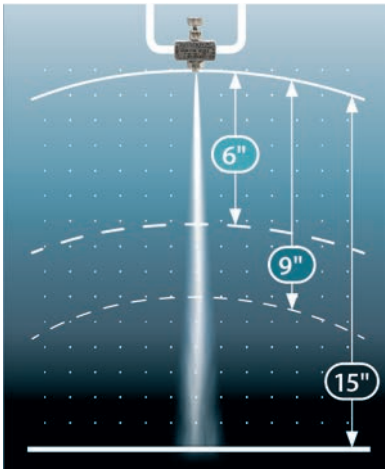
Model: AN8040SS
Material: Type 303 Stainless Steel

Model: AN8050SS
Material: Type 303 Stainless Steel

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.

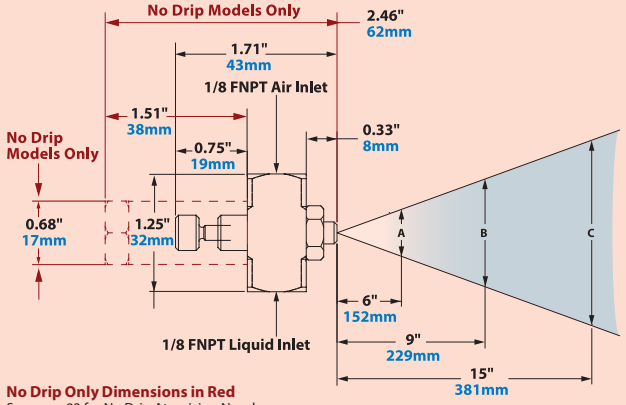
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

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												Model
	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		Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	Max. Depth feet/m		
AN8010SS	10	0.7	0.97	3.7	0.25	7.1	14	1.0	1.83	6.9	0.32	9.1	24	1.7	1.97	7.5	0.52	14.7	32	2.2	2.23	8.4	0.67	19.0	50	3.4	2.63	10.0	0.98	27.7	10	0.7	10	0.7	3	8	3.5	9	4.5	11	3.5	1.1	AN8010SS
	12	0.8	0.80	3.0	0.32	9.1	18	1.2	1.5	5.7	0.39	11.0	28	1.9	1.7	6.4	0.59	16.7	36	2.5	1.97	7.5	0.74	20.9	54	3.7	2.37	9.0	1.02	28.9	18	1.2	20	1.4	3	8	4	10	5	13	5	1.5	
	14	1.0	0.60	2.3	0.4	11.3	22	1.5	1.27	4.8	0.52	14.7	32	2.2	1.37	5.2	0.71	20.1	40	2.8	1.67	6.3	0.84	23.8	58	4.0	2.1	7.9	1.12	31.7	32	2.2	30	2.1	3	8	4	10	5.5	14	7	2.1	
	---	---	---	---	---	---	26	1.8	0.73	2.8	0.67	19.0	38	2.6	0.8	3.0	0.93	26.3	48	3.3	1.00	3.8	1.09	30.9	66	4.6	1.7	6.4	1.21	34.3	48	3.3	40	2.8	3	8	4.5	11	6	15	8	2.4	
AN8020SS	10	0.7	1.33	5.0	0.43	12.2	18	1.2	1.83	6.9	0.71	20.1	24	1.7	2.27	8.6	0.91	25.8	30	2.1	2.63	10.0	1.05	29.7	40	2.8	3.33	12.6	1.31	37.1	10	0.7	10	0.7	2	5	3	8	4	10	5	1.5	AN8020SS
	12	0.8	1.17	4.4	0.5	14.2	20	1.4	1.73	6.5	0.75	21.2	28	1.9	2.07	7.8	0.99	28.0	34	2.3	2.47	9.3	1.12	31.7	46	3.2	3.13	11.8	1.4	39.6	20	1.4	20	1.4	2.5	6	3.5	9	4.5	11	7	2.1	
	14	1.0	1.03	3.9	0.6	17.0	22	1.5	1.63	6.2	0.84	23.8	32	2.2	1.9	7.2	1.09	30.9	38	2.6	2.33	8.8	1.20	34.0	52	3.6	2.87	10.9	1.6	45.3	32	2.2	30	2.1	2.5	6	3.5	9	4.5	11	7	2.1	
	---	---	---	---	---	---	---	---	---	---	---	---	40	2.8	1.57	5.9	1.45	41.0	48	3.3	1.87	7.1	1.53	43.3	70	4.8	2.2	8.3	2.2	62.3	70	4.8	60	4.1	3.5	9	4.5	11	6.5	17	10	3.0	
AN8030SS	12	0.8	2.20	8.3	0.47	13.3	22	1.5	2.9	11.0	0.75	21.2	30	2.1	3.7	14.0	0.96	27.2	36	2.5	4.47	16.9	1.09	30.9	48	3.3	6.3	23.8	1.28	36.2	12	0.8	10	0.7	2	5	3	8	4.5	11	6	1.8	AN8030SS
	16	1.1	1.60	6.1	0.56	15.9	26	1.8	2.43	9.2	0.82	23.2	34	2.3	3.2	12.1	1.00	28.3	40	2.8	4.17	15.8	1.12	31.7	52	3.6	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	
	24	1.7	0.67	2.5	0.95	26.9	38	2.6	1.13	4.3	1.35	38.2	46	3.2	1.8	6.8	1.45	41.0	52	3.6	2.67	10.1	1.49	42.2	64	4.4	4.56	17.3	1.59	45.0	52	3.6	40	2.8	3	8	4	10	6	15	11	3.4	
	28	1.9	0.47	1.8	1.07	30.3	42	2.9	0.77	2.9	1.53	43.3	52	3.6	1.4	5.3	1.76	49.8	60	4.1	2.00	7.6	1.87	52.9	70	4.8	3.8	14.4	1.84	52.1	70	4.8	60	4.1	4	10	5	13	6.5	17	11	3.4	
AN8040SS	16	1.1	4.87	9.6	2.54	71.9	28	1.9	6.60	25.0	3.64	103.0	40	2.8	7.83	29.7	4.70	132.9	48	3.3	9.33	35.3	5.40	153	65	4.5	12.0	45.4	6.70	190	16	1.1	10	0.7	2.5	6	3	8	4	10	10	3.0	AN8040SS
	20	1.4	3.57	11.0	2.92	82.6	32	2.2	5.60	21.2	3.98	112.6	44	3.0	6.87	26.0	4.99	141.3	55	3.8	8.17	30.9	5.98	169	75	5.2	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	13.6	3.60	101.8	44	3.0	2.43	9.2	5.16	146.1	60	4.1	2.80	10.6	6.43	182.0	80	5.5	2.53	9.6	8.58	243	90	6.2	8.17	30.9	9.03	256	80	5.5	40	2.8	3	8	4	10	5.5	14	13	4.0	
	30	2.1	1.03	15.4	4.06	115.0	50	3.4	1.33	5.0	5.92	167.7	70	4.8	1.23	4.7	7.78	220.4	90	6.2	1.27	4.8	9.61	272	100	6.9	6.13	23.2	9.90	280	100	6.9	60	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	1.4	11.63	44.0	2.37	67.1	30	2.1	13.5	51.1	3.42	96.8	38	2.6	15.4	58.2	3.99	113	54	3.7	18.9	71.7	5.17	146	12	0.8	10	0.7	3	8	4	10	6	15	9	2.7	AN8050SS
	14	1.0	6.10	23.1	1.97	55.8	22	1.5	10.53	39.9	2.85	80.7	34	2.3	11.37	43.0	3.92	111.0	42	2.9	14.1	53.3	4.50	127	60	4.1	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	1.7	9.43	35.7	3.11	88.0	38	2.6	9.07	34.3	4.4	124.6	46	3.2	12.3	46.7	4.95	140	65	4.5	15.7	59.4	6.45	183	38	2.6	30	2.1	3	8	4.5	11	6	15	14	4.3	
	---	---	---	---	---	---	32	2.2	5.07	19.2	4.19	118.6	46	3.2	5.6	21.2	5.52	156.3	56	3.9	7.7	29.0	6.24	177	85	5.9	8.13	30.8	8.58	243	85	5.9	60	4.1	4	10	5	13	6.5	17	16	4.9	

Air Atomizing Spray Nozzles

Internal Mix Wide Angle Round Pattern - 1/8 NPT



Model: AW8010SS
Material: Type 303 Stainless Steel

Model: AW8020SS
Material: Type 303 Stainless Steel

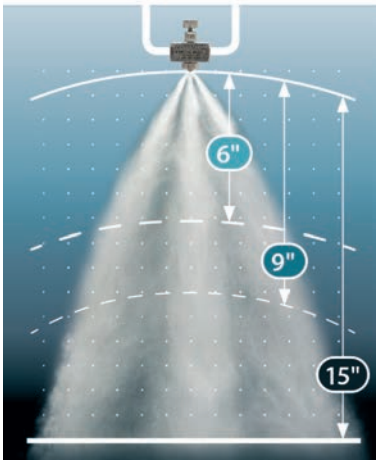
Model: AW8030SS
Material: Type 303 Stainless Steel

Model: AW8040SS
Material: Type 303 Stainless Steel

Model AW8010SS, AW8020SS, AW8030SS and AW8040SS

EXAIR's 1/8 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 prior to shipment.

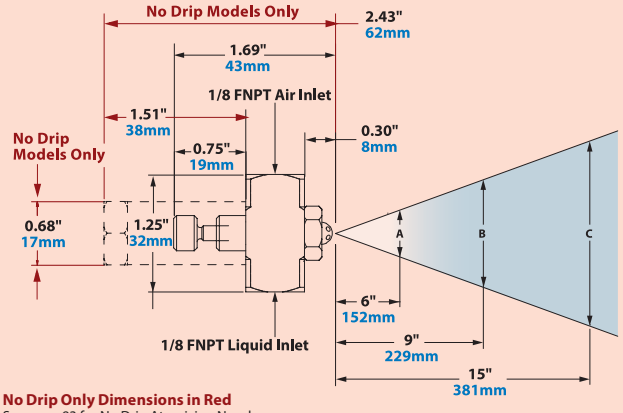
For pressure fed applications not requiring independent air and liquid control.



1/8 NPT Internal Mix Wide Angle Round Pattern atomizing nozzles are perfect for covering broad areas. They are ideal for dust migration, humidification and a variety of cooling applications.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

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												Model
	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		A		B		C					
																																				in	cm	in	cm	in	cm		
AW8010SS	8	0.6	1.10	4.2	0.31	8.8	14	1.0	1.60	6.1	0.33	9.4	22	1.5	2.00	7.6	0.43	12.3	30	2.1	2.00	7.6	0.61	17.2	44	3.0	2.60	9.8	0.69	19.7	8	0.6	10	0.7	5	13	6.5	17	7.5	19	2	0.6	AW8010SS
	10	0.7	0.70	2.6	0.27	7.6	16	1.1	1.40	5.3	0.43	12.1	26	1.8	1.80	6.8	0.52	14.7	34	2.3	1.80	6.8	0.65	18.4	48	3.3	2.20	8.3	0.87	24.6	16	1.1	20	1.4	6	15	8	20	10	25	3	0.9	
	—	—	—	—	—	—	22	1.5	0.60	2.3	0.60	16.9	—	—	—	—	—	—	—	—	—	—	—	—	65	4.5	0.60	2.3	1.56	44.2	26	1.8	30	2.1	7	18	9.0	23	11	28	4	1.2	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65	4.5	60	4.1	7	18	10	25	12	30	4	1.2	
AW8020SS	12	0.8	3.73	14.1	1.65	46.7	22	1.5	5.07	19.2	2.28	64.7	30	2.1	6.40	24.2	2.67	75.4	38	2.6	8.00	30.3	3.05	86.2	54	3.7	9.83	37.2	3.81	108	12	0.8	10	0.7	8	20	9.5	24	11	28	6	1.8	AW8020SS
	14	1.0	3.00	11.4	1.90	53.9	24	1.7	4.43	16.8	2.54	71.9	32	2.2	6.00	22.7	2.92	82.6	42	2.9	6.73	25.5	3.55	100.6	56	3.9	9.33	35.3	4.06	115	24	1.7	20	1.4	8	20	10	25	13	33	8	2.4	
	—	—	—	—	—	—	26	1.8	3.83	14.5	2.79	79.0	36	2.5	4.93	18.7	3.43	97.0	46	3.2	5.77	21.8	4.06	115.0	60	4.1	8.33	31.5	4.57	129	36	2.5	30	2.1	8	20	10	25	13	33	10	3.0	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52	3.6	4.27	16.2	4.82	136.5	75	5.2	5.47	20.7	6.47	183	75	5.2	60	4.1	8	20	10	25	13	33	14	4.3	
AW8030SS	10	0.7	6.37	24.1	1.3	36.8	20	1.4	7.87	29.8	1.87	52.8	30	2.1	10.0	37.9	2.52	71.3	40	2.8	11.3	42.9	3.04	86.0	56	3.9	15.0	56.8	3.21	90.9	12	0.8	10	0.7	7.5	19	10	25	13.5	34	8	2.3	AW8030SS
	12	0.8	5.10	19.3	1.65	46.7	22	1.5	6.73	25.5	2.17	61.4	32	2.2	9.33	35.3	2.73	77.4	42	2.9	10.3	39.1	3.30	93.4	58	4.0	14.5	54.9	3.91	111	22	1.5	20	1.4	7.5	19	10	25	13.5	34	9	2.7	
	14	1.0	3.47	13.1	1.91	54.1	24	1.7	5.93	22.5	2.43	68.8	36	2.5	6.83	25.9	3.39	95.8	46	3.2	8.33	31.5	3.95	111.8	65	4.5	12.0	45.4	4.90	139	36	2.5	30	2.1	7.5	19	10	25	13.5	34	10	3.0	
	—	—	—	—	—	—	26	1.8	4.80	18.2	2.65	75.0	40	2.8	4.07	15.4	4.04	114.3	50	3.4	5.80	22.0	4.47	126.6	75	5.2	6.73	25.5	6.38	181	50	3.4	40	2.8	7.5	19	10	25	13.5	34	11	3.4	
AW8040SS	18	1.2	11.3	42.9	2.89	81.8	30	2.1	14.5	54.9	4.16	117.8	44	3.0	16.3	61.8	5.53	156.5	60	4.1	18.0	68.1	7.04	199.3	80	5.5	22.3	84.5	8.89	252	18	1.2	10	0.7	8	20	10.5	27	12	30	9	2.7	AW8040SS
	26	1.8	9.33	35.3	3.74	105.9	38	2.6	12.7	47.9	5.04	142.8	55	3.8	15.0	56.8	6.72	190.2	80	5.5	14.7	55.5	9.18	259.9	90	6.2	21.0	79.5	9.89	280	38	2.6	20	1.4	8	20	10	25	12	30	11	3.4	
	34	2.3	6.67	25.2	4.58	129.7	60	4.1	6.7	25.2	7.27	205.7	80	5.5	8.67	32.8	9.18	259.9	100	6.9	10.0	37.9	11.1	315.1	—	—	—	—	—	—	55	3.8	30	2.1	7.5	19	10	25	11	28	14	4.3	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80	5.5	40	2.8	7.5	19	10	25	11	28	15	4.6	

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

An INTELLIGENT COMPRESSED AIR® Product

Internal Mix Flat Fan Pattern - 1/8 NPT



Model: AF8010SS
Material: Type 303 Stainless Steel

Model: AF8020SS
Material: Type 303 Stainless Steel

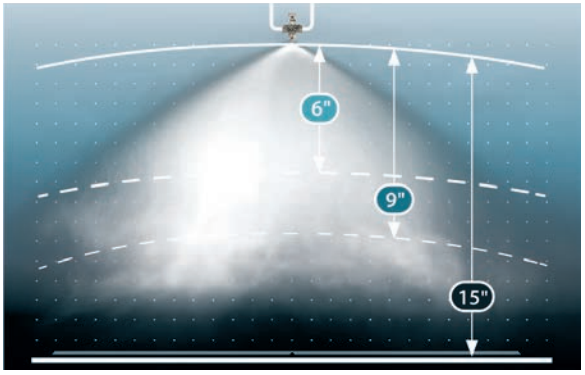
Model: AF8030SS
Material: Type 303 Stainless Steel

Model: AF8040SS
Material: Type 303 Stainless Steel

Model AF8010SS, AF8020SS, AF8030SS and AF8040SS

1/8 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.



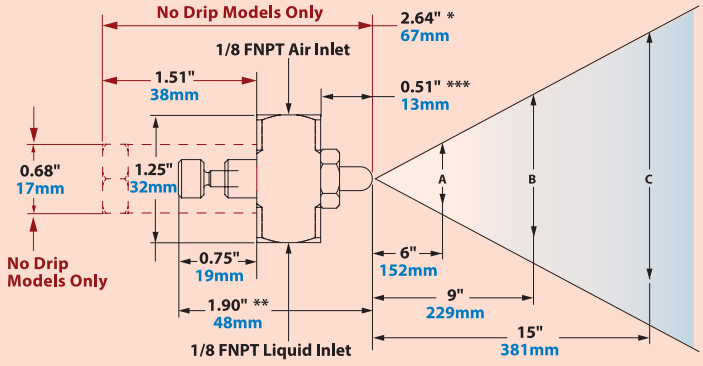
1/8 NPT Internal Mix Flat Fan atomizing nozzles can apply a light or heavy film coat to products moving on a conveyor.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com

No Drip Dimensions In Red
See page 93 for No Drip Atomizing Nozzles

* Model AF9010SS & AF9020SS 2.48" / 63mm
** Model AF8010SS & AF8020SS 1.74" / 44mm
***Model AF8010SS & AF8020SS 0.36" / 9mm



Model	10 PSI/0.7 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	20 PSI/1.4 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	30 PSI/2.1 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	40 PSI/2.8 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	60 PSI/4.1 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Spray Dimensions: Pressure Air PSI/BAR	Pressure Liquid PSI/BAR	Width A in/cm	Width B in/cm	Width C in/cm	Max. Depth feet/m	Model
AF8010SS	10 0.7	1.60 6.1	0.71 20.0	18 1.2	2.13 8.1	1.11 31.5	28 1.9	2.63 10.0	1.53 43.4	38 2.6	2.87 10.9	1.95 55.1	55 3.8	3.47 13.1	2.57 72.7	10 0.7	10 0.7	14 36	18 46	25 64	1 0.3	AF8010SS
	14 1.0	1.43 5.4	0.76 21.6	26 1.8	1.87 7.1	1.44 40.7	36 2.5	2.20 8.3	1.94 54.8	46 3.2	2.57 9.7	2.28 64.7	75 5.2	2.93 11.1	3.42 96.9	26 1.8	20 1.4	15 38	22 56	30 76	2 0.6	
	22 1.5	0.93 3.5	1.03 29.1	40 2.8	1.40 5.3	1.94 55.0	55 3.8	1.63 6.2	2.67 75.4	70 4.8	2.07 7.8	3.17 89.8	100 6.9	2.37 9.0	4.33 123	36 2.5	30 2.1	14 36	22 56	30 76	2 0.6	
	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	100 6.9	60 4.1	22 56	30 76	46 117	3 0.9	
AF8020SS	18 1.2	1.53 5.8	1.04 29.5	30 2.1	2.30 8.7	2.30 65.1	42 2.9	2.87 10.9	2.05 57.9	55 3.8	3.53 13.4	2.56 72.5	75 5.2	4.27 16.2	3.25 91.9	18 1.2	10 0.7	14 36	17 43	24 61	2 0.6	AF8020SS
	22 1.5	1.40 5.3	1.17 33.2	36 2.5	1.90 7.2	1.90 53.8	46 3.2	2.60 9.8	2.20 62.2	65 4.5	2.67 10.1	2.98 84.4	85 5.9	3.67 13.9	3.69 105	36 2.5	20 1.4	18 46	24 61	32 81	3 0.9	
	26 1.8	1.00 3.8	1.29 36.5	40 2.8	1.63 6.2	1.63 46.2	50 3.4	2.20 8.3	2.38 67.5	— —	— —	— —	— —	— —	— —	46 3.2	30 2.1	23 58	29 74	37 94	3 0.9	
	— —	— —	— —	44 3.0	0.85 3.2	0.85 24.1	— —	— —	— —	— —	— —	— —	— —	— —	— —	55 3.8	40 2.8	30 76	34 86	47 119	4 1.2	
AF8030SS	16 1.1	7.83 29.6	1.42 40.3	28 1.9	10.8 41.0	2.00 56.7	38 2.6	13.0 49.2	2.54 71.8	46 3.2	14.7 55.5	2.94 83.1	65 4.5	17.0 64.4	4.00 113	16 1.1	10 0.7	21 53	26 66	32 81	3 0.9	AF8030SS
	18 1.2	7.83 29.6	1.56 44.1	30 2.1	10.7 40.4	2.14 60.4	40 2.8	13.0 49.2	2.67 75.6	50 3.4	14.2 53.6	3.20 90.7	70 4.8	16.7 63.1	4.14 117	30 2.1	20 1.4	24 61	30 76	39 99	4 1.2	
	20 1.4	7.50 28.4	1.69 47.9	32 2.2	10.3 39.1	2.24 63.5	42 2.9	12.5 47.3	2.80 79.3	52 3.6	14.2 53.6	3.28 92.9	75 5.2	16.5 62.5	4.54 128	42 2.9	30 2.1	29 74	36 91	44 112	4 1.2	
	24 1.7	7.43 28.1	1.82 51.6	36 2.5	10.3 39.1	2.49 70.5	46 3.2	12.5 47.3	2.94 83.1	56 3.9	13.7 51.7	3.47 98.2	85 5.9	16.2 61.2	4.76 135	56 3.9	40 2.8	32 81	39 99	47 119	4 1.2	
AF8040SS	12 0.8	11.2 42.3	1.08 30.5	22 1.5	14.8 56.2	1.56 44.1	34 2.3	17.8 67.5	2.15 60.9	46 3.2	20.3 77.0	2.71 76.7	65 4.5	28.0 106	3.61 102	12 0.8	10 0.7	20 51	24 61	31 79	3 0.9	AF8040SS
	14 1.0	10.3 39.1	1.19 33.6	26 1.8	14.3 54.3	1.72 48.7	38 2.6	17.3 65.6	2.28 64.5	50 3.4	19.7 74.4	2.92 82.8	75 5.2	26.3 99.7	4.14 117	26 1.8	20 1.4	25 64	29 74	36 91	4 1.2	
	20 1.4	8.33 31.5	1.51 42.7	34 2.3	12.3 46.7	2.15 60.9	48 3.3	15.3 58.0	2.75 77.9	60 4.1	18.3 69.4	3.36 95.0	90 6.2	23.3 88.3	4.80 136	60 4.1	40 2.8	26 66	31 79	42 107	6 1.8	
	— —	— —	— —	38 2.6	11.7 44.2	2.43 68.7	50 3.4	14.8 56.2	2.88 81.6	70 4.8	17.0 64.4	3.91 111	100 6.9	22.7 85.8	5.33 151	100 6.9	60 4.1	32 81	39 99	44 112	7 2.1	

Air Atomizing Spray Nozzles

External Mix Narrow Angle Flat Fan Pattern - 1/8 NPT



Model: EF8010SS
Material: Type 303 Stainless Steel

Model: EF8020SS
Material: Type 303 Stainless Steel

Model: EF8030SS
Material: Type 303 Stainless Steel

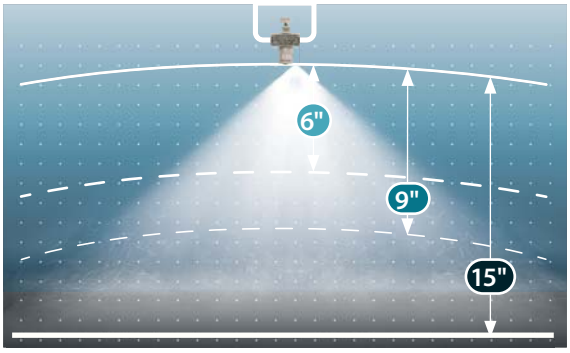
Model: EF8040SS
Material: Type 303 Stainless Steel

Model: EF8050SS
Material: Type 303 Stainless Steel

Model EF8010SS, EF8020SS, EF8030SS, EF8040SS and EF8050SS

1/8 NPT external mix narrow angle flat fan pattern nozzles are great where liquid is needed over a more concentrated area than the internal mix flat fan nozzles. Since they are external mix, airflow and liquid flow can be controlled independently. External mix flat fan pattern nozzles are the best choice where thicker liquids for a heavier coating are needed over a narrow band, such as a paint line.

