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MANUFACTURING INTELLIGENT COMPRESSED AIR PRODUCTS SINCE 1983



COAT



CLEAN



**CAUTION
COOL**



CONVEY



CONSERVE

**32
CATALOG**



NEW Soft Grip Super Air Scraper™ pg. 103

NEW Hazardous Location Cabinet Cooler® Systems..... pg. 199

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GENA Super Ion Air Knife



250 PSIG MAX
1.5 WPM MAX
17 INCH MAX

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

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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), or e-mail at techhelp@exair.com.



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

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

EXAIR's Unconditional Guarantee:

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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.



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, and #9156045, and others may be U.S. Patent Pending.

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EXAIR®

EFFICIENCYLAB®



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

How does the Efficiency Lab work?

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

How can I get a product tested for free?

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

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

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

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

If it is not possible to send us your product, we have a one page Product Efficiency Survey on our website (www.exair.com/labdoc.htm) 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 3 business days.

Okay, so what is the fine print?

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

What about confidentiality?

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

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

Air Atomizing Spray Nozzles

All stainless steel construction for durability and corrosion resistance!

What Are Atomizing Nozzles?

EXAIR's Atomizing Spray Nozzles atomize fluids (most commonly water) in a range of spray patterns for a variety of uses. They combine liquid and compressed air to create a mist of atomized liquid that can be easily adjusted to meet the needs of your application. All models use stainless steel construction for durability and corrosion resistance. Atomizing spray nozzles are available in 1/8 NPT, 1/4 NPT and 1/2 NPT sizes.



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

Internal Mix:

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

External Mix:

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

Siphon Fed:

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

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.

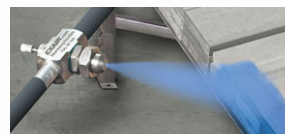
Sound levels for the individual Atomizing Spray Nozzles are not provided. The fluid, pressure, surfaces being treated and surrounding enclosures used in conjunction with the Atomizing Spray Nozzle to form the system will determine the actual sound levels (which can vary greatly). Max temperature is 400°F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

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



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



A Model SR1010SS is used to supply a cooling mist for a drilling operation.



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



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

For more information about droplet size and spray angle, see page 95.

Air Atomizing Nozzles

Internal Mix Narrow Angle Round Pattern - 1/8 NPT

Model AN8010SS, AN8020SS, AN8030SS, AN8040SS and AN8050SS

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

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

Model: AN8010SS

Material: Type 303 Stainless Steel

Model: AN8020SS

Material: Type 303 Stainless Steel

Model: AN8030SS

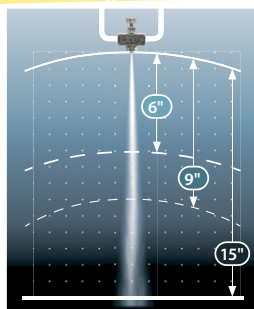
Material: Type 303 Stainless Steel

Model: AN8040SS

Material: Type 303 Stainless Steel

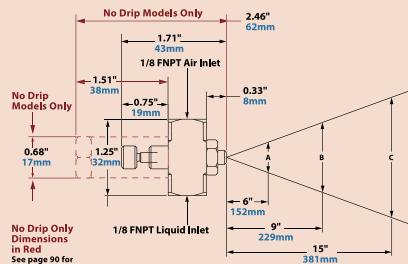
Model: AN8050SS

Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 95.

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	Air Pressure PSI/BAR	GPH/LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/ SLPM	Air Pressure PSI/BAR	Liquid PSI/ PSI/BAR	Width in cm	A	B	C	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	2.38	6.4	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
	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
AN8020SS	—	—	—	—	—	—	26	1.8	0.73	2.8	0.67	19.0	38	2.6	0.8	3.0	0.93	26.3	48	3.1	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
	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
	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	1.14	39.6	20	1.4	20	1.4	2.5	6	3.5	9	4.5	11	7	2.1
AN8030SS	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	6.8	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	3.1	1.87	7.1	1.53	43.3	70	4.8	2.2	8.3	1.22	62.3	70	4.8	60	4.1	3.5	9	4.5	11	6.5	17	10	3.0
	12	0.8	2.20	8.3	0.47	13.3	22	1.5	2.9	1.10	0.75	21.2	30	2.1	3.7	1.40	0.96	27.2	36	2.5	4.47	16.9	1.09	30.9	48	3.3	6.3	2.88	16.2	16.2	12	0.8	10	0.7	2	5	3	8	4.5	11	6	1.8
AN8040SS	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	1.21	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	4.5	11	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
AN8050SS	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	4.54	6.70	19.0	16	1.1	10	0.7	2.5	6	3	8	4	10	3	3.0
	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	30.8	5.98	169	75	5.2	10.8	4.10	7.57	21.4	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
AN8050SS	21	1.3	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	92	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
	12	0.8	7.60	28.8	1.76	49.8	20	1.4	11.60	44.0	23.7	67.1	30	2.1	13.5	51.3	3.42	96.8	38	2.6	15.4	58.2	3.99	113	54	3.7	18.9	7.17	5.17	14.6	12	0.8	10	0.7	3	8	4	10	6	15	9	2.7
	14	1.0	6.10	23.1	1.97	55.8	22	1.5	10.53	39.9	28.5	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	6.51	5.83	16.5	22	1.5	20	1.4	3	8	4	10	6	15	11	3.4
AN8050SS	16	1.1	4.80	18.2	2.18	61.7	24	1.7	9.43	35.7	31.1	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	5.94	6.45	18.3	38	2.6	30	2.1	3	8	4	10	5.5	14	13	4.0
	—	—	—	—	—	—	32	2.2	5.07	19.2	41.9	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 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

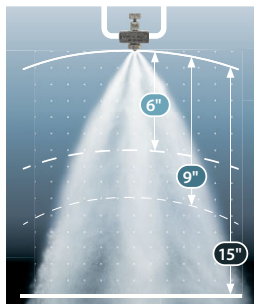


Model: AW8040SS
Material: Type 303 Stainless Steel

Model AW8010SS, AW8020SS, AW8030SS and AW8040SS

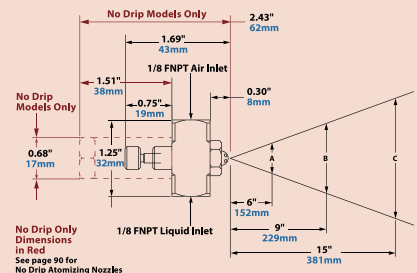
EXAIR's 1/8 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. They can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles 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



For more information about droplet size and spray angle, see page 95.

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																						
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
	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
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	38.1	108	12	0.8	10	0.7	8	20	9.5	24	11	28	6	1.8
	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	40.6	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	45.7	129	36	2.5	30	2.1	8	20	10	25	13	33	10	3.0
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	32.1	90.9	12	0.8	10	0.7	7.5	19	10	25	13.5	34	8	2.3
	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	39.1	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	49.0	139	36	2.5	30	2.1	7.5	19	10	25	13.5	34	10	3.0
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	75	5.2	6.73	25.5	63.8	181	50	3.4	40	2.8	7.5	19	10	25	13.5	34	11	3.4
	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	98.9	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

Air Atomizing Nozzles

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

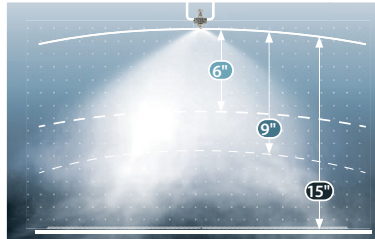


Model: AF8040SS
Material: Type 303 Stainless Steel

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.

Spray Nozzles

Dimensions and Airflow Pattern



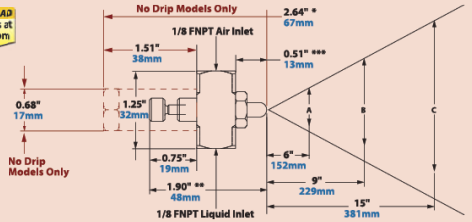
No Drip Dimensions in Red
See page 90 for No Drip Atomizing Nozzles

* Model AF9010SS & AF9020SS 2.48 / 63mm

** Model AF8010SS & AF8020SS 1.74 / 44mm

***Model AF8010SS & AF8020SS 0.36 / 9mm

For more information about droplet size and spray angle, see page 95.



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			Width			Max. Depth feet/m																						
																Air PSI/ BAR	Liquid PSI/BAR	A	B	C	A		B	C																				
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	15.3	43.4	38	26	2.87	10.9	19.5	55.1	55	3.8	3.47	13.1	25.7	72.7	10	0.7	10	0.7	14	36	18	46	25	64	1	0.3		
	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	32	2.57	9.7	2.28	64.7	75	5.2	2.93	11.1	34.2	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	48	2.07	7.8	3.17	89.8	100	6.9	2.37	9.0	4.33	12.3	36	2.5	30	2.1	14	36	22	56	30	76	2	0.6		
AF8020SS	18	1.2	1.53	5.8	1.04	29.5	30	2.1	2.30	8.7	2.39	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		
	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	10.5	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AF8030SS	16	1.1	7.83	29.6	1.42	40.3	28	1.9	10.8	41.0	20.0	56.7	38	2.6	13.0	49.2	25.4	71.8	46	3.2	14.7	55.5	2.94	83.1	65	4.5	17.0	64.4	4.00	11.3	16	1.1	10	0.7	21	53	26	66	32	81	3	0.9		
	18	1.2	7.83	29.6	1.56	44.1	30	2.1	10.7	40.4	21.4	60.4	40	2.8	13.0	49.2	26.7	75.6	50	3.4	14.2	53.6	3.20	90.7	70	4.8	16.7	63.1	4.14	11.7	30	2.1	20	1.4	24	61	30	76	39	99	44	1.2		
	20	1.4	7.50	28.4	1.69	47.9	32	2.2	10.3	39.1	22.4	63.5	42	2.9	12.5	47.3	28.0	79.3	52	3.6	14.2	53.6	3.28	92.9	75	5.2	16.5	62.5	4.54	12.8	42	2.9	30	2.1	29	74	36	91	44	112	4	1.2		
AF8040SS	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	13.5	56	3.9	40	2.8	32	81	39	99	47	119	4	1.2		
	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	10.2	12	0.8	10	0.7	20	51	24	61	31	79	3	0.9		
	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	11.7	26	1.8	20	1.4	25	64	29	74	36	91	4	1.2		
AF8040SS	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	13.6	60	4.1	40	2.8	26	66	31	79	42	107	6	1.8		
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Air Atomizing 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

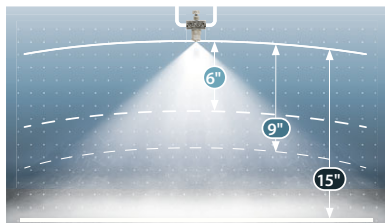


Model: EF8050SS
Material: Type 303 Stainless Steel

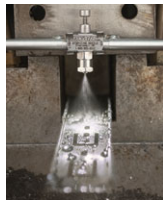
Model EF8010SS, EF8020SS, EF8030SS, EF8040SS and EF8050SS

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 control.

