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Per Title II, Article 7, paragraph 1, articles (products) must be registered when a substance is intended to be released under normal or reasonably foreseeable conditions of use and it is present in those articles in quantities totaling over 1 metric ton per producer or importer per year. Registration of EXAIR products is not required since they do not contain substances that are intentionally released.

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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.

EXAIR®
EFFICIENCYLAB

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

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

How does the Efficiency Lab work?

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

How can I get a product tested for free?

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

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

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

An INTELLIGENT COMPRESSED AIR® Product

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 1/4 NPT and 1/2 NPT sizes. See pages 66-74 for 1/4 NPT sizes and 75-80 for 1/2 NPT sizes.

Built to Last 5 yr. WARRANTY

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.

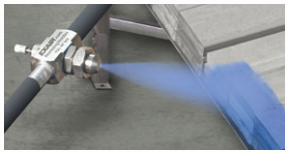
Sound levels for the individual Atomizing Spray Nozzles are not provided. The fluid, pressure, surfaces being treated and surrounding enclosures used in conjunction with the Atomizing Spray Nozzle to form the system will determine the actual sound levels (which can vary greatly). Max temperature is 400°F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

Applications

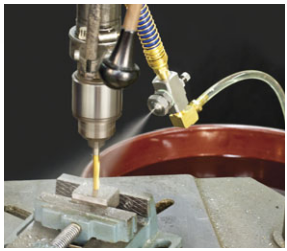
- Washing
- Rinsing
- Coating
- Cooling
- Quenching
- Wetting (moistening)
- Humidification
- Dust Control

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 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 84.

Internal Mix Narrow Angle Round Pattern - 1/4 NPT

Model: AN1010SS
Material: Type 303 Stainless Steel

Model: AN1020SS
Material: Type 303 Stainless Steel

Model: AN1030SS
Material: Type 303 Stainless Steel

Model: AN1040SS
Material: Type 303 Stainless Steel

Model AN1010SS, AN1020SS, AN1030SS, and AN1040SS

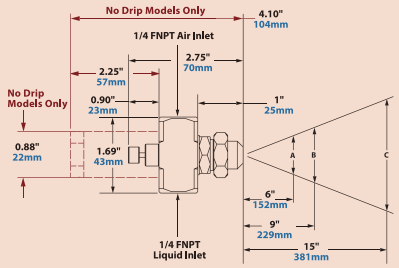
1/4 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, they can apply a heavy coat up close or send a very fine mist over 30 feet away! They are often used for precision application of lubricants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

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

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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 81 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 84.

Model	10 PSI/0.7 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	20 PSI/1.4 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	30 PSI/2.1 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	40 PSI/2.8 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	60 PSI/4.1 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM
AN1010SS	10 0.7	1.4	5.3 0.6	17 1.2	1.8	6.8 0.9	25	24 1.7	2.3	8.7 1.0	28	30 2.1	2.7	10.2 1.2	34	40 2.8	3.3	12.5 1.5	42
	12 0.8	1.2	4.5 0.7	20 1.5	1.6	6.1 1.0	28	32 2.2	1.9	7.2 1.3	37	38 2.6	2.3	8.7 1.5	42	52 3.6	2.8	10.6 1.9	54
	14 1.0	1.1	4.2 0.8	23 1.7	1.5	5.7 1.1	31	36 2.5	1.6	6.1 1.5	42	44 3.0	1.9	7.2 1.7	48	62 4.3	2.3	8.7 2.4	68
	--- ---	---	--- ---	26 1.8	1.3	4.9 1.2	34	40 2.8	1.3	4.9 1.7	48	48 3.3	1.7	6.4 2.0	57	70 4.8	1.9	7.2 2.8	79
AN1020SS	16 1.1	3.7	14.0 2.8	79 28 1.9	5.2	19.7 4.0	113	40 2.8	6.0	22.7 5.2	147	48 3.3	7.0	26.5 5.9	167	65 4.5	9.9	37.5 7.0	198
	20 1.4	2.5	9.5 3.4	96 36 2.5	2.7	10.2 5.1	144	48 3.3	3.8	14.4 6.4	181	65 4.5	3.6	13.6 8.1	229	80 5.5	6.6	25.0 8.6	244
	24 1.7	1.4	5.3 4.0	113 40 2.8	1.7	6.4 5.7	161	55 3.8	2.1	7.9 7.3	207	75 5.2	1.4	5.3 9.8	277	90 6.2	4.5	17.0 10.1	286
	28 1.9	0.6	2.3 4.6	130 44 3.0	0.8	3.0 6.4	181	60 4.1	1.1	4.2 8.1	229	80 5.5	0.8	3.0 10.2	289	100 6.9	2.4	9.1 11.3	320
AN1030SS	12 0.8	7.8	29.5 1.9	54 20 1.4	12.9	48.8 2.5	71	30 2.1	15.1	57.2 3.4	96	38 2.6	18.0	68.1 4.1	116	54 3.7	23.0	87.1 5.3	150
	14 1.0	6.0	22.7 2.2	62 24 1.7	9.8	37.1 3.0	85	38 2.6	9.4	35.6 4.5	127	46 3.2	13.1	49.6 5.1	144	65 4.5	17.1	64.7 6.7	190
	16 1.1	4.4	16.7 2.6	74 28 1.9	7.0	26.5 3.6	102	42 2.9	7.0	26.5 5.1	144	52 3.6	9.6	36.3 6.0	170	75 5.2	12.3	46.6 8.0	227
	18 1.2	3.3	12.5 2.9	82 32 2.2	4.1	15.5 4.4	125	46 3.2	5.0	18.9 5.9	167	56 3.9	7.3	27.6 6.6	187	85 5.9	7.3	27.6 9.6	272
AN1040SS	14 1.0	6.3	23.8 3.5	99 20 1.4	24.0	90.8 3.0	85	28 1.9	33.0	125 3.4	96	32 2.2	46.5	176 2.8	79	42 2.9	66.0	250 2.7	76
	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
	--- ---	---	--- ---	--- ---	9.0	34.1 4.9	139	36 2.5	12.5	47.3 5.9	167	46 3.2	16.5	62.5 6.8	193	58 4.0	39.0	148 6.6	187
	--- ---	---	--- ---	28 1.9	5.5	20.8 5.6	159	40 2.8	6.0	22.7 7.4	210	50 3.4	10.3	39.0 8.2	232	70 4.8	15.8	60 10.2	289

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

For Technical Assistance, Call An EXAIR Application Engineer 1-800-903-9247
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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

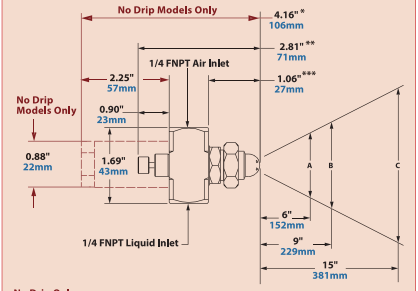
EXAIR's 1/4 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. They can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles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

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 81 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 84.