For pressure fed applications with independent air and liquid contro'



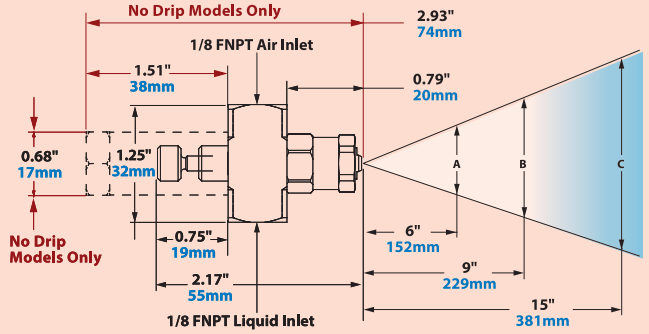
1/8 NPT External Mix Flat Fan atomizing nozzles are very versatile. They can apply a light or heavy film coating to products on a variety of different products.



Model EF8010SS applies lubricant to a drawer slide.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Dimensions In Red
See page 93 for No Drip Atomizing Nozzles

Model	10 PSI/0.7 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	20 PSI/1.4 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	30 PSI/2.1 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	40 PSI/2.8 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Spray Dimensions: Pressure Air PSI/BAR	Pressure Liquid PSI/BAR	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	Max. Depth feet/m	Model
EF8010SS	10 0.7	1.22 4.6	1.20 34.0	10 0.7	1.64 6.2	1.20 34.0	10 0.7	1.82 6.9	1.20 34.0	10 0.7	2.00 7.6	1.20 34.0	10 0.7	10 0.7	4	10	5	13	4	10	4 1.2	EF8010SS
	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1	20 1.4	4	10	5	13	6	15	6 1.8	
	50 3.4		3.41 96.5	50 3.4		3.41 96.5	50 3.4		3.41 96.5	50 3.4		3.41 96.5	30 2.1	30 2.1	4	10	5	13	6	15	6 1.8	
	— —		— —	— —		— —	— —		— —	— —		— —	50 3.4	40 2.8	4	10	5	13	8	20	8 2.4	
EF8020SS	10 0.7	2.00 7.6	1.20 34.0	10 0.7	2.56 9.7	1.20 34.0	10 0.7	2.67 10.1	1.20 34.0	10 0.7	2.93 11.1	1.20 34.0	10 0.7	10 0.7	3	8	4.5	11	4	10	4 1.2	EF8020SS
	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1	20 1.4	3	8	4.5	11	6	15	6 1.8	
	50 3.4		3.41 96.5	50 3.4		3.41 96.5	50 3.4		3.41 96.5	50 3.4		3.41 96.5	30 2.1	30 2.1	3	8	4.5	11	7	18	7 2.1	
	— —		— —	— —		— —	— —		— —	— —		— —	50 3.4	40 2.8	3	8	4.5	11	8	20	8 2.4	
EF8030SS	10 0.7	4.47 16.9	1.20 34.0	10 0.7	5.60 21.2	1.20 34.0	10 0.7	6.30 23.8	1.20 34.0	10 0.7	7.67 29.0	1.20 34.0	10 0.7	10 0.7	4	10	5	13	5	13	5 1.5	EF8030SS
	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1		2.29 64.8	30 2.1	20 1.4	4	10	5	13	7	18	7 2.1	
	50 3.4		3.41 96.5	50 3.4		3.41 96.5	50 3.4		3.41 96.5	50 3.4		3.41 96.5	30 2.1	30 2.1	4	10	5	13	8	20	8 2.4	
	— —		— —	— —		— —	— —		— —	— —		— —	50 3.4	40 2.8	4	10	5	13	9	23	9 2.7	
EF8040SS	20 1.4	8.67 32.8	1.95 55.2	20 1.4	10.75 40.7	1.95 55.2	20 1.4	13.00 49.2	1.95 55.2	20 1.4	14.42 54.6	1.95 55.2	20 1.4	10 0.7	5.5	14	7	18	7	18	7 2.1	EF8040SS
	30 2.1		2.50 70.8	30 2.1		2.5 70.8	30 2.1		2.5 70.8	30 2.1		2.5 70.8	30 2.1	20 1.4	5.5	14	7	18	9	23	9 2.7	
	40 2.8		3.13 88.6	40 2.8		3.13 88.6	40 2.8		3.13 88.6	40 2.8		3.13 88.6	40 2.8	30 2.1	5.5	14	7	18	10	25	10 3.0	
	50 3.4		3.68 104.2	50 3.4		3.68 104.2	50 3.4		3.68 104.2	50 3.4		3.68 104	50 3.4	40 2.8	5.5	14	7	18	11	28	11 3.4	
EF8050SS	30 2.1	12.6 47.7	2.28 64.5	30 2.1	16.6 62.8	2.28 64.5	30 2.1	20.17 76.4	2.28 64.5	30 2.1	25.00 94.6	2.28 64.5	30 2.1	10 0.7	7	18	9	23	9	23	9 2.7	EF8050SS
	40 2.8		2.84 80.4	40 2.8		2.84 80.4	40 2.8		2.84 80.4	40 2.8		2.84 80.4	40 2.8	20 1.4	7	18	9	23	10	25	10 3.0	
	60 4.1		3.87 109.6	60 4.1		3.87 109.6	60 4.1		3.87 109.6	60 4.1		3.87 110	70 4.8	40 2.8	7	18	9	23	12	30	12 3.7	
	70 4.8		4.45 126.0	70 4.8		4.45 126.0	70 4.8		4.45 126.0	70 4.8		4.45 126										

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

An INTELLIGENT COMPRESSED AIR® Product

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

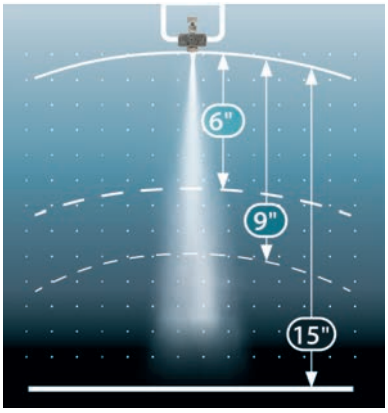
Model: SR8040SS
Material: Type 303 Stainless Steel

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.

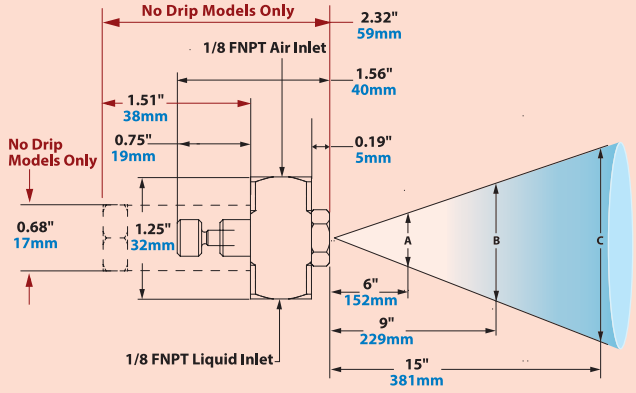
Siphon or gravity fed for non-pressurized applications.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

Liquid Flow in GPH/LPH

Model	Air Pressure PSI/BAR		Air SCFM/ SLPM		Gravity Head 18"	46cm	12"	30cm	6"	15cm	Siphon Height 4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm
SR8010SS	10	0.7	0.48	13.6	0.35	1.3	0.33	1.2	0.27	1.0	0.21	0.8	0.21	0.8	0.17	0.7	---	---	---	---
	20	1.4	0.68	19.2	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	---	---
	40	2.8	1.35	38.3	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
	60	4.1	2.12	59.9	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
SR8020SS	10	0.7	0.59	16.7	0.61	2.3	0.53	2.0	0.48	1.8	0.35	1.3	0.33	1.2	0.24	0.9	---	---	---	---
	20	1.4	1.16	32.8	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	---	---
	40	2.8	1.9	53.8	0.88	3.3	0.8	3.0	0.76	2.9	0.66	2.5	0.58	2.2	0.53	2.0	0.45	1.7	0.38	1.4
	60	4.1	2.62	74.2	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
SR8030SS	10	0.7	0.55	15.6	1.31	5.0	1.22	4.6	0.96	3.6	0.76	2.9	0.61	2.3	0.53	2.0	---	---	---	---
	20	1.4	1.06	30.0	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	---	---
	40	2.8	1.86	52.7	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
	60	4.1	2.45	69.4	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
SR8040SS	10	0.7	1.40	39.5	2.65	10.0	2.43	9.2	2.12	8.0	1.22	4.6	1.00	3.8	---	---	---	---	---	---
	20	1.4	2.03	57.5	3.01	11.4	2.86	10.8	2.53	9.6	1.78	6.7	1.57	6.0	1.37	5.2	---	---	---	---
	40	2.8	3.17	89.8	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
	60	4.1	4.42	125	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
SR8050SS	10	0.7	1.84	52.1	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	---	---
	20	1.4	2.93	82.9	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	4.02	114	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	5.12	145	5.12	19.4	5.92	22.4	5.56	21.0	5.5	20.8	5.09	19.3	5.33	20.0	5.18	19.6	3.84	14.5

Spray Dimensions at 8" (20cm) Siphon Height

Model	Air Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	Max. Depth feet/m		Model
SR8010SS	10	0.7	1.5	4	2	5	3	8	1.5	0.5	SR8010SS
	20	1.4	1.5	4	2	5	3	8	1.5	0.5	
	40	2.8	1.5	4	2	5	3	8	2	0.6	
	60	4.1	1.5	4	2	5	3	8	3	0.9	
SR8020SS	10	0.7	1.5	4	2	5	3	8	1.5	0.5	SR8020SS
	20	1.4	1.5	4	2	5	3	8	2	0.6	
	40	2.78	1.5	4	2	5	3	8	3	0.9	
	60	4.1	1.5	4	2	5	3	8	4	1.2	
SR8030SS	10	0.7	1.5	4	2	5	3	8	1.5	0.5	SR8030SS
	20	1.4	1.5	4	2	5	3	8	3	0.9	
	40	2.78	1.5	4	2	5	3	8	4	1.2	
	60	4.1	1.5	4	2	5	3	8	5	1.5	
SR8040SS	10	0.7	1.5	4	2	5	3	8	3	0.9	SR8040SS
	20	1.4	1.5	4	2	5	3	8	4	1.2	
	40	2.78	1.5	4	2	5	3	8	4	1.2	
	60	4.1	1.5	4	2	5	3	8	5	1.5	
SR8050SS	20	1.4	1.5	4	2	5	3	8	5	1.5	SR8050SS
	40	2.8	1.5	4	2	5	3	8	7	2.1	
	60	4.1	1.5	4	2	5	3	8	9	2.7	
	80	5.5	1.5	4	2	5	3	8	10	3.0	

Air Atomizing Spray Nozzles

Siphon Fed Flat Fan Pattern - 1/8 NPT



Model: SF8010SS
Material: Type 303 Stainless Steel

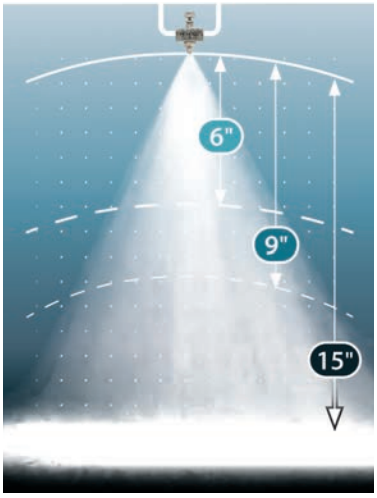
Model: SF8020SS
Material: Type 303 Stainless Steel

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.

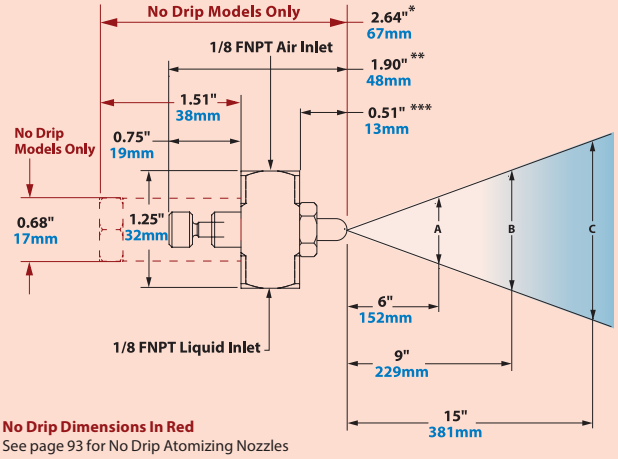
Siphon or gravity fed for non-pressurized applications.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Dimensions In Red
See page 93 for No Drip Atomizing Nozzles

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

Liquid Flow in GPH/LPH

Model	Air Pressure PSI/BAR		Air SCFM/ SLPM		Gravity Head 18"	46cm	12"	30cm	6"	15cm	Siphon Height 4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm
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
	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
	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
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
	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
	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
	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	---	---
SF8030SS	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
	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
	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
	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

Spray Dimensions at 8" (20cm) Siphon Height

Model	Air Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	Max. Depth feet/m		Model
SF8010SS	10	0.7	7	18	9	23	12	30	2	0.6	SF8010SS
	20	1.4	7	18	9	23	12	30	2	0.6	
	30	2.1	7	18	9	23	12	30	2	0.6	
SF8020SS	20	1.4	8	20	9	23	12	30	2	0.6	SF8020SS
	30	2.1	9	23	11	28	13	33	2	0.6	
	40	2.8	9	23	10	25	13	33	2	0.6	
	50	3.4	7	18	8	20	9	23	3	0.9	
SF8030SS	20	1.4	7	18	8	20	9.5	24	2	0.6	SF8030SS
	30	2.1	7	18	8	20	9.5	24	2	0.6	
	40	2.8	7	18	8	20	9.5	24	3	0.9	
	50	3.4	7	18	8	20	9.5	24	3	0.9	

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

An INTELLIGENT COMPRESSED AIR® Product

KING awards 2011 WINNER

Plant Engineering PRODUCT of the YEAR Finalist 2011

Internal Mix Narrow Angle Round Pattern - 1/4 NPT



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

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.

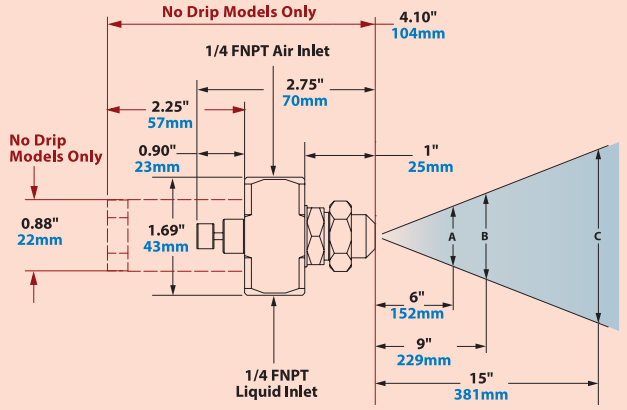
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

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						Model
	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		
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	AN1010SS
	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	
	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	
	---	---	---	---	---	---	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	
AN1020SS	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	AN1020SS
	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	
	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	
	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	
AN1030SS	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	AN1030SS
	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	
	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	
	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	
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	AN1040SS
	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	
	---	---	---	---	---	---	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	
	---	---	---	---	---	---	28	1.9	5.5	20.8	5.6	159	40	2.8	6.0	22.7	7.4	210	50	3.4	10.3	39.0	8.2	232	70	4.8	15.8	60	10.2	289	

Spray Dimensions													
Pressure				Width								Max. Depth feet/m	
Air PSI/ BAR		Liquid PSI/BAR		A		B		C					
				in	cm	in	cm	in	cm				
12	0.8	10	0.7	2.3	6	3.3	8	5.0	13	6	1.8	AN1010SS
20	1.4	20	1.4	2.8	7	3.8	10	6.0	15	8	2.4	
34	2.3	30	2.1	3.0	8	4.3	11	6.5	17	9	2.7	
42	2.9	40	2.8	3.5	9	4.5	11	6.5	17	10	3.0	
58	4.0	60	4.1	4.0	10	5.0	13	7.0	18	11	3.4	
24	1.7	10	0.7	2.5	6	3.5	9	5.5	14	11	3.4	AN1020SS
38	2.6	20	1.4	2.8	7	4.0	10	6.5	17	12	3.7	
55	3.8	30	2.1	3.0	8	4.5	11	6.5	17	13	4.0	
65	4.5	40	2.8	3.5	9	5.0	13	7.0	18	14	4.3	
85	5.9	60	4.1	4.0	10	5.5	14	7.5	19	18	5.5	
14	1.0	10	0.7	2.8	7	4.5	11	6.5	17	10	3.0	AN1030SS
26	1.8	20	1.4	3.3	8	5.0	13	7.0	18	16	4.9	
40	2.8	30	2.1	3.8	10	5.5	14	7.0	18	19	5.8	
50	3.4	40	2.8	4.0	10	6.0	15	8.0	20	22	6.7	
70	4.8	60	4.1	4.0	10	6.0	15	8.0	20	26	7.9	
14	1.0	10	0.7	3.0	8	4.5	11	6.5	17	17	5.2	AN1040SS
24	1.7	20	1.4	3.5	9	6.0	15	7.5	19	21	6.4	
34	2.3	30	2.1	4.0	10	6.5	17	8.0	20	26	7.9	
44	3.0	40	2.8	4.5	11	7.0	18	8.5	22	30	9.1	
64	4.4	60	4.1	5.0	13	7.0	18	9.0	23	35	10.7	

Air Atomizing Spray Nozzles

Internal Mix Wide Angle Round Pattern - 1/4 NPT

KING awards 2011 WINNER

Plant Engineering PRODUCT of the YEAR Finalist 2011



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

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.

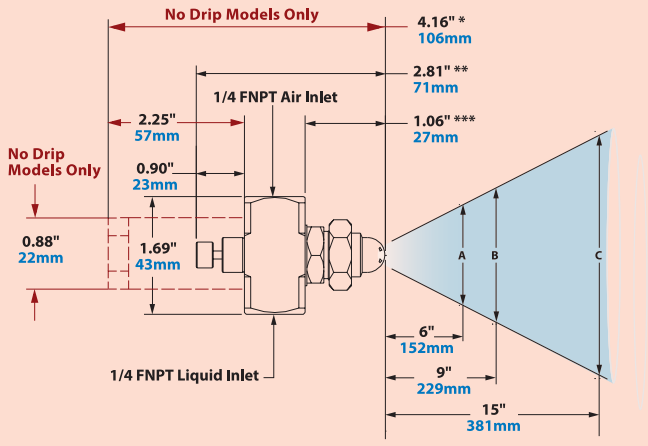
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



*Model AW2010SS: 4.03" / 102mm
**Model AW1010SS: 2.68" / 68mm
***Model AW1010SS: 0.93" / 24mm

No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

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					
	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	
AW1010SS	8	0.6	1.8	6.8	0.3	8	14	1.0	2.4	9.1	0.4	11	22	.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	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
	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
	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
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
	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
	---	---	---	---	---	---	6	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
	---	---	---	---	---	---	---	---	---	---	---	---	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
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	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
	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	3.7	14.0	4.2	119	70	4.8	5.0	18.9	5.6	159
	---	---	---	---	---	---	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
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	4.0	91.0	13.8	391
	28	1.9	4.0	15.1	6.1	190	44	3.0	3.5	13.2	10.0	283	56	3.9	9.0	34.1	10.6	300	70	4.8	12.0	45.4	12.8	362	95	6.6	18.5	70.0	16.5	467
	30	2.1	2.5	9.5	6.7	190	48	3.3	3.5	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
	32	2.2	2.0	7.6	7.3	207	52	3.6	1.9	7.2	10.8	306	90	6.2	2.8	10.6	17.2	487	100	6.9	15.8	59.8	17.3	490	100	6.9	15.8	59.8	17.3	490

Spray Dimensions													
Pressure				Width								Max. Depth	
Air PSI/ BAR		Liquid PSI/BAR		A		B		C					
				in	cm	in	cm	in	cm			feet/m	
10	0.7	10	0.7	7	18	9	23	14	36	5	1.5	AW1010SS
20	1.4	20	1.4	9	23	11	28	15	38	6	1.8	
34	2.3	30	2.1	10	25	12	30	16	41	8	2.4	
42	2.9	40	2.8	10	25	12	30	16	41	9	2.7	
60	4.1	60	4.1	10	25	12	30	16	41	12	3.7	
12	0.8	10	0.7	10	25	13	33	17	43	9	2.7	AW1020SS
24	1.7	20	1.4	11	28	13	33	18	46	11	3.4	
34	2.3	30	2.1	11	28	13	33	18	46	12	3.7	
46	3.2	40	2.8	11	28	14	36	18	46	14	4.3	
60	4.1	60	4.1	11	28	14	36	19	48	16	4.9	
12	0.8	10	0.7	10	25	13	33	18	46	9	2.7	AW1030SS
22	1.5	20	1.4	11	28	13	33	18	46	11	3.4	
34	2.3	30	2.1	11	28	14	36	18	46	13	4.0	
46	3.2	40	2.8	11	28	14	36	19	48	15	4.6	
65	4.5	60	4.1	11	28	14	36	20	51	19	5.8	
28	1.9	10	0.7	10	25	14	36	16	41	16	4.9	AW1040SS
46	3.2	20	1.4	11	28	14	36	18	46	18	5.5	
60	4.1	30	2.1	12	30	16	41	21	53	21	6.4	
75	5.2	40	2.8	12	30	16	41	22	56	24	7.3	
90	6.2	60	4.1	12	30	16	41	23	58	25	7.6	

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

An INTELLIGENT COMPRESSED AIR® Product

KING awards 2011 WINNER

Plant Engineering PRODUCT of the YEAR Finalist 2011

Internal Mix Flat Fan Pattern - 1/4 NPT



Model: AF1010SS
Material: Type 303 Stainless Steel

Model: AF1020SS
Material: Type 303 Stainless Steel

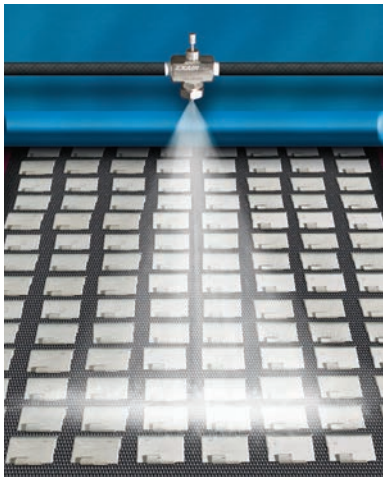
Model: AF1030SS
Material: Type 303 Stainless Steel

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.