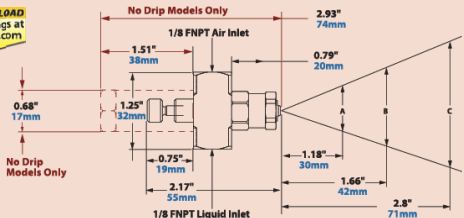


1/8 NPT External Mix Flat Fan atomizing nozzles are very versatile. They can apply a light or heavy film coating to products on a variety of different products.



Model EF8010SS
applies lubricant to a drawer slide.

Dimensions and Airflow Pattern



No Drip Dimensions in Red
See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

10 PSI/0.7 BAR Liquid				20 PSI/1.4 BAR Liquid				30 PSI/2.1 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	Pressure		Width				Max. Depth feet/m											
	Air PSI	BAR			Air PSI	BAR			Air PSI	BAR			Air PSI	BAR			Air PSI	BAR	Air PSI	BAR	A	B		C										
EF8010SS	10	0.7	1.22	4.6	1.20	340	10	0.7	1.20	340	10	0.7	1.20	340	10	0.7	1.20	340	30	10	7	4	10	4	12									
	30	2.1			2.29	648	30	2.1	2.29	648	30	2.1	2.29	648	30	2.1	2.29	648	30	2.1	20	14	4	10	5	13	6	15	6	18				
	50	3.4			3.41	965	50	3.4	3.41	965	50	3.4	3.41	965	50	3.4	3.41	965	50	3.4	40	28	8	20	8	24								
	—	—			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	3.4	40	28	4	10	5	13	8	20	8	24			
EF8020SS	10	0.7	2.00	7.6	1.20	340	10	0.7	1.20	340	10	0.7	1.20	340	10	0.7	1.20	340	30	10	7	4	10	5	13	4	10	4	12					
	30	2.1			2.29	648	30	2.1	2.29	648	30	2.1	2.29	648	30	2.1	2.29	648	30	2.1	20	14	3	8	45	11	4	10	5	13	6	15	6	18
	50	3.4			3.41	965	50	3.4	3.41	965	50	3.4	3.41	965	50	3.4	3.41	965	50	3.4	30	21	30	21	3	8	45	11	7	18	7	21	8	24
	—	—			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	3.4	40	28	3	8	45	11	8	20	8	24			
EF8030SS	10	0.7	4.47	16.9	1.20	340	10	0.7	1.20	340	10	0.7	1.20	340	10	0.7	1.20	340	30	10	7	4	10	5	13	5	13	5	13	5	15			
	30	2.1			2.29	648	30	2.1	2.29	648	30	2.1	2.29	648	30	2.1	2.29	648	30	2.1	20	14	4	10	5	13	8	20	8	24				
	50	3.4			3.41	965	50	3.4	3.41	965	50	3.4	3.41	965	50	3.4	3.41	965	50	3.4	30	21	20	14	4	10	5	13	8	20	8	24		
	—	—			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	3.4	40	28	4	10	5	13	9	23	9	27			
EF8040SS	20	1.4	8.67	32.8	1.95	552	20	1.4	1.95	552	20	1.4	1.95	552	20	1.4	1.95	552	30	2.1	10	7	55	14	7	18	7	18	7	21				
	30	2.1			2.50	708	30	2.1	2.50	708	30	2.1	2.50	708	30	2.1	2.50	708	30	2.1	20	14	55	14	7	18	9	23	9	27				
	40	2.8			3.13	886	40	2.8	3.13	886	40	2.8	3.13	886	40	2.8	3.13	886	40	2.8	30	21	55	14	7	18	10	25	30	30				
	50	3.4			3.68	1042	50	3.4	3.68	1042	50	3.4	3.68	1042	50	3.4	3.68	1042	50	3.4	40	28	55	14	7	18	11	28	31	34				
EF8050SS	30	2.1	12.6	47.7	2.28	645	30	2.1	2.28	645	30	2.1	2.28	645	30	2.1	2.28	645	30	2.1	10	7	7	18	9	23	9	23	9	27				
	40	2.8			2.84	804	40	2.8	2.84	804	40	2.8	2.84	804	40	2.8	2.84	804	40	2.8	20	14	7	18	9	23	10	25	30					
	60	4.1			3.87	1096	60	4.1	3.87	1096	60	4.1	3.87	1096	60	4.1	3.87	1096	60	4.1	40	28	7	18	9	23	12	30	32					
	70	4.8			4.45	1260	70	4.8	4.45	1260	70	4.8	4.45	1260	70	4.8	4.45	1260	70	4.8	40	28	7	18	9	23	12	30	32					

Siphon Fed Round Pattern - 1/8 NPT



Model: SR8010SS

Material: Type 303 Stainless Steel



Model: SR8020SS

Material: Type 303 Stainless Steel



Model: SR8030SS

Material: Type 303 Stainless Steel



Model: SR8040SS

Material: Type 303 Stainless Steel



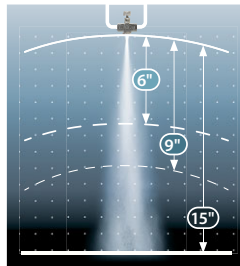
Model: SR8050SS

Material: Type 303 Stainless Steel

Model SR8010SS, SR8020SS, SR8030SS, SR8040SS and SR8050SS

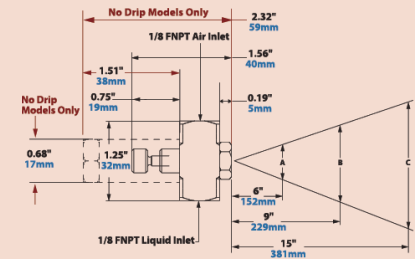
1/8 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed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

Siphon or gravity fed for non-pressurized applications.



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

Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 95.

Spray Nozzles

Liquid Flow in GPH/LPH																			Spray Dimensions at 8" (20cm) Siphon Height											
Model	Air				Gravity Head						Siphon Height									Air		Width						Max. Depth feet/m		
	Pressure PSI/BAR		SCFM/ SLPM		18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	in	cm	in	B	in	C		in	cm
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	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5
	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	—	—	20	1.4	1.5	4	2	5	3	8	1.5	0.5
	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	40	2.8	1.5	4	2	5	3	8	2	0.6
	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	60	4.1	1.5	4	2	5	3	8	3	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	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5
	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	—	—	20	1.4	1.5	4	2	5	3	8	2	0.6
	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	40	2.8	1.5	4	2	5	3	8	3	0.9
	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	60	4.1	1.5	4	2	5	3	8	4	1.2
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	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5
	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	—	—	20	1.4	1.5	4	2	5	3	8	3	0.9
	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	40	2.8	1.5	4	2	5	3	8	4	1.2
	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	60	4.1	1.5	4	2	5	3	8	5	1.5
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	—	—	—	—	—	—	10	0.7	1.5	4	2	5	3	8	3	0.9
	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	—	—	—	—	20	1.4	1.5	4	2	5	3	8	4	1.2
	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	40	2.8	1.5	4	2	5	3	8	4	1.2
	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	60	4.1	1.5	4	2	5	3	8	5	1.5
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	1.5	4	2	5	3	8	5	1.5
	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	1.5	4	2	5	3	8	7	2.1
	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	1.5	4	2	5	3	8	9	2.7
	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	80	5.5	1.5	4	2	5	3	8	10	3.0

Air Atomizing Nozzles

Siphon Fed Flat Fan Pattern - 1/8 NPT



Model: SF8010SS

Material: Type 303 Stainless Steel



Model: SF8020SS

Material: Type 303 Stainless Steel



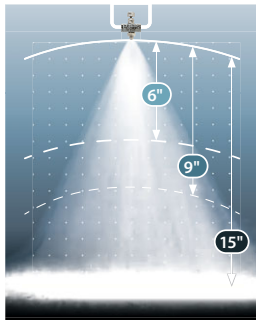
Model: SF8030SS

Material: Type 303 Stainless Steel

Model SF8010SS, SF8020SS and SF8030SS

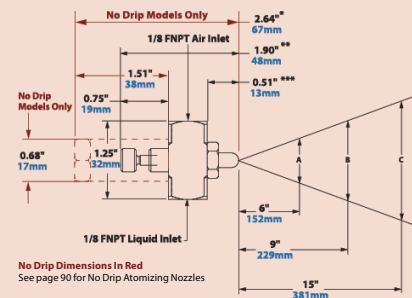
1/8 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed 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



* Model SF8010SS 2.48 / 63mm

** Model SF8010SS 1.74 / 44mm

***Model SF8010SS 0.36 / 9mm

For more information about droplet size and spray angle, see page 95.