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

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

Internal Mix Flat Fan Pattern - 1/4 NPT

Model: AF1010SS
Material: Type 303 Stainless Steel

Model: AF1020SS
Material: Type 303 Stainless Steel

Model: AF1030SS
Material: Type 303 Stainless Steel

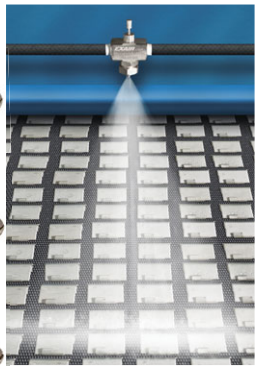
Model: AF1040SS
Material: Type 303 Stainless Steel

Model: AF1050SS
Material: Type 303 Stainless Steel

Model AF1010SS, AF1020SS, AF1030SS, AF1040SS, and AF1050SS

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

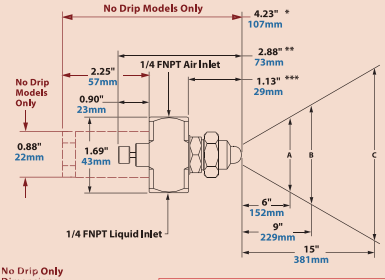
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip **Only** Dimensions in Red
See page 31 for No Drip Atomizing Nozzles

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

For more information about droplet size and spray angle, see page 84.

Model	10 PSI/0.7 BAR Liquid					20 PSI/1.4 BAR Liquid					30 PSI/2.1 BAR Liquid					40 PSI/2.8 BAR Liquid					60 PSI/4.1 BAR Liquid				
	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM
AF1010SS	10	0.7	1.6	6.1	0.7 20	18	1.2	2.1	7.9	1.0 28	28	1.9	2.4	9.1	1.4 40	38	2.6	2.6	9.8	1.7 48	55	3.8	3.2	12.1	2.2 62
	14	1.0	1.4	5.3	0.9 25	26	1.8	1.7	6.4	1.3 37	40	2.8	1.8	6.8	1.8 51	50	3.4	2.0	7.6	2.1 59	75	5.2	2.3	8.7	3.0 85
	18	1.2	1.1	4.2	1.1 31	34	2.3	1.2	4.5	1.7 48	48	3.3	1.4	5.3	2.1 59	60	4.1	1.6	6.1	2.5 71	90	6.2	1.6	6.1	3.6 102
	22	1.5	0.8	3.0	1.3 37	40	2.8	0.8	3.0	1.9 54	55	3.8	1.0	3.8	2.4 68	70	4.8	1.2	4.5	3.0 85	100	6.9	1.3	4.9	4.1 116
AF1020SS	12	0.8	2.4	9.1	0.7 20	20	1.4	3.4	12.9	0.9 25	30	2.1	3.9	14.8	1.2 34	38	2.6	4.6	17.4	1.4 40	65	4.5	4.7	17.8	2.2 62
	16	1.1	1.8	6.8	0.9 25	28	1.9	2.4	9.1	1.2 34	38	2.6	2.9	11.0	1.5 42	50	3.4	3.2	12.1	1.9 54	75	5.2	3.7	14.0	2.6 74
	18	1.2	1.5	5.7	1.0 28	32	2.2	1.8	6.8	1.5 42	46	3.2	2.0	7.6	1.9 54	60	4.1	2.2	8.3	2.3 65	85	5.9	2.8	10.6	3.0 85
	20	1.4	1.3	4.9	1.1 31	36	2.5	1.4	5.3	1.7 48	50	3.4	1.6	6.1	2.1 59	70	4.8	1.4	5.3	2.8 79	95	6.6	2.1	7.9	3.6 102
AF1030SS	16	1.1	4.5	17.0	2.0 57	28	1.9	6.0	22.7	2.8 79	38	2.6	7.0	26.5	3.5 99	46	3.2	8.5	32.2	4.0 113	65	4.5	11.0	41.6	5.3 150
	20	1.4	3.3	12.5	2.4 68	32	2.2	5.0	18.9	3.1 88	42	2.9	6.4	24.2	3.8 108	52	3.6	7.5	28.4	4.5 127	70	4.8	10.0	37.9	5.7 161
	24	1.7	2.4	9.1	2.7 76	34	2.3	4.5	17.0	3.3 93	46	3.2	5.5	20.8	4.1 116	58	4.0	6.3	23.8	4.9 139	80	5.5	8.0	30.3	6.4 181
	28	1.9	1.5	5.7	3.1 88	36	2.5	3.9	14.8	3.5 99	48	3.3	5.1	19.3	4.4 125	60	4.1	6.0	22.7	5.2 147	90	6.2	6.4	24.2	7.2 204
AF1040SS	12	0.8	8.1	30.7	1.4 40	22	1.5	12.0	45.4	1.9 54	34	2.3	13.1	49.6	2.7 76	46	3.2	14.3	54.1	3.4 96	65	4.5	18.3	69.3	4.5 127
	16	1.1	5.9	22.3	1.8 51	30	2.1	7.1	26.9	2.7 76	42	2.9	8.9	33.7	3.4 96	54	3.7	10.3	39.0	4.1 116	80	5.5	11.9	45.0	5.9 167
	18	1.2	5.0	18.9	2.0 57	34	2.3	5.6	21.2	3.1 88	48	3.3	6.3	23.8	4.1 116	60	4.1	7.9	29.9	4.8 136	90	6.2	8.5	32.2	6.8 193
	22	1.5	3.3	12.5	2.4 68	38	2.6	4.1	15.5	3.5 99	52	3.6	5.0	18.9	4.5 127	70	4.8	4.6	17.4	5.8 164	100	6.9	6.0	22.7	7.9 224
AF1050SS	14	1.0	8.8	33.3	3.0 85	26	1.8	11.5	43.5	4.3 122	34	2.3	20.8	78.7	4.6 130	42	2.9	30.0	114	4.8 136	58	4.0	42.0	159	5.5 156
	16	1.1	5.3	20.1	3.7 105	28	1.9	7.8	29.5	4.9 139	36	2.5	17.0	64.3	4.9 139	46	3.2	20.5	77.6	6.1 173	65	4.5	30.0	114	6.8 193
	---	---	---	---	--- ---	---	---	---	---	--- ---	40	2.8	9.0	34.1	6.1 173	50	3.4	13.5	51.1	7.3 207	70	4.8	21.0	79.5	8.7 246
	---	---	---	---	--- ---	---	---	---	---	--- ---	42	2.9	6.3	23.8	7.0 198	54	3.7	7.5	28.4	8.4 238	80	5.5	8.5	32.2	11.2 317

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

For Technical Assistance, Call An EXAIR Application Engineer 1-800-903-9247
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Internal Mix Deflected Flat Fan Pattern - 1/4 NPT

Model: AD1010SS
Material: Type 303 Stainless Steel

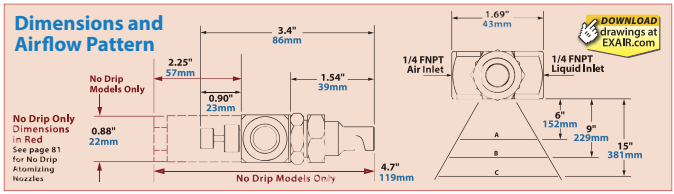
A Model AD1010SS is used to apply a protective coating to wood panels.