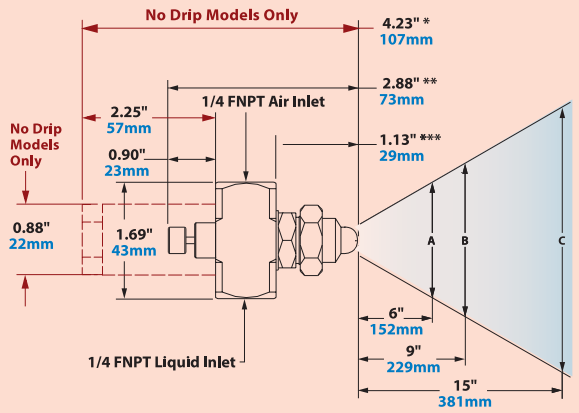
For pressure fed applications not requiring independent air and liquid control.



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



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

No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

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					
	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
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
	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
	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
	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
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	1.8	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	3.2	12.1	1.9	54	75	5.2	3.7	14.0	2.6	74
	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
	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
AF1030SS	16	1.1	4.5	17.0	2.0	57	28	1.9	6.0	22.7	2.8	79	38	2.6	7.0	26.5	3.5	99	46	3.2	8.5	32.2	4.0	113	65	4.5	11.0	41.6	5.3	150
	20	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	70	4.8	10.0	37.9	5.7	161
	24	1.7	2.4	9.1	2.7	76	34	2.3	4.5	17.0	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
	28	1.9	1.5	5.7	3.1	88	36	2.5	3.9	14.8	3.5	99	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
AF1040SS	12	0.8	8.1	30.7	1.4	40	22	1.5	12.0	45.4	1.9	54	34	2.3	13.1	49.6	2.7	76	46	3.2	14.3	54.1	3.4	96	65	4.5	18.3	69.3	4.5	127
	16	1.1	5.9	22.3	1.8	51	30	2.1	7.1	26.9	2.7	76	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
	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
	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
AF1050SS	14	1.0	8.8	33.3	3.0	85	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	159	5.5	156
	16	1.1	5.3	20.1	3.7	105	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
	---	---	---	---	---	---	---	---	---	---	---	---	40	2.8	9.0	34.1	6.1	173	50	3.4	13.5	51.1	7.3	207	70	4.8	21.0	79.5	8.7	246
	---	---	---	---	---	---	---	---	---	---	---	---	42	2.9	6.3	23.8	7.0	198	54	3.7	7.5	28.4	8.4	238	80	5.5	8.5	32.2	11.2	317

Spray Dimensions													
Pressure				Width						Max. Depth			
Air PSI/BAR		Liquid PSI/BAR		A		B		C					
				in	cm	in	cm	in	cm	feet/m			
16	1.1	10	0.7	9	23	12	30	15	38	5	1.5	AF1010SS	
30	2.1	20	1.4	11	28	13	33	17	43	6	1.8		
40	2.8	30	2.1	12	30	14	36	20	51	6	1.8		
50	3.4	40	2.8	14	36	16	41	22	56	7	2.1		
85	5.9	60	4.1	14	36	17	43	23	58	7	2.1		
16	1.1	10	0.7	11	28	14	36	19	48	5	1.5	AF1020SS	
30	2.1	20	1.4	14	36	17	43	21	53	6	1.8		
42	2.9	30	2.1	14	36	18	46	23	58	6	1.8		
50	3.4	40	2.8	16	41	19	48	26	66	7	2.1		
80	5.5	60	4.1	16	41	21	53	29	74	8	2.4		
20	1.4	10	0.7	11	28	14	36	19	48	10	3.0	AF1030SS	
32	2.2	20	1.4	15	38	17	43	23	58	11	3.4		
42	2.9	30	2.1	16	41	21	53	29	74	12	3.7		
54	3.7	40	2.8	19	48	25	64	33	84	14	4.3		
75	5.2	60	4.1	20	51	26	66	35	89	15	4.6		
16	1.1	10	0.7	14	36	18	46	24	61	10	3.0	AF1040SS	
32	2.2	20	1.4	15	38	19	48	27	69	12	3.7		
46	3.2	30	2.1	17	43	23	58	30	76	13	4.0		
56	3.9	40	2.8	20	51	25	64	34	86	15	4.6		
85	5.9	60	4.1	21	53	27	69	36	91	15	4.6		
14	1.0	10	0.7	14	36	18	46	23	58	10	3.0	AF1050SS	
26	1.8	20	1.4	15	38	19	48	24	61	13	4.0		
38	2.6	30	2.1	16	41	20	51	25	64	16	4.9		
48	3.3	40	2.8	17	43	20	51	27	69	18	5.5		
70	4.8	60	4.1	17	43	21	53	29	74	19	5.8		

Air Atomizing Spray Nozzles

Internal Mix Deflected Flat Fan Pattern - 1/4 NPT



Model: AD1010SS
Material: Type 303 Stainless Steel

Model AD1010SS

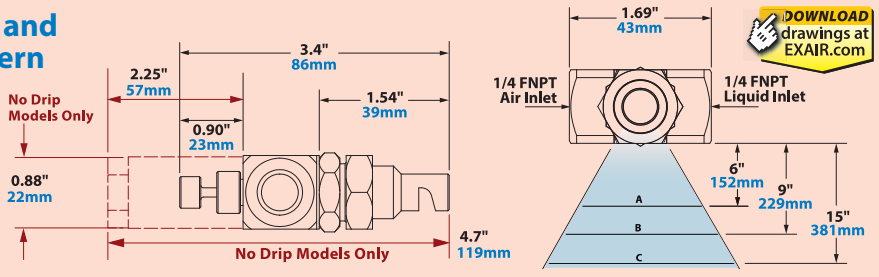
1/4 NPT internal mix deflected flat fan nozzles are designed for applications where space is at a premium. The flat fan pattern sprays at a right angle to the nozzle's orientation, allowing spray to be placed precisely where it's needed in close quarters. These nozzles are ideal for coating the inside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

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



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

Dimensions and Airflow Pattern

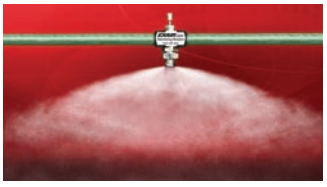


Model	10 PSI/0.7 BAR Liquid						20 PSI/1.4 BAR Liquid						30 PSI/2.1 BAR Liquid						40 PSI/2.8 BAR Liquid						60 PSI/4.1 BAR Liquid						Spray Dimensions								
	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Pressure Air PSI/BAR	Pressure Liquid PSI/BAR	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	Max. Depth in/cm		
AD1010SS	6	0.4	3.0	11.5	1.4	41	14	1.0	4.0	15.1	2.3	66	22	1.5	4.6	17.6	3.2	90	26	1.8	5.7	21.4	3.5	98	38	2.6	6.9	26.0	4.7	133	12	0.8	10	0.7	9	23	14	36	16	41	36	91	AD1010SS
	8	0.6	2.7	10.1	1.8	50	18	1.2	3.3	12.4	2.9	82	26	1.8	4.1	15.4	3.7	105	32	2.2	4.9	18.6	4.3	121	54	3.7	5.3	20.1	6.6	188	22	1.5	20	1.4	11	28	13	33	16	41	42	107	
	10	0.7	2.2	8.3	2.1	59	20	1.4	2.9	11.0	3.2	91	30	2.1	3.4	12.9	4.3	122	38	2.6	4.2	15.7	5.1	144	62	4.3	4.6	17.3	7.8	221	34	2.3	30	2.1	8	20	12	30	16	41	45	114	
	12	0.8	1.8	6.9	2.4	69	22	1.5	2.3	8.9	3.6	101	34	2.3	2.8	10.4	5.0	140	46	3.2	2.7	10.3	6.3	180	70	4.8	3.1	11.9	9.1	258	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	107	

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



Model: AT1010SS
Material: Type 303 Stainless Steel



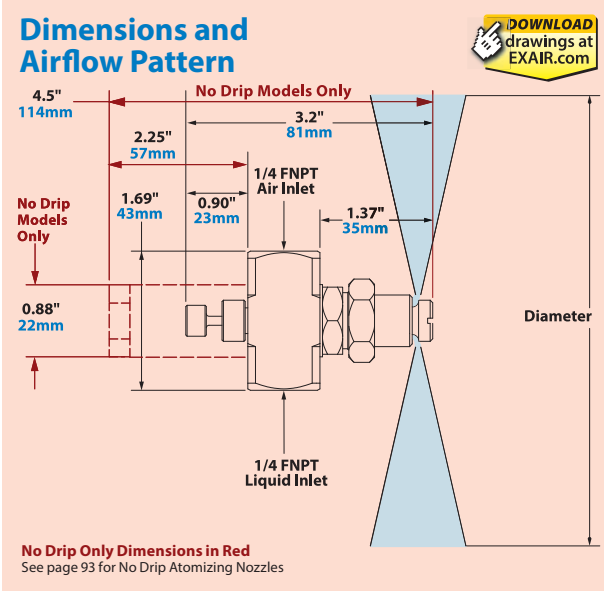
This 360° circular pattern nozzle can be used to coat inside diameters or cover a broad area over 4' (1219mm).

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



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	Diameter in	Diameter cm	
AT1010SS	20	1.4	4.5	16.8	4.3	121	34	2.3	7.3	27.5	6.4	182	50	3.4	8.1	30.6	8.9	251	60	4.1	11.5	43.5	10.0	283	85	5.9	14.7	55.7	13.3	376	20	1.4	10	0.7	36	91	AT1010SS
	24	1.7	2.6	9.7	5.3	150	38	2.6	5.2	19.6	7.3	206	56	3.9	5.4	20.3	10.0	285	70	4.8	7.1	26.8	11.8	335	90	6.2	12.7	47.9	14.1	398	34	2.3	20	1.4	39	99	
	26	1.8	2.0	7.5	5.7	162	42	2.9	3.6	13.5	8.2	231	60	4.1	4.2	15.7	10.7	303	80	5.5	4.1	15.4	13.5	383	95	6.6	10.6	40.2	14.9	423	50	3.4	30	2.1	44	112	
	28	1.9	1.6	5.9	6.2	176	48	3.3	2.1	7.8	9.3	264	70	4.8	2.0	7.4	12.6	356	90	6.2	2.0	7.7	15.5	439	100	6.9	8.9	33.7	15.8	449	60	4.1	40	2.8	49	124	
																															85	5.9	60	4.1	53	135	

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

An INTELLIGENT COMPRESSED AIR® Product

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.

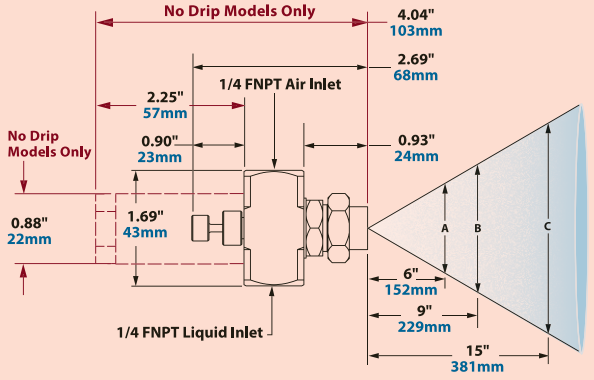
For pressure fed applications with independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing 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					
	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	
ER1010SS	5	0.3	1.0	3.8	0.9	25.5	5	0.3	1.4	5.3	0.9	25.5	10	0.7	1.9	7.2	1.3	36.8	20	1.4	2.7	10.2	1.9	53.8	20	1.4	3.8	14.4	1.9	53.8
	10	0.7			1.3	36.8	10	0.7			1.3	36.8	20	1.4			1.9	53.8	40	2.8			3.0	85.0	40	2.8			3.0	85.0
	20	1.4			1.9	53.8	30	2.1			2.4	68.0	40	2.8			3.0	85.0	60	4.1			4.1	116	60	4.1			4.1	116
	40	2.8			3.0	85.0	50	3.4			3.5	99.1	60	4.1			4.1	116	90	6.2			5.7	161	90	6.2			5.7	161
ER1020SS	6	0.4	2.5	9.5	0.9	25.5	10	0.7	3.2	12.1	1.3	36.8	10	0.7	4.3	16.3	1.3	36.8	20	1.4	5.9	22.3	2.9	82.1	40	2.8	7.5	28.4	3.0	85.0
	10	0.7			1.3	36.8	20	1.4			1.8	51.0	20	1.4			1.9	53.8	40	2.8			3.1	87.8	60	4.1			4.1	116
	30	2.1			2.4	68.0	40	2.8			3.1	87.8	40	2.8			3.1	87.8	60	4.1			4.1	116	80	5.5			5.3	150
	50	3.4			3.6	102	60	4.1			4.1	116	60	4.1			4.1	116	90	6.2			5.9	167	90	6.2			5.9	167
ER1030SS	10	0.7	4.4	16.7	4.0	113	10	0.7	5.5	20.8	4.0	113	15	1.0	7.6	28.8	4.9	139	30	2.1	11.0	41.6	7.7	218	40	2.8	14.0	53.0	9.5	269
	20	1.4			6.0	170	20	1.4			6.0	170	30	2.1			7.7	218	40	2.8			9.5	269	50	3.4			11.2	317
	40	2.8			9.5	269	40	2.8			9.5	269	50	3.4			11.2	317	60	4.1			11.7	331	60	4.1			11.7	331
	50	3.4			11.2	317	60	4.1			11.7	331	70	4.8			13.4	379	80	5.5			15.3	433	80	5.5			15.3	433
ER1040SS	15	1.0	10.0	37.9	4.9	139	20	1.4	13.5	51.1	6.0	170	30	2.1	18.8	71.2	7.7	218	40	2.8	27.6	104	9.5	269	50	3.4	31.0	117	11.2	317
	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			11.7	331
	40	2.8			9.5	269	40	2.8			9.5	269	60	4.1			11.7	331	60	4.1			11.7	331	70	4.8			13.4	379
	50	3.4			11.2	317	60	4.1			11.7	331	80	5.5			15.3	433	80	5.5			15.3	433	80	5.5			15.3	433
ER1050SS	40	2.8	18.0	68.1	14.0	396	55	3.8	26.0	98.0	18.0	510	65	4.5	41.0	155	21.0	595	80	5.5	60.0	227	25.3	716	--	--			--	--
	50	3.4			16.8	470	65	4.5			21.0	595	70	4.8			22.3	631	90	6.2			27.9	790	--	--			--	--
	60	4.1			19.7	558	70	4.8			22.3	631	80	5.5			25.3	716	--	--			--	--	--	--			--	--
	65	4.5			21.0	595	80	5.5			25.3	716	90	6.2			27.9	790	--	--			--	--	--	--			--	--

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

Spray Dimensions													
Pressure				Width						Max. Depth feet/m			
Air PSI/BAR		Liquid PSI/BAR		A		B		C					
				in	cm	in	cm	in	cm				
10	0.7	3	0.2	3.0	7.6	4.3	10.9	6.3	16.0	9	2.7	ER1010SS	
20	1.4	5	0.3	3.3	8.4	4.5	11.4	6.8	17.3	11	3.4		
40	2.8	10	0.7	3.5	8.9	5.3	13.5	7.5	19.1	13	4.0		
40	2.8	20	1.4	3.5	8.9	5.0	12.7	7.0	17.8	14	4.3		
60	4.1	40	2.8	4.0	10.2	5.5	14.0	8.0	20.3	15	4.6		
10	0.7	3	0.2	3.8	9.7	5.0	12.7	7.5	19.1	10	3.0	ER1020SS	
20	1.4	5	0.3	4.0	10.2	5.8	14.7	7.0	17.8	12	3.7		
40	2.8	10	0.7	4.3	10.9	6.0	15.2	8.3	21.1	15	4.6		
40	2.8	20	1.4	4.5	11.4	6.0	15.2	8.3	21.1	15	4.6		
60	4.1	40	2.8	5.0	12.7	6.5	16.5	8.5	21.6	16	4.9		
10	0.7	3	0.2	4.3	10.9	6.0	15.2	8.8	22.4	13	4.0	ER1030SS	
40	2.8	5	0.3	4.5	11.4	6.5	16.5	8.5	21.6	23	7.0		
40	2.8	10	0.7	4.8	12.2	6.8	17.3	9.0	22.9	24	7.3		
60	4.1	20	1.4	4.5	11.4	6.8	17.3	9.0	22.9	29	8.8		
60	4.1	40	2.8	5.3	13.5	7.0	17.8	9.3	23.6	30	9.1		
20	1.4	3	0.2	5.8	14.7	7.5	19.1	10.0	25.4	15	4.6	ER1040SS	
40	2.8	5	0.3	6.0	15.2	8.0	20.3	10.3	26.2	19	5.8		
60	4.1	10	0.7	6.0	15.2	8.0	20.3	10.5	26.7	23	7.0		
60	4.1	20	1.4	5.5	14.0	7.0	17.8	9.0	22.9	24	7.3		
80	5.5	40	2.8	4.5	11.4	6.5	16.5	9.5	24.1	30	9.1		
40	2.8	3	0.2	6.5	16.5	8.8	22.4	11.0	27.9	23	7.0	ER1050SS	
70	4.8	5	0.3	6.5	16.5	9.0	22.9	10.0	25.4	28	8.5		
80	5.5	10	0.7	6.5	16.5	9.0	22.9	11.0	27.9	30	9.1		
90	6.2	20	1.4	6.0	15.2	8.0	20.3	11.0	27.9	32	9.8		

Air Atomizing Spray Nozzles

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



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

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.

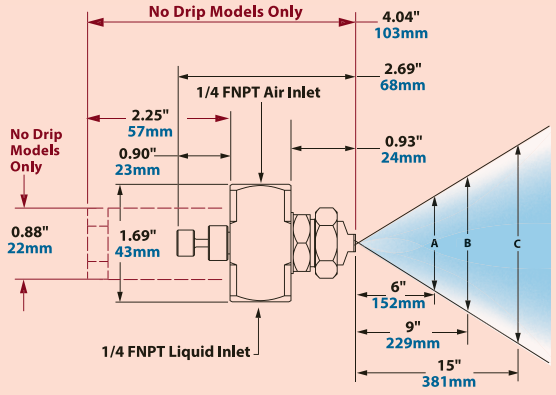
For pressure fed applications with independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing 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 PSI/ BAR		Pressure Liquid PSI/ BAR		Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	Max. Depth feet/m		Model
EF1010SS	5	0.3	1.0	3.8	0.8	22.7	10	0.7	1.4	5.3	1.0	28.3	15	1.0	1.9	7.2	1.3	36.8	25	1.7	2.7	10.2	1.8	51.0	45	3.1	3.8	14.4	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	EF1010SS
	10	0.7			1.0	28.3	20	1.4			1.5	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	5	0.3	5.5	14.0	8.0	20.3	10.0	25.4	12	3.7	
	20	1.4			1.5	42.5	30	2.1			2.0	56.6	40	2.8			2.5	70.8	60	4.1			3.4	96.3	75	5.2			4.1	116	25	1.7	20	1.4	6.5	16.5	9.5	24.1	13.0	33.0	13	4.0	
	40	2.8			2.5	70.8	50	3.4			2.9	82.1	60	4.1			3.4	96.3	90	6.2			4.7	133	95	6.5			5.1	144	50	3.4	20	1.4	6.3	16.0	9.3	23.6	12.0	30.5	16	4.9	
																															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	2.5	9.5	1.0	28.3	15	1.0	3.2	12.1	1.3	36.8	20	1.4	4.3	16.3	1.5	42.5	35	2.4	5.9	22.3	2.2	62.3	50	3.4	7.5	28.4	2.9	82.1	10	0.7	3	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7	EF1020SS
	20	1.4			1.5	42.5	25	1.7			1.8	51.0	30	2.1			2.0	56.6	50	3.4			2.9	82.1	60	4.1			3.4	96.3	30	2.1	5	0.3	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3	
	30	2.1			2.0	56.6	40	2.8			2.5	70.8	50	3.4			2.9	82.1	70	4.8			3.8	108	80	5.5			4.3	122	35	2.4	20	1.4	6.5	16.5	11.0	27.9	16.0	40.6	17	5.2	
	50	3.4			2.9	82.1	60	4.1			3.4	96.3	70	4.8			3.8	108	90	6.2			4.7	133	100	6.9			5.2	147	60	4.1	20	1.4	7.5	19.1	11.5	29.2	18.0	45.7	20	6.1	
																															75	5.2	40	2.8	7.5	19.1	12.0	30.5	17.0	43.2	22	6.7	
EF1030SS	10	0.7	4.4	16.7	3.5	99.1	20	1.4	5.5	20.8	5.3	150	25	1.7	7.6	28.8	6.1	173	40	2.8	11.0	41.6	8.4	238	50	3.4	14.0	53.0	10.0	283	10	0.7	3	0.2	6.0	15.2	9.0	22.9	12.0	30.5	12	3.7	EF1030SS
	20	1.4			5.3	150	30	2.1			6.9	195	35	2.4			7.6	215	50	3.4			10.0	283	60	4.1			11.5	326	35	2.4	5	0.3	6.8	17.3	9.0	22.9	12.0	30.5	20	6.1	
	30	2.1			6.9	195	40	2.8			8.4	238	50	3.4			10.0	283	70	4.8			12.7	360	80	5.5			13.7	388	40	2.8	10	0.7	7.0	17.8	10.0	25.4	13.0	33.0	23	7.0	
	50	3.4			10.0	283	60	4.1			11.5	326	70	4.8			12.7	360	90	6.2			14.8	419	95	6.5			15.1	428	60	4.1	20	1.4	7.0	17.8	11.0	27.9	14.0	35.6	28	8.5	
																															75	5.2	40	2.8	7.0	17.8	11.0	27.9	14.0	35.6	30	9.1	
EF1040SS	15	1.0	10.0	37.9	4.4	125	25	1.7	13.5	51.1	6.1	173	35	2.4	18.8	71.2	7.6	215	45	3.1	27.6	104	9.2	261	55	3.8	31.0	117	10.7	303	15	1.0	3	0.2	6.0	15.2	10.0	25.4	14.0	35.6	13	4.0	EF1040SS
	25	1.7			6.1	173	35	2.4			7.6	215	45	3.1			9.2	261	55	3.8			10.7	303	65	4.5			12.2	345	30	2.1	3	0.2	6.8	17.3	11.0	27.9	14.0	35.6	17	5.2	
	40	2.8			8.4	238	50	3.4			10.0	283	60	4.1			11.5	326	70	4.8			12.7	360	80	5.5			13.7	388	50	3.4	10	0.7	7.5	19.1	12.0	30.5	15.0	38.1	22	6.7	
	50	3.4			10.0	283	60	4.1			11.5	326	80	5.5			13.7	388	90	6.2			14.8	419	100	6.9			16.2	459	60	4.1	20	1.4	8.0	20.3	12.0	30.5	16.0	40.6	25	7.6	
																															80	5.5	40	2.8	7.0	17.8	11.0	27.9	15.0	38.1	27	8.2	

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

An INTELLIGENT COMPRESSED AIR® Product

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.