Liquid Flow in GPH/LPH																				Spray Dimensions at 8" (20cm) Siphon Height										
Model	Air				Gravity Head						Siphon Height									Air		Width								
	Pressure PSI/BAR		SCFM / SLPM		18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A		B		C		Max. Depth feet/m		
																						in	cm	in	cm	in	cm			
SF8010SS	10	0.7	1.07	30.3	0.32	1.2	0.30	1.1	0.25	1.0	0.24	0.9	0.23	0.9	0.18	0.7	0.17	0.7	0.14	0.5	10	0.7	7	18	9	23	12	30	2	0.6
	20	1.4	1.31	37.1	0.36	1.4	0.35	1.3	0.31	1.2	0.31	1.2	0.30	1.1	0.25	0.9	0.23	0.9	0.19	0.7	20	1.4	7	18	9	23	12	30	2	0.6
	60	4.1	1.69	47.9	0.43	1.6	0.40	1.5	0.35	1.3	0.34	1.3	0.32	1.2	0.27	1.0	0.26	1.0	0.24	0.9	30	2.1	7	18	9	23	12	30	2	0.6
SF8020SS	20	1.4	1.81	51.3	1.52	5.8	1.33	5.0	1.10	4.2	0.80	0.9	0.76	2.9	0.71	2.7	0.50	1.9	0.36	1.4	20	1.4	8	20	9	23	12	30	2	0.6
	30	2.1	2.30	65.1	1.18	4.5	1.16	4.4	1.06	4.0	0.85	3.2	0.79	3.0	0.77	2.9	0.52	2.0	0.44	1.7	30	2.1	9	23	11	28	13	33	2	0.6
	40	2.8	2.83	80.2	1.01	3.8	0.90	3.4	0.83	3.1	0.70	2.6	0.67	2.5	0.63	2.4	0.42	1.6	0.27	1.0	40	2.8	9	23	10	25	13	33	2	0.6
SF8030SS	50	3.4	3.34	94.6	0.85	3.2	0.71	2.7	0.59	2.2	0.48	1.8	0.41	1.6	0.51	1.9	0.32	1.2	—	—	50	3.4	7	18	8	20	9	23	3	0.9
	20	1.4	1.78	50.3	1.45	5.5	1.40	5.3	1.38	5.2	0.94	3.6	0.90	3.4	0.77	2.9	0.72	2.7	0.61	2.3	20	1.4	7	18	8	20	9.5	24	2	0.6
	30	2.1	2.28	63.5	1.16	4.4	1.12	4.2	1.10	4.2	1.00	3.8	0.98	3.7	0.86	3.2	0.81	3.1	0.69	2.6	30	2.1	7	18	8	20	9.5	24	2	0.6
SF8040SS	40	2.8	2.75	77.8	0.98	3.7	0.96	3.6	0.85	3.2	0.90	3.4	0.87	3.3	0.79	3.0	0.66	2.5	0.52	2.0	40	2.8	7	18	8	20	9.5	24	3	0.9
	50	3.4	3.00	85.0	0.83	3.2	0.79	3.0	0.70	2.6	0.75	2.8	0.69	2.6	0.66	2.5	0.51	1.9	0.44	1.7	50	3.4	7	18	8	20	9.5	24	3	0.9

Air Atomizing Nozzles

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

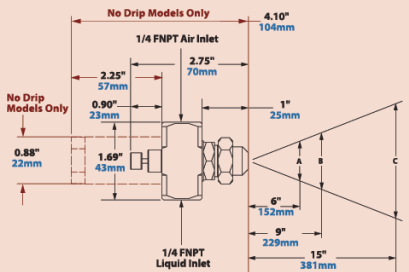
1/4 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, they can apply a heavy coat up close or send a very fine mist over 30 feet away! They are often used for precision application of lubricants 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



No Drip Only
Dimensions
in Red
See page 90 for
No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

Spray 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																	
	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			Max. Depth feet/m											
	Air	Pressure	PSI/BAR	GPH/	LPH	SCFM/	SLPM	Air	Pressure	PSI/BAR	GPH/	LPH	SCFM/	SLPM	Air	Pressure	PSI/BAR	GPH/	LPH	SCFM/	SLPM	Air	Pressure	PSI/BAR	GPH/	LPH	SCFM/	SLPM	Air	Pressure	PSI/BAR	GPH/	LPH	SCFM/	SLPM													
AN1010SS	10	0.7	1.4	5.3	0.6	17	18	12	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	52	3.6	2.8	10.6	1.9	54	12	0.8	10	0.7	2.3	6	3.3	8	5.0	13	6	1.8
	12	0.8	1.2	4.5	0.7	20	22	1.5	1.6	6.1	1.0	28	32	2.2	1.9	7.2	1.3	37	38	2.6	2.3	8.7	1.5	42	52	3.6	2.8	10.6	1.9	54	64	4.4	3.0	11.4	2.5	68	20	1.4	2.8	7	3.8	10	6.0	15	8	2.4		
	14	1.0	1.1	4.2	0.8	23	24	1.7	1.5	5.7	1.1	31	36	2.5	1.6	6.1	1.5	42	44	3.0	1.9	7.2	1.7	48	62	4.3	2.3	8.7	2.4	68	80	5.0	3.0	11.4	2.5	72	24	1.7	2.3	6	3.3	8	5.0	13	6	1.8		
	—	—	—	—	—	—	—	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	6.0	2.0	57	70	4.8	1.9	7.2	2.8	79	98	4.0	6.0	4.1	4.0	10	5.0	13	7.0	18	11	3.4					
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	38	26.2	20	14	2.8	7	4.0	10	6.5	17	12	3.7						
	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	55	38.3	30	2.1	3.0	8	4.5	11	6.5	17	13	4.0						
	24	1.7	1.4	5.3	4.0	113	40	2.8	1.7	6.4	5.7	161	55	3.8	2.1	7.9	7.3	207	75	5.2	1.4	5.3	9.8	277	90	6.2	4.5	17.0	10.1	286	65	4.5	4.0	21.8	3.5	9	5.0	13	7.0	18	14	4.3						
	28	1.9	0.6	2.3	4.6	130	44	3.0	0.8	3.0	6.4	181	60	4.1	1.1	4.2	8.1	229	80	5.5	0.8	3.0	10.2	289	100	6.9	2.4	9.1	11.3	320	85	5.9	6.0	4.1	4.0	10	5.5	14	7.5	19	18	5.5						
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	26	1.8	20	14	3.3	8	5.0	13	7.0	18	16	4.9						
	14	1.0	6.0	22.7	2.2	62	24	1.7	9.8	37.1	3.0	85	38	2.6	9.4	35.6	4.5	127	46	3.2	13.1	49.6	5.1	144	65	4.5	17.1	64.7	6.7	190	40	2.8	30	2.1	3.8	10	5.5	14	7.0	18	19	5.8						
	16	1.1	4.4	16.7	2.6	74	28	1.9	7.0	26.5	3.6	102	42	2.9	7.0	26.5	5.1	144	52	3.6	9.6	36.3	6.0	170	75	5.2	12.3	46.6	8.0	227	50	3.4	4.0	28.0	4.0	10	6.0	15	8.0	20	22	6.7						
	18	1.2	3.3	12.5	2.9	82	32	2.2	4.1	15.5	4.4	125	46	3.2	5.0	18.9	5.9	167	56	3.9	7.3	27.6	6.6	187	85	5.9	7.3	27.6	9.6	272	70	4.8	6.0	4.1	4.0	10	6.0	15	8.0	20	26	7.9						
AN1040SS	14	1.0	6.3	23.8	3.5	99	20	1.4	24.0	90.8	3.0	85	28	1.9	33.0	125	3.4	96	32	2.2	46.5	176	2.8	79	42	2.9	66.0	250	2.7	76	14	1.0	10	0.7	3.0	8	4.5	11	6.5	17	10	5.2						
	16	1.1	3.0	11.4	4.2	119	24	1.7	13.0	49.2	4.2	119	32	2.2	24.0	90.8	4.6	130	40	2.8	30.0	114	5.1	144	50	3.4	54.0	204	4.3	122	34	2.3	30	2.1	4.0	10	6.5	17	10	6.5	19	21	6.4					
	—	—	—	—	—	—	—	26	1.8	9.0	34.1	4.9	139	36	2.5	12.5	47.3	5.9	167	46	3.2	16.5	62.5	6.8	193	58	4.0	39.0	148	6.6	187	44	3.0	4.0	28	4.5	11	7.0	18	8.5	22	30	9.1					
	—	—	—	—	—	—	—	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	64	4.4	6.0	4.1	5.0	13	7.0	18	9.0	23	35	10.7					

Air Atomizing Nozzles

Internal Mix Wide Angle Round Pattern - 1/4 NPT



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

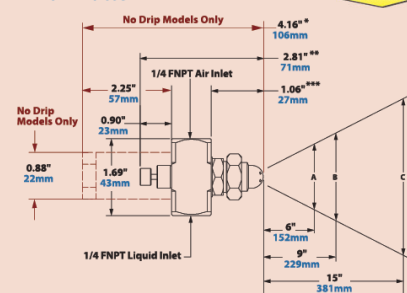
EXAIR's 1/4 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. They can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles 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



No Drip Only
Dimensions
in Red
See page 90 for
No Drip Atomizing Nozzles

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

For more information about droplet size and spray angle, see page 95.

