

EXAIR®

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COOL



CONVEY



CLEAN



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**1" Flat Super
Air Nozzle**

27
CATALOG



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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.

Conflict Mineral Free: Look for this symbol to designate conflict mineral free products throughout our catalog. EXAIR supports Section 1502 of the



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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.



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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 and #8268179 and others may be U.S. Patent Pending.

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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.

EXAIR's 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.

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 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.

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).

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.



Model 901318 Mounting Bracket for atomizing nozzles is available.

For more information about droplet size and spray angle, see page 71.

Atomizing Nozzles

Internal Mix Narrow Angle Round Pattern



Model AN1010SS, AN1020SS, AN1030SS, and AN1040SS

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 internal mix atomizing nozzles.

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



Model: AN1010SS
Material: Type 303 Stainless Steel



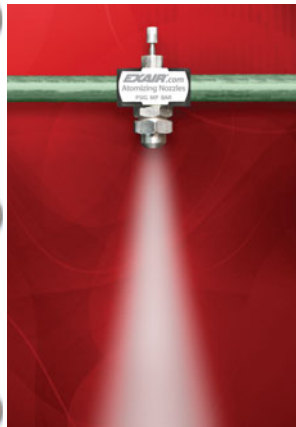
Model: AN1020SS
Material: Type 303 Stainless Steel



Model: AN1030SS
Material: Type 303 Stainless Steel

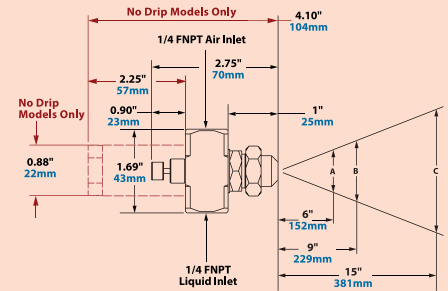


Model: AN1040SS
Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



No Drip Only Dimensions in Red See page 69 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 71.

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																						
	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	A	B	C																								
AN1010SS	10	0.7	1.4	5.3	0.6	17	18	1.2	1.8	6.8	0.9	25	24	1.7	2.3	8.7	1.0	28	30	2.1	2.7	10.2	1.2	34	40	2.8	3.3	12.5	1.5	42	12	0.8	10	0.7	2.3	6	3.8	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	34	2.3	30	2.1	3.0	8	4.3	11	6.5	17	9	2.7	
	14	1.0	1.1	4.2	0.8	23	24	1.7	1.5	5.7	1.1	31	36	2.5	1.6	6.1	1.5	42	44	3.0	1.9	7.2	1.7	48	62	4.3	2.3	8.7	2.4	68	42	2.9	40	2.8	3.5	9	4.5	11	6.5	17	10	3.0	
	---	---	---	---	---	---	---	26	1.8	1.3	4.9	1.2	34	40	2.8	1.3	4.9	1.7	48	48	3.3	1.7	6.4	2.0	57	70	4.8	1.9	7.2	2.8	79	58	4.0	60	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	24	1.7	10	0.7	2.5	6	3.5	9	5.5	14	11	3.4	
	20	1.4	2.5	9.5	3.4	96	36	2.5	2.7	10.2	5.1	144	48	3.3	3.8	14.4	6.4	181	65	4.5	3.6	13.6	8.1	229	80	5.5	6.6	25.0	8.6	244	54	3.8	26	2.0	1.4	2.8	7	4.0	10	5.5	17	12	3.7
	24	1.7	1.4	5.3	4.0	113	40	2.8	1.7	6.4	5.7	161	55	3.8	2.1	7.9	7.3	207	75	5.2	1.4	5.3	9.8	277	90	6.2	4.5	17.0	10.1	286	65	4.5	4.0	2.8	3.5	9	4.5	11	6.5	17	13	4.0	
	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	60	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	14	1.0	10	0.7	2.8	7	4.5	11	6.5	17	10	3.0	
	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	26	1.8	20	1.4	3.3	8	5.0	13	7.0	18	16	4.9	
	16	1.1	4.4	16.7	2.6	74	28	1.9	7.0	26.5	3.6	102	42	2.9	7.0	26.5	5.1	144	52	3.6	9.6	36.3	6.0	170	75	5.2	12.3	46.6	8.0	227	50	3.4	4.0	2.8	4.0	10	6.0	15	8.0	20	22	6.7	
	18	1.2	3.3	12.5	2.9	82	32	2.2	4.1	15.5	4.4	125	46	3.2	5.0	18.9	5.9	167	56	3.9	7.3	27.6	6.6	187	85	5.9	7.3	27.6	9.6	272	70	4.8	60	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	38	2.9	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	17	5.2	
	16	1.1	3.0	11.4	4.2	119	24	1.7	13.0	49.2	4.2	119	32	2.2	24.0	90.8	4.6	130	40	2.8	30.0	114	5.1	144	50	3.4	54.0	204	4.3	122	34	2.3	30	2.1	4.0	6.5	17	8.0	20	26	7.9		
	---	---	---	---	---	---	---	26	1.8	9.0	34.1	4.9	139	36	2.5	12.5	47.3	5.9	167	46	3.2	16.5	62.5	6.8	193	58	4.0	39.0	148	6.6	187	44	3.0	4.0	2.8	4.5	11	7.0	18	8.5	22	30	9.1
	---	---	---	---	---	---	---	28	1.9	5.5	20.8	5.6	159	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	60	4.1	5.0	13	7.0	18	9.0	23	35	10.7