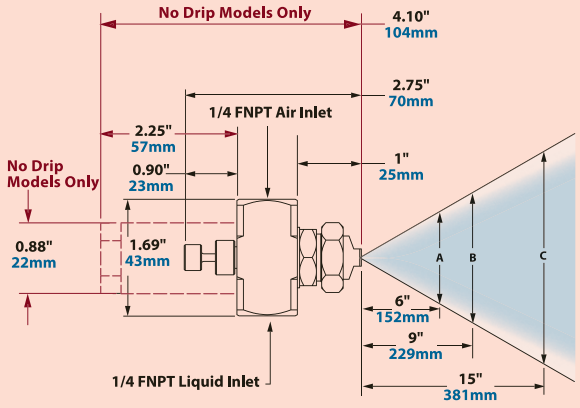
For pressure fed applications with independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing 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												Model
	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		Width: A in	Width: A cm	Width: B in	Width: B cm	Width: C in	Width: C cm	Max. Depth feet/m		
EB1010SS	5	0.3	1.0	3.8	0.9	25.5	5	0.3	1.4	5.3	0.9	25.5	8	0.6	1.9	7.2	1.1	31.1	10	0.7	2.7	10.2	1.3	36.8	15	1.0	3.8	14.4	1.7	48.1	10	0.7	5	0.3	8.0	20.3	11.0	27.9	14.0	35.6	9	2.7	EB1010SS
	8	0.6			1.1	31.1	10	0.7			1.3	36.8	10	0.7			1.3	36.8	20	1.4			2.0	56.6	20	1.4			2.0	56.6	15	1.0	10	0.7	9.0	22.9	12.0	30.5	17.0	43.2	11	3.4	
	10	0.7			1.3	36.8	15	1.0			1.7	48.1	20	1.4			2.0	56.6	30	2.1			2.6	73.6	30	2.1			2.6	73.6	20	1.4	20	1.4	9.3	23.6	14.0	35.6	19.0	48.3	11	3.4	
	15	1.0			1.7	48.1	20	1.4			2.0	56.6	30	2.1			2.6	73.6	35	2.4			3.0	85.0	35	2.4			3.0	85.0	25	1.7	30	2.1	11.0	27.9	15.0	38.1	20.0	50.8	13	4.0	
																															25	1.7	40	2.8	11.0	27.9	15.0	38.1	21.0	53.3	14	4.3	
EB1020SS	6	0.4	2.5	9.5	1.0	28.3	6	0.4	3.2	12.1	1.0	28.3	6	0.4	4.3	16.3	1.0	28.3	10	0.7	5.9	22.3	1.3	36.8	20	1.4	7.5	28.4	2.0	56.6	8	0.6	5	0.3	11.0	27.9	16.0	40.6	19.0	48.3	8	2.4	EB1020SS
	7	0.5			1.1	31.1	8	0.6			1.1	31.1	8	0.6			1.1	31.1	12	0.8			1.5	42.5	25	1.7			2.3	65.1	15	1.0	20	1.4	11.0	27.9	16.0	40.6	21.0	53.3	11	3.4	
	8	0.6			1.1	31.1	9	0.6			1.2	34.0	10	0.7			1.3	36.8	15	1.0			1.7	48.1	30	2.1			2.6	74.0	20	1.4	20	1.4	12.0	30.5	17.0	43.2	22.0	55.9	12	3.7	
	10	0.7			1.3	36.8	10	0.7			1.3	36.8	12	0.8			1.5	42.5	20	1.4			2.0	56.6	35	2.4			3.0	85.0	25	1.7	30	2.1	13.0	33.0	18.0	45.7	24.0	61.0	12	3.7	
																															30	2.1	40	2.8	13.0	33.0	19.0	48.3	24.0	61.0	14	4.3	
EB1030SS	8	0.6	4.4	16.7	3.4	96.3	10	0.7	5.5	20.8	3.8	108	15	1.0	7.6	28.8	4.8	136	35	2.4	11.0	41.6	8.4	238	50	3.4	14.0	53.0	11.0	311	15	1.0	3	0.2	11.0	27.9	17.0	43.2	21.0	53.3	13	4.0	EB1030SS
	15	1.0			4.8	136	20	1.4			5.9	167	25	1.7			6.7	190	45	3.1			10.1	286	65	4.5			12.3	348	25	1.7	10	0.7	12.0	30.5	18.0	45.7	23.0	58.4	16	4.9	
	20	1.4			5.9	167	25	1.7			6.7	190	35	2.4			8.4	238	55	3.8			11.7	331	85	5.9			15.7	445	45	3.1	20	1.4	13.0	33.0	19.0	48.3	24.0	61.0	21	6.4	
	25	1.7			6.7	190	30	2.1			7.6	215	40	2.8			9.3	263	60	4.1			12.0	340	95	6.5			16.8	476	60	4.1	30	2.1	14.0	35.6	18.0	45.7	24.0	61.0	26	7.9	
																															70	4.8	40	2.8	14.0	35.6	18.0	45.7	24.0	61.0	30	9.1	
EB1040SS	10	0.7	10.0	37.9	3.8	108	15	1.0	13.5	51.1	4.8	136	25	1.7	18.8	71.2	6.7	190	45	3.1	27.6	104	10.1	286	75	5.2	31.0	117	13.7	388	30	2.1	5	0.3	13.0	33.0	19.0	48.3	24.0	61.0	17	5.2	EB1040SS
	15	1.0			4.8	136	20	1.4			5.9	167	30	2.1			7.6	215	50	3.4			11.0	311	85	5.9			15.7	445	45	3.1	20	1.4	14.0	35.6	20.0	50.8	26.0	66.0	19	5.8	
	20	1.4			5.9	167	30	2.1			7.6	215	40	2.8			9.3	263	70	4.8			13.4	379	95	6.5			16.8	476	65	4.5	20	1.4	15.0	38.1	21.0	53.3	27.0	68.6	23	7.0	
	25	1.7			6.7	190	35	2.4			8.4	238	45	3.1			10.1	286	80	5.5			14.8	419	100	6.9			18.3	518	80	5.5	20	1.4	15.0	38.1	22.0	55.9	28.0	71.1	26	7.9	
																															90	6.2	40	2.8	16.0	40.6	22.0	55.9	28.0	71.1	26	7.9	

Air Atomizing Spray Nozzles

Siphon Fed Round Pattern - 1/4 NPT



Model: SR1010SS
Material: Type 303 Stainless Steel

Model: SR1020SS
Material: Type 303 Stainless Steel

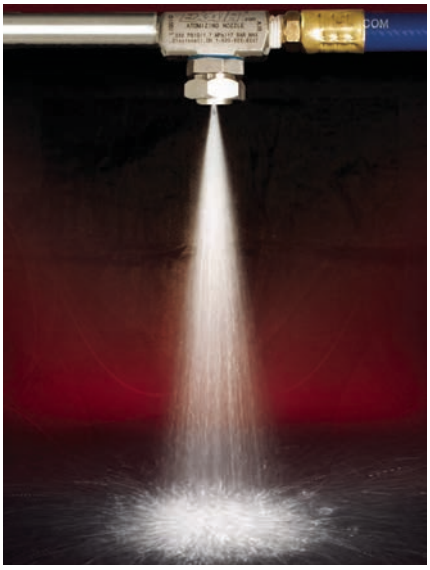
Model: SR1030SS
Material: Type 303 Stainless Steel

Model: SR1040SS
Material: Type 303 Stainless Steel

Model SR1010SS, SR1020SS, SR1030SS and SR1040SS

1/4 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.

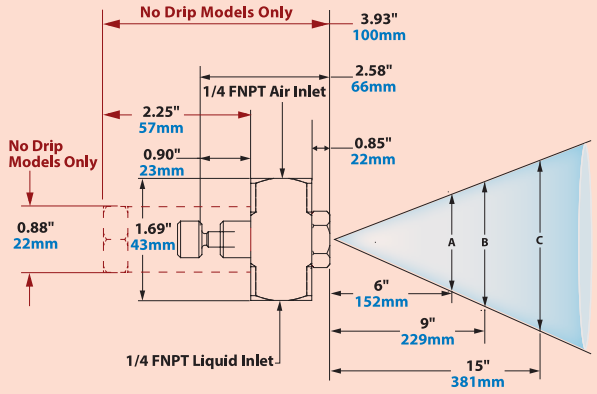
Siphon or gravity fed for non-pressurized applications.



The SR1020SS has a focused, round pattern for precision application of coatings or coolant.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

Model	Air Pressure PSI/BAR		Air SCFM/SLPM		Liquid Flow in GPH/LPH: Gravity Head 18"	46cm	12"	30cm	6"	15cm	Siphon Height 4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Spray Dimensions at 8" (20cm) Siphon Height: Air Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	Max. Depth feet/m		Model
SR1010SS	10	0.7	0.5	14.2	0.6	2.3	0.5	1.9	0.4	1.5	0.2	0.8	0.2	0.8	---	---	---	---	---	---	10	0.7	2.5	6	4.0	10	5.8	15	7	2.1	SR1010SS
	20	1.4	0.7	19.8	0.6	2.3	0.6	2.3	0.5	1.9	0.4	1.5	0.4	1.5	0.3	1.1	---	---	---	---	20	1.4	3.3	8	4.3	11	6.0	15	9	2.7	
	40	2.8	1.2	34.0	0.7	2.6	0.7	2.6	0.6	2.3	0.5	1.9	0.5	1.9	0.4	1.5	0.3	1.1	0.2	0.8	40	2.8	3.8	10	5.0	13	6.8	17	10	3.0	
	60	4.1	1.6	45.3	0.8	3.0	0.8	3.0	0.7	2.6	0.6	2.3	0.5	1.9	0.5	1.9	0.4	1.5	0.2	0.8	60	4.1	3.8	10	5.0	13	6.8	17	11	3.4	
SR1010SS	10	0.7	0.7	19.8	1.1	4.2	0.9	3.4	0.8	3.0	0.5	1.9	0.4	1.5	0.3	1.1	---	---	---	---	10	0.7	3.3	8	4.8	12	6.8	17	9	2.7	SR1020SS
	20	1.4	1.1	31.1	1.3	4.9	1.1	4.2	1.0	3.8	0.8	3.0	0.7	2.6	0.6	2.3	0.3	1.1	---	---	20	1.4	3.5	9	5.0	13	7.0	18	11	3.4	
	40	2.8	1.7	48.1	1.6	6.1	1.5	5.7	1.4	5.3	1.2	4.5	1.0	3.8	1.0	3.8	0.7	2.6	0.4	1.5	40	2.8	3.8	10	5.5	14	7.5	19	14	4.3	
	60	4.1	2.3	65.0	1.9	7.2	1.7	6.4	1.6	6.1	1.4	5.3	1.2	4.5	1.2	4.5	0.9	3.4	0.5	1.9	60	4.1	4.0	10	5.8	15	8.0	20	16	4.9	
SR1030SS	20	1.4	2.0	56.6	4.3	16.3	3.8	14.4	3.3	12.5	2.5	9.5	1.8	6.8	1.3	4.9	0.3	1.1	---	---	20	1.4	3.5	9	5.0	13	7.0	18	12	3.7	SR1030SS
	40	2.8	3.2	90.6	5.0	18.9	4.4	16.7	4.0	15.1	3.3	12.5	2.9	11.0	2.5	9.5	1.3	4.9	1.0	3.8	40	2.8	3.8	10	5.3	13	7.5	19	13	4.0	
	60	4.1	4.3	122	5.5	20.8	4.9	18.5	4.5	17.0	3.7	14.0	3.4	12.9	3.1	11.7	1.9	7.2	1.5	5.7	60	4.1	3.8	10	5.5	14	8.0	20	15	4.6	
	80	5.5	5.6	158	5.8	22.0	5.3	20.1	4.9	18.5	4.1	15.5	3.9	14.8	3.7	14.0	2.6	9.8	1.7	6.4	80	5.5	4.0	10	5.8	15	8.3	21	18	5.5	
SR1040SS	30	2.1	5.7	161	12.3	46.6	11.0	41.6	9.3	35.2	6.3	23.8	5.3	20.1	4.5	17.0	0.6	2.3	---	---	30	2.1	4.8	12	6.5	17	8.8	22	19	5.8	SR1040SS
	40	2.8	6.9	195	13.0	49.2	11.8	44.7	10.0	37.9	7.3	27.6	6.5	24.6	5.5	20.8	1.5	5.7	0.3	1.1	40	2.8	5.2	13	7.0	18	9.3	24	21	6.4	
	60	4.1	9.5	269	14.3	54.1	13.0	49.2	11.5	43.5	8.5	32.2	7.5	28.4	6.5	24.6	2.3	8.7	1.5	5.7	60	4.1	5.5	14	7.5	19	9.8	25	24	7.3	
	80	5.5	12.0	340	15.0	56.8	13.5	51.1	12.5	47.3	9.5	36.0	8.5	32.2	7.5	28.4	3.5	13.2	1.9	7.2	80	5.5	5.8	15	7.8	20	10.0	25	27	8.2	

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

An INTELLIGENT COMPRESSED AIR® Product

KiNG awards 2011 WINNER

Plant Engineering PRODUCT of the YEAR Finalist 2011

Siphon Fed Flat Fan Pattern - 1/4 NPT



Model: SF1010SS
Material: Type 303 Stainless Steel

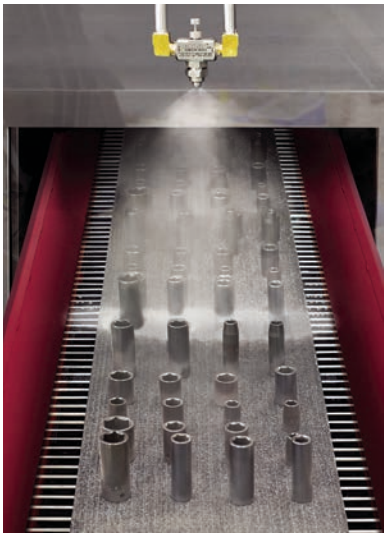
Model: SF1020SS
Material: Type 303 Stainless Steel

Model: SF1030SS
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.

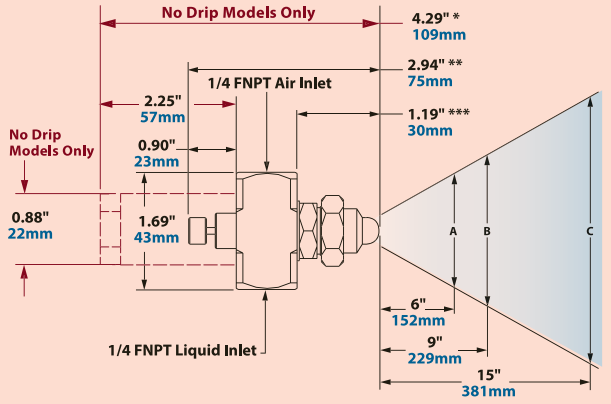
Siphon or gravity fed for non-pressurized applications.



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

DOWNLOAD drawings at EXAIR.com



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

No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

Liquid Flow in GPH/LPH

Model	Air Pressure PSI/BAR		Air SCFM/SLPM		Gravity Head 18"	46cm	12"	30cm	6"	15cm	Siphon Height 4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm
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	0.2	0.8	0.1	0.4
	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	0.3	1.1	0.2	0.8	0.2	0.8
	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	---	---	---	---	---	---
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	0.8	3.0	0.6	2.3	0.5	1.9
	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	0.8	3.0	0.6	2.3	0.5	1.9
	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	0.7	2.6	0.5	1.9	0.4	1.5
	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	---	---	---	---
SF1030SS	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
	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
	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
	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

Spray Dimensions at 8" (20cm) Siphon Height

Air Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	Max. Depth feet/m		Model
10	0.7	9	23	11	28	13	33	5	1.5	SF1010SS
20	1.4	10	25	12	30	14	36	6	1.8	
30	2.1	11	28	13	33	15	38	7	2.1	
20	1.4	10	25	14	36	19	48	6	1.8	SF1020SS
30	2.1	11	28	15	38	21	53	7	2.1	
40	2.8	13	33	16	41	23	58	6	1.8	
50	3.4	14	36	18	46	25	64	6	1.8	
20	1.4	9	23	11	28	15	38	8	2.4	SF1030SS
30	2.1	10	25	13	33	17	43	9	2.7	
40	2.8	11	28	14	36	17	43	10	3.0	
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



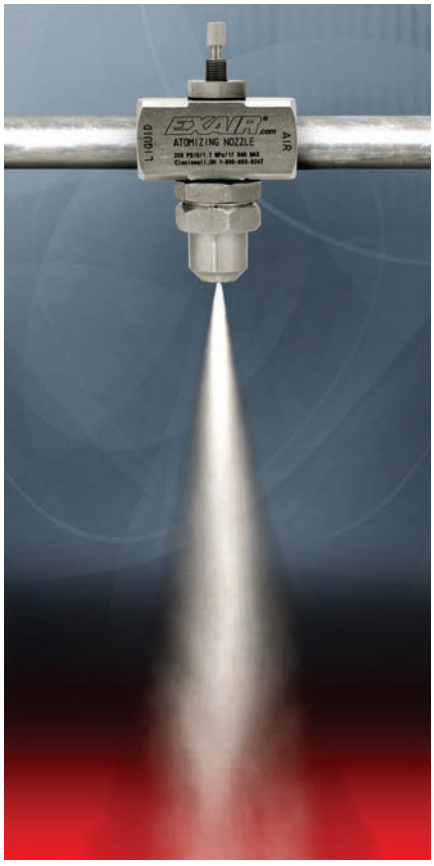
Model: AN5010SS
Material: Type 303 Stainless Steel

Model: AN5020SS
Material: Type 303 Stainless Steel

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.

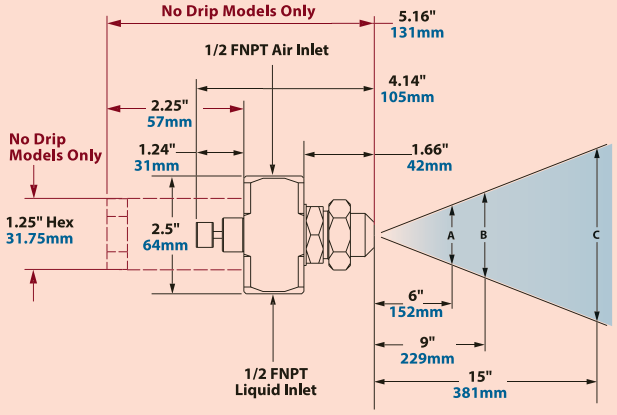
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

Spray Dimensions

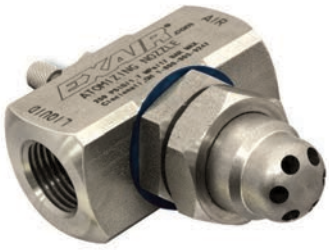
Model	Pressure: Air PSI/BAR		Pressure: Liquid PSI/BAR		Width: A in	Width: A cm	Width: B in	Width: B cm	Width: C in	Width: C cm	Max. Depth feet/m		Model
AN5010SS	20	1.4	5	0.3	3.5	9	5.75	14.6	8.5	22	22	6.7	AN5010SS
	36	2.5	15	1.0							30	9.1	
	50	3.4	25	1.7							34	10.4	
	60	4.1	35	2.4							37	11.3	
AN5020SS	10	0.7	5	0.3	4	10	6	15.2	8.5	22	20	6.1	AN5020SS
	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: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		15 PSI/1.0 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		25 PSI/1.7 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		35 PSI/2.4 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		55 PSI/3.8 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Model
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	---	---	---	---	---	---	AN5010SS
	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	AN5020SS
	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	

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

An INTELLIGENT COMPRESSED AIR® Product

Internal Mix Wide Angle Round Pattern - 1/2 NPT



Model: AW5010SS
Material: Type 303 Stainless Steel

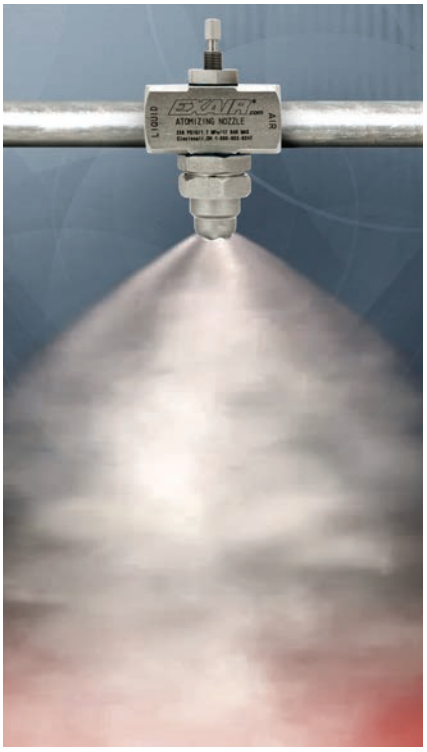
Model: AW5020SS
Material: Type 303 Stainless Steel

Model: AW5030SS
Material: Type 303 Stainless Steel

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.

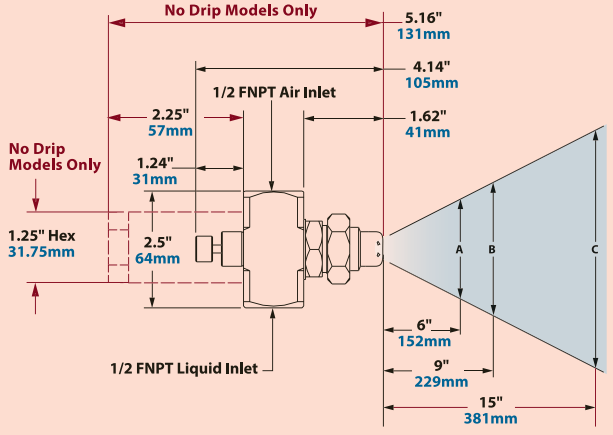
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing 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												Model
	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	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	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	1.7	12.5	31.8	18	46	26	66	18	5.5	AW5010SS
	---	---	---	---	---	---	---	---	---	---	---	---	30	2.1	20.4	77	10.0	283	42	2.9	18	68	13.3	377	60	4.1	49	185	13.4	379	40	2.8	35	2.4	13	33.0	19	48	26	66	20	6.1	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	62	4.3	36	136	16.8	476	60	4.1	55	3.8	14	35.6	19	48	26.5	67	22	6.7	
AW5020SS	10	0.69	32	121	12.0	340	26	1.8	36.8	139	21.8	617	40	2.8	60.6	229	29.9	847	54	3.7	70	265	37.4	1059	75	5.2	115	435	45.6	1291	12	0.8	5	0.3	15	38.1	19.5	50	25	64	22	6.7	AW5020SS
	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	80	5.5	94	356	50.2	1422	46	3.2	25	1.7	16	40.6	20	51	25	64	35	10.7	
	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	55	3.8	13	33.0	17	43	20.5	52	45	13.7	
AW5030SS	10	0.69	31.2	118	12.8	362	18	1.2	112	424	14.6	413	26	1.8	180	681	17.0	481	36	2.5	210	795	21.2	600	54	3.7	264	999	28.2	799	10	0.7	5	0.3	16	40.6	21	53	31	79	20	6.1	AW5030SS
	12	0.83	18.6	70	15.15	429	20	1.4	87	329	16.5	467	30	2.1	138	522	20.6	583	40	2.8	177	670	25.0	708	62	4.3	216	818	36.0	1020	20	1.4	15	1.0	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	150	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	76	5.2	111	420	48.1	1362	64	4.4	55	3.8	13.5	34.3	17	43	22	56	44	13.4	

Air Atomizing Spray Nozzles

Internal Mix Flat Fan Pattern - 1/2 NPT



Model: AF5010SS
Material: Type 303 Stainless Steel

Model: AF5020SS
Material: Type 303 Stainless Steel

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.