	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																
	Air PSI/ BAR	Liquid PSI/BAR	A in cm	B in cm	C in cm	feet/m															Air PSI/ BAR	Liquid PSI/BAR	A in cm	B in cm	C in cm	feet/m																	
AW1010SS	8	0.6	1.8	6.8	0.3	8	14	10	2.4	9.1	0.4	11	22	1.5	2.7	10.2	0.5	14	30	2.1	3.0	11.4	0.7	20	44	3.0	3.5	13.2	0.9	25	20	14	20	10	0.7	18	9	23	14	36	5	1.5	
	10	0.7	1.6	6.1	0.4	11	18	12	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	31	34	23	30	12	10	25	18	46	6	1.8		
	12	0.8	1.5	5.7	0.4	11	22	15	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	37	42	29	40	2.8	10	25	12	30	16	41	9	2.7
	14	1.0	1.3	4.9	0.5	14	26	18	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	42	46	31	40	3.0	11	25	12	30	16	41	12	3.7
AW1020SS	12	0.8	2.8	10.6	1.7	48	22	15	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	99	108	10	0.7	10	25	12	33	17	43	9	2.7	
	14	1.0	1.6	6.1	2.0	57	24	17	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	116	124	17	20	1.4	11	28	13	33	18	46	11	3.4
	16	1.2	1.4	5.3	2.3	65	26	18	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	147	155	19	10	0.7	10	25	12	30	16	41	12	3.7
	18	1.4	1.2	4.5	2.5	71	28	20	2.2	8.9	3.2	100	42	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	201	210	20	10	0.7	10	25	12	33	17	43	9	2.7
AW1030SS	10	0.7	6.8	25.7	1.1	31	20	14	5.8	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	56.6	2.9	82	82	88	10	0.7	10	25	12	33	18	46	9	2.7	
	12	0.8	4.5	17.0	1.4	40	22	1.5	6.0	22.7	1.9	54	34	2.3	5.8	22.0	2.8	79	44	3.0	7.0	26.5	3.4	96	60	5.5	0.8	3.0	7.7	218	218	226	10	0.7	10	25	12	33	18	46	11	3.4	
	14	1.0	2.2	8.3	1.9	54	24	1.7	4.5	17.0	2.3	65	38	2.6	2.4	9.1	3.8	108	48	3.3	3.7	14.0	4.2	119	70	4.8	5.0	18.9	5.6	159	159	167	10	0.7	10	25	12	33	18	46	13	4.0	
	16	1.2	2.0	7.6	2.2	62	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	218	226	10	0.7	10	25	12	33	18	46	13	4.0	
AW1040SS	24	1.7	6.0	22.7	5.4	153	38	2.6	9.3	35.2	7.7	218	48	3.3	15.5	58.7	8.4	238	60	4.1	19.3	73.1	10.3	292	85	5.9	24.0	91.0	13.8	391	391	409	10	0.7	10	25	12	33	18	46	11	3.4	
	28	1.9	4.0	15.1	6.1	173	44	3.0	5.5	20.8	9.1	258	56	3.9	9.0	34.1	10.6	300	70	4.8	12.0	45.4	12.8	362	90	6.2	21.3	80.6	15.2	430	430	448	10	0.7	10	25	12	33	18	46	11	3.4	
	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	467	485	10	0.7	10	25	12	33	18	46	11	3.4	
	32	2.2	2.0	7.6	7.3	207	52	3.6	1.9	7.2	10.8	306	70	4.8	2.8	10.6	13.4	379	90	6.2	2.8	10.6	17.2	487	100	6.9	15.8	59.8	17.3	490	490	508	10	0.7	10	25	12	33	18	46	11	3.4	

Air Atomizing Nozzles

Internal Mix Flat Fan Pattern - 1/4 NPT



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.



Model: AF1010SS
Material: Type 303 Stainless Steel



Model: AF1020SS
Material: Type 303 Stainless Steel



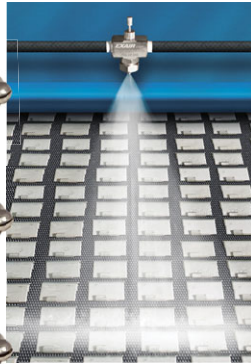
Model: AF1030SS
Material: Type 303 Stainless Steel



Model: AF1040SS
Material: Type 303 Stainless Steel

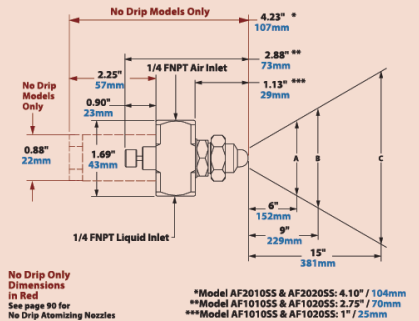


Model: AF1050SS
Material: Type 303 Stainless Steel



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



For more information about droplet size and spray angle, see page 95.

Spray Nozzles

		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/ PSI/BAR	Liquid PSI/BAR	A	B	C																						
AF1010SS	10	0.7	1.6	6.1	0.7	20	18	1.2	2.1	7.9	1.0	28	28	1.9	2.4	9.1	1.4	40	38	2.6	2.6	9.8	1.7	48	55	3.8	3.2	12.1	2.2	62	16	11	10	0.7	9	23	12	30	15	38	5	1.5
	14	1.0	1.4	5.3	0.9	25	26	1.8	1.7	6.4	1.3	37	40	2.8	1.8	6.8	1.8	51	50	3.4	2.0	7.6	2.1	59	75	5.2	2.3	8.7	3.0	85	30	21	20	1.4	11	28	13	33	17	43	6	1.8
	18	1.2	1.1	4.2	1.1	31	34	2.3	1.2	4.5	1.7	48	48	3.3	1.4	5.3	2.1	59	60	4.1	1.6	6.1	2.5	71	90	6.2	1.6	6.1	3.6	102	50	34	40	2.8	14	36	16	41	22	56	7	2.1
	22	1.5	0.8	3.0	1.3	37	40	2.8	0.8	3.0	1.9	54	55	3.8	1.0	3.8	2.4	68	70	4.8	1.2	4.5	3.0	85	100	6.9	1.3	4.9	4.1	116	85	59	60	4.1	14	36	17	43	23	58	7	2.1
AF1020SS	12	0.8	2.4	9.1	0.7	20	20	1.4	3.4	12.9	0.9	25	30	2.1	3.9	14.8	1.2	34	38	2.6	4.6	17.4	1.4	40	65	4.5	4.7	17.8	2.2	62	16	13	10	0.7	9	23	12	30	15	38	5	1.5
	16	1.1	1.8	6.8	0.9	25	28	1.9	2.4	9.1	1.2	34	38	2.6	2.9	11.0	1.5	42	50	3.4	3.2	12.1	1.9	54	75	5.2	3.7	14.0	2.6	74	42	29	30	2.1	14	36	17	43	21	53	6	1.8
	18	1.2	1.5	5.7	1.0	28	32	2.2	1.8	6.8	1.5	42	46	3.2	2.0	7.6	1.9	54	60	4.1	2.2	8.3	2.3	65	85	5.9	2.8	10.6	3.0	85	50	34	40	2.8	16	41	19	48	26	66	7	2.1
	20	1.4	1.3	4.9	1.1	31	36	2.5	1.4	5.3	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102	80	53	60	4.1	16	41	21	53	29	74	8	2.4
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	14	10	0.7	11	28	14	36	19	48	10	3.0
	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	5.8	10.0	37.9	5.7	161	42	29	30	2.1	16	41	21	53	29	74	12	3.7
	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	4.8	30.3	6.4	181	54	37	40	2.8	19	48	25	64	33	84	14	4.3
	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	75	52	60	4.1	20	51	26	66	35	89	15	4.6
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	13	10	0.7	14	36	18	46	24	61	10	3.0
	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	32	22	20	1.4	15	38	19	48	27	69	12	3.7
	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	29.0	4.8	136	90	6.2	8.5	32.2	6.8	193	56	39	40	2.8	20	51	25	64	34	86	15	4.6
	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	85	59	60	4.1	21	53	27	69	36	91	15	4.6
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	14	10	10	0.7	14	36	18	46	24	58	10	3.0
	16	1.1	5.3	20.7	3.7	105	28	1.9	7.8	29.5	4.9	139	36	2.5	10.7	64.3	4.9	139	46	3.2	20.5	77.6	6.1	173	65	4.5	30.0	114	6.8	193	38	26	30	2.1	16	41	20	51	25	64	16	4.9
	18	1.2	5.0	18.9	2.0	57	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	85	5.9	42.0	159	8.7	246	48	33	40	2.8	17	43	20	51	27	69	18	5.5
	22	1.5	3.3	12.5	2.4	68	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	11.3	317	100	6.9	6.0	22.7	11.3	317	70	4.8	6.0	22.7	11.3	317	41	23	53	29	74	19

Air Atomizing Nozzles

Internal Mix Deflected Flat Fan Pattern - 1/4 NPT



Model: AD1010SS

Material: Type 303 Stainless Steel



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

Model AD1010SS

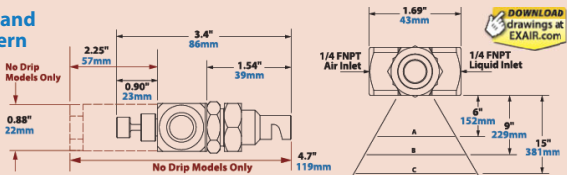
1/4 NPT internal mix deflected flat fan nozzles are designed for applications where space is at a premium. The flat fan pattern sprays at a right angle to the nozzle's orientation, allowing spray to be placed precisely where it's needed in close quarters. These nozzles are ideal for coating the inside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

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

Dimensions and Airflow Pattern

No Drip Dimensions
In Red
See page 90 for No Drip
Atomizing Nozzles

For more information
about droplet size and
spray angle, see page 95.