Internal Mix Wide Angle Round Pattern



Model: AW1010SS
Material: Type 303 Stainless Steel

Model AW1010SS, AW1020SS, AW1030SS, and AW1040SS

EXAIR's 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.



Model: AW1020SS
Material: Type 303 Stainless Steel

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



Model: AW1030SS
Material: Type 303 Stainless Steel

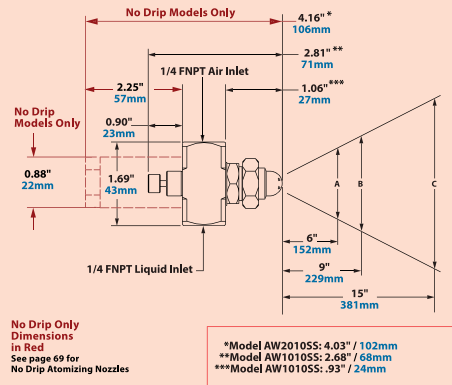


A Model AW1030SS is used to keep dust down during charcoal briquette production.



Model: AW1040SS
Material: Type 303 Stainless Steel

Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 71.

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	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/ BAR	Pressure Liquid PSI/ BAR	Width			Max. Depth feet/m																					
	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	A	B	C																							
AW1010SS	8	0.6	1.8	6.8	0.3	8	14	1.0	2.4	9.1	0.4	11	22	1.5	2.7	10.2	0.5	14	30	2.1	3.0	11.4	0.7	20	44	3.0	3.5	13.2	0.9	25	10	0.7	10	0.7	7	18	9	23	14	36	5	1.5
	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	20	1.4	20	1.4	9	23	11	28	15	38	6	1.8
	12	0.8	1.5	5.7	0.4	11	22	1.5	1.9	7.2	0.6	17	36	2.5	1.9	7.2	0.8	23	46	3.2	2.1	7.9	1.0	28	65	4.5	2.5	9.5	1.3	37	42	2.9	3.0	2.1	10	25	12	30	16	41	8	2.4
	14	1.0	1.3	4.9	0.5	14	26	1.8	1.6	6.1	0.7	20	40	2.8	1.6	6.1	0.9	25	50	3.4	1.9	7.2	1.1	31	75	5.2	2.1	7.9	1.5	42	60	4.1	60	4.1	10	25	12	30	16	41	12	3.7
AW1020SS	12	0.8	2.8	10.6	1.7	48	22	1.5	4.0	15.1	2.3	65	30	2.1	5.4	20.4	2.5	71	38	2.6	6.4	24.2	2.9	82	54	3.7	8.5	32.2	3.5	99	12	0.8	10	0.7	10	25	13	33	17	43	9	2.7
	14	1.0	1.6	6.1	2.0	57	24	1.7	3.1	11.7	2.5	71	34	2.3	3.8	14.4	3.2	91	44	3.0	4.4	16.7	3.9	110	58	4.0	7.0	26.5	4.1	116	24	1.7	20	1.4	11	28	13	33	18	46	11	3.4