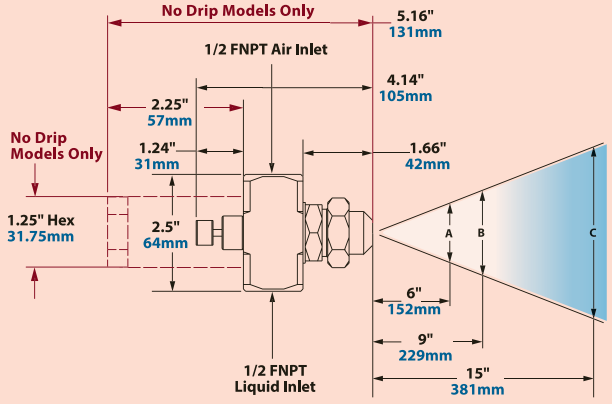
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

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.

Spray Dimensions

Model	Pressure Air PSI/BAR		Pressure Liquid PSI/BAR		Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	Max. Depth feet/m		Model
AF5010SS	20	1.4	10	0.7	25	64	34	86	45	114	14	4.3	AF5010SS
	40	2.8	20	1.4	28	71	36	91	46	117	18	5.5	
	50	3.4	25	1.7	29	74	38	97	48	122	22	6.7	
	70	4.8	40	2.8	32	81	42	107	51	130	27	8.2	
AF5020SS	10	0.7	5	0.3	21	53	27	69	36	91	13	4.0	AF5020SS
	20	1.4	15	1.0	34	86	42	107	52	132	15	4.6	
	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	

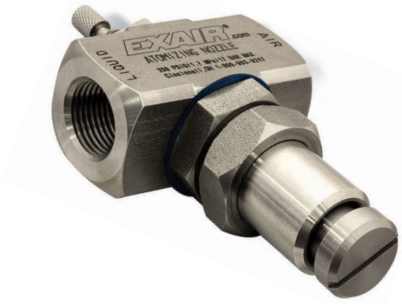
Model	5 PSI/0.3 BAR Liquid						15 PSI/1.0 BAR Liquid						25 PSI/1.7 BAR Liquid						35 PSI/2.4 BAR Liquid						55 PSI/3.8 BAR Liquid						Model
	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/ SLPM		Air Pressure PSI/BAR		GPH/LPH		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	---	---	---	---	---	---	AF5010SS
	---	---	---	---	---	---	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	---	---	---	---	---	---	
AF5020SS	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	830	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	

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

An INTELLIGENT COMPRESSED AIR® Product

2018 Plant Engineering PRODUCT of the YEAR Bronze Award

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



Model: AT5010SS
Material: Type 303 Stainless Steel

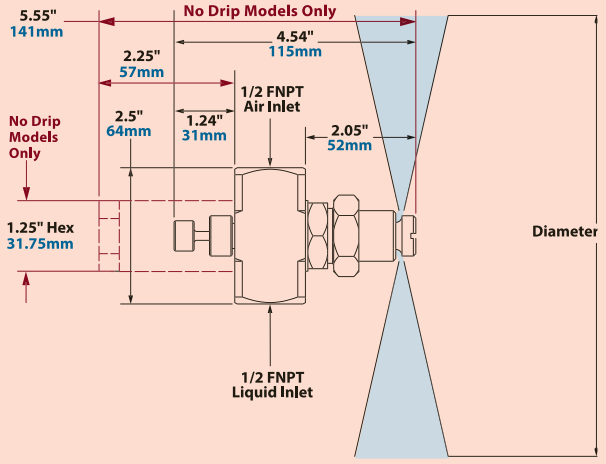
Model AT5010SS

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.

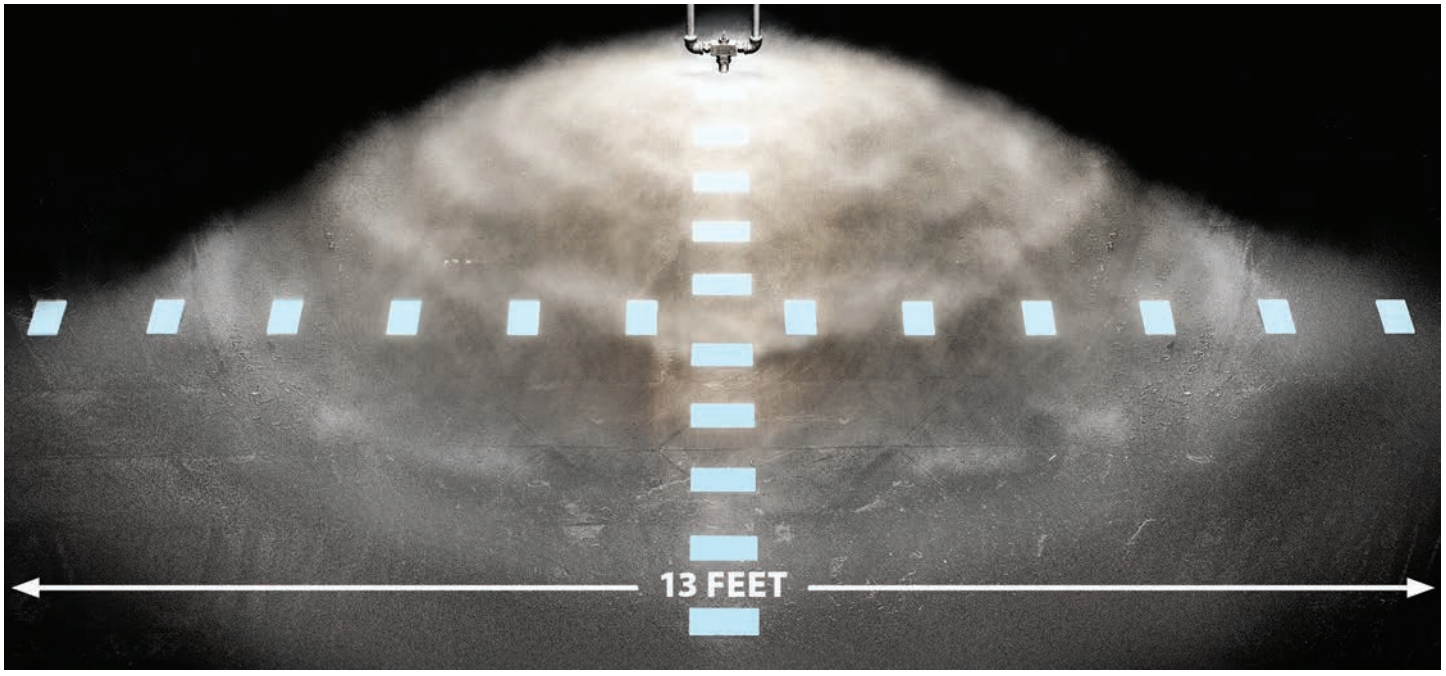
For pressure fed applications not requiring independent air and liquid control.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles



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 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	Diameter in	Diameter 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	AT5010SS
	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

External Mix Narrow Angle Flat Fan Pattern - 1/2 NPT

2016 Plant Engineering PRODUCT of the YEAR Bronze Award



Model: EF5010SS
Material: Type 303 Stainless Steel

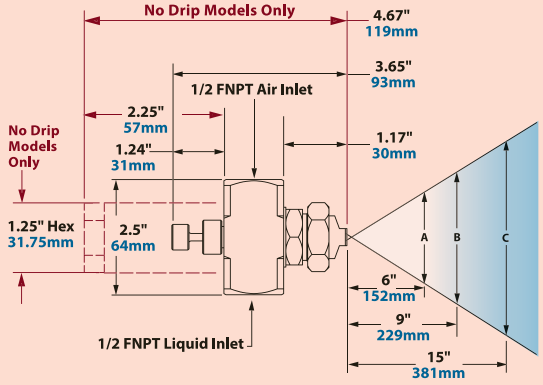
Model EF5010SS

1/2 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.

Dimensions and Airflow Pattern

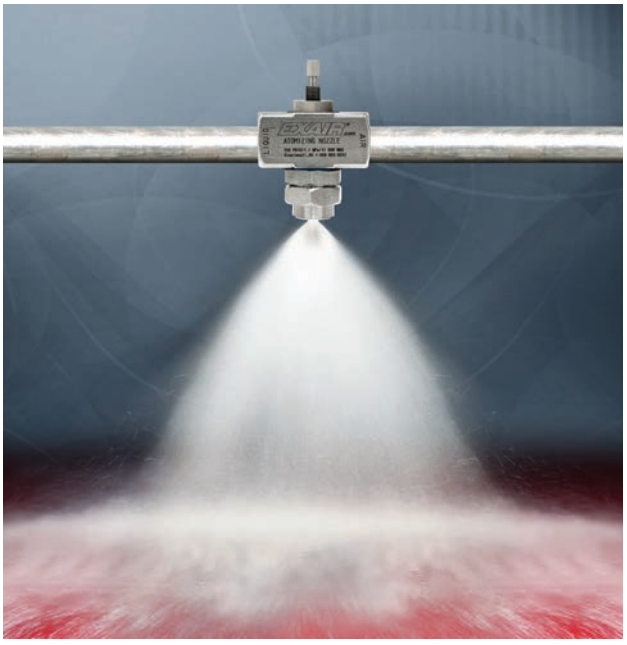
DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing Nozzles

TECHELP 1-800-903-9247 DIRECT

Built to Last 5 yr. WARRANTY
See our Terms & Conditions



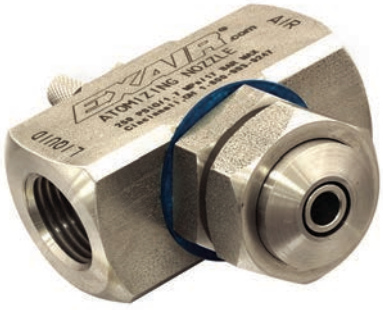
External mix narrow angle flat fan nozzles provide a high volume of liquid in a concentrated area.

Model	3 PSI/0.2 BAR Liquid				5 PSI/0.3 BAR Liquid				7 PSI/0.5 BAR Liquid				10 PSI/0.7 BAR Liquid				15 PSI/1.0 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		Pressure				Width						Max. Depth feet/m		
																									Air PSI/ BAR		Liquid PSI/ BAR		A		B		C				
																													in	cm	in	cm	in	cm			
EF5010SS	30	2.1	141	534	30.2	854	40	2.8	186	704	36.6	1037	45	3.1	218	825	39.9	1130	55	3.8	264	999	46.4	1314	80	5.5	303	1147	56.0	1586	35	2.4	3	0.2	15	38	18.5	47	22	56	25	7.6	EF5010SS
	35	2.4			34.0	961	45	3.1			40.4	1144	55	3.8			47.0	1331	60	4.1			49.75	1409	85	5.9			60.0	1699	50	3.4	5	0.3	15	38	19	48	23	58	31	9.4	
	40	2.8			37.3	1055	55	3.8			47.4	1342	60	4.1			49.5	1402	70	4.8			52.84	1496	90	6.2			61.4	1739	70	4.8	10	0.7	15	38	20	51	25	64	33	10.1	
	45	3.1			40.8	1155	60	4.1			50.0	1416	70	4.8			56.8	1609	80	5.5			59.7	1691	100	6.9			67.6	1914	90	6.2	15	1.0	15	38	20	51	25	64	35	10.7	

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

An INTELLIGENT COMPRESSED AIR® Product

Siphon Fed Round Pattern - 1/2 NPT



Model: SR5010SS
Material: Type 303 Stainless Steel

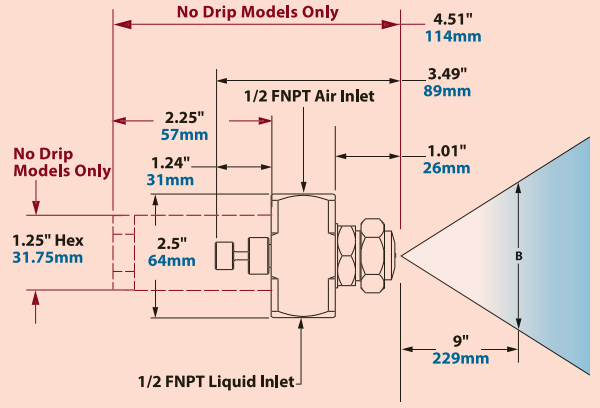
Model SR5010SS

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. 1/2 NPT 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.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing 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!

Model	Liquid Flow in GPH/LPH																		Spray Dimensions at 8" (20cm) Siphon Height					
	Air				Gravity Head						Siphon Height								Air		Width B		Max. Depth	
	Pressure PSI/BAR		SCFM/ SLPM		18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	Pressure PSI/BAR		in	cm	feet/m	
SR5010SS	20	1.4	19.3	547	---	---	---	---	---	---	22.1	84	14.3	54	---	---	---	---	20	1.4			22	6.7
	30	2.1	25.2	714	---	---	---	---	---	---	28.6	108	25.7	97	12.3	47	---	---	30	2.1			25	7.6
	40	2.8	32.8	929	---	---	56.8	215	41	155	31.5	119	28.4	107	19.6	74	---	---	40	2.8			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			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			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			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.



Built to Last 5 yr. WARRANTY
See our Terms & Conditions page for complete details.

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

An INTELLIGENT COMPRESSED AIR® Product

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

No Drip Air Atomizing Spray Nozzles







NO DRIP INTERNAL MIX ATOMIZING 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 Air Atomizing Spray Nozzles

An INTELLIGENT COMPRESSED AIR® Product

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







NO DRIP EXTERNAL MIX ATOMIZING NOZZLES

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

No Drip Air Atomizing Spray Nozzles

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





NO DRIP SIPHON FED ATOMIZING 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

An INTELLIGENT COMPRESSED AIR® Product

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 more 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).

Built to Last 5 yr. WARRANTY

See our Terms & Conditions page for complete details

Applications

- Cooling
- Quenching
- Coating
- Dust suppression
- Washing
- Rinsing
- Foam breaking
- Slurry spraying
- Sanitizing
- Degreasing
- Lubricating

Advantages

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

Liquid Atomizing Spray Nozzles

OmniStream™ Cone Nozzles - 1/4 NPT



Model: FL1008SS
Material: Type 303 Stainless Steel

Model: FL1010SS
Material: Type 303 Stainless Steel

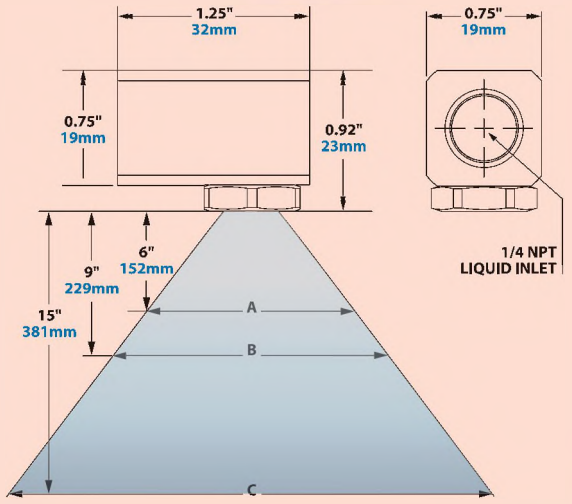
Model: FL1011SS
Material: Type 303 Stainless Steel

Model FL1008SS, FL1010SS and FL1011SS

EXAIR's 1/4 NPT OmniStream 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. OmniStream nozzles also work well with liquids containing particulate.

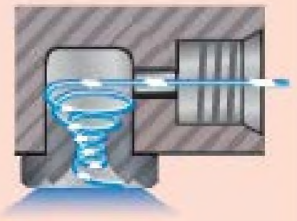
Dimensions and Spray Pattern

DOWNLOAD drawings at EXAIR.com



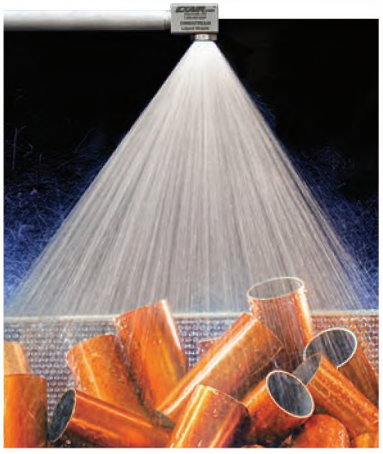
How OmniStream and HollowStream Cone Nozzles Work

With OmniStream 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.



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

For maximum liquid conservation and spray control visit Air Atomizing Nozzles on page 70.



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

OmniStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage		Flow Rate GPM/LPM 3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI
1/4 NPT	FL1008SS	8	0.109"	GPM	0.50	0.60	0.70	0.80	1.15	1.55	1.80
				LPM	1.89	2.27	2.65	3.03	4.35	5.87	6.81
	FL1010SS	10	0.125"	GPM	0.48	0.67	0.83	1.00	1.34	1.88	2.36
				LPM	1.82	2.54	3.14	3.79	5.07	7.12	8.93
	FL1011SS	11	0.144"	GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66
				LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07

Spray Angle

Inlet Pressure PSI	BAR	Width A in	A cm	B in	B cm	C in	C cm	
7	0.5	5.7	14	8.6	22	14.3	36	FL1008SS
20	1.4	7.4	19	11.0	28	18.4	47	
60	4.1	8.4	21	12.6	32	21.0	53	
7	0.5	6.8	17	10.2	26	17.0	43	FL1010SS
20	1.4	8.7	22	13.1	33	21.8	55	
60	4.1	10.1	26	15.1	38	25.2	64	
7	0.5	6.8	17	10.2	26	17.0	43	FL1011SS
20	1.4	8.7	22	13.1	33	21.8	55	
60	4.1	10.1	26	15.1	38	25.2	64	

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

OmniStream™ Cone Nozzles - 3/8 NPT



Model: FL3011SS
Material: Type 303 Stainless Steel

Model: FL3013SS
Material: Type 303 Stainless Steel

Model: FL3016SS
Material: Type 303 Stainless Steel

Model: FL3020SS
Material: Type 303 Stainless Steel

Model: FL3023SS
Material: Type 303 Stainless Steel

Model: FL3026SS
Material: Type 303 Stainless Steel

Model: FL3029SS
Material: Type 303 Stainless Steel

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

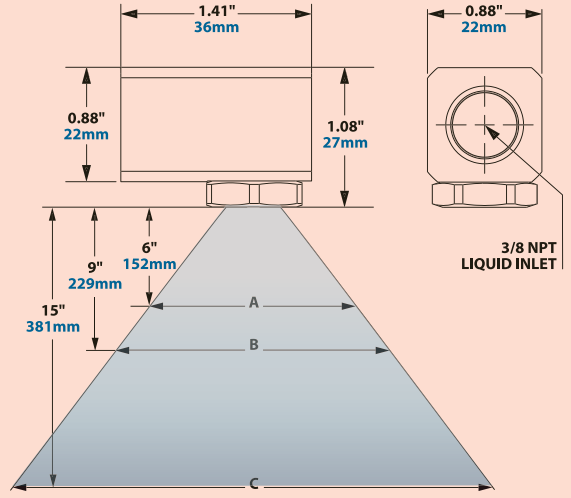
For maximum liquid conservation and spray control visit Air Atomizing Nozzles on page 70.

Model FL3011SS, FL3013SS, FL3016SS, FL3020SS, FL3023SS, FL3026SS and FL3029SS

EXAIR's 3/8 NPT OmniStream 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. OmniStream nozzles also work well with liquids containing particulate.

Dimensions and Spray Pattern

DOWNLOAD drawings at EXAIR.com





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

OmniStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage		Flow Rate GPM/LPM						
					3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI
3/8 NPT	FL3011SS	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
	FL3013SS	13	0.144"	GPM	0.75	0.95	1.13	1.30	1.86	2.60	3.34
				LPM	2.84	3.60	4.28	4.92	7.04	9.84	12.64
	FL3016SS	16	0.154"	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
	FL3020SS	20	0.172"	GPM	1.22	1.64	1.88	2.00	2.98	4.24	4.82
				LPM	4.62	6.21	7.12	7.57	11.28	16.05	18.24
	FL3023SS	23	0.189"	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
	FL3026SS	26	0.204"	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
	FL3029SS	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

Spray Angle

Inlet Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	
7	0.5	8.1	21	12.1	31	20.2	51	FL3011SS
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	FL3013SS
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	FL3016SS
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	FL3020SS
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	FL3023SS
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	FL3026SS
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	FL3029SS
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

OmniStream™ Cone Nozzles - 1/2 NPT



Model: FL5032SS
Material: Type 303 Stainless Steel

Model: FL5040SS
Material: Type 303 Stainless Steel

Model: FL5048SS
Material: Type 303 Stainless Steel

Model: FL5056SS
Material: Type 303 Stainless Steel

Model: FL5064SS
Material: Type 303 Stainless Steel

Model: FL5072SS
Material: Type 303 Stainless Steel

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

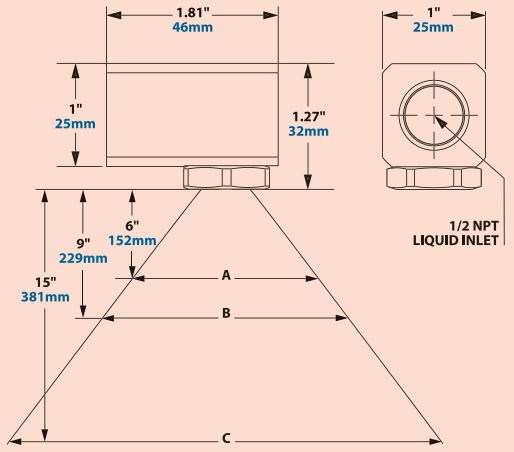
EXAIR's 1/2 NPT OmniStream Cone Nozzles, with a full cone spray pattern, are among the most common type of spray nozzles. Full cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry. Their tangential flow design is vaneless, which 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. OmniStream nozzles also work well with liquids containing particulate.

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

For maximum liquid conservation and spray control visit Air Atomizing Nozzles on page 70.

Dimensions Spray Pattern

DOWNLOAD drawings at EXAIR.com





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

OmniStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM	3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI
1/2 NPT	FL5032SS	32	0.201"	GPM	1.74	2.46	2.80	3.20	4.46	6.28	7.30
				LPM	6.59	9.31	10.60	12.11	16.88	23.77	27.63
	FL5040SS	40	0.242"	GPM	2.68	3.14	3.52	4.00	5.60	7.80	8.76
				LPM	10.14	11.89	13.32	15.14	21.20	29.53	33.16
	FL5048SS	48	0.281"	GPM	3.06	3.56	3.96	4.80	6.81	9.58	11.73
				LPM	11.28	13.48	15.00	18.17	25.78	39.26	44.40
	FL5056SS	56	0.295"	GPM	3.32	4.18	4.67	5.60	7.89	11.22	13.74
				LPM	12.57	15.82	17.68	21.20	29.87	42.47	52.01
	FL5064SS	64	0.328"	GPM	3.50	4.50	5.15	6.40	9.13	12.70	15.81
				LPM	13.25	17.03	19.49	24.23	34.56	48.07	59.85
	FL5072SS	72	0.359"	GPM	4.08	5.00	6.17	7.20	10.17	14.40	17.64
				LPM	15.44	18.93	23.36	27.25	38.50	54.51	66.77

Spray Angle

Inlet Pressure PSI	Inlet Pressure BAR	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	
7	0.5	9.4	23.9	14.1	35.81	23.4	59.4	FL5032SS
20	1.4	10.1	25.7	15.1	38.3	25.2	64.0	
60	4.1	12.0	30.5	18.0	45.7	30.0	76.2	
7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	FL5040SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	
7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	FL5048SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	
7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	FL5056SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	
7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	FL5064SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	
7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	FL5072SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	

HollowStream™ Cone Nozzles – 1/8 NPT



Model: HL80X5SS
Material: Type 303 Stainless Steel

Model: HL8001SS
Material: Type 303 Stainless Steel

Model: HL8002SS
Material: Type 303 Stainless Steel

Model: HL8003SS
Material: Type 303 Stainless Steel

Model: HL8005SS
Material: Type 303 Stainless Steel

Model: HL8008SS
Material: Type 303 Stainless Steel

Model: HL8010SS
Material: Type 303 Stainless Steel

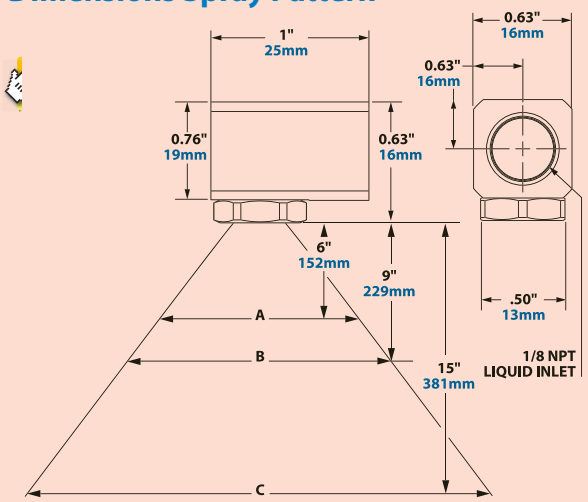
Compared to EXAIR's Air Atomizing Spray Nozzles the HollowStream will have higher liquid flow rates.