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



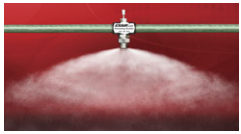
For more information about droplet size and spray angle, see page 84.

Model	10 PSI/0.7 BAR Liquid					20 PSI/1.4 BAR Liquid					30 PSI/2.1 BAR Liquid					40 PSI/2.8 BAR Liquid					60 PSI/4.1 BAR Liquid				
	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM
AD1010SS	6	0.4	3.0	11.5	1.4 41	14	1.0	4.0	15.1	2.3 66	22	1.5	4.6	17.6	3.2 90	26	1.8	5.7	21.4	3.5 98	38	2.6	6.9	26.0	4.7 133
	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
	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
	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

Spray Dimensions										
Pressure				Width						Max. Depth in/cm
Air PSI/BAR		Liquid PSI/BAR		A		B		C		
				in	cm	in	cm	in	cm	
12	0.8	10	0.7	9	23	14	36	16	41	36 91
22	1.5	20	1.4	11	28	13	33	16	41	42 107
34	2.3	30	2.1	8	20	12	30	16	41	45 114
46	3.2	40	2.8	9	23	12	30	15	38	48 122
70	4.8	60	4.1	12	30	15	38	18	46	42 107

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

Model: AT1010SS
Material: Type 303 Stainless Steel



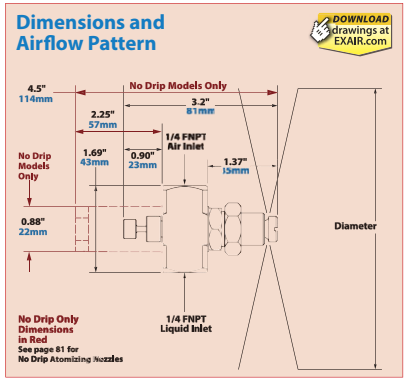
This 360° circular pattern nozzle can be used to coat inside diameters or cover a broad area of over 4' (1219mm).

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



For more information about droplet size and spray angle, see page 84.

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

Spray Dimensions				
Pressure				Diameter
Air PSI/BAR		Liquid PSI/BAR		in cm
20	1.4	10	0.7	36 91
34	2.3	20	1.4	39 99
50	3.4	30	2.1	44 112
60	4.1	40	2.8	49 124
85	5.9	60	4.1	53 135

External Mix Round Pattern - 1/4 NPT

Model: ER1010SS
Material: Type 303 Stainless Steel

Model: ER1020SS
Material: Type 303 Stainless Steel

Model: ER1030SS
Material: Type 303 Stainless Steel

Model: ER1040SS
Material: Type 303 Stainless Steel

Model: ER1050SS
Material: Type 303 Stainless Steel

Model ER1010SS, ER1020SS, ER1030SS, ER1040SS and ER1050SS

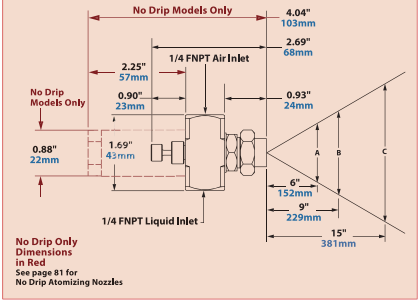
1/4 NPT external mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern. Applications include spot treatments of parts, covering irregularly shaped objects or covering a container of parts with a heavy coat. They are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

For pressure fed applications with independent air and liquid control.

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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



For more information about droplet size and spray angle, see page 84.

Model	3 PSI/0.2 BAR Liquid					5 PSI/0.3 BAR Liquid					10 PSI/0.7 BAR Liquid					20 PSI/1.4 BAR Liquid					40 PSI/2.8 BAR Liquid				
	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR		GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR		GPH/ LPH		SCFM/ SLPM
ER1010SS	5	0.3	1.0	3.8	0.9 25.5	5	0.3	1.4	5.3	0.9 25.5	10	0.7	1.9	7.2	1.3 36.8	20	1.4	2.7	10.2	1.9 53.8	20	1.4	3.8	14.4	1.9 53.8
	10	0.7			1.3 36.8	10	0.7			1.3 36.8	20	1.4			1.9 53.8	40	2.8			3.0 85.0	40	2.8			3.0 85.0
	20	1.4			1.9 53.8	30	2.1			2.4 68.0	40	2.8			3.0 85.0	60	4.1			4.1 116	60	4.1			4.1 116
	40	2.8			3.0 85.0	50	3.4			3.5 99.1	60	4.1			4.1 116	90	6.2			5.7 161	90	6.2			5.7 161
ER1020SS	6	0.4	2.5	9.5	0.9 25.5	10	0.7	3.2	12.1	1.3 36.8	10	0.7	4.3	16.3	1.3 36.8	20	1.4	5.9	22.3	2.9 82.1	40	2.8	7.5	28.4	3.0 85.0
	10	0.7			1.3 36.8	20	1.4			1.8 51.0	20	1.4			1.9 53.8	40	2.8			3.1 87.8	60	4.1			4.1 116
	30	2.1			2.4 68.0	40	2.8			3.1 87.8	40	2.8			3.1 87.8	60	4.1			4.1 116	80	5.5			5.3 150
	50	3.4			3.6 102	60	4.1			4.1 116	60	4.1			4.1 116	90	6.2			5.9 167	90	6.2			5.9 167
ER1030SS	10	0.7	4.4	16.7	4.0 113	10	0.7	5.5	20.8	4.0 113	15	1.0	7.6	28.8	4.9 139	30	2.1	11.0	41.6	7.7 218	40	2.8	14.0	53.0	9.5 269
	20	1.4			6.0 170	20	1.4			6.0 170	30	2.1			7.7 218	40	2.8			9.5 269	50	3.4			11.2 317
	40	2.8			9.5 269	40	2.8			9.5 269	50	3.4			11.2 317	60	4.1			11.7 331	60	4.1			11.7 331
	50	3.4			11.2 317	60	4.1			11.7 331	70	4.8			13.4 379	80	5.5			15.3 433	80	5.5			15.3 433
ER1040SS	15	1.0	10.0	37.9	4.9 139	20	1.4	13.5	51.1	6.0 170	30	2.1	18.8	71.2	7.7 218	40	2.8	27.6	104	9.5 269	50	3.4	31.0	117	11.2 317
	30	2.1			7.7 218	30	2.1			7.7 218	40	2.8			9.5 269	50	3.4			11.2 317	60	4.1			11.7 331
	40	2.8			9.5 269	40	2.8			9.5 269	60	4.1			11.7 331	60	4.1			11.7 331	70	4.8			13.4 379
	50	3.4			11.2 317	60	4.1			11.7 331	80	5.5			15.3 433	80	5.5			15.3 433	80	5.5			15.3 433
ER1050SS	40	2.8	18.0	68.1	14.0 396	55	3.8	26.0	98.0	18.0 510	65	4.5	41.0	155	21.0 595	80	5.5	60.0	227	25.3 716	--	--	--	--	-- --
	50	3.4			16.8 470	65	4.5			21.0 595	70	4.8			22.3 631	90	6.2			27.9 790	--	--	--	--	-- --
	60	4.1			19.7 558	70	4.8			22.3 631	80	5.5			25.3 716	--	--	--	--	-- --	--	--	--	--	-- --
	65	4.5			21.0 595	80	5.5			25.3 716	90	6.2			27.9 790	--	--	--	--	-- --	--	--	--	--	-- --