	---	---	---	---	---	---	26	1.8	2.0	7.6	2.9	82	38	2.6	1.8	6.8	4.0	113	48	3.3	3.7	14.0	4.6	130	65	4.5	5.4	20.4	5.2	147	46	3.2	4.0	2.8	11	28	14	36	18	46	14	4.3
	---	---	---	---	---	---	---	---	---	---	---	---	40	2.8	0.9	3.4	4.5	127	52	3.6	1.0	3.8	5.4	153	75	5.2	1.7	6.4	7.1	201	60	4.1	60	4.1	11	28	14	36	19	48	16	4.9
AW1030SS	10	0.7	6.8	25.7	1.1	31	20	1.4	8.5	32.2	1.5	42	30	2.1	9.0	34.1	2.0	57	40	2.8	10.0	37.9	2.6	74	56	3.9	15.0	56.8	2.9	82	12	0.8	10	0.7	10	25	13	33	18	46	9	2.7
	12	0.8	4.5	17.0	1.4	40	22	1.5	6.0	22.7	1.9	54	34	2.3	5.8	22.0	2.8	79	44	3.0	7.0	26.5	3.4	96	60	4.1	12.0	45.4	3.5	99	22	1.5	20	1.4	11	28	13	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	46	3.2	4.0	2.8	11	28	14	36	19	48	15	4.6
	---	---	---	---	---	---	26	1.8	2.6	9.8	2.7	76	40	2.8	1.4	5.3	4.3	122	52	3.6	1.5	5.7	5.2	147	80	5.5	0.8	3.0	7.7	218	65	4.5	60	4.1	11	28	14	36	20	51	19	5.8
AW1040SS	24	1.7	6.0	22.7	5.4	153	38	2.6	9.3	35.2	7.7	218	48	3.3	15.5	58.7	8.4	238	60	4.1	19.3	73.1	10.3	292	85	5.9	24.0	91.0	13.8	391	28	1.9	10	0.7	10	25	14	36	16	41	16	4.9
	28	1.9	4.0	15.1	6.1	173	44	3.0	5.5	20.8	9.1	258	56	3.9	9.0	34.1	10.6	300	70	4.8	12.0	45.4	12.8	362	90	6.2	21.3	80.6	15.2	430	46	3.2	2.0	1.4	11	28	14	36	18	46	18	5.5
	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	75	5.2	4.0	2.8	12	30	16	41	22	56	24	7.3
	32	2.2	2.0	7.6	7.3	207	52	3.6	1.9	7.2	10.8	306	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	90	6.2	4.0	12	30	16	41	23	58	25	7.6	

Atomizing Nozzles

Internal Mix Flat Fan Pattern



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

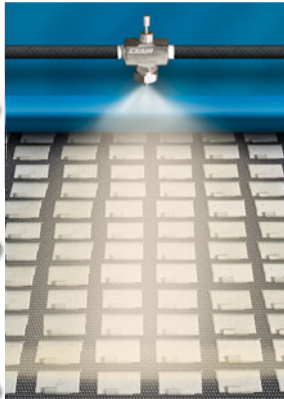


Model: AF1050SS
Material: Type 303 Stainless Steel

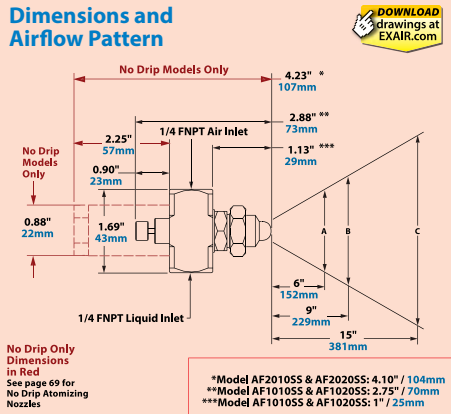
Model AF1010SS, AF1020SS, AF1030SS, AF1040SS, and AF1050SS

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.



For more information about droplet size and spray angle, see page 71.