For maximum liquid conservation and spray control visit Air Atomizing Nozzles on page 70.

Model HL80X5SS, HL8001SS, HL8002SS, HL8003SS, HL8005SS, HL8008SS and HL8010SS

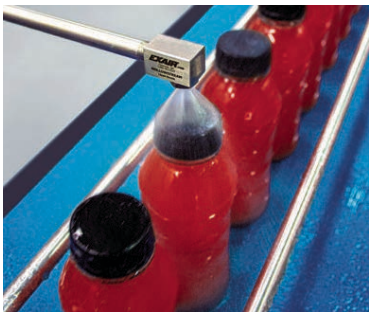
EXAIR's 1/8 NPT HollowStream™ Cone Nozzles, with a circular ring spray pattern, are among the most common type of spray nozzles. Hollow cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry with less liquid than their full cone counterparts. Their design is vaneless, which creates wide open internal features to resist clogging and can work well with liquids containing particulate. They produce a uniform distribution in a hollow cone ring pattern. Their right-angle design is compact and operates up to 250 PSI liquid pressure. They are commonly used with liquids like water, rinse aids or detergents but are also effective with chemicals, pesticides and herbicides. Adjustment of the liquid flow rate is done by varying liquid pressure.

Dimensions Spray Pattern



See page 98 for How the OmniStream and HollowStream Cone Nozzles Work.

HollowStream Nozzles rinse off bottles as part of a filling and packaging operation.



HollowStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage		Flow Rate GPM/LPM 3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI
1/8 NPT	HL80X5SS	5	0.035"	GPM	0.033	0.040	0.046	0.050	0.072	0.100	0.156
				LPM	0.125	0.151	0.174	0.189	0.273	0.379	0.591
	HL8001SS	1	0.063"	GPM	0.067	0.083	0.094	0.100	0.153	0.206	0.239
				LPM	0.254	0.314	0.356	0.379	0.579	0.780	0.905
	HL8002SS	2	0.078"	GPM	0.12	0.15	0.18	0.20	0.25	0.35	0.42
				LPM	0.44	0.57	0.66	0.76	0.93	1.31	1.60
	HL8003SS	3	0.094"	GPM	0.20	0.22	0.26	0.30	0.43	0.61	0.75
				LPM	0.76	0.82	0.98	1.14	1.62	2.32	2.84
	HL8005SS	5	0.125"	GPM	0.25	0.33	0.39	0.48	0.67	0.95	1.18
				LPM	0.95	1.25	1.49	1.82	2.54	3.61	4.46
	HL8008SS	8	0.156"	GPM	0.45	0.55	0.67	0.80	1.18	1.62	1.90
				LPM	1.70	2.08	2.54	3.03	4.47	6.13	7.19
	HL8010SS	10	0.159"	GPM	0.48	0.64	0.79	0.96	1.31	1.85	2.10
				LPM	1.82	2.42	2.99	3.63	4.96	7.00	7.95

Spray Dimensions

Inlet Pressure PSI	Inlet Pressure BAR	Spray Angle Degrees	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	
7	0.5	X	X	X	X	X	X	X	HL80X5SS
20	1.4	20	0.4	0.9	1.1	2.7	2.1	5.4	
60	4.1	55	1.0	2.6	3.1	7.9	6.2	15.9	
7	0.5	23	X	X	X	X	X	X	HL8001SS
20	1.4	50	0.9	2.4	2.8	7.1	5.6	14.2	
60	4.1	60	1.2	2.9	3.5	8.8	6.9	17.6	
7	0.5	50	0.9	2.4	2.8	7.1	5.6	14.2	HL8002SS
20	1.4	53	1.0	2.5	3.0	7.6	6.0	15.2	
60	4.1	60	1.2	2.9	3.5	8.8	6.9	17.6	
7	0.5	50	0.9	2.4	2.8	7.1	5.6	14.2	HL8003SS
20	1.4	53	1.0	2.5	3.0	7.6	6.0	15.2	
60	4.1	60	1.2	2.9	3.5	8.8	6.9	17.6	
7	0.5	40	0.7	1.8	2.2	5.5	4.4	11.1	HL8005SS
20	1.4	57	1.1	2.8	3.3	8.3	6.5	16.5	
60	4.1	70	1.4	3.6	4.2	10.7	8.4	21.3	
7	0.5	53	1.0	2.5	3.0	7.6	6.0	15.2	HL8008SS
20	1.4	60	1.2	2.9	3.5	8.8	6.9	17.6	
60	4.1	62	1.2	3.1	3.6	9.2	7.2	18.3	
7	0.5	60	1.2	2.9	3.5	8.8	6.9	17.6	HL8010SS
20	1.4	65	1.3	3.2	3.8	9.7	7.6	19.4	
60	4.1	70	1.4	3.6	4.2	10.7	8.4	21.3	

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

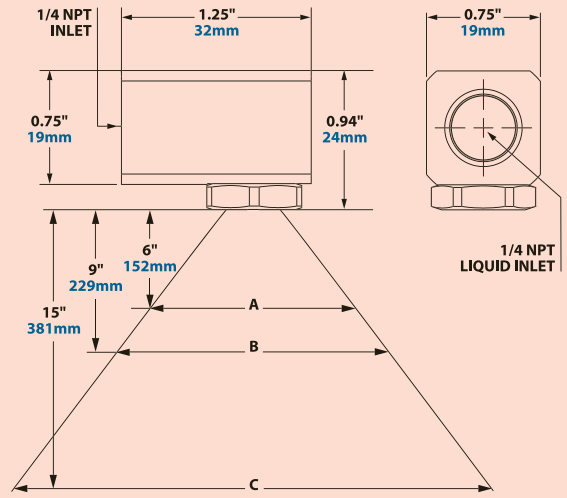
EXAIR's 1/4 NPT HollowStream Cone Nozzles produce a ring of liquid upon your target and are among the most common type of spray nozzles. Hollow cone spray nozzles generally use less liquid than full cone spray nozzles. These nozzles will be used when cooling, cleaning, washing, rinsing and dust suppression 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.

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

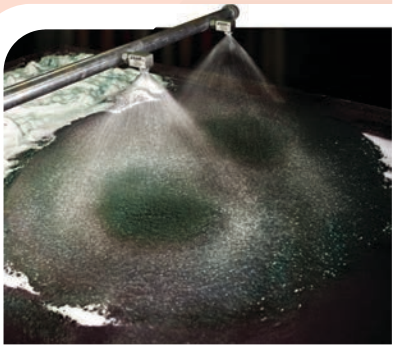
For maximum liquid conservation and spray control visit Air Atomizing Nozzles on page 70.

Dimensions and Spray Pattern

DOWNLOAD drawings at EXAIR.com



See page 98 for How the OmniStream and HollowStream Cone Nozzles Work.



HollowStream Nozzles break and remove foam from a washing basin.

HollowStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage		Flow Rate GPM/LPM 3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI
1/4 NPT	HL1001SS	1	0.052"	GPM	0.06	0.07	0.09	0.10	0.13	0.18	0.21
				LPM	0.23	0.26	0.34	0.38	0.49	0.68	0.79
	HL1002SS	2	0.086"	GPM	0.14	0.17	0.19	0.20	0.27	0.38	0.46
				LPM	0.53	0.64	0.72	0.76	1.02	1.44	1.74
	HL1003SS	3	0.109"	GPM	0.20	0.24	0.28	0.32	0.45	0.63	0.77
				LPM	0.76	0.91	1.06	1.21	1.70	2.38	2.91
	HL1005SS	5	0.120"	GPM	0.27	0.35	0.39	0.49	0.65	0.91	1.12
				LPM	1.02	1.32	1.47	1.85	2.46	3.44	4.23
	HL1008SS	8	0.166"	GPM	0.46	0.59	0.73	0.80	1.16	1.60	2.04
				LPM	1.74	2.23	2.76	3.02	4.38	6.05	7.71
	HL1011SS	11	0.180"	GPM	0.65	0.81	0.93	1.10	1.47	2.03	2.50
				LPM	2.46	3.06	3.52	4.16	5.56	7.67	9.45

Spray Angle

Inlet Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	
7	0.5	4.8	12.3	6.1	15.5	7.8	19.8	HL1001SS
20	1.4	7.3	18.5	9.2	23.3	11.7	29.7	
60	4.1	12.1	30.8	15.3	38.8	19.5	49.5	
7	0.5	6.1	15.5	8.6	21.7	11.2	28.4	HL1002SS
20	1.4	9.2	23.3	12.8	32.6	16.8	42.6	
60	4.1	15.3	38.8	21.4	54.4	28.0	71.1	
7	0.5	6.8	17.2	10.4	26.5	13.3	33.9	HL1003SS
20	1.4	10.2	25.9	15.6	39.7	20.0	50.8	
60	4.1	17.0	43.1	26.1	66.2	33.3	84.6	
7	0.5	8.4	21.3	9.7	24.7	14.3	36.3	HL1005SS
20	1.4	12.6	32.0	14.6	37.0	21.5	54.5	
60	4.1	21.0	53.4	24.3	61.7	35.8	90.8	
7	0.5	7.1	18.0	7.8	19.8	10.1	25.6	HL1008SS
20	1.4	10.6	26.9	11.7	29.7	15.1	38.4	
60	4.1	17.7	44.9	19.5	49.5	25.2	63.9	
7	0.5	9.5	24.2	12.0	30.5	14.8	37.6	HL1011SS
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	

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

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

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

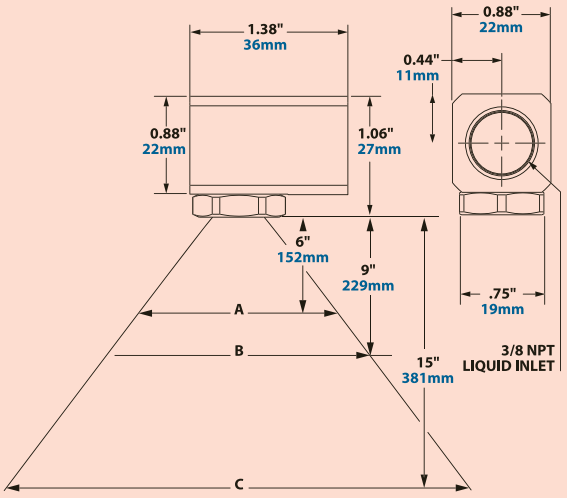
For maximum liquid conservation and spray control visit Air Atomizing Nozzles on page 70.

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 Spray Pattern

DOWNLOAD drawings at EXAIR.com



See page 98 for How the OmniStream and HollowStream Cone Nozzles Work.



3/8 NPT HollowStream nozzle lowers emissions inside of a gas scrubber.

Liquid Nozzles

HollowStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM	3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	30 PSI	40 PSI	60 PSI
3/8 NPT	HL3005SS	5	0.111"	GPM	0.29	0.34	0.39	0.45	0.62	0.75	0.86	1.04
				LPM	1.11	1.30	1.48	1.71	2.35	2.83	3.25	3.95
	HL3008SS	8	0.159"	GPM	0.50	0.60	0.71	0.82	1.12	1.33	1.50	1.80
				LPM	1.88	2.28	2.68	3.09	4.25	5.04	5.68	6.80
	HL3010SS	10	0.172"	GPM	0.64	0.75	0.89	1.01	1.36	1.62	1.83	2.47
				LPM	2.42	2.84	3.36	3.81	5.16	6.13	6.93	9.35
	HL3015SS	15	0.166"	GPM	0.94	1.10	1.29	1.48	1.98	2.60	2.80	3.60
				LPM	3.54	4.16	4.88	5.60	7.48	9.84	10.60	13.63
	HL3020SS	20	0.203"	GPM	1.28	1.50	1.81	2.00	2.75	3.39	3.92	4.53
				LPM	4.86	5.69	6.86	7.57	10.41	12.84	14.83	17.13
	HL3025SS	25	0.219"	GPM	1.45	1.78	2.02	2.45	3.34	4.00	4.52	5.40
				LPM	5.49	6.75	7.63	9.27	12.65	15.14	17.10	20.44
	HL3030SS	30	0.281"	GPM	1.80	2.30	2.68	3.10	4.23	5.13	6.03	7.28
				LPM	6.81	8.71	10.13	11.73	15.99	19.40	22.81	27.54

Spray Angle

Inlet Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	
7	0.5	10.1	25.6	15.1	38.4	25.2	63.9	HL3005SS
20	1.4	11.0	27.9	16.5	41.9	27.5	69.8	
60	4.1	11.8	30.0	17.7	44.9	29.5	74.9	
7	0.5	7.5	19.0	11.2	28.6	18.7	47.6	HL3008SS
20	1.4	8.4	21.3	12.6	32.0	21.0	53.4	
60	4.1	10.1	25.6	15.1	38.4	25.2	63.9	
7	0.5	8.4	21.3	12.6	32.0	21.0	53.4	HL3010SS
20	1.4	9.5	24.2	14.3	36.4	23.9	60.6	
60	4.1	10.4	26.5	15.6	39.7	26.1	66.2	
7	0.5	11.4	28.9	17.1	43.4	28.5	72.3	HL3015SS
20	1.4	13.1	33.3	19.6	49.9	32.7	83.2	
60	4.1	13.8	35.1	20.7	52.6	34.5	87.7	
7	0.5	11.4	28.9	17.1	43.4	28.5	72.3	HL3020SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	13.1	33.3	19.6	49.9	32.7	83.2	
7	0.5	10.1	25.6	15.1	38.4	25.2	63.9	HL3025SS
20	1.4	11.0	27.9	16.5	41.9	27.5	69.8	
60	4.1	12.0	30.5	18.0	45.7	30.0	76.2	
7	0.5	8.2	20.9	12.4	31.4	20.6	52.4	HL3030SS
20	1.4	8.7	22.1	13.1	33.2	21.8	55.4	
60	4.1	10.1	25.6	15.1	38.4	25.2	63.9	

Liquid Atomizing Spray Nozzles

HollowStream™ Cone Nozzles – 1/2 NPT



Model: HL5025SS
Material: Type 303 Stainless Steel

Model: HL5030SS
Material: Type 303 Stainless Steel

Model: HL5040SS
Material: Type 303 Stainless Steel

Model: HL5050SS
Material: Type 303 Stainless Steel

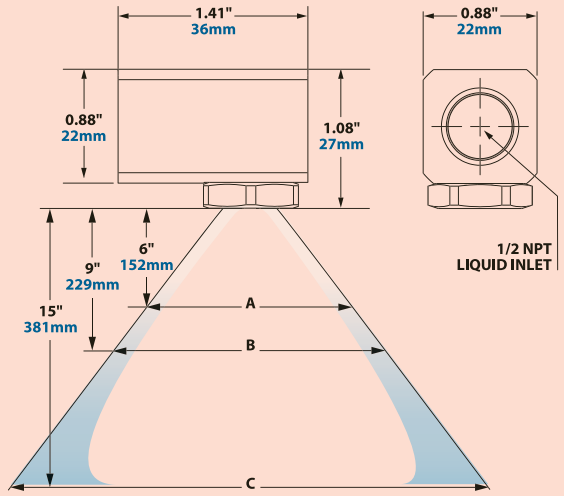
Model: HL5060SS
Material: Type 303 Stainless Steel

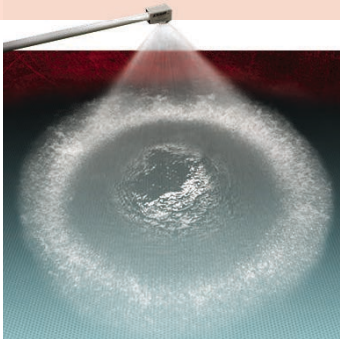
Model HL5025SS, HL5030SS, HL5040SS, HL5050SS, HL5060SS

EXAIR's 1/2 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





The precision machining of the HollowStream nozzle produces a controlled spray angle in this rinsing operation.

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

For maximum liquid conservation and spray control visit our Air Atomizing Nozzles on page 70.

HollowStream Cone Nozzles

Inlet Connection	Model	Capacity	Max Free Passage		Flow Rate GPM/LPM 3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	30 PSI	40 PSI	60 PSI
1/2 NPT	HL5025SS	25	0.281"	GPM	1.60	1.90	2.40	2.50	3.70	4.40	4.80	6.00
				LPM	6.06	7.19	9.08	9.46	14.01	16.66	18.17	22.71
	HL5030SS	30	0.313"	GPM	1.90	2.20	2.50	3.00	4.20	5.00	5.60	7.00
				LPM	7.19	8.33	9.46	11.36	15.90	18.93	21.20	26.50
	HL5040SS	40	0.344"	GPM	2.40	2.80	3.20	3.90	5.20	6.20	6.80	8.20
				LPM	9.08	10.60	12.11	14.76	19.68	23.47	25.74	31.04
	HL5050SS	50	0.344"	GPM	3.20	3.80	4.60	5.00	6.80	7.90	9.00	12.50
				LPM	12.11	14.38	17.41	18.93	25.74	29.90	34.07	47.32
	HL5060SS	60	0.344"	GPM	3.60	4.20	5.40	6.00	7.80	9.20	11.50	14.00
				LPM	13.63	15.90	20.44	22.71	29.53	34.83	43.53	53.00

Spray Angle

Inlet Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	
7	0.5	6.9	17.6	10.4	26.4	17.3	44.0	HL5025SS
20	1.4	7.5	19.0	11.2	28.6	18.7	47.6	
60	4.1	8.4	21.3	12.6	32.0	21.0	53.4	
7	0.5	8.4	21.3	12.6	32.0	21.0	53.4	HL5030SS
20	1.4	9.0	23.0	13.6	34.5	22.6	57.4	
60	4.1	10.1	25.6	15.1	38.4	25.2	63.9	
7	0.5	10.8	27.4	16.2	41.2	27.0	68.6	HL5040SS
20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
60	4.1	12.9	32.7	19.3	49.0	32.2	81.7	
7	0.5	13.8	35.1	20.7	52.6	34.5	87.7	HL5050SS
20	1.4	14.3	36.3	21.5	54.5	35.8	90.8	
60	4.1	15.4	39.0	23.0	58.5	38.4	97.5	
7	0.5	14.3	36.3	21.5	54.5	35.8	90.8	HL5060SS
20	1.4	17.1	43.5	25.7	65.3	43.8	111.4	
60	4.1	18.5	46.9	27.7	70.4	46.2	117.3	

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

PowerStream™ Liquid Nozzles – 1/8 NPT



Model: DL8025SS
Material: Type 303 Stainless Steel

Model: DL8030SS
Material: Type 303 Stainless Steel

Model: DL8040SS
Material: Type 303 Stainless Steel

Model: DL8050SS
Material: Type 303 Stainless Steel

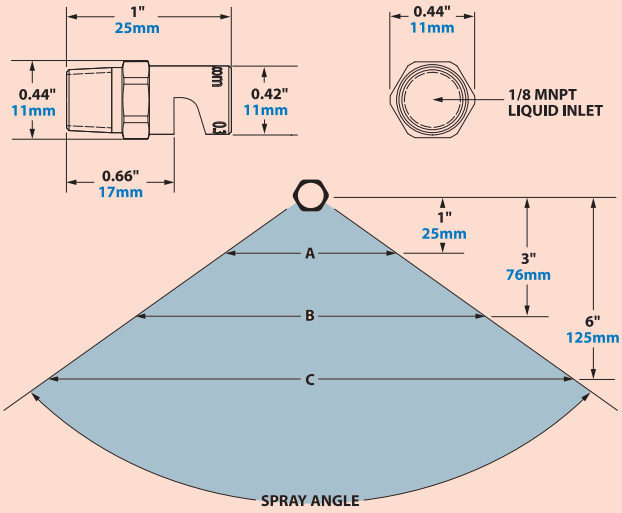
Model: DL8075SS
Material: Type 303 Stainless Steel

Model DL8025SS, DL8030SS, DL8040SS, DL8050SS, DL8075SS

EXAIR's 1/8 NPT PowerStream Liquid Nozzles provide a superior spraying solution for an extensive range of industrial processes and operates at up to 250 PSI liquid pressure. These processes include, but are not limited to, cooling, rinsing, washing, coating, and dust control. Designed to provide a uniform, deflected flat fan spray pattern, this nozzle ensures efficient liquid distribution that is consistent across the full width of spray. Its clog-resistant design makes it a perfect choice for environments dealing with particulates or potentially viscous fluids. Available in stainless steel, the PowerStream nozzle supports a variety of flow rates, allowing for flexible integration into existing systems, or for use in newly designed builds. Whether you need precise spray control or effective dust suppression, the PowerStream nozzle from EXAIR is engineered to meet your requirements with exceptional performance, repeatability and durability.

Dimensions and Spray Pattern

DOWNLOAD draw'ngs at EXAIR.com



Liquid Nozzles

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

For maximum liquid conservation and spray control visit our Air Atomizing Nozzles on page 70.



PowerStream Nozzles provide a superior spraying solution for an extensive range of industrial processes.

PowerStream Nozzles														
Inlet Connection	Model	Capacity	Max Free Passage		Flow Rate GPM/LPM									
					3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI			
1/8 NPT	DL8025SS	2.5	0.055"	GPM	0.15	0.19	0.20	0.24	0.36	0.50	0.64			
				LPM	0.57	0.72	0.76	0.91	1.36	1.89	2.42			
	DL8030SS	3	0.063"	GPM	0.17	0.22	0.25	0.31	0.45	0.67	0.83			
				LPM	0.64	0.83	0.95	1.17	1.70	2.54	3.14			
	DL8040SS	4	0.070"	GPM	0.22	0.27	0.33	0.40	0.59	0.86	1.06			
				LPM	0.83	1.02	1.25	1.51	2.23	3.26	4.01			
	DL8050SS	5	0.079"	GPM	0.27	0.34	0.42	0.50	0.74	1.09	1.32			
				LPM	1.02	1.29	1.59	1.89	2.80	4.13	5.00			
	DL8075SS	7.5	0.094"	GPM	0.38	0.50	0.61	0.75	1.08	1.51	1.84			
				LPM	1.44	1.89	2.31	2.84	4.09	5.72	6.97			

Spray Angle										
Inlet Pressure PSI/BAR		Spray Angle Degrees	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm		
7	0.5	70	1.4	4	4.2	11	8.4	21	DL8025SS	
20	1.4	80	1.7	4	5.0	13	10.1	26		
60	4.1	110	2.9	7	8.6	22	17.1	44		
7	0.5	80	1.7	4	5.0	13	10.1	26	DL8030SS	
20	1.4	100	2.4	6	7.2	18	14.3	36		
60	4.1	105	2.6	7	7.8	20	15.6	40		
7	0.5	90	2.0	5	6.0	15	12.0	30	DL8040SS	
20	1.4	110	2.9	7	8.6	22	17.1	44		
60	4.1	120	3.5	9	10.4	26	20.8	53		
7	0.5	120	3.5	9	10.4	26	20.8	53	DL8050SS	
20	1.4	120	3.5	9	10.4	26	20.8	53		
60	4.1	130	4.3	11	12.9	33	25.7	65		
7	0.5	140	5.5	14	16.5	42	33.0	84	DL8075SS	
20	1.4	140	5.5	14	16.5	42	33.0	84		
60	4.1	150	7.5	19	22.4	57	44.8	114		

BETE® Liquid Atomizing Spray Nozzles

PERFORMANCE SPRAY ENGINEERING



NEW BETE Hydraulic Nozzles

Since 1950, over 30,000,000 BETE nozzles have sprayed in deep sea, deep space, and everywhere in between.