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

Spray Dimensions

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

For Technical Assistance, Call An EXAIR Application Engineer 1-800-903-9247
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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

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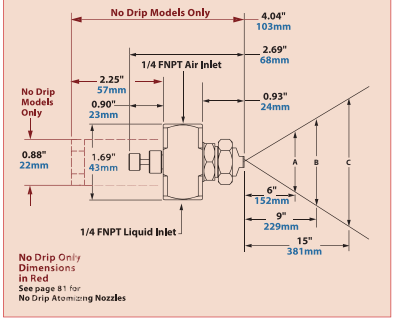

For more information about droplet size and spray angle, see page 84.

Model	3 PSI/0.2 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		5 PSI/0.3 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	
EF1010SS	5	0.3	1.0	3.8	0.8	22.7	10	0.7	1.4	5.3	1.0	28.3
	10	0.7			1.0	28.3	20	1.4			1.5	42.5
	20	1.4			1.5	42.5	30	2.1			2.0	56.6
	40	2.8			2.5	70.8	50	3.4			2.9	82.1
EF1020SS	10	0.7	2.5	9.5	1.0	28.3	15	1.0	3.2	12.1	1.3	36.8
	20	1.4			1.5	42.5	25	1.7			1.8	51.0
	30	2.1			2.0	56.6	40	2.8			2.5	70.8
	50	3.4			2.9	82.1	60	4.1			3.4	96.3
EF1030SS	10	0.7	4.4	16.7	3.5	99.1	20	1.4	5.5	20.8	5.3	150
	20	1.4			5.3	150	30	2.1			6.9	195
	30	2.1			6.9	195	40	2.8			8.4	238
	50	3.4			10.0	283	60	4.1			11.5	326
EF1040SS	15	1.0	10.0	37.9	4.4	125	25	1.7	13.5	51.1	6.1	173
	25	1.7			6.1	173	35	2.4			7.6	215
	40	2.8			8.4	238	50	3.4			10.0	283
	50	3.4			10.0	283	60	4.1			11.5	326

Model	10 PSI/0.7 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		20 PSI/1.4 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	
EF1010SS	15	1.0	1.9	7.2	1.3	36.8	25	1.7	2.7	10.2	1.8	51.0
	25	1.7			1.8	51.0	40	2.8			2.5	70.8
	40	2.8			2.5	70.8	60	4.1			3.4	96.3
	60	4.1			3.4	96.3	90	6.2			4.7	133
EF1020SS	20	1.4	4.3	16.3	1.5	42.5	35	2.4	5.9	22.3	2.2	62.3
	30	2.1			2.0	56.6	50	3.4			2.9	82.1
	50	3.4			2.9	82.1	70	4.8			3.8	108
	70	4.8			3.8	108	90	6.2			4.7	133
EF1030SS	25	1.7	7.6	28.8	6.1	173	40	2.8	11.0	41.6	8.4	238
	35	2.4			7.6	215	50	3.4			10.0	283
	50	3.4			10.0	283	70	4.8			12.7	360
	70	4.8			12.7	360	90	6.2			14.8	419
EF1040SS	35	2.4	18.8	71.2	7.6	215	45	3.1	27.6	104	9.2	261
	45	3.1			9.2	261	55	3.8			10.7	303
	60	4.1			11.5	326	70	4.8			12.7	360
	80	5.5			13.7	388	90	6.2			14.8	419

Model	40 PSI/2.8 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	
EF1010SS	45	3.1	3.8	14.4	2.7	76.5
	60	4.1			3.4	96.3
	75	5.2			4.1	116
	95	6.5			5.1	144
EF1020SS	50	3.4	7.5	28.4	2.9	82.1
	60	4.1			3.4	96.3
	80	5.5			4.3	122
	100	6.9			5.2	147
EF1030SS	50	3.4	14.0	53.0	10.0	283
	60	4.1			11.5	326
	80	5.5			13.7	388
	95	6.5			15.1	428
EF1040SS	55	3.8	31.0	117	10.7	303
	65	4.5			12.2	345
	80	5.5			13.7	388
	100	6.9			16.2	459

Spray Dimensions

Pressure: Air PSI/BAR		Liquid PSI/BAR		Width: A in	A cm	B in	B cm	C in	C cm	Max. Depth feet/m	
5	0.3	3	0.2	4.0	10.2	5.8	14.7	9.5	24.1	6	1.8
25	1.7	5	0.3	5.5	14.0	8.0	20.3	10.0	25.4	12	3.7
25	1.7	20	1.4	6.5	16.5	9.5	24.1	13.0	33.0	13	4.0
50	3.4	20	1.4	6.3	16.0	9.3	23.6	12.0	30.5	16	4.9
75	5.2	40	2.8	6.5	16.5	9.5	24.1	13.0	33.0	18	5.5
10	0.7	3	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7
30	2.1	5	0.3	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3
35	2.4	20	1.4	6.5	16.5	11.0	27.9	16.0	40.6	17	5.2
60	4.1	20	1.4	7.5	19.1	11.5	29.2	18.0	45.7	20	6.1
75	5.2	40	2.8	7.5	19.1	12.0	30.5	17.0	43.2	22	6.7
10	0.7	3	0.2	6.0	15.2	9.0	22.9	12.0	30.5	12	3.7
35	2.4	5	0.3	6.8	17.3	9.0	22.9	12.0	30.5	20	6.1
40	2.8	10	0.7	7.0	17.8	10.0	25.4	13.0	33.0	23	7.0
60	4.1	20	1.4	7.0	17.8	11.0	27.9	14.0	35.6	28	8.5
75	5.2	40	2.8	7.0	17.8	11.0	27.9	14.0	35.6	30	9.1
15	1.0	3	0.2	6.0	15.2	10.0	25.4	14.0	35.6	13	4.0
30	2.1	3	0.2	6.8	17.3	11.0	27.9	14.0	35.6	17	5.2
50	3.4	10	0.7	7.5	19.1	12.0	30.5	15.0	38.1	22	6.7
60	4.1	20	1.4	8.0	20.3	12.0	30.5	16.0	40.6	25	7.6
80	5.5	40	2.8	7.0	17.8	11.0	27.9	15.0	38.1	27	8.2

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

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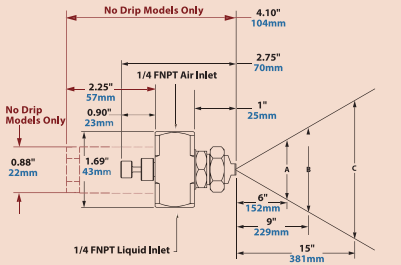

No Drip Only Dimensions in Red
See page 81 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 84.