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	in	cm	in	cm		in	cm																								
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	15						
	14	1.0	1.4	5.3	0.9	25	26	1.8	1.7	6.4	1.3	37	40	2.8	1.8	6.8	1.8	51	50	3.4	2.0	7.6	2.1	59	75	5.2	2.3	8.7	3.0	85	40	2.8	3.0	2.1	12	30	14	36	20	51	6	18						
	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	85	5.9	4.0	2.8	14	36	16	41	23	58	7	21						
	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	5.9	6.0	4.1	14	36	17	43	23	58	7	21						
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	11	10	0.7	11	28	14	36	19	48	5	15						
	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	2.9	3.0	2.1	14	36	18	46	23	58	6	18						
	18	1.2	1.5	5.7	1.0	28	32	2.2	1.8	6.8	1.5	42	46	3.2	2.0	7.6	1.9	54	60	4.1	2.2	8.3	2.3	65	85	5.9	2.8	10.6	3.0	85	50	3.4	4.0	2.8	16	41	19	48	26	66	7	21						
	20	1.4	1.3	4.9	1.1	31	36	2.5	1.4	5.3	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102	80	5.5	6.0	4.1	16	41	21	53	29	74	8	24						
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	17	43	21	53	6	18				
	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	42	2.9	3.0	2.1	16	41	21	53	29	74	8	24						
	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	54	3.7	4.0	2.8	19	48	25	64	33	84	14	43						
	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	95	6.2	6.4	24.2	7.2	204	75	5.2	6.0	4.1	20	51	26	66	35	89	15	46						
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	11	10	0.7	14	36	18	46	24	61	10	30						
	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	2.2	2.0	1.4	15	38	19	48	27	69	12	37						
	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	96	3.9	4.0	2.8	20	51	25	64	34	86	15	46												
	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	5.9	6.0	4.1	21	53	27	69	36	91	15	46						
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	77.7	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	30						
	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	26	18	20	1.4	15	38	19	48	24	61	13	40						
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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Internal Mix Deflected Flat Fan Pattern



Model: AD1010SS
Material: Type 303 Stainless Steel



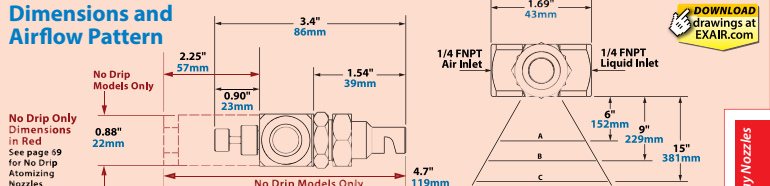
A Model AD1010SS is used to apply a protective coating to wood panels.

Model AD1010SS

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



DOWNLOAD drawings at EXAIR.com

Spray Nozzles

For more information about droplet size and spray angle, see page 71.

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			Max. Depth 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	Pressure																													
	Air		Liquid	Air		Liquid	Air		Liquid	Air		Liquid	Air		Liquid	Air	Liquid	Width																											
	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm																							
AD1010SS	6	0.4	3.0	11.5	1.4	41	14	1.0	4.0	15.1	2.3	66	22	1.5	4.6	17.6	3.2	90	26	1.8	5.7	21.4	3.5	98	38	2.6	6.9	26.0	4.7	133	12	0.8	10	0.7	9	23	14	11	28	13	33	16	41	42	107
	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	45	114			
	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	46	3.2	40	2.8	9	23	12	30	15	38	48	122			
	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



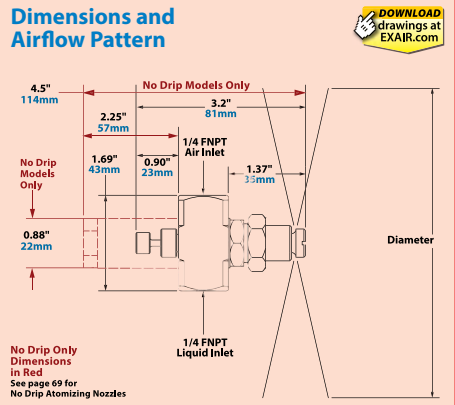
Model: AT1010SS
Material: Type 303 Stainless Steel

Model AT1010SS

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

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

Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com

For more information about droplet size and spray angle, see page 71.

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		Liquid	Air		Liquid	Air		Liquid	Air		Liquid	Air		Liquid	Air	Liquid																			
	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm																		
AT1010SS	20	1.4	4.5	16.8	4.3	121	34	2.3	7.3	27.5	6.4	182	50	3.4	8.1	30.6	8.9	251	60	4.1	11.5	43.5	10.0	283	85	5.9	14.7	55.7	13.3	376	20	1.4	10	0.7	36	91
	24	1.7	2.6	9.7	5.3	150	38	2.6	5.2	19.6	7.3	206	56	3.9	5.4	20.3	10.0	285	70	4.8	7.1	26.8	11.8	335	90	6.2	12.7	47.9	14.1	398	34	2.3	20	1.4	39	99
	26	1.8	2.0	7.5	5.7	162	42	2.9	3.6	13.5	8.2	231	60	4.1	4.2	15.7	10.7	303	80	5.5	4.1	15.4	13.5	383	95	6.6	10.6	40.2	14.9	423	60	4.1	40	2.8	49	124
	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	85	5.9	60	4.1	53	135