What Makes BETE an Industry Leader in Spray Technology?

A pioneer and innovator in all areas of spray nozzle engineering, manufacturing, and application solutions, BETE improves spray processes worldwide for numerous markets, including food and beverage, petrochemical, chemical, waste management and pollution control. We manufacture tens of thousands of different products, including misting and fogging nozzles, tank cleaning nozzles, chemical injection nozzles, custom spray lances, fabrications and spraying systems. BETE integrates decades of experience in spray design and applications engineering with a CNC machine shop, foundry, and spray lab that enables in-house product design, manufacturing and testing to ensure the highest quality spray technology.

Why is Selecting the Correct Spray Nozzle Important?

Spray nozzles may be relatively small components of large industrial processes, but incorporating the proper nozzles is critical to achieving peak system performance and efficiency. BETE's extensive catalog of hydraulic nozzles includes full cone, hollow cone, fan, misting, fogging, tank cleaning and automatic spray nozzles. These nozzles come in various sizes, connection types, flow rates, spray angles and materials. Whatever your spraying challenge, BETE has an efficient and effective solution to help optimize your process.

BETE Nozzles

Applications

- Cleaning & Washing
- Dust Suppression
- Humidification
- Tank Cleaning
- Cooling
- Gas Conditioning
- Foam Control
- Vacuum Distillation
- Odor Control
- Chemical Injection
- Fire Protection
- Coating & Lubricating
- Moistening
- Flue Gas Desulfurization (FGD)

Advantages

- Expertly Engineered
- Durable Construction
- High Efficiency
- Reliable Performance
- Save Resources
- Innovative Technology
- Optimize Processes
- Ready for Immediate Shipment

All weights and dimensions are approximate. Spray angle performance varies with pressure. Please contact EXAIR for specific data on critical applications.

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

EXAIR BLOG

MicroWhirl ® (MW) Misting & Fogging Nozzles



Series: MicroWhirl MW
Connection: 1/8 Male NPT
Spray Angle: 70°
Material: 316 Stainless Steel

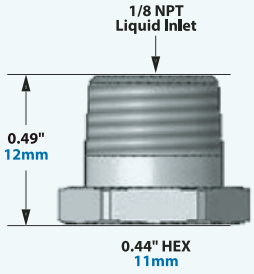
MW Models

BETE MicroWhirl† nozzles offer outstanding fine mist or fog with a rugged, pinless design that ensures drip-free performance. They include a 70-micron polypropylene filter. A 200-mesh 316 Stainless Steel filter option is available as an alternative. A safety wire hole is also available for added security. The nozzle operates with a minimum pressure of 100 PSI (7 BAR) and delivers versatile spray performance, producing mist at lower pressures and fog at higher pressures. Droplets are typically small enough that buoyancy is significant compared to gravity, allowing drops to appear to float. In actuality, particles fall very slowly in the absence of upward airflow.

† Patent #7198201

Dimensions

DOWNLOAD drawings at EXAIR.com



How Swirl Misting Nozzles Work

BETE engineers patented the whirl fine misting nozzle in 2002. Misting and fogging spray nozzles traditionally use either an impingement or air-atomizing design to produce small droplets. Alternatively, whirl misting nozzles convert the fluid's head pressure into kinetic energy within a swirl chamber. The discharged fluid breaks up the droplets from the centrifugal force. MicroWhirl nozzles utilize a vortex to create a fine mist, increasing reliability and performance compared with traditional methods.



BETE Nozzles

Customers trust BETE's MicroWhirl misting nozzles for the finest hydraulic atomization, especially under critical conditions.

Ideal for cooling, humidification and complete evaporation.



MicroWhirl misting nozzles produce outstanding atomization for humidification, air inlet cooling, dust suppression and more.

MicroWhirl Flow Rates and Dimensions

Pattern: Misting/ Fogging **Spray Angle:** 70° **Connection:** 1/8 Male NPT **Material:** 316 SS

Male Inlet Connection	Model	K Factor	Flow Rate (GPM @ PSI) 100 PSI	300 PSI	600 PSI	1000 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	Wt (oz)
1/8 NPT	6094622	0.00085	0.009	0.015	0.021	0.027	0.033	0.038	0.043	0.047	0.25
	6109975	0.00275	0.028	0.048	0.067	0.087	0.107	0.123	0.138	0.151	
	6149734	0.00693	0.069	0.120	0.170	0.219	0.268	0.310	0.347	0.380	

Flow Rate GPM = K $\sqrt{PSI}$

MicroWhirl Flow Rates and Dimensions

Pattern: Misting/ Fogging **Spray Angle:** 70° **Connection:** 1/8 Male NPT **Material:** 316 SS

Male Inlet Connection	Model	K Factor	Flow Rate (L/min @ BAR) 7 BAR	20 BAR	40 BAR	70 BAR	100 BAR	140 BAR	170 BAR	200 BAR	Wt (g)
1/8 NPT	6094622	0.01220	0.032	0.055	0.077	0.102	0.122	0.145	0.160	0.173	7.09
	6109975	0.03960	0.105	0.177	0.251	0.332	0.396	0.469	0.517	0.560	
	6149734	0.09988	0.264	0.447	0.632	0.836	0.999	1.182	1.302	1.413	

Flow Rate L/min = K $\sqrt{BAR}$

Flat Fan Nozzles

NF Standard Fan Nozzles



Series: NF
Connections: 1/8 - 3/8 Male NPT
Spray Angles: 30°, 65°, 80°, 120°
Material: Brass

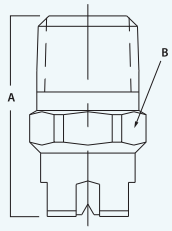
NF Models

The NF fan spray nozzle provides high-impact spray with evenly tapered edges, enabling effective overlapping of sprays for complete coverage. With a durable, one-piece construction and no internal parts, this nozzle is reliable and easy to maintain. Available in various male connection sizes, flow rates, and spray angles, the NF nozzle is the ideal solution for numerous industrial applications including coating, conveyor cleaning, and parts washing. NF flat spray nozzles produce medium to large-sized droplets that form a thin, sheet-like spray pattern.

The flat spray pattern optimizes a wide range of applications including surface cleaning, coating, high-impact washing and foam control.

Dimensions and Spray Pattern

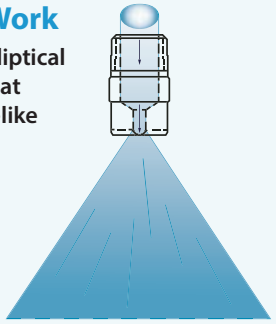
DOWNLOAD drawings at EXAIR.com





How Flat Fan Nozzles Work

As the fluid exits the nozzle's elliptical orifice, it is forced into a thin, flat sheet of fluid, producing a fan-like spray pattern.



NF Flow Rates

Pattern: Fan **Spray Angles:** 30°, 65°, 80° and 120° **Connection:** 1/8-3/8 Male NPT **Material:** Brass

Male Inlet Connection	Spray angle 30°	65°	80°	120°	K Factor	Flow Rates (GPM @ PSI) 5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	Equiv Orifice Dia (in)"
1/8 NPT Model	6011359	6017030	6003573	6013268	0.0791	0.18	0.25	0.31	0.35	0.43	**0.50**	0.61	0.71	0.79	0.057
	6011652	6011842	6006147	6013456	0.158	0.35	0.50	0.61	0.71	0.87	**1.00**	1.22	1.41	1.58	0.080
	6013109	6011261	6007832	6003609	0.316	0.71	1.00	1.22	1.41	1.73	**2.00**	2.45	2.83	3.16	0.109
	6013470	6011672	6008463	6003944	0.474	1.06	1.50	1.84	2.12	2.60	**3.00**	3.67	4.24	4.74	0.141
1/4 NPT Model	6039856	6044390	6020398	6027632	0.0791	0.18	0.25	0.31	0.35	0.43	**0.50**	0.61	0.71	0.79	0.057
	6003572	6005653	6009320	6006482	0.158	0.35	0.50	0.61	0.71	0.87	**1.00**	1.22	1.41	1.58	0.080
	6020542	6003868	6009566	6005313	0.316	0.71	1.00	1.22	1.41	1.73	**2.00**	2.45	2.83	3.16	0.109
	6013112	6008836	6005921	6003113	0.474	1.06	1.50	1.84	2.12	2.60	**3.00**	3.67	4.24	4.74	0.141
	6004735	6010893	6009858	6014763	0.632	1.41	2.00	2.45	2.83	3.46	**4.00**	4.90	5.66	6.32	0.156
	6013265	6014774	6004072	6010699	0.791	1.77	2.50	3.06	3.54	4.33	**5.00**	6.12	7.07	7.91	0.172
3/8 NPT Model	6008562	6007564	6008688	6011539	0.316	0.71	1.00	1.22	1.41	1.73	**2.00**	2.45	2.83	3.16	0.109
	6008312	6008326	6008706	6011280	0.474	1.06	1.50	1.84	2.12	2.60	**3.00**	3.67	4.24	4.74	0.141
	6008702	6002612	6003828	6011675	0.632	1.41	2.00	2.45	2.83	3.46	**4.00**	4.90	5.66	6.32	0.156
	6004093	6010885	6015429	6008709	0.791	1.77	2.50	3.06	3.54	4.33	**5.00**	6.12	7.07	7.91	0.172

Dimensions for Metal Only (in)

Pipe Size	A	B	Wt (oz)Metal
1/8"	0.88	0.44	1.00
1/4"	1.06	0.56	1.50
3/8"	1.25	0.69	2.00

Flow Rate GPM = K $\sqrt{PSI}$

NF Flow Rates

Pattern: Fan **Spray Angles:** 30°, 65°, 80° and 120° **Connection:** 1/8-3/8 Male NPT **Material:** Brass

Male Inlet Connection	Spray angle 30°	65°	80°	120°	K Factor	Flow Rates (L/min @ BAR) 0.5 BAR	0.7 BAR	1 BAR	2 BAR	3 BAR	5 BAR	Equiv Orifice Dia (mm)
1/8 NPT Model	6011359	6017030	6003573	6013268	1.14	0.81	0.95	1.14	1.61	**1.97**	2.55	1.45
	6011652	6011842	6006147	6013456	2.28	1.61	1.91	2.28	3.22	**3.95**	5.10	2.03
	6013109	6011261	6007832	6003609	4.56	3.22	3.81	4.56	6.45	**7.89**	10.2	2.78
	6013470	6011672	6008463	6003944	6.84	4.83	5.72	6.84	9.67	**11.8**	15.3	3.57
1/4 NPT Model	6039856	6044390	6020398	6027632	1.14	0.81	0.95	1.14	1.61	**1.97**	2.55	1.45
	6003572	6005653	6009320	6006482	2.28	1.61	1.91	2.28	3.22	**3.95**	5.10	2.03
	6020542	6003868	6009566	6005313	4.56	3.22	3.81	4.56	6.45	**7.89**	10.2	2.78
	6013112	6008836	6005921	6003113	6.84	4.83	5.72	6.84	9.67	**11.8**	15.3	3.57
	6004735	6010893	6009858	6014763	9.12	6.45	7.63	9.12	12.9	**15.8**	20.4	3.97
	6013265	6014774	6004072	6010699	11.4	8.06	9.53	11.4	16.1	**19.7**	25.5	4.37
3/8 NPT Model	6008562	6007564	6008688	6011539	4.56	**3.22**	**3.81**	**4.56**	**6.45**	**7.89**	**1 0.2**	**2.78**
	6008312	6008326	6008706	6011280	6.84	**4.83**	**5.72**	**6.84**	**9.67**	**11.8**	**15.3**	**3.57**
	6008702	6002612	6003828	6011675	9.12	**6.45**	**7.63**	**9.12**	**12.9**	**15.8**	**20.4**	**3.97**
	6004093	6010885	6015429	6008709	11.4	**8.06**	**9.53**	**11.4**	**16.1**	**19.7**	**25.5**	**4.37**

Dimensions for Metal Only (mm)

Pipe Size	A	B	Wt (g) Metal
1/8"	22.2	11.1	28.4
1/4"	27.0	14.3	42.5
3/8"	31.8	17.5	56.7

Flow Rate L/min = K $\sqrt{BAR}$

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

TF Full Cone Spray Nozzles



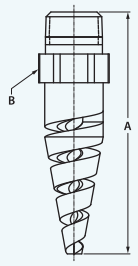
Series: TF
Connections: 1/4 - 1 Male NPT
Spray Angles: 60°, 90°, 120°
Material: Brass

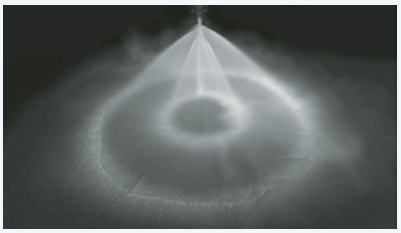
TF Models

BETE is the original inventor of the spiral, also known as a pigtail, corkscrew, or helix nozzle. Its durable, one-piece design with no internal parts delivers clog-resistant performance and high energy efficiency. When compared to whirl-type nozzles of the same flow rate, pressure drop, and angle, TF spirals produce considerably smaller droplet sizes for fine atomization.

Dimensions and Spray Pattern

DOWNLOAD drawings at EXAIR.com





90°, 120°, 60° nozzles are slightly longer. For dimensions, contact EXAIR.

How Full Cone Spirals Work

The spiral nozzle pattern is created by fluid shearing along the spiral's turns, creating multiple concentric hollow cones. This design produces two to three bands of coarser droplets, each surrounded by wider bands of finer droplets, resulting in full coverage.



BETE Nozzles

Numerous industries rely on BETE TF full cone spray nozzles for their gas cooling, quenching or chemical injection applications.

Its durable, one-piece design is clog resistant and requires minimal maintenance.

TF Full Cone Flow Rates and Dimensions

Pattern: Full Cone **Spray Angles:** 60°, 90°, 120° **Connection:** 1/4 - 1 Male NPT **Material:** Brass

Male Inlet Connection	Available Spray Angles			K Factor	Flow Rate (GPM @ PSI)									Approx Orifice Dia (in)	Approx Free Passage Dia (in)	A	B	Wt (oz) Metal
	60°	90°	120°		5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI					
1/4 NPT Model	6015283	6013583	6013407	0.221	0.495	0.70	0.99	1.21	**1.40**	1.57	1.71	1.98	2.21	0.09	0.09	1.88	0.56	1.25
	6009295	6003058	6016084	0.411	0.919	1.30	1.84	2.25	**2.60**	2.91	3.18	3.68	4.11	0.13	0.13			
	6005350	6013392	6010125	0.632	1.41	2.00	2.83	3.46	**4.00**	4.47	4.90	5.66	6.32	0.16	0.13			
3/8 NPT Model	6011546	6012770	6012736	0.949	2.12	3.00	4.24	5.20	**6.00**	6.71	7.35	8.49	9.49	0.19	0.13	1.88	0.69	1.63
	6015134	6010116	6012832	1.28	2.86	4.05	5.73	7.01	**8.10**	9.06	9.92	11.5	12.8	0.22				
	6006217	6012073	6005617	1.68	3.75	5.30	7.50	9.18	**10.6**	11.9	13.0	15.0	16.8	0.25				
	6009079	6011877	6003941	2.61	5.83	8.25	11.7	14.3	**16.5**	18.4	20.2	23.3	26.1	0.31				
1/2 NPT Model	6007586	6013307	6007059	3.81	8.52	12.1	17	20.9	**24.1**	26.9	29.5	34.1	38.1	0.38	0.19	2.5	0.88	3.00
	6002504	6005485	6016180	5.22	11.7	16.5	23.3	28.6	**33.0**	36.9	40.4	46.7	52.2	0.44				
3/4 NPT Model	6003090	6010373	6013110	6.64	14.8	21.0	29.7	36.4	**42.0**	47.0	51.4	59.4	66.4	0.50	0.19	2.75	1.13	5.50
1 NPT Model	6012340	6016360	6016286	10.6	23.7	33.5	47.4	58.0	**67.0**	74.9	82.1	94.8	106	0.63	0.25	3.63	1.38	8.50

Flow Rate GPM = K $\sqrt{PSI}$

TF Full Cone Flow Rates and Dimensions

Pattern: Full Cone **Spray Angles:** 60°, 90°, 120° **Connection:** 1/4 - 1 Male NPT **Material:** Brass

Male Inlet Connection	Available Spray Angles			K Factor	Flow Rate (L/min @ BAR)						Approx Orifice Dia (mm)	Approx Free Passage Dia (mm)	A	B	Wt (g) Metal
	60°	90°	120°		0.5 BAR	0.7 BAR	1 BAR	2 BAR	3 BAR	5 BAR					
1/4 NPT Model	6015283	6013583	6013407	3.19	2.26	2.67	3.19	4.50	**5.50**	7.10	2.38	2.38	47.6	14.3	35.0
	6009295	6003058	6016084	5.93	4.19	4.96	5.93	8.4	**10.3**	13.2	3.18	3.18			
	6005350	6013392	6010125	9.12	6.45	7.63	9.12	12.9	**15.8**	20.4	3.97	3.18			
3/8 NPT Model	6011546	6012770	6012736	13.7	9.67	11.4	13.7	19.3	**23.7**	30.6	4.76	3.18	47.6	17.5	46.0
	6015134	6010116	6012832	18.5	13.1	15.4	18.5	26.1	**32.0**	41.3	5.56				
	6006217	6012073	6005617	24.2	17.1	20.2	24.2	34.2	**41.8**	54.0	6.35				
	6009079	6011877	6003941	37.6	26.6	31.5	37.6	53.2	**65.1**	84.1	7.94				
1/2 NPT Model	6007586	6013307	6007059	54.9	38.8	46.0	54.9	77.7	**95.1**	123	9.53	4.76	63.5	22.2	85.0
	6002504	6005485	6016180	75.2	53.2	62.9	75.2	106	**130**	168	11.1				
3/4 NPT Model	6003090	6010373	6013110	95.7	67.7	80.1	95.7	135	**166**	214	12.7	4.76	69.9	28.6	156
1 NPT Model	6012340	6016360	6016286	153	108	128	153	216	**264**	341	15.9	6.35	92.1	34.9	241

Flow Rate L/min = K $\sqrt{BAR}$

Full Cone Nozzles

MaxiPass® (MP) Maximum Free Passage Nozzles



Series: MaxiPass (MP)
Connections: 3/8 - 3/4 Male NPT
Spray Angles: 60°, 90°, 120°
Materials: 316 Stainless Steel
Polypropylene available for specific models (90°, 120° Only)

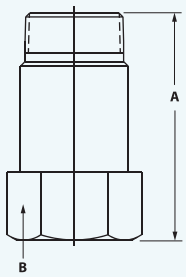
MP Models

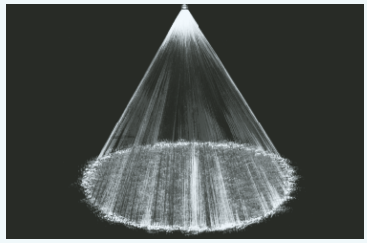
The patented† MaxiPass design features maximum free passage for ultimate clog resistance compared to other whirl-type nozzles. This ensures high energy efficiency and reliable performance, even with dirty or lumpy liquids. Unlike conventional X-vane nozzles, the MP is engineered with two unique S-shaped internal vanes to maximize free passage, making this nozzle highly dependable under even the most challenging conditions. MP nozzles achieve atomization by swirling the water internally through its vanes before exiting through the orifice, producing medium to coarse droplet sizes. Its spray pattern is more uniform than that of spiral nozzles, providing consistent coverage across applications.

† Patent #4014470

Dimensions and Spray Pattern

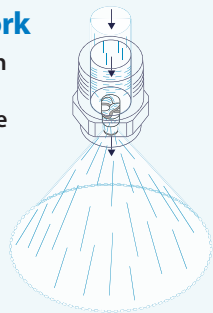
DOWNLOAD drawings at EXAIR.com





How Full Cone Nozzles Work

The full cone axial spray nozzle with internal vanes produces a uniform conical spray pattern with complete coverage. As the liquid passes through the vanes, it is stabilized and evenly distributed before exiting the nozzle's orifice.



The MP is the leading spray solution for process critical applications such as gas scrubbing, cooling, foam control and vacuum distillation.

Alloy MP nozzles are cast in BETE's U.S. foundry, ensuring high-quality, durable construction.