Model	3 PSI/0.2 BAR Liquid				5 PSI/0.3 BAR Liquid				10 PSI/0.7 BAR Liquid				20 PSI/1.4 BAR Liquid				40 PSI/2.8 BAR Liquid			
	Air Pressure PSI/ BAR	GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH		SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH		SCFM/ SLPM
EB1010SS	5 0.3	1.0	3.8	0.9 25.5	5 0.3	1.4	5.3	0.9 25.5	8 0.6	1.9	7.2	1.1 31.1	10 0.7	2.7	10.2	1.3 36.8	15 1.0	3.8	14.4	1.7 48.1
	8 0.6			1.1 31.1	10 0.7			1.3 36.8	10 0.7			1.3 36.8	20 1.4			2.0 56.6	20 1.4			2.0 56.6
	10 0.7			1.3 36.8	15 1.0			1.7 48.1	30 2.1			2.0 56.6	30 2.1			2.6 73.6	30 2.1			2.6 73.6
	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
EB1020SS	6 0.4	2.5	9.5	1.0 28.3	6 0.4	3.2	12.1	1.0 28.3	6 0.4	4.3	16.3	1.0 28.3	10 0.7	5.9	22.3	1.3 36.8	20 1.4	7.5	28.4	2.0 56.6
	7 0.5			1.1 31.1	8 0.6			1.1 31.1	8 0.6			1.1 31.1	12 0.8			1.5 42.5	25 1.7			2.3 65.1
	8 0.6			1.1 31.1	9 0.6			1.2 34.0	10 0.7			1.3 36.8	15 1.0			1.7 48.1	30 2.1			2.6 74.0
	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
EB1030SS	8 0.6	4.4	16.7	3.4 96.3	10 0.7	5.5	20.8	3.8 108	15 1.0	7.6	28.8	4.8 136	35 2.4	11.0	41.6	8.4 238	50 3.4	14.0	53.0	11.0 311
	15 1.0			4.8 136	20 1.4			5.9 167	25 1.7			6.7 190	45 3.1			10.1 286	65 4.5			12.3 348
	20 1.4			5.9 167	25 1.7			6.7 190	35 2.4			8.4 238	55 3.8			11.7 331	85 5.9			15.7 445
	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
EB1040SS	10 0.7	10.0	37.9	3.8 108	15 1.0	13.5	51.1	4.8 136	25 1.7	18.8	71.2	6.7 190	45 3.1	27.6	104	10.1 286	75 5.2	31.0	117	13.7 388
	15 1.0			4.8 136	20 1.4			5.9 167	30 2.1			7.6 215	50 3.4			11.0 311	85 5.9			15.7 445
	20 1.4			5.9 167	30 2.1			7.6 215	40 2.8			9.3 263	70 4.8			13.4 379	95 6.5			16.8 476
	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

Spray Dimensions

Pressure				Width						Max. Depth feet/m
Air PSI/ BAR		Liquid PSI/ BAR		A		B		C		
				in	cm	in	cm	in	cm	
10	0.7	5	0.3	8.0	20.3	11.0	27.9	14.0	35.6	9 2.7
15	1.0	10	0.7	9.0	22.9	12.0	30.5	17.0	43.2	11 3.4
20	1.4	20	1.4	9.3	23.6	14.0	35.6	19.0	48.3	11 3.4
25	1.7	30	2.1	11.0	27.9	15.0	38.1	20.0	50.8	13 4.0
25	1.7	40	2.8	11.0	27.9	15.0	38.1	21.0	53.3	14 4.3
8	0.6	5	0.3	11.0	27.9	16.0	40.6	19.0	48.3	8 2.4
15	1.0	20	1.4	11.0	27.9	16.0	40.6	21.0	53.3	11 3.4
20	1.4	20	1.4	12.0	30.5	17.0	43.2	22.0	55.9	12 3.7
25	1.7	30	2.1	13.0	33.0	18.0	45.7	24.0	61.0	12 3.7
30	2.1	40	2.8	13.0	33.0	19.0	48.3	24.0	61.0	14 4.3
15	1.0	3	0.2	11.0	27.9	17.0	43.2	21.0	53.3	13 4.0
25	1.7	10	0.7	12.0	30.5	18.0	45.7	23.0	58.4	16 4.9
45	3.1	20	1.4	13.0	33.0	19.0	48.3	24.0	61.0	21 6.4
60	4.1	30	2.1	14.0	35.6	18.0	45.7	24.0	61.0	26 7.9
70	4.8	40	2.8	14.0	35.6	18.0	45.7	24.0	61.0	30 9.1
30	2.1	5	0.3	13.0	33.0	19.0	48.3	24.0	61.0	17 5.2
45	3.1	20	1.4	14.0	35.6	20.0	50.8	26.0	66.0	19 5.8
65	4.5	20	1.4	15.0	38.1	21.0	53.3	27.0	68.6	23 7.0
80	5.5	20	1.4	15.0	38.1	22.0	55.9	28.0	71.1	26 7.9
90	6.2	40	2.8	16.0	40.6	22.0	55.9	28.0	71.1	26 7.9

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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

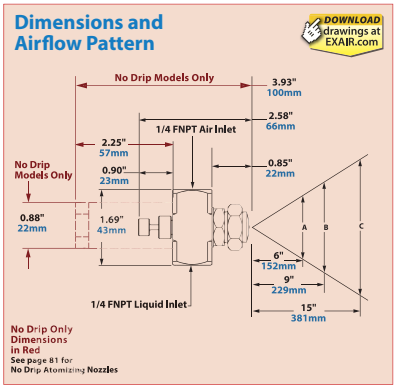
Model: SR1040SS
Material: Type 303 Stainless Steel

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.



For more information about droplet size and spray angle, see page 84.

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

Liquid Flow in GPH/LPH

Spray Dimensions at 8" (20cm) Siphon Height

Air Pressure PSI/BAR		Width A in	A cm	B in	B cm	C in	C cm	Max. Depth feet/m	
10	0.7	2.5	6	4.0	10	5.8	15	7	2.1
20	1.4	3.3	8	4.3	11	6.0	15	9	2.7
40	2.8	3.8	10	5.0	13	6.8	17	10	3.0
60	4.1	3.8	10	5.0	13	6.8	17	11	3.4
10	0.7	3.3	8	4.8	12	6.8	17	9	2.7
20	1.4	3.5	9	5.0	13	7.0	18	11	3.4
40	2.8	3.8	10	5.5	14	7.5	19	14	4.3
60	4.1	4.0	10	5.8	15	8.0	20	16	4.9
20	1.4	3.5	9	5.0	13	7.0	18	12	3.7
40	2.8	3.8	10	5.3	13	7.5	19	13	4.0
60	4.1	3.8	10	5.5	14	8.0	20	15	4.6
80	5.5	4.0	10	5.8	15	8.3	21	18	5.5
30	2.1	4.8	12	6.5	17	8.8	22	19	5.8
40	2.8	5.2	13	7.0	18	9.3	24	21	6.4
60	4.1	5.5	14	7.5	19	9.8	25	24	7.3
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

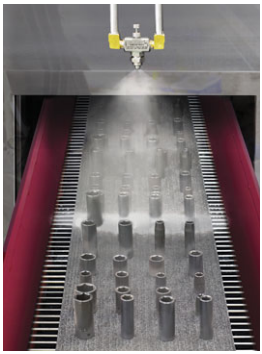
Model: SF1020SS
Material: Type 303 Stainless Steel

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.