Atomizing Nozzles

External Mix Round Pattern



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

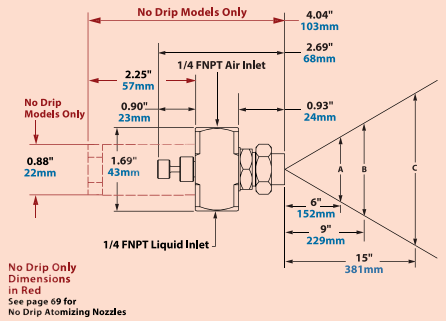
External mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern. Applications include spot treatments of parts, covering irregularly shaped objects or covering a container of parts with a heavy coat. They are also an 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 71.

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions			Max. Depth feet/m																						
	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Pressure																									
	Air Pressure PSI/ BAR		GPH/ LPH		Air Pressure PSI/ BAR		GPH/ LPH		Air Pressure PSI/ BAR		GPH/ LPH		Air Pressure PSI/ BAR		GPH/ LPH		Air PSI/ BAR	Liquid PSI/ BAR		A	B	C																			
ER1010SS	5	0.3		0.9	25.5		5	0.3	0.9	25.5	10	0.7	1.3	36.8	20	1.4	1.9	53.8	20	1.4	1.9	53.8	10	0.7	3	0.2	3.0	76	4.3	10.9	6.3	16.0	9	2.7							
	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	5	0.3	3.3	8.4	4.5	11.4	6.8	17.3	11	3.4							
	20	1.4		1.9	53.8		30	2.1	2.4	68.0	40	2.8	3.0	85.0	60	4.1	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	3.5	8.9	5.3	13.5	7.5	19.1	13	4.0							
	40	2.8	1.0	3.8	3.0	85.0	50	3.4	3.5	99.1	60	4.1	4.1	116	90	6.2	5.7	161	60	4.1	4.1	116	60	4.1	40	2.8	4.0	10.2	5.5	14.0	8.0	20.3	15	4.6							
ER1020SS	6	0.4		0.9	25.5		10	0.7	1.3	36.8	10	0.7	1.3	36.8	20	1.4	2.9	82.1	40	2.8	3.0	85.0	10	0.7	3	0.2	3.8	9.7	5.0	12.7	7.5	19.1	10	3.0							
	10	0.7		1.3	36.8		20	1.4	1.8	51.0	20	1.4	1.9	53.8	40	2.8	3.1	87.8	60	4.1	4.1	116	20	1.4	5	0.3	4.0	10.2	5.8	14.7	7.0	17.8	12	3.7							
	30	2.1	2.5	9.5	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	5.7	161	40	2.8	10	0.7	4.3	10.9	6.0	15.2	8.3	21.1	15	4.6							
	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	60	4.1	40	2.8	5.0	12.7	6.5	16.5	8.5	21.6	16	4.9								
ER1030SS	10	0.7		4.0	113		10	0.7	4.0	113	15	1.0	4.9	139	30	2.1	7.7	218	40	2.8	9.5	269	10	0.7	3	0.2	4.3	10.9	6.0	15.2	8.8	22.4	13	4.0							
	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	20	1.4	5	0.3	4.5	11.4	6.5	16.5	8.5	21.6	23	7.0							
	40	2.8	4.4	16.7	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	40	2.8	10	0.7	4.8	12.2	6.8	17.3	9.0	22.9	24	7.3							
	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	60	4.1	20	1.4	4.5	11.4	6.8	17.3	9.0	22.9	28	8.1								
ER1040SS	15	1.0		4.9	139		20	1.4	6.0	170	30	2.1	7.7	218	40	2.8	9.5	269	50	3.4	11.2	317	60	4.1	20	1.4	4.5	11.4	6.8	17.3	9.0	22.9	24	7.3							
	30	2.1	10.0	37.9	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	60	4.1	10	0.7	4.8	12.2	6.8	17.3	9.0	22.9	24	7.3							
	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	80	5.5	15.3	433	80	5.5	15.3	433	60	4.1	20	1.4	4.5	11.4	6.8	17.3	9.0	22.9	24	7.3
	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	60	4.1	10	0.7	4.8	12.2	6.8	17.3	9.0	22.9	24	7.3								
ER1050SS	40	2.8		14.0	396	55	3.8	18.0	510	65	4.5	21.0	595	80	5.5	25.3	716	--	--	--	--	80	5.5	40	2.8	4.5	11.4	6.5	16.5	9.5	24.1	30	9.1								
	50	3.4	18.0	68.1	16.8	470	65	4.5	21.0	595	70	4.8	22.3	631	90	6.2	27.9	790	--	--	--	--	80	5.5	0.3	6.5	16.5	9.0	22.9	11.0	25.4	28	8.5								
	60	4.1		19.7	558	70	4.8	22.3	631	80	5.5	25.3	716	--	--	--	--	--	--	--	--	90	6.2	10	0.7	6.5	16.5	9.0	22.9	11.0	25.4	30	9.1								
	65	4.5		21.0	595	80	5.5	25.3	716	90	6.2	27.9	790	--	--	--	--	--	--	--	--	90	6.2	20	1.4	6.0	15.2	8.0	20.3	11.0	27.9	32	9.8								