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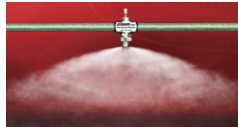
AD1010SS	Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																								
		Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width		Max. Depth in																				
																	Air PSI/BAR	Liquid PSI/BAR	A	B		C																			
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
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	24	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	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



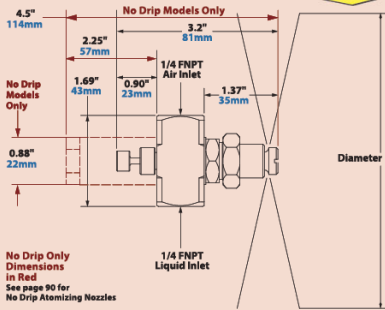
This 360° circular pattern nozzle can be used to coat inside diameters or cover a broad area of over 4' (1219mm).

Model AT1010SS

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

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

Dimensions and Airflow Pattern



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EXAIR.com

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



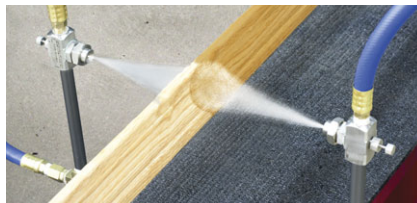
Model: ER1050SS

Material: Type 303 Stainless Steel

Model ER1010SS, ER1020SS, ER1030SS, ER1040SS and ER1050SS

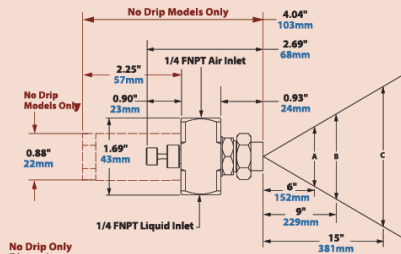
1/4 NPT external mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern. Applications include spot treatments of parts, covering irregularly shaped objects or covering a container of parts with a heavy coat. They are 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



For more information about droplet size and spray angle, see page 95.



Spray Nozzles

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions				
	Air Pressure PSI/BAR			Air Pressure PSI/BAR			Air Pressure PSI/BAR			Air Pressure PSI/BAR			Air Pressure PSI/BAR			Pressure		Width		
	GPH/ LPH	SCFM/ SLPM		GPH/ LPH	SCFM/ SLPM		GPH/ LPH	SCFM/ SLPM		GPH/ LPH	SCFM/ SLPM		GPH/ LPH	SCFM/ SLPM		Air PSI/ BAR	Liquid PSI/ BAR	A	B	C
ER1010SS	5 0.3	0.9 25.5	5 0.3	1.4 5.3	0.9 25.5	10 0.7	1.3 36.8	20 1.4	1.9 53.8	20 1.4	3.0 85.0	20 1.4	5.7 161	90 6.2	5.7 161	10 0.7	3 0.2	30 76	43 109	63 160
	10 0.7	1.8 51.0	10 0.7	2.8 78.6	1.8 51.0	20 1.4	2.6 74.8	40 2.8	4.1 116	60 4.1	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	20 1.4	5 0.3	33 84	45 114	68 173
	20 1.4	3.6 98.1	20 1.4	4.2 116	3.6 98.1	40 2.8	4.1 116	80 5.5	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	40 2.8	10 0.7	35 89	53 135	75 191
	40 2.8	7.2 196.2	40 2.8	8.4 232.4	7.2 196.2	80 5.5	4.1 116	160 10.9	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	80 5.5	20 1.4	40 102	55 140	80 203
	80 5.5	14.4 392.4	80 5.5	16.8 464.8	14.4 392.4	160 10.9	4.1 116	320 21.8	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	160 10.9	40 2.8	80 203	115 291	160 406
ER1020SS	6 0.4	0.9 25.5	10 0.7	3.2 12.1	1.3 36.8	10 0.7	1.3 36.8	20 1.4	1.9 53.8	20 1.4	3.0 85.0	20 1.4	5.7 161	90 6.2	5.7 161	10 0.7	3 0.2	30 76	43 109	63 160
	10 0.7	1.8 51.0	20 1.4	2.8 78.6	1.8 51.0	20 1.4	2.6 74.8	40 2.8	4.1 116	60 4.1	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	20 1.4	5 0.3	33 84	45 114	68 173
	20 1.4	3.6 98.1	40 2.8	4.2 116	3.6 98.1	40 2.8	4.1 116	80 5.5	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	40 2.8	10 0.7	35 89	53 135	75 191
	40 2.8	7.2 196.2	80 5.5	8.4 232.4	7.2 196.2	80 5.5	4.1 116	160 10.9	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	80 5.5	20 1.4	40 102	55 140	80 203
	80 5.5	14.4 392.4	160 10.9	16.8 464.8	14.4 392.4	160 10.9	4.1 116	320 21.8	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	160 10.9	40 2.8	80 203	115 291	160 406
ER1030SS	10 0.7	1.8 51.0	20 1.4	2.8 78.6	1.8 51.0	20 1.4	2.6 74.8	40 2.8	4.1 116	60 4.1	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	10 0.7	3 0.2	30 76	43 109	63 160
	20 1.4	3.6 98.1	40 2.8	4.2 116	3.6 98.1	40 2.8	4.1 116	80 5.5	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	20 1.4	5 0.3	33 84	45 114	68 173
	40 2.8	7.2 196.2	80 5.5	8.4 232.4	7.2 196.2	80 5.5	4.1 116	160 10.9	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	40 2.8	10 0.7	35 89	53 135	75 191
	80 5.5	14.4 392.4	160 10.9	16.8 464.8	14.4 392.4	160 10.9	4.1 116	320 21.8	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	80 5.5	20 1.4	40 102	55 140	80 203
	160 10.9	28.8 784.8	320 21.8	33.6 929.6	28.8 784.8	320 21.8	4.1 116	640 43.6	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	160 10.9	40 2.8	80 203	115 291	160 406
ER1040SS	15 1.0	4.9 139	20 1.4	6.1 17.1	1.8 51.0	20 1.4	2.6 74.8	40 2.8	4.1 116	60 4.1	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	15 1.0	3 0.2	30 76	43 109	63 160
	30 2.1	9.8 278	40 2.8	12.2 34.2	3.6 98.1	40 2.8	4.1 116	80 5.5	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	30 2.1	5 0.3	33 84	45 114	68 173
	40 2.8	12.2 34.2	80 5.5	16.8 46.4	7.2 196.2	80 5.5	4.1 116	160 10.9	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	40 2.8	10 0.7	35 89	53 135	75 191
	80 5.5	24.4 68.4	160 10.9	33.6 92.9	14.4 392.4	160 10.9	4.1 116	320 21.8	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	80 5.5	20 1.4	40 102	55 140	80 203
	160 10.9	48.8 136.8	320 21.8	67.2 185.8	28.8 784.8	320 21.8	4.1 116	640 43.6	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	160 10.9	40 2.8	80 203	115 291	160 406
ER1050SS	20 1.4	3.6 98.1	40 2.8	4.2 116	3.6 98.1	40 2.8	4.1 116	80 5.5	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	20 1.4	5 0.3	33 84	45 114	68 173
	40 2.8	7.2 196.2	80 5.5	8.4 232.4	7.2 196.2	80 5.5	4.1 116	160 10.9	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	40 2.8	10 0.7	35 89	53 135	75 191
	80 5.5	14.4 392.4	160 10.9	16.8 464.8	14.4 392.4	160 10.9	4.1 116	320 21.8	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	80 5.5	20 1.4	40 102	55 140	80 203
	160 10.9	28.8 784.8	320 21.8	33.6 929.6	28.8 784.8	320 21.8	4.1 116	640 43.6	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	160 10.9	40 2.8	80 203	115 291	160 406
	320 21.8	57.6 1569.6	640 43.6	67.2 185.8	57.6 1569.6	640 43.6	4.1 116	1280 87.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	90 6.2	5.7 161	320 21.8	40 2.8	160 406	230 581	320 812

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

Air Atomizing 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

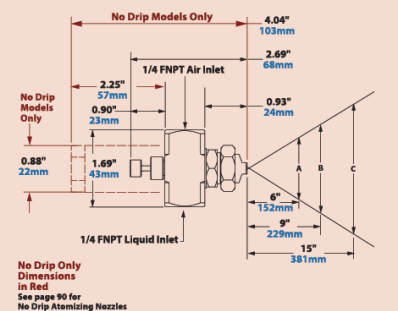
1/4 NPT external mix narrow angle flat fan pattern nozzles are great where a high volume of liquid is needed over a concentrated area. Since they are external mix, airflow and liquid flow can be controlled independently. External mix narrow angle flat fan pattern nozzles are the best choice where thicker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



For more information about droplet size and spray angle, see page 95.