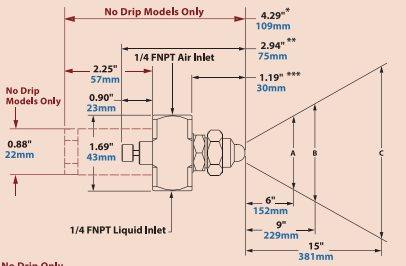
Siphon or gravity fed for non-pressurized applications.



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

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red
See page 81 for No Drip Atomizing Nozzles

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

For more information about droplet size and spray angle, see page 84.

Model	Air Pressure PSI/BAR		Air SCFM/SLPM		Liquid Flow in GPH/LPH: Gravity Head 18"	46cm	12"	30cm	6"	15cm	Siphon Height 4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm
SF1010SS	10	0.7	0.9	25.5	0.4	1.5	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.1	0.4
	20	1.4	1.3	36.8	0.4	1.5	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8
	30	2.1	1.7	48.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	---	---	---	---	---	---
SF1020SS	20	1.4	2.3	65.1	1.2	4.5	1.1	4.2	1.0	3.8	0.9	3.4	0.8	3.0	0.8	3.0	0.6	2.3	0.5	1.9
	30	2.1	2.9	82.1	1.1	4.2	1.1	4.2	1.0	3.8	0.8	3.0	0.8	3.0	0.8	3.0	0.6	2.3	0.5	1.9
	40	2.8	3.5	99.1	1.0	3.8	0.9	3.4	0.8	3.0	0.7	2.6	0.7	2.6	0.7	2.6	0.5	1.9	0.4	1.5
	50	3.4	4.3	122	0.8	3.0	0.7	2.6	0.5	1.9	0.5	1.9	0.4	1.5	0.3	1.1	---	---	---	---
SF1030SS	20	1.4	2.2	62.3	1.8	6.8	1.6	6.1	1.5	5.7	1.4	5.3	1.4	5.3	1.3	4.9	1.1	4.2	1.0	3.8
	30	2.1	2.8	79.2	1.9	7.2	1.8	6.8	1.8	6.8	1.7	6.4	1.7	6.4	1.6	6.1	1.4	5.3	1.2	4.5
	40	2.8	3.3	93.4	1.8	6.8	1.8	6.8	1.7	6.4	1.6	6.1	1.6	6.1	1.5	5.7	1.3	4.9	1.2	4.5
	50	3.4	4.0	113	1.6	6.1	1.5	5.7	1.4	5.3	1.4	5.3	1.3	4.9	1.3	4.9	1.1	4.2	1.0	3.8

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

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Internal Mix Narrow Angle Round Pattern - 1/2 NPT

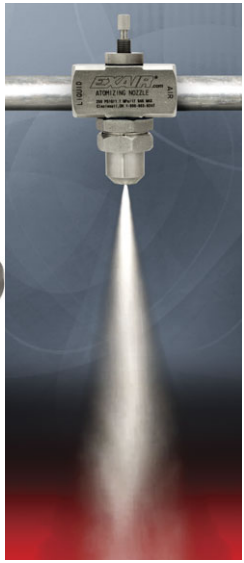
Model: AN5010SS
Material: Type 303 Stainless Steel

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.

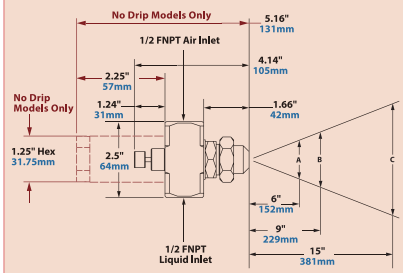


With adjustable liquid flow, these nozzles can be used to apply a heavy coat or a precise volume of liquid.

For more information about droplet size and spray angle see page 84.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



For more information about droplet size and spray angle, see page 84.

Spray Dimensions

Model	Pressure Air PSI/BAR	Pressure Liquid PSI/BAR	Width A in	Width A cm	Width B in	Width B cm	Width C in	Width C cm	Max. Depth feet/m
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

Model	5 PSI/0.3 BAR Liquid						15 PSI/1.0 BAR Liquid						25 PSI/1.7 BAR Liquid						35 PSI/2.4 BAR Liquid						55 PSI/3.8 BAR Liquid					
	Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/ SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	
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
Material: Type 303 Stainless Steel

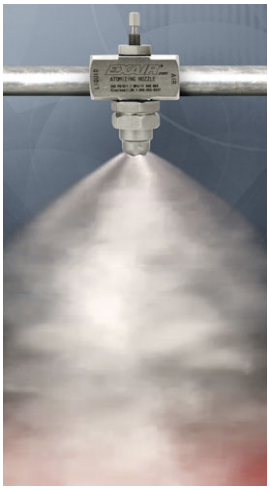
Model: AW5020SS
Material: Type 303 Stainless Steel

Model: AW5030SS
Material: Type 303 Stainless Steel

Model AW5010SS, AW5020SS and AW5030SS

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

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



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

Dimensions and Airflow Pattern

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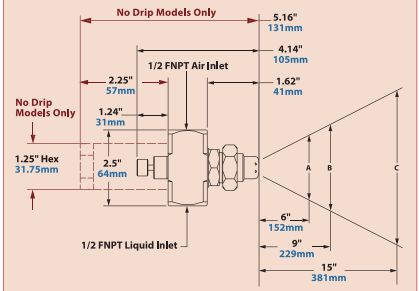

No Drip Only Dimensions in Red
See page 81 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 84.