MaxiPass Flow Rates and Dimensions

Pattern: Full Cone **Spray Angles:** 60°, 90°, 120° **Connection:** 3/8, 1/2, 3/4 NPT **Material:** 316 SS, Polypropylene (Specific 90°, 120° Models Only)

Male Inlet Connection	Material	Available Spray Angles			K Factor	Flow Rate (GPM @ PSI)								Approx Free Passage Dia (in)	Approx Dim (in) Overall Length (Max)			B	Wt (lbs) Metal	Wt (lbs) Polypro
		60°	90°	120°		3 PSI	5 PSI	7 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI		A (60°)	A (90°)	A (120°)			
3/8 NPT Model	Polypropylene	--	6182995	6186144	0.416	0.70	0.89	1.04	1.23	1.49	**1.70**	2.06	2.35	0.125	1.50	1.50	1.50	0.88	0.19	.017
	316SS	6003212	6002739	6011935	0.661	1.11	1.41	1.65	1.95	2.36	**2.70**	3.27	3.74	0.156						
1/2 NPT Model	Polypropylene	--	6164563	6185953	0.954	1.60	2.03	2.38	2.82	3.41	**3.90**	4.72	5.40	0.188	1.88	1.88	1.88	1.00	0.28	.023
	316SS	6006652	6014543	6015833	1.71	2.87	3.65	4.27	5.05	6.11	**7.00**	8.47	9.70	0.250					0.25	
3/4 NPT Model	316SS	6009757	6008929	6016672	2.54	4.26	5.42	6.35	7.51	9.08	**10.4**	12.6	14.4	0.312	2.50	2.50	2.50	1.25	0.50	.246
		6014786	6008945	6010643	3.67	6.15	7.82	9.16	10.8	13.1	**15.0**	18.1	20.8	0.375					0.44	

Flow Rate GPM = K (PSI) 0.47

MaxiPass Flow Rates and Dimensions

Pattern: Full Cone **Spray Angles:** 60°, 90°, 120° **Connection:** 3/8, 1/2, 3/4 NPT **Material:** 316 SS, Polypropylene (Specific 90°, 120° Models Only)

Male Inlet Connection	Material	Available Spray Angles			K Factor	Flow Rate (L/min @BAR)							Approx Free Passage Dia (mm)	Approx Dim (mm) Overall Length (Max)			B	Wt (kg) Metal	Wt (kg) Polypro
		60°	90°	120°		0.2 BAR	0.3 BAR	0.5 BAR	0.7 BAR	1 BAR	2 BAR			A (60°)	A (90°)	A (120°)			
3/8 NPT Model	Polypropylene	--	6182995	6186144	5.53	2.6	3.14	3.99	4.68	**5.53**	7.66		3.18	38.1	38.1	38.1	22.2	0.09	.008
	316SS	6003212	6002739	6011935	8.79	4.13	4.99	6.35	7.43	**8.79**	12.2		3.97						
1/2 NPT Model	Polypropylene	--	6164563	6185953	12.7	5.96	7.21	9.17	10.7	**12.7**	17.6		4.76	47.6	47.6	47.6	25.4	0.13	.010
	316SS	6006652	6014543	6015833	22.7	10.7	12.9	16.4	19.2	**22.7**	31.4		6.35					0.11	
3/4 NPT Model	316SS	6009757	6008929	6016672	33.8	15.9	19.2	24.4	28.6	**33.8**	46.8		7.94	63.5	60.3	63.5	31.8	0.23	.112
		6014786	6008945	6010643	48.8	22.9	27.7	35.2	41.3	**48.8**	67.6		9.53					0.20	

Flow Rate L/min = K (BAR) 0.47

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

WL Full Cone Nozzle



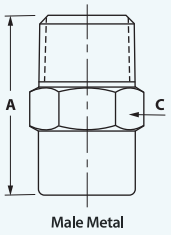
Series: WL
Connections: 1/8 - 3/8 Male NPT
Spray Angles: 60° (3/8 NPT only), 90°, 120°
Material: Brass

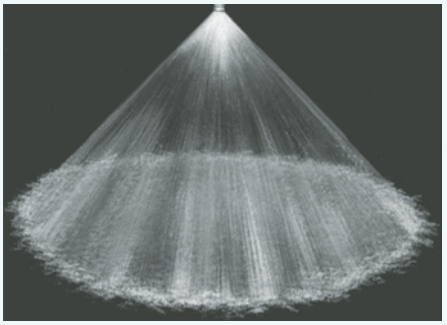
WL Models

BETE's WL spray nozzle uses a whirl plate design to ensure uniform coverage at a low flow rate. Atomization occurs as water is spun within the nozzle before exiting through the orifice, producing medium to coarse droplets. This design produces a more uniform spray pattern compared to spiral nozzles, making it ideal for applications that demand consistent and precise coverage. These applications include washing, cooling, distribution and foam control.

Dimensions and Spray Pattern

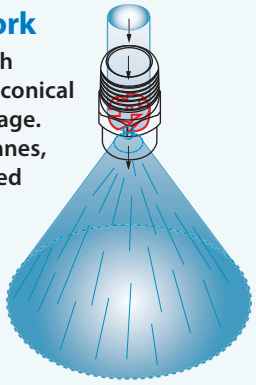
DOWNLOAD drawings at EXAIR.com





How Full Cone Nozzles Work

The full cone axial spray nozzle with internal vanes produces a uniform conical spray pattern with complete coverage. As the liquid passes through the vanes, it is stabilized and evenly distributed before exiting the nozzle's orifice.



BETE Nozzles

Great for lower flow applications requiring medium to coarse spray atomization and uniform coverage.

For higher flow rates, please see the MaxiPass® full cone nozzle on page 110.

WL Flow Rates and Dimensions

Pattern: Full Cone **Spray Angles:** 60°, 90°, 120° **Connection:** 1/8- 3/8 Male NPT **Material:** Brass

Male Inlet Connection	Available Spray Angles 60°	90°	120°	K Factor	Flow Rate (GPM @ PSI) 10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI
1/8 NPT Model	--	6006349	6002104	0.044	0.13	0.18	0.22	**0.25**	0.30	0.35	0.38
	--	6004759	6005880	0.088	0.26	0.36	0.44	**0.50**	0.60	0.69	0.77
	--	6014113	6006821	0.132	0.39	0.54	0.66	**0.75**	0.91	1.04	1.15
1/4 NPT Model	--	6000279	6009470	0.177	0.52	0.72	0.87	**1.00**	1.21	1.39	1.54
	--	6000516	6004357	0.265	0.78	1.08	1.31	**1.50**	1.81	2.08	2.31
3/8 NPT Model	--	6016721	6014032	0.353	1.04	1.44	1.75	**2.00**	2.42	2.77	3.08
	6019124	6012173	6008750	0.530	1.56	2.17	2.62	**3.00**	3.63	4.16	4.61
	6036152	6011559	6001862	0.706	2.08	2.89	3.49	**4.00**	4.84	5.54	6.15

Flow Rate GPM = K (PSI) 0.47

Dimensions for Metal Only (in)

Approx Orifice Dia (in)	A	C	Wt (oz) Metal
0.043	0.88	0.44	1.00
0.055			
0.072			
0.082	1.06	0.56	1.50
0.109			
0.125	1.25	0.69	2.00
0.156			
0.188			

WL Flow Rates and Dimensions

Pattern: Full Cone **Spray Angles:** 60°, 90°, 120° **Connection:** 1/8- 3/8 Male NPT **Material:** Brass

Male Inlet Connection	Available Angles 60°	90°	120°	K Factor	Flow Rate (L/min @ BAR) 0.7 BAR	1 BAR	2 BAR	3 BAR	5 BAR	10 BAR
1/8 NPT Model	--	6006349	6002104	0.587	0.497	0.587	0.814	**0.984**	1.25	1.73
	--	6004759	6005880	1.17	0.993	1.17	1.63	**1.97**	2.50	3.47
	--	6014113	6006821	1.76	1.49	1.76	2.44	**2.95**	3.75	5.20
1/4 NPT Model	--	6000279	6009470	2.35	1.99	2.35	3.25	**3.94**	5.01	6.93
	--	6000516	6004357	3.52	2.98	3.52	4.88	**5.91**	7.51	10.4
3/8 NPT Model	--	6016721	6014032	4.70	3.97	4.70	6.51	**7.87**	10.0	13.9
	6019124	6012173	6008750	7.05	5.96	7.05	9.76	**11.8**	15.0	20.8
	6036152	6011559	6001862	9.40	7.95	9.40	13.0	**15.7**	20.0	27.7

Flow Rate L/min = K (BAR) 0.47

Dimensions for Metal Only (mm)

Approx Orifice Dia (mm)	A	C	Wt (g) Metal
1.09	22.2	11.1	28.4
1.40			
1.83			
2.08	27.0	14.2	45.5
2.77			
3.18	31.8	17.5	56.7
3.96			
4.78			

Stationary Tank Cleaning Nozzles

HydroClaw® (HC) & TW Spiral Tank Washing Nozzles



Series: HydroClaw (HC)
Material: 316L Stainless Steel



Series: TW
Material: 316 Stainless Steel

HydroClaw nozzles allow passage of particles up to 1/4" in diameter, three times the free passage of comparable spray balls.

The TW series' versatile size range and narrow form ensure compatibility with small vessel openings, including bottles.

HC Models

This FDA-compliant, clog-resistant nozzle is ideal for Clean-In-Place (CIP) systems, handles 1/4" particles, and efficiently cleans tanks at low pressure with high flow. Designed for compact openings, the HC† is offered with threaded or secure clip-on connections. Large orifices create heavy jets that disperse via deflection cups into a uniform 360° spray, ensuring complete coverage.

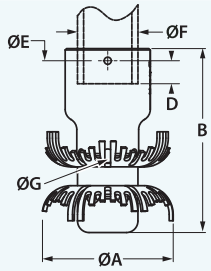
† Patent #10960415

TW Models

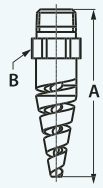
This compact, clog-resistant spiral nozzle is energy-efficient, using less water than conventional designs and fits small openings. Easy to maintain, it sprays in unique opposing directions. Its spray pattern forms as fluid shears along the spiral, creating multiple concentric cones with 2-3 bands of coarser droplets surrounded by wider bands of finer droplets for comprehensive coverage.

Dimensions

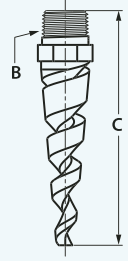
DOWNLOAD drawings at EXAIR.com



HC-42



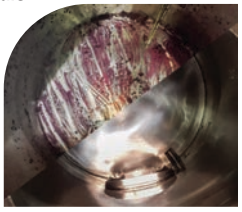
TWA12 (180°)



TWA24 (270°)

How do BETE's Stationary Tank Cleaning Nozzles Compare?

Stationary nozzles, also known as static nozzles, have no moving parts. The innovative low-maintenance geometries of the BETE HydroClaw and spiral TW provide sizable free passage superior to standard static spray balls. Both designs deliver an impressive rinsing action and are ideal for light to moderate soil types.



Before and after cleaning fermentation tanks at a premier winery using BETE's HydroClaw.



HydroClaw (HC) Flow Rates and Dimensions

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel

Connection Type	Model	Spray Angle	Flow Rate (GPM @ PSI)				Dimensions (in)						Wt (oz)	Coverage Dia (ft) @ 30 PSI
			25 PSI	30 PSI	35 PSI	40 PSI	A	B	D	E	F	Free Pass G		
3/4 FNPT	6193685	360°	33.4	**36.6**	39.5	42.0	2.38	3.59				**0.25**	15	8
1 Tube Clip-On	6193688		35.7	**38.9**	42.0	44.8		3.59	0.75	0.16	1.00	**0.25**	14	
1 1/2 Tube Clip-On	6195965		35.7	**38.9**	42.0	44.8		4.00	0.75	0.16	1.50	**0.25**	18	

HydroClaw (HC) Flow Rates and Dimensions

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel

Connection Type	Model	Spray Angle	Flow Rate (L/min @ BAR)				Dimensions (mm)						Wt (g)	Coverage Dia (m) @ 2 BAR
			1.5 BAR	2 BAR	2.5 BAR	3 BAR	A	B	D	E	F	Free Pass G		
3/4 FNPT	6193685	360°	119	**136**	152	166	60.5	91.2				**6.4**	416	2.4
1 Tube Clip-On	6193688		125	**145**	161	176		91.2	19.1	4.1	25.4		391	
1 1/2 Tube Clip-On	6195965		125	**145**	161	176		102	19.1	4.1	38.1		504	

Clip-on flow rates may vary depending on actual O.D. of installation tube or pipe.

Tank Washing (TW) Flow Rates and Dimensions

Pattern: Tank Washing **Spray Angle:** See below **Material:** 316 Stainless Steel

Male Inlet Connection	Model	Spray Angle	K Factor	Flow Rate (GPM @ PSI)										Approx Orifice Dia (in)	Approx Free Passage Dia (in)	Dimensions (in)			Wt (oz)	Scrubbing Dia (ft) @ 30-40 PSI	Rinsing Dia (ft) @ 30-40 PSI
				10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI	200 PSI	400 PSI			A	B	C			
3/8 NPT Model	6096905	180°	0.949	3.00	4.24	5.20	**6.00**	6.71	7.35	8.49	9.49	13.4	19.0	0.19	0.13	2.88	0.75		1.75	1.3	2.5
1/2 NPT Model	6154176	270°	3.81	12.1	17.0	20.9	**24.1**	26.9	29.5	34.1	38.1	53.9	76.2	0.41	0.17		0.88	4.25	6.4	4.0	9.0

Flow Rate L/GPM = K $\sqrt{PSI}$

Tank Washing (TW) Flow Rates and Dimensions

Pattern: Tank Washing **Spray Angle:** See below **Material:** 316 Stainless Steel

Male Inlet Connection	Model	Spray Angle	K Factor	Flow Rate (L/min @ BAR)						Approx Orifice Dia (mm)	Approx Free Passage Dia (mm)	Dimensions (mm)			Wt (g)	Scrubbing Dia (mm) @ 2-3 BAR	Rinsing Dia (mm) @ 2-3 BAR
				0.7 BAR	1 BAR	2 BAR	3 BAR	4 BAR	5 BAR			A	B	C			
3/8 NPT Model	6096905	180°	13.7	11.4	13.7	19.3	**23.7**	27.3	30.6	4.83	3.30	73.0	17.5		49.6	380	760
1/2 NPT Model	6154176	270°	54.9	46.0	54.9	77.7	**95.1**	110	123	10.4	4.32		22.2	108	181	1200	2700

Flow Rate L/Min = K $\sqrt{BAR}$

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

HydroWhirl® Stinger (HWS2) & HydroWhirl® Mini (HWM)



Series: HydroWhirl Stinger (HWS)
Materials: 316L Stainless Steel, Ceramic Bearings



Series: HydroWhirl Mini (HWM)
Materials: 316L Stainless Steel, PEEK Slide-Bearing

HWS Models

This compact, rotating tank cleaning nozzle is made from FDA-compliant 316L Stainless Steel and has a 32 Ra surface finish, making it ideal for many sanitary applications. The HWS2's patent-pending, no-weld design features Zirconia ceramic bearings for extended service life and extreme chemical resistance. Suitable for small to medium-sized tanks, it produces vigorous spray action with complete 360° spray coverage.

HWM Models

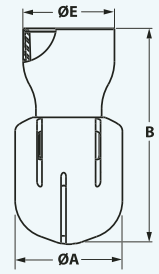
A fluid-driven, self-flushing compact rotary tank cleaning nozzle made from FDA-compliant 316L Stainless Steel with PEEK slide bearings for greater longevity and minimal maintenance. Suitable for small tanks up to 6.5 ft (2 m) in diameter, this compact nozzle creates vigorous spray action with complete 360° spray coverage.

BETE's rotating tank washing nozzles deliver up to 40% water savings compared to traditional static spray balls.

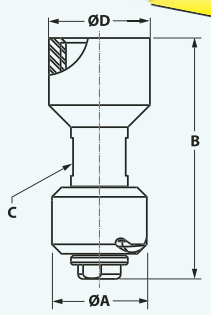
Rotational tank cleaning devices offer precise and reliable cleaning to prevent batch contamination.

Dimensions

DOWNLOAD drawings at EXAIR.com



HWS52



HWM

What are the Benefits of Reactionary Force Tank Cleaning Nozzles?

Rotating tank cleaning nozzles generate rotation using the force of the cleaning fluid. They provide more mechanical force than traditional static spray balls, resulting in faster, more effective cleaning. This leads to significant resource savings and increased production.



BETE Nozzles

HydroWhirl® Stinger (HWS) Flow Rates and Coverage

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel Body, Ceramic Bearings

Female Inlet Connection	Model	Spray Angle	Flow Rate (GPM) @ Differential Pressure (PSI) 10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	Max Free Passage (in)	Coverage Dia @ 40 PSI (ft)
1/8 FNPT Model	6212052	360°	1.09	1.51	1.83	**2.10**	2.33	2.54	0.025	2
	6212051		2.05	2.86	3.48	**4.00**	4.46	4.87	0.039	7
3/8 FNPT Model	6211903		4.94	7.03	8.64	**10.0**	11.2	12.3	0.024	8
	6211905		8.59	12.1	14.8	**17.0**	19.0	20.8	0.079	10
1/2 FNPT Model	6211907		10.2	14.3	17.4	**20.0**	22.3	24.3	0.039	10
	6211902		12.9	18.3	22.5	**26.0**	29.1	31.9	0.064	

Dimensions for Metal Only (in)

Pipe Size	A	B	E	Wt (oz)	Min Tank Entry Dia
1/8 FNPT	0.60	1.25	0.50	1.00	0.60
3/8 FNPT	0.85	1.81	0.75	1.41	0.85
1/2 FNPT	1.35	2.38	0.95	4.73	1.35

HydroWhirl® Stinger (HWS) Flow Rates and Coverage

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel Body, Ceramic Bearings

Female Inlet Connection	Model	Spray Angle	Flow Rate (L/min) @ Differential Pressure (BAR) 0.7 BAR	1 BAR	2 BAR	3 BAR	4 BAR	Max Free Passage (mm)	Coverage Dia @ 2 BAR (m)
1/8 FNPT Model	6212052	360°	4.15	4.92	6.83	**8.27**	9.48	0.64	0.6
	6212051		7.80	9.27	13.0	**15.8**	18.1	0.99	2
3/8 FNPT Model	6211903		18.8	22.6	32.1	**39.5**	45.7	0.61	2
	6211905		32.8	39.1	54.9	**67.1**	77.3	2.00	3
1/2 FNPT Model	6211907		39.0	46.3	64.8	**78.9**	90.6	0.99	3
	6211902		49.0	58.8	83.6	**103**	119	1.63	

Flow Rate L/min = K $\sqrt{BAR}$

Dimensions for Metal Only (mm)

Pipe Size	A	B	E	Wt (g)	Min Tank Entry Dia
1/8 FNPT	15.2	31.7	12.8	28.3	15.2
3/8 FNPT	21.6	45.2	19.1	40.0	21.6
1/2 FNPT	34.3	60.3	24.1	134	34.3

HydroWhirl® Mini (HWM) Flow Rates and Coverage

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel Body, PEEK Slide-Bearings

Female Inlet Connection	Model	Spray Angle	Flow Rate (GPM) @ Differential Pressure (PSI) 10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	Max Free Passage (in)	Coverage Dia @ 40 PSI (in)
3/8 FNPT Model	6208384	360°	3.64	5.22	6.45	**7.50**	8.43	9.27	0.06	6

Dimensions for Metal Only (in)

Pipe Size	A	B	C	D	Wt (oz)
3/8 FNPT	0.81	2.00	0.44	0.70	2.60

HydroWhirl® Mini (HWM) Flow Rates and Coverage

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel Body, PEEK Slide-Bearings

Female Inlet Connection	Model	Spray Angle	Flow Rate (L/min) @ Differential Pressure (BAR) 0.7 BAR	1 BAR	2 BAR	3 BAR	4 BAR	Max Free Passage (mm)	Coverage Dia @ 3 BAR (m)
3/8 FNPT Model	6208384	360°	13.9	16.7	24.0	**29.7**	34.5	1.52	2

Dimensions for Metal Only (mm)

Pipe Size	A	B	C	D	Wt (g)
3/8 FNPT	20.3	50.8	12.7	17.8	73.7

Flow Rate L/min = K $\sqrt{BAR}$

Rotating Tank Cleaning Nozzles

HydroWhirl® Poseidon (HWP) & HydroWhirl® Disc (HWD)



Series: HydroWhirl Poseidon (HWP)
Material: PTFE, 316L Stainless Steel Retaining Clip



Series: HydroWhirl Disc (HWD)
Materials: 316L Stainless Steel, PTFE Slide Bearing

HWP Models

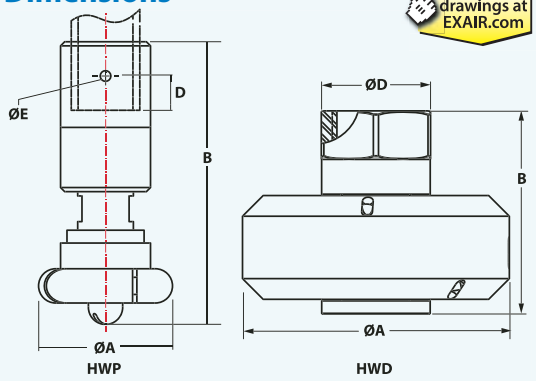
Manufactured from FDA-compliant, corrosion-resistant PTFE, the HWP rotating spray nozzle is highly versatile, making it ideal for Clean-In-Place (CIP) applications in the food and beverage industry and for use in harsh chemical processing environments. Its slow-spinning design delivers longer spray dwell times on target surfaces, resulting in greater cleaning impact.

HWD Models

BETE's HWD spray nozzle is a powerful, fully submersible rotating tank cleaner designed for cleaning small to medium-sized tanks. This rotary head is fluid-driven and self-flushing for minimal maintenance. Its 360° spray pattern produces high-impact washing with consistent repetition to clean the tank effectively and efficiently.

Dimensions

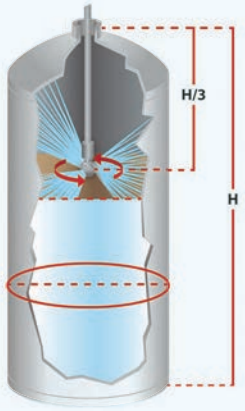
DOWNLOAD drawings at EXAIR.com



Guideline for nozzle placement:

(H/3) Nozzle = 1/3 Overall Tank Height (H).

Ideal nozzle placement is approximately 1/3 the height from the top of the tank.



The HWP stands out as one of the only rotary tank cleaners on the market constructed of 100% PTFE. PTFE is extremely corrosion-resistant and has one of the lowest friction coefficients of any material.

The unique HWD can be completely submerged in the tank and effectively cleans small to medium-sized tanks.

HydroWhirl Poseidon (HWP) Flow Rates and Dimensions

Pattern: Tank Washing **Spray Angle:** 360° **Material:** PTFE Nozzle, 316L Stainless Steel Retaining Clip

Connection Type	Model	Spray Angle	Flow Rate (GPM @ PSI)						Dimensions (in)				Wt (oz)	Coverage Dia (ft) @ 40 PSI
			10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	A	B	D MAX	E		
1/2 FNPT	6174366	360°	4.45	6.31	7.75	**8.96**	10.0	11.0	1.68	3.94	0.50	0.09	3	9
1 Tube Clip-On	6182138		10.7	15.2	18.6	**21.5**	24.0	26.3	1.95	4.12	0.50	0.16	4	14

HydroWhirl Poseidon (HWP) Flow Rates and Dimensions

Pattern: Tank Washing **Spray Angle:** 360° **Material:** PTFE Nozzle, 316L Stainless Steel Retaining Clip

Connection Type	Model	Spray Angle	Flow Rate (L/min @ BAR)						Dimensions (mm)				Wt (g)	Coverage Dia (m) @ 2.8 BAR
			0.5 BAR	1 BAR	1.5 BAR	2 BAR	3 BAR	4 BAR	A	B	D MAX	E		
1/2 FNPT	6174366	360°	14.3	20.3	24.9	28.8	**35.4**	40.9	42.7	100.1	12.7	2.4	85.0	2.7
1 Tube Clip-On	6182138		34.6	49.0	60.0	69.3	**84.9**	98.0	49.5	104.6	12.7	4.1	113	4.3

NOTE: Flow rates represent threaded connections with a 360° spray angle. Flow rates may vary slightly for clip-on connections.

HydroWhirl® Disk (HWD) Flow Rates and Coverage

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel Body, PEEK Slide-Bearing

Female Inlet Connection	Model	Spray Angle	Flow Rate (GPM) @ Differential Pressure (PSI)						Max Free Passage (in)	Coverage Dia @ 40 PSI (ft)
			10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI		
1 FNPT	6211162	360°	25.3	35.5	43.4	**50.0**	55.8	61.1	0.13	11

Dimensions (in)

Pipe Size	A	B	D	Wt (oz)
1 FNPT	3.88	2.94	1.56	41

HydroWhirl® Disk (HWD) Flow Rates and Coverage

Pattern: Tank Washing **Spray Angle:** 360° **Material:** 316L Stainless Steel Body, PEEK Slide-Bearing

Female Inlet Connection	Model	Spray Angle	Flow Rate (L/min) @ Differential Pressure (BAR)					Max Free Passage (mm)	Coverage Dia @ 2 BAR (m)
			0.7 BAR	1 BAR	2 BAR	3 BAR	4 BAR		
1 FNPT	6211162	360°	96.3	115	162	**198**	227	3.30	3

Dimensions (mm)

Pipe Size	A	B	D	Wt (g)
1 FNPT	98.4	74.8	40.6	1162

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