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	Air Pressure PSI/ BAR		GPH/ LPH	Air Pressure PSI/ BAR		GPH/ LPH	Air Pressure PSI/ BAR		GPH/ LPH	Air Pressure PSI/ BAR		GPH/ LPH	Air Pressure PSI/ BAR		GPH/ LPH	Air Pressure PSI/ BAR		GPH/ LPH	Pressure		Width		Max. Depth feet/m								
	SCFM/ SLPM	SCFM/ SLPM		SCFM/ SLPM	SCFM/ SLPM		SCFM/ SLPM	SCFM/ SLPM		SCFM/ SLPM	SCFM/ SLPM		SCFM/ SLPM	SCFM/ SLPM		Air PSI/ BAR	Liquid PSI/ BAR		A in cm	B in cm		C in cm												
EF1010SS	5	0.3		0.8	22.7	10	0.7	1.0	28.3	15	1.0	1.3	36.8	25	1.7	1.8	51.0	45	3.1			5	0.3	3	0.2	4.0	10.2	5.8	14.7	9.5	24.1	6	1.8	
	10	0.7		1.0	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			25	1.7	5	0.3	5.5	14.0	8.0	20.3	10.0	25.4	12	3.7	
	20	1.4	3.8	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			50	3.4	20	1.4	6.3	16.0	9.3	23.6	12.0	30.5	16	4.9	
	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			75	5.2	40	2.8	6.5	16.5	9.5	24.1	13.0	33.0	18	5.5	
EF1020SS	10	0.7		1.0	28.3	15	1.0	1.3	36.8	20	1.4	1.5	42.5	35	2.4	2.2	62.3	50	3.4			10	0.7	3	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7	
	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			25	1.7	5	0.3	5.5	14.0	8.0	20.3	10.0	25.4	12	3.7	
	30	2.1	25	9.5	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			35	2.4	20	1.4	6.5	16.5	9.5	24.1	13.0	33.0	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			75	5.2	40	2.8	6.5	16.5	9.5	24.1	13.0	33.0	18	5.5	
EF1030SS	10	0.7		3.5	99.1	20	1.4	5.3	150	35	2.4	6.1	173	40	2.8	8.4	238	50	3.4			10	0.7	3	0.2	6.0	15.2	9.0	22.9	12.0	30.5	12	3.7	
	20	1.4		5.3	150	30	2.1	6.9	195	35	2.4	6.1	173	50	3.4	10.0	283	60	4.1			20	1.4	5	0.3	6.8	17.3	9.0	22.9	12.0	30.5	20	6.1	
	30	2.1	4.4	16.7	6.9	195	40	2.8	8.4	238	50	3.4	10.0	283	70	4.8	12.7	360	80	5.5			40	2.8	10	0.7	7.0	17.8	10.0	25.4	13.0	33.0	23	6.9
	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			60	4.1	20	1.4	7.0	17.8	11.0	27.9	14.0	35.6	28	8.5	
EF1040SS	15	1.0		4.4	125	25	1.7	6.1	173	35	2.4	7.6	215	45	3.1	9.2	261	55	3.8			15	1.0	3	0.2	6.0	15.2	10.0	25.4	14.0	35.6	13	4.0	
	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			20	1.4	5	0.3	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			30	2.1	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	70	4.8	12.7	360	90	6.2	14.8	419	100	6.9			40	2.8	10	0.7	7.5	19.1	12.0	30.5	15.0	38.1	22	6.7	

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



Model: EB1010SS

Material: Type 303 Stainless Steel



Model: EB1020SS

Material: Type 303 Stainless Steel



Model: EB1030SS

Material: Type 303 Stainless Steel



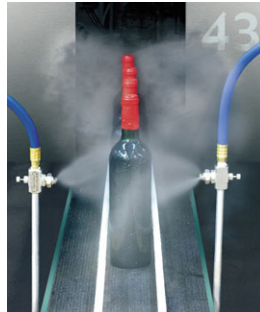
Model: EB1040SS

Material: Type 303 Stainless Steel

Model EB1010SS, EB1020SS, EB1030SS and EB1040SS

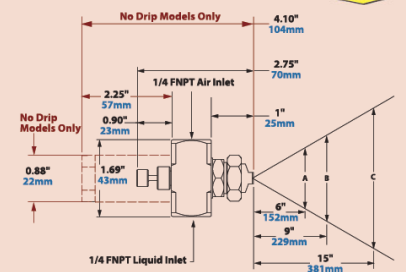
1/4 NPT external mix wide angle flat fan pattern nozzles are great where a high volume of liquid is needed over a wide area such as a conveyor line. Because they are external mix, airflow and liquid flow can be controlled independently. Common applications are those which require a moderate application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

For pressure fed applications with independent air and liquid control.



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

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red
See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

Spray Nozzles

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	Air Pressure PSI/BAR		GPH/ LPH	Air Pressure PSI/BAR		GPH/ LPH	Air Pressure PSI/BAR		GPH/ LPH	Air Pressure PSI/BAR		GPH/ LPH	Air Pressure PSI/BAR		GPH/ LPH	Pressure		Width			Max. Depth feet/m														
	PSI	BAR		PSI	BAR		PSI	BAR		PSI	BAR		PSI	BAR		PSI	BAR		PSI	BAR	PSI	BAR	Air PSI/BAR		Liquid PSI/BAR	A in cm	B in cm	C in cm										
EB1010SS	5	0.3		0.9	25.5	5	0.3		0.9	25.5	8	0.6	1.1	31.1	10	0.7	1.3	36.8	15	1.0	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				
	8	0.6	1.0	3.8	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	20	1.4	2.0	56.6	20	1.4	2.0	56.6	20	1.4	2.0	56.6	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	25	17	30	2.1	11.0	27.9	15.0	38.1	20.0	50.8	13	4.0				
	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	17	30	2.1	11.0	27.9	15.0	38.1	20.0	50.8	13	4.0				
EB1020SS	6	0.4		1.0	28.3	6	0.4		1.0	28.3	6	0.4	1.0	28.3	10	0.7	1.3	36.8	20	1.4	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				
	7	0.5	2.5	9.5	1.1	31.1	8	0.6	3.2	12.1	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	22.0	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	1.5	42.5	20	1.4	2.0	56.6	25	17	30	2.1	13.0	30.0	18.0	45.7	24.0	61.0	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	17	30	2.1	13.0	30.0	18.0	45.7	24.0	61.0	12	3.7				
EB1030SS	8	0.6		3.4	96.3	10	0.7		3.8	108	15	1.0	4.8	136	35	2.4	8.4	238	50	3.4	10.1	286	50	3.4	10.1	286	50	3.4	10.1	286	50	3.4	10.1	286	50	3.4		
	15	1.0		4.8	136	20	1.4		5.9	167	25	1.7	6.7	190	35	2.4	8.4	238	50	3.4	10.1	286	65	4.5	11.0	311	15	1.0	3.1	92.7	15	1.0	3.1	92.7	15	1.0	3.1	92.7
	20	1.4	4.4	16.7	5.9	167	25	1.7	6.7	190	35	2.4	8.4	238	50	3.4	10.1	286	65	4.5	11.0	311	65	4.5	11.0	311	15	1.0	3.1	92.7	15	1.0	3.1	92.7	15	1.0	3.1	92.7
	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	100	6.9	18.3	518	15	1.0	3.1	92.7	15	1.0	3.1	92.7	15	1.0	3.1	92.7
EB1040SS	10	0.7		3.8	108	15	1.0		4.8	136	25	1.7	6.7	190	35	2.4	8.4	238	50	3.4	10.1	286	75	5.2	13.7	388	30	2.1	5.0	13.0	33.0	19.0	48.3	24.0	61.0	30	7.1	
	15	1.0		4.8	136	20	1.4		5.9	167	30	2.1	7.6	215	40	2.8	9.3	263	70	4.8	12.0	340	95	6.5	16.8	476	45	3.1	20	1.4	14.0	35.0	20.0	50.8	26.0	66.0	30	7.1
	20	1.4		5.9	167	30	2.1		7.6	215	40	2.8	9.3	263	70	4.8	12.0	340	95	6.5	16.8	476	100	6.9	18.3	518	60	5.5	20	1.4	15.0	38.1	21.0	53.3	27.0	68.6	23	5.8
	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	100	6.9	18.3	518	90	6.5	20	1.4	15.0	38.1	22.0	55.9	28.0	71.1	26	7.9

Air Atomizing 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

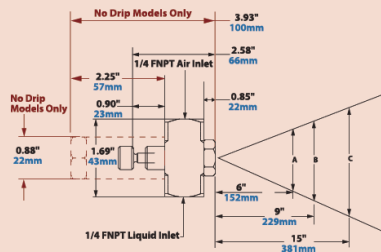
1/4 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed 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



No Drip Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

		Liquid Flow in GPH/LPH															Spray Dimensions at 8" (20cm) Siphon Height													
Model	Air			Gravity Head						Siphon Height										Air		Width						Max. Depth feet/m		
	Pressure PSI/BAR	SCFM/ SLPM		18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A in	B cm	C in	D cm	E in	F cm				
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	---	---	---	---	---	40	0.7	2.5	6	4.0	10	5.8	15	7	2.1	
	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
SR1020SS	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	
	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
	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
	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

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

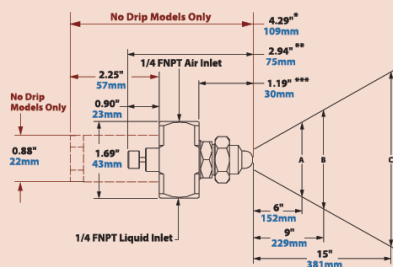
1/4 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed 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



No Drip Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles

*Model SF2010SS: 4.13" / 105mm
**Model SF1010SS: 2.80" / 71mm
***Model SF1010SS: 1.05" / 27mm

For more information about droplet size and spray angle, see page 95.

Spray Nozzles

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

Air Atomizing Nozzles

Internal Mix Narrow Angle Round Pattern - 1/2 NPT



Model: AN5010SS
Material: Type 303 Stainless Steel

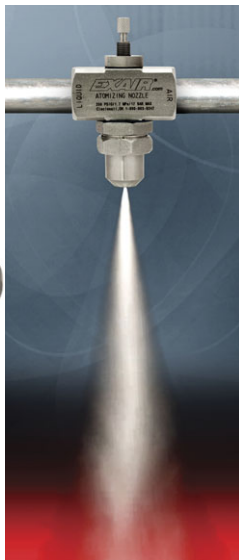


Model: AN5020SS
Material: Type 303 Stainless Steel

Model AN5010SS and AN5020SS

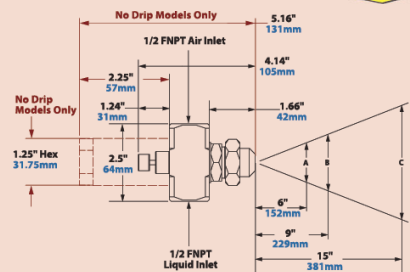
1/2 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, these larger atomizing nozzles can apply a heavy coat up close or send a very fine mist over 40 feet away! They are often used for higher 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



No Drip Only
Dimensions in Red
See page 90 for
No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

For more information about droplet size and spray angle see page 95.