Model	5 PSI/0.3 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	15 PSI/1.0 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	25 PSI/1.7 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	35 PSI/2.4 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	55 PSI/3.8 BAR Liquid: Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Spray Dimensions: Pressure: Air PSI/BAR	Pressure: Liquid PSI/BAR	Width: A in	Width: A cm	Width: B in	Width: B cm	Width: C in	Width: C cm	Max. Depth feet/m
AW5010SS	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	28 1.9	33 125	7.6 215	40 2.8	28.8 109	11.0 312	58 4.0	66 250	11.7 331	30 2.1	25 1.7	12.5	31.8	18	46	26	66	18 5.5
	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	30 2.1	20.4 77	10.0 283	42 2.9	18 68	13.3 377	60 4.1	49 185	13.4 379	40 2.8	35 2.4	13	33.0	19	48	26	66	20 6.1
	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	62 4.3	36 136	16.8 476	60 4.1	55 3.8	14	35.6	19	48	26.5	67	22 6.7
AW5020SS	10 0.69	32 121	12.0 340	26 1.8	36.8 139	21.8 617	40 2.8	60.6 229	29.9 847	54 3.7	70 265	37.4 1059	75 5.2	115 435	45.6 1291	12 0.8	5 0.3	15	38.1	19.5	50	25	64	22 6.7
	12 0.83	20.4 77	14.5 411	30 2.1	28.8 109	25.6 725	44 3.0	40.8 154	33.5 949	58 4.0	49.2 186	41.2 1167	80 5.5	94 356	50.2 1422	46 3.2	25 1.7	16	40.6	20	51	25	64	35 10.7
	14 0.97	13.2 50	16.2 459	32 2.2	21 79	27.7 784	48 3.3	26.4 100	38.2 1082	62 4.3	36 136	44.7 1266	--- ---	--- ---	--- ---	60 4.1	35 2.4	15	38.1	18	46	22	56	40 12.2
	--- ---	--- ---	--- ---	34 2.3	15.6 59	29.6 838	50 3.4	20.4 77	39.1 1107	65 4.5	27 102	46.9 1328	--- ---	--- ---	--- ---	80 5.5	55 3.8	13	33.0	17	43	20.5	52	45 13.7
AW5030SS	10 0.69	31.2 118	12.8 362	18 1.2	112 424	14.6 413	26 1.8	180 681	17.0 481	36 2.5	210 795	21.2 600	54 3.7	264 999	28.2 799	10 0.7	5 0.3	16	40.6	21	53	31	79	20 6.1
	12 0.83	18.6 70	15.15 429	20 1.4	87 329	16.5 467	30 2.1	138 522	20.6 583	40 2.8	177 670	25.0 708	62 4.3	216 818	36.0 1020	20 1.4	15 1.0	16	40.6	20.5	52	27	69	22 6.7
	--- ---	--- ---	--- ---	22 1.5	72 273	18.5 524	36 2.5	83.4 316	26.7 756	48 3.3	102 386	32.5 920	70 4.8	150 568	42.4 1201	44 3.0	35 2.4	13	33.0	17	43	22	56	35 10.7
	--- ---	--- ---	--- ---	24 1.7	60 227	20.4 578	40 2.8	61.2 232	31.0 878	52 3.6	82.2 311	36.7 1039	76 5.2	111 420	48.1 1362	64 4.4	55 3.8	13.5	34.3	17	43	22	56	44 13.4

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Internal Mix Flat Fan Pattern - 1/2 NPT

Model: AF5010SS
Material: Type 303 Stainless Steel

Model: AF5020SS
Material: Type 303 Stainless Steel

Model AF5010SS and AF5020SS

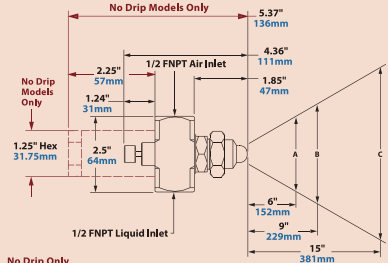
1/2 NPT internal mix flat fan pattern atomizing nozzles are designed with efficiency in mind. Especially good for vertical or horizontal assembly lines, the broad thin pattern of these larger atomizing nozzles makes efficient use of your expensive liquids. Their output can be adjusted for a very light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

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

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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



For more information about droplet size and spray angle, see page 84.

Need Help Choosing The Best Atomizing Nozzle For Your Application?

Not sure which atomizing nozzle is required?

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

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

Spray Dimensions

Model	Pressure: Air PSI/BAR	Pressure: Liquid PSI/BAR	Width: A in	Width: A cm	Width: B in	Width: B cm	Width: C in	Width: C cm	Max. Depth feet/m	
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	15	1.0	34	86	42	107	52	132	15	4.6
	44	3.0	35	2.4	39	99	47	119	64	163	19	5.8
	64	4.4	55	3.8	40	102	50	127	68	173	20	6.1

Model	5 PSI/0.3 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		15 PSI/1.0 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		25 PSI/1.7 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		35 PSI/2.4 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM		55 PSI/3.8 BAR Liquid: Air Pressure PSI/BAR		GPH/LPH		SCFM/SLPM	
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	17.9	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

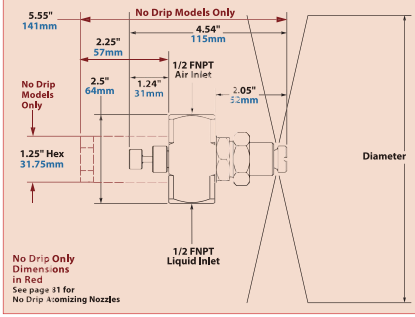
Model AT5010SS

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.

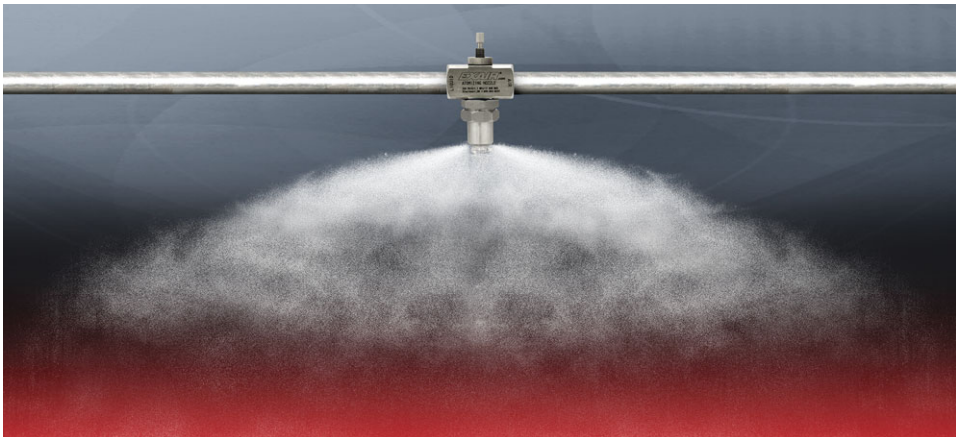
For pressure fed applications not requiring independent air and liquid control.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



For more information about droplet size and spray angle, see page 84.



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

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

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

Model: EF5010SS
Material: Type 303 Stainless Steel

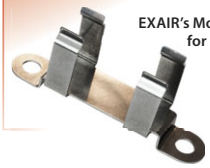
Model EF5010SS

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.

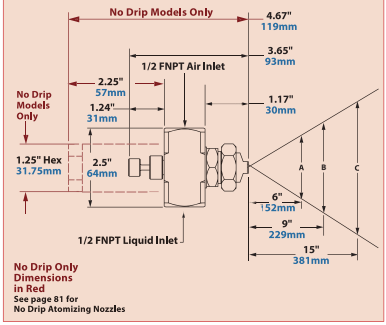
Mounting Brackets For Your Atomizing System



EXAIR's Model 901556 Mounting Bracket allows for easy positioning of all EXAIR 1/2 NPT Atomizing Nozzles.

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



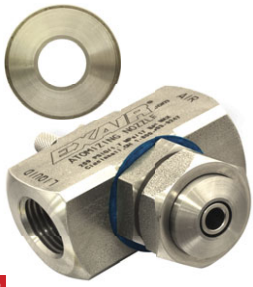
For more information about droplet size and spray angle, see page 84.

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										Max. Depth feet/m
	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: Air PSI/ BAR	Pressure: Liquid PSI/ BAR	Width: A in	Width: A cm	Width: B in	Width: B cm	Width: C in	Width: C cm			
EF5010SS	30	2.1	141	534	40	2.8	186	704	45	3.1	218	825	55	3.8	264	999	80	5.5	303	1147	35	2.4	3	0.2	15	38	18.5	47	22	56	25	7.6
	35	2.4			45	3.1			55	3.8			60	4.1			85	5.9			50	3.4	5	0.3	15	38	19	48	23	58	31	9.4
	40	2.8			55	3.8			60	4.1			70	4.8			90	6.2			70	4.8	10	0.7	15	38	20	51	25	64	33	10.1
	45	3.1			60	4.1			70	4.8			80	5.5			100	6.9			90	6.2	15	1.0	15	38	20	51	25	64	35	10.7

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			
	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
EF5010SS	30	2.1	141	30.2 854	40	2.8	186	36.6 1037	45	3.1	218	39.9 1130	55	3.8	264	46.4 1314	80	5.5	303	56.0 1586
	35	2.4		34.0 961	45	3.1		40.4 1144	55	3.8		47.0 1331	60	4.1		49.75 1409	85	5.9		60.0 1699
	40	2.8		37.3 1055	55	3.8		47.4 1342	60	4.1		49.5 1402	70	4.8		52.84 1496	90	6.2		61.4 1739
	45	3.1		40.8 1155	60	4.1		50.0 1416	70	4.8		56.8 1609	80	5.5		59.7 1691	100	6.9		67.6 1914

Spray Dimensions									
Pressure		Width						Max. Depth feet/m	
Air PSI/ BAR	Liquid PSI/ BAR	A in	A cm	B in	B cm	C in	C cm		
35	2.4	3	0.2	15	38	18.5	47	22	56	25	7.6
50	3.4	5	0.3	15	38	19	48	23	58	31	9.4
70	4.8	10	0.7	15	38	20	51	25	64	33	10.1
90	6.2	15	1.0	15	38	20	51	25	64	35	10.7

Siphon Fed Round Pattern - 1/2 NPT



Model: SR5010SS
Material: Type 303 Stainless Steel

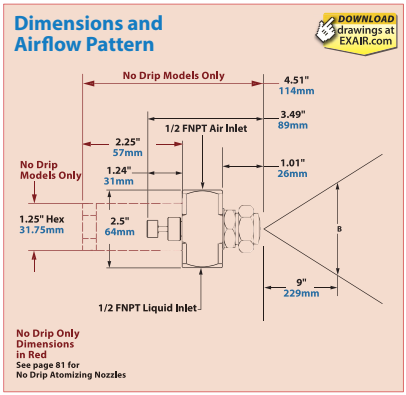
Model SR5010SS

1/2 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a heavy coating is needed at a specific area. Flow rate of these larger atomizing nozzles is adjustable via the adjusting valve. 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.

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



For more information about droplet size and spray angle, see page 84.

Model	Liquid Flow in GPH/LPH																Spray Dimensions at 8" (20cm) Siphon Height					
	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	Pressure PSI/BAR		B in	B cm	Max. Depth feet/m	
SR5010SS	20	1.4	19.3	547	---	---	---	---	---	---	22.1	84	14.3	54	---	---	---	---	20	1.4			22	6.7
	30	2.1	25.2	714	---	---	---	---	---	---	28.6	108	25.7	97	12.3	47	---	---	30	2.1			25	7.6
	40	2.8	32.8	929	---	---	56.8	215	41	155	31.5	119	28.4	107	19.6	74	---	---	40	2.8			28	8.5
	50	3.4	36.7	1039	61	231	57.4	217	42.8	162	32.1	121	30.2	114	21.8	83	---	---	50	3.4	6	15	29	8.8
	60	4.1	42.2	1195	59.1	224	57.4	217	43.8	166	33.1	125	33	125	25.7	97	9.9	37	60	4.1			31	9.4
	70	4.8	47.7	1351	66	250	58.6	222	43.8	166	35.3	134	35.3	134	29.7	112	12.5	47	70	4.8			35	10.7
	80	5.5	52.9	1498	68.3	259	59.1	224	44.5	168	44.6	169	36.9	140	31.5	119	17.5	66	80	5.5			37	11.3

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An INTELLIGENT COMPRESSED AIR® Product

No Drip 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 water 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.

Built to Last 5 yr. WARRANTY
See page 4 for complete details.

Mounting Brackets are available - 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 Atomizing Nozzles

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

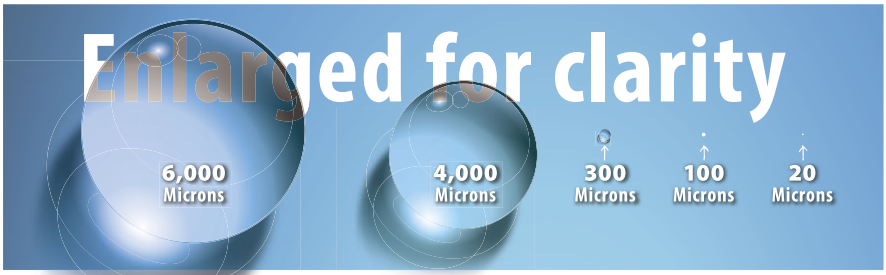
NO DRIP INTERNAL MIX ATOMIZING NOZZLES

Model	Description
No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles	
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	
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 Flat Fan Pattern Atomizing Nozzles	
AF2010SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 3.2 GPH/12.1 LPH Max, 1/4 NPT
AF2020SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 4.7 GPH/17.8 LPH Max, 1/4 NPT
AF2030SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 11.0 GPH/41.6 LPH Max, 1/4 NPT
AF2040SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 18.3 GPH/69.3 LPH Max, 1/4 NPT
AF2050SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 42.0 GPH/159 LPH Max, 1/4 NPT
AF6010SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 46.2 GPH/175 LPH Max, 1/2 NPT
AF6020SS	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 231.0 GPH/874 LPH Max, 1/2 NPT
No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles	
AD2010SS	No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles, 6.9 GPH/26 LPH Max, 1/4 NPT
No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles	
AT2010SS	No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles, 14.7 GPH/55.7 LPH Max, 1/4 NPT
AT6010SS	No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles, 150 GPH/568 LPH Max, 1/2 NPT

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

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

	Model	Description
NO DRIP EXTERNAL MIX ATOMIZING NOZZLES		**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
	EF2010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
	EF2020SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
	EF2030SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
	EF2040SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT
	EF6010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 303.0 GPH/1,147 LPH Max, 1/2 NPT
		No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles
	EB2010SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
	EB2020SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
	EB2030SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
	EB2040SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT
NO DRIP SIPHON FED ATOMIZING NOZZLES		**No Drip Siphon Fed Round Pattern Atomizing Nozzles**
	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
	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 µm = 1 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
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