Spray Dimensions

Model	Pressure				Width						Max. Depth/feet/m	
	Air PSI/ BAR	Liquid PSI/BAR			in		B		C			
AN5010SS	20	1.4	5	0.3	3.5	9	5.75	14.6	8.5	22	22	6.7
	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
	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

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

Internal Mix Wide Angle Round Pattern - 1/2 NPT

Model AW5010SS, AW5020SS and AW5030SS

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

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



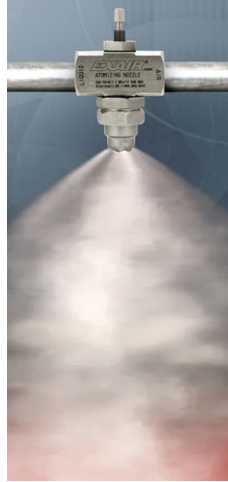
Model: AW5010SS
Material: Type 303 Stainless Steel



Model: AW5020SS
Material: Type 303 Stainless Steel

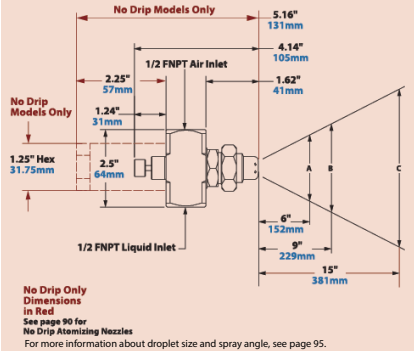


Model: AW5030SS
Material: Type 303 Stainless Steel



Dimensions and Airflow Pattern

Download drawings at EXAIR.com



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

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	Air Pressure PSI/BAR			GPH/ LPH	Air Pressure PSI/BAR			GPH/ LPH	Air Pressure PSI/BAR			GPH/ LPH	Air Pressure PSI/BAR			Pressure Air PSI/BAR			Width A B in cm C in cm			Max. Depth feet/m																					
	PSI	BAR	SLPM		PSI	BAR	SLPM		PSI	BAR	SLPM		PSI	BAR	SLPM		PSI	BAR	SLPM	PSI	BAR	SLPM	PSI	BAR	in		cm	in	cm																		
AW5010SS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																							
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																							
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																							
AW5020SS	10	0.69	32	121	12.0	340	26	1.8	36.8	139	21.8	617	40	2.8	60.6	229	99	847	54	3.7	70	265	374	1059	58	4.0	89	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	12	0.83	20.4	77	14.5	411	30	2.1	28.8	109	25.6	725	44	3.0	40.8	154	33.5	949	58	4.0	49.2	186	41.2	1167	60	4.1	49	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	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	24	13	33.0	17	43	20.5	52	45	13.7	44	3.0	35	24	13	33.0	17	43	22	56	40
AW5030SS	10	0.69	32	121	12.0	340	26	1.8	36.8	139	21.8	617	40	2.8	60.6	229	99	847	54	3.7	70	265	374	1059	58	4.0	89	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	12	0.83	20.4	77	14.5	411	30	2.1	28.8	109	25.6	725	44	3.0	40.8	154	33.5	949	58	4.0	49.2	186	41.2	1167	60	4.1	49	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	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	24	13	33.0	17	43	20.5	52	45	13.7	44	3.0	35	24	13	33.0	17	43	22	56	40
AW5030SS	10	0.69	32	121	12.0	340	26	1.8	36.8	139	21.8	617	40	2.8	60.6	229	99	847	54	3.7	70	265	374	1059	58	4.0	89	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	12	0.83	20.4	77	14.5	411	30	2.1	28.8	109	25.6	725	44	3.0	40.8	154	33.5	949	58	4.0	49.2	186	41.2	1167	60	4.1	49	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	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	24	13	33.0	17	43	20.5	52	45	13.7	44	3.0	35	24	13	33.0	17	43	22	56	40
AW5030SS	10	0.69	32	121	12.0	340	26	1.8	36.8	139	21.8	617	40	2.8	60.6	229	99	847	54	3.7	70	265	374	1059	58	4.0	89	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	12	0.83	20.4	77	14.5	411	30	2.1	28.8	109	25.6	725	44	3.0	40.8	154	33.5	949	58	4.0	49.2	186	41.2	1167	60	4.1	49	185	13.4	379	40	2.8	35	24	13	33.0	19	48	26	66	20	6.1					
	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	24	13	33.0	17	43	20.5	52	45	13.7	44	3.0	35	24	13	33.0	17	43	22	56	40

Air Atomizing Nozzles

Internal Mix Flat Fan Pattern - 1/2 NPT

Model AF5010SS and AF5020SS

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

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

Model: AF5010SS

Material: Type 303 Stainless Steel

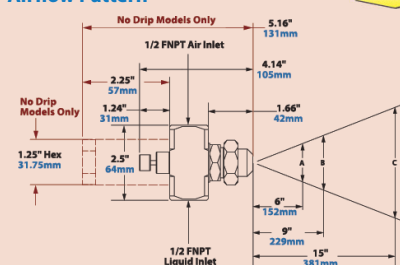


Model: AF5020SS

Material: Type 303 Stainless Steel

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

Dimensions and Airflow Pattern



No Drip Only
Dimensions in Red
See page 90 for
No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

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

Spray Dimensions													
Model	Pressure				Width						Max. Depth/feet/in		
	Air PSI/BAR	Liquid PSI/BAR			A			B				C	
					in	cm		in	cm				in
AF5010SS	20	1.4	10	0.7	25	64		34	86	45	114	14	4.3
	40	2.8	20	1.4	28	71		36	91	46	117	18	5.5
	50	3.4	25	1.7	29	74		38	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
	20	1.4	10	0.7	24	61		30	76	40	102	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

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	---	---						
	---	---	---	---	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	179	507	36	2.5	177	670	22.3	632	54	3.7	231	874	29.3	830
	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

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



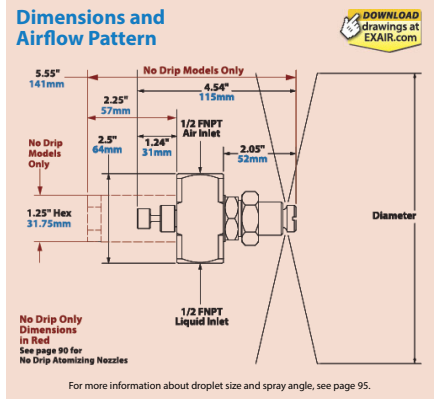
Model: AT5010SS

Material: Type 303 Stainless Steel

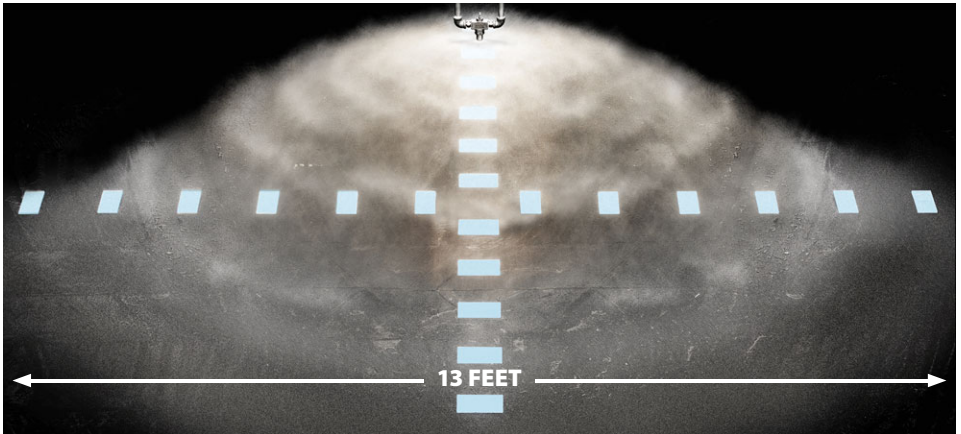
Model AT5010SS

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.



Spray Nozzles



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

ATF500S 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										
																					Pressure		Diameter in cm								
	Air Pressure PSI/Bar	GPH/LPH	SCFM/ SLPM		Air Pressure PSI/Bar	GPH/LPH	SCFM/ SLPM		Air Pressure PSI/Bar	GPH/LPH	SCFM/ SLPM		Air Pressure PSI/Bar	GPH/LPH	SCFM/ SLPM		Air Pressure PSI/Bar	GPH/LPH	SCFM/ SLPM	Air Pressure PSI/Bar	Liquid PSI/Bar										
ATF500S 16	14	1.0	54	2.04	13	3.7	138		28	1.7	100	379	17.3	49.9		36	2.5	114	431	20.7	671			16	1.1	50	1.7	56	142		
ATF500S 18	14	1.0	53	2.04	13	3.7	136		28	1.9	160	259	12.8	61.7		40	2.8	8.3	314	28.0	793			42	2.9	30	2.1	112	284		
ATF500S 20	18	1.2	16.8	6.4	18.5	5.24	32	2.25	123	26.7	75.6		34	3.8	144	53.5	34.6	98.1		60	4.1	42	159	427	1209	78	5.4	108	409	479	1357
ATF500S 24	14	1.0	10.8	4.1	20.0	5.66		36	2.5	12	125	36.8	77.2		50	3.4	14.4	55	39.1	1107			62	4.6	15.6	59	49.9	1413			

Air Atomizing Nozzles

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



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.



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

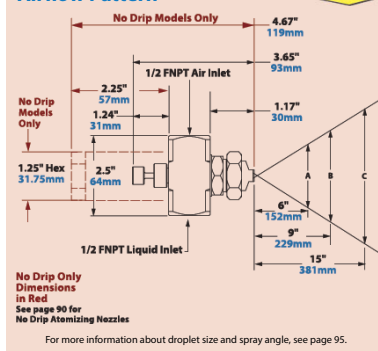


Spray Nozzles



See page 4 for complete details.

Dimensions and Airflow Pattern



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	40 2.8	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	40 2.8	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	40 2.8	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	40 2.8	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width		Max. Depth feet/m		
																				Air PSI/ BAR	Liquid PSI/ BAR	A in cm	B in cm		C in cm	
EF5010SS	30 2.1		30.2/854		40 2.8		36.6/1037		45 3.1		39.9/1130		55 3.8		46.4/1314		80 5.5		56.0/1586	35 2.4	3 0.2	15 38	18.5/47	22 56	25 76	
	35 2.4	41 534	34.0/961	45 3.1	186 704	40.4/1144	55 3.8	418 825	47.0/1331	60 4.1	49.5/1409	85 5.9	59.7/1691	100 6.9	67.6/1914	303 1147	90 6.2	15 10	15 38	18.5/47	22 56	25 76	33 10.1			
	40 2.8		37.3/1053	55 3.8		47.4/1342	60 4.1		49.5/1402	70 4.8	52.84/1496	90 6.2														
	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														

Siphon Fed Round Pattern - 1/2 NPT



Model: SR50105S
Material: Type 303 Stainless Steel

Model SR50105S

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

Siphon or gravity fed for non-pressurized applications.



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

Spray Nozzles

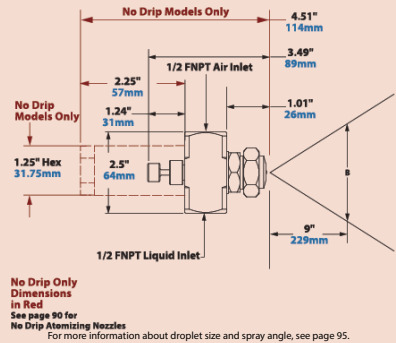
Air and Liquid Caps are Interchangeable!



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



Liquid Flow in GPH/LPH															Spray Dimensions at 8" (20cm) Siphon Height									
Model	Air				Gravity Head					Siphon Height										Air		Width		Max. Depth feet/m
	Pressure PSI/BAR	SCFM/ SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	Pressure PSI/BAR	B						
SR50105S	20	1.4	19.3	547	---	---	---	---	---	22.1	84	14.3	54	---	---	---	20	1.4						
	30	2.1	25.2	714	---	---	---	---	---	28.6	108	25.7	97	12.3	47	---	30	2.1						
	40	2.8	32.8	929	---	---	56.8	215	41	155	31.5	119	28.4	107	19.6	74	40	2.8						
	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			
	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				
	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				
	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				

No Drip Air Atomizing Spray Nozzles



Eliminate drips to conserve valuable liquids and improve product finishes!

What Are No Drip Atomizing Nozzles?

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

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

Internal Mix:

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

External Mix:

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

Siphon Fed:

Siphon fed nozzles require no liquid pressure and can be used with gravity fed liquids or lift liquids from a siphon height as much as 36 inches (91cm). Siphon fed nozzles can be used on liquids with a viscosity up to 200 cP. **No Drip Siphon Fed Atomizing Nozzles are siphon or gravity fed for non-pressurized applications.**

[†] Patent #9156045

Why No Drip Atomizing Nozzles?

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

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



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

Applications

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

Advantages

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

No Drip Air Atomizing Nozzles

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



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 INTERNAL MIX ATOMIZING NOZZLES

Spray Nozzles

No Drip Air Atomizing 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
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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 Nozzles

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

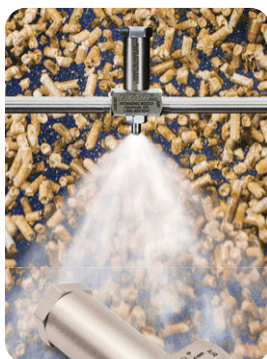
EB2010SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
EB2020SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
EB2030SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 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

Spray Nozzles

No Drip Air Atomizing Nozzles

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

Spray Nozzles



NO DRIP SIPHON FED ATOMIZING NOZZLES

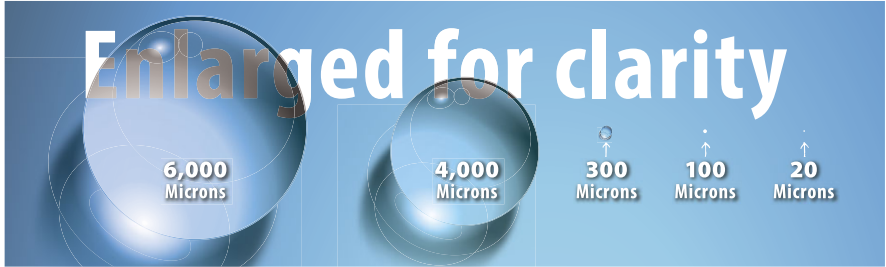
Model Description

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



Droplet Size

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

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

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

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

Spray Angle

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

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

Liquid Atomizing Spray Nozzles

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

What are Liquid Atomizing Spray Nozzles?

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

Why Liquid Atomizing Spray Nozzles?

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



Applications

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

Advantages

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

FullStream™ Cone Nozzles - 1/4 NPT



Model: FL1008SS
Material: Type 303 Stainless Steel



Model: FL1010SS
Material: Type 303 Stainless Steel



Model: FL1011SS
Material: Type 303 Stainless Steel

Model FL1008SS, FL1010SS and FL1011SS

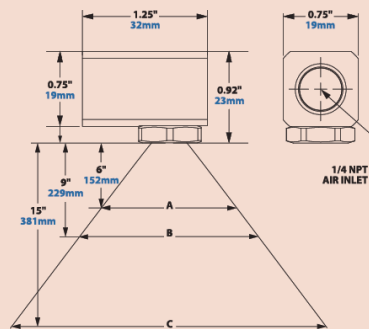
EXAIR's 1/4 NPT FullStream Cone Nozzles, with a full cone spray pattern, are among the most common type of spray nozzles. Full cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry. Their tangential flow design is vaneless, which 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 PSIG liquid pressure. FullStream nozzles work well with liquids containing particulate.

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

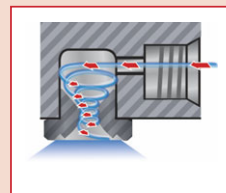
For maximum liquid conservation and spray control visit page 68.



Dimensions and Airflow Pattern



How the FullStream Cone Nozzle Works



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

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

Liquid Atomizing Nozzles

FullStream™ 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



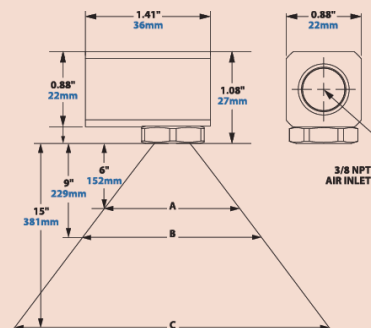
Model: FL3023SS

Material: Type 303 Stainless Steel

Model FL3011SS, FL3013SS, FL3016SS, FL3020SS and FL3023SS

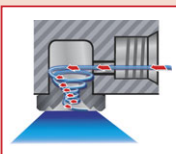
EXAIR's 3/8 FullStream Cone Nozzles, with a full cone spray pattern, are among the most common type of spray nozzles. Full cone spray nozzles are applied to solve cooling, cleaning, washing, rinsing and dust suppression applications throughout industry. Their tangential flow design is vaneless, which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

Dimensions and Airflow Pattern



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

For maximum liquid conservation and spray control visit page 68.



How the FullStream Cone Nozzle Works

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

FullStream Cone Nozzles												Spray Angle								
Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM								Inlet		Width						
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	Pressure PSI/BAR	A	B	C						
3/8 NPT	FL3011SS	11	0.128"	GPM	0.57	0.76	0.91	1.10	1.52	2.20	2.70	7	0.5	8.1	21	12.1	31	20.2	51	
				LPM	2.16	2.88	3.44	4.16	5.75	8.33	10.22	20	1.4	9.9	25	14.8	38	24.7	63	
	FL3013SS	13	0.144"	GPM	0.75	0.95	1.13	1.30	1.86	2.60	3.34	7	0.5	7.6	19	11.5	29	19.1	49	
				LPM	2.84	3.60	4.28	4.92	7.04	9.84	12.64	20	1.4	9.0	23	13.6	35	22.6	57	
	FL3016SS	16	0.154"	GPM	0.98	1.10	1.25	1.60	2.23	2.90	3.60	7	0.5	7.6	19	11.5	29	19.1	49	
				LPM	3.71	4.16	4.73	6.06	8.44	10.98	13.63	20	1.4	9.7	25	14.6	37	24.3	62	
	FL3020SS	20	0.172"	GPM	1.22	1.64	1.88	2.00	2.98	4.24	4.82	7	0.5	8.4	21	12.6	32	21.0	53	
				LPM	4.62	6.21	7.12	7.57	11.28	16.05	18.24	20	1.4	9.9	25	14.8	38	24.7	63	
	FL3023SS	23	0.189"	GPM	1.36	1.76	1.96	2.30	3.18	4.56	5.38	7	0.5	9.0	23	13.6	35	22.6	57	
				LPM	5.15	6.66	7.42	8.71	12.04	17.26	20.36	20	1.4	10.2	26	15.4	39	25.6	65	
					GPM								60	4.1	11.2	28	16.8	43	18.0	46
					LPM															