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

External Mix Narrow Angle Flat Fan Pattern



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

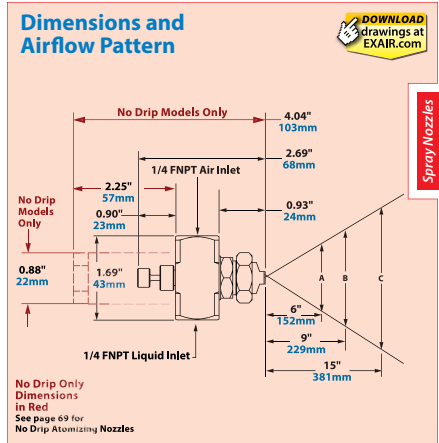
Model EF1010SS, EF1020SS, EF1030SS and EF1040SS

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.



For more information about droplet size and spray angle, see page 71.

Model	3 PSI/0.2 BAR Liquid				5 PSI/0.3 BAR Liquid				10 PSI/0.7 BAR Liquid				20 PSI/1.4 BAR Liquid				40 PSI/2.8 BAR Liquid				Spray Dimensions																							
	Air Pressure PSI/ BAR		GPH/ LPH		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		Width A B C			Max. Depth feet/m																		
	PSI	BAR	GPH	LPH	PSI	BAR	GPH	LPH	PSI	BAR	GPH	LPH	PSI	BAR	GPH	LPH	PSI	BAR	PSI	BAR	in	cm	in	cm	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			2.7	76.5	5	0.3	3	0.2	4.0	10.2	5.8	14.7	9.5	24.1	6	1.8				
	10	0.7			1.0	28.3	20	1.4	1.5	42.5	25	1.7			1.8	51.0	40	2.8			2.5	70.8	60	4.1			3.4	96.3	25	1.7	5	0.3	5.5	14.0	8.0	20.3	10.0	25.4	14	4.3				
	20	1.4			1.5	42.5	30	2.1	2.0	56.6	40	2.8			2.5	70.8	60	4.1			3.4	96.3	90	6.2			4.7	133	95	6.5			5.1	144	7.5	5.2	4.0	2.8	6.5	16.5	9.5	24.1	13.0	33.0
	40	2.8			2.5	70.8	50	3.4	2.9	82.1	60	4.1			3.4	96.3	90	6.2			4.7	133	95	6.5			5.1	144	95	6.5			5.1	144	7.5	5.2	4.0	2.8	6.5	16.5	9.5	24.1	13.0	33.0
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			2.9	82.1	10	0.7	3	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7				
	20	1.4			1.5	42.5	25	1.7	1.8	51.0	30	2.1			2.0	56.6	50	3.4			2.2	62.3	60	4.1			3.4	96.3	30	2.1	5	0.3	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3				
	30	2.1			2.0	56.6	40	2.8	2.5	70.8	50	3.4			2.9	82.1	70	4.8			3.8	108	80	5.5			4.3	122	60	4.1	2.0	1.4	7.5	19.1	11.5	29.2	18.0	45.7	20	6.1				
	50	3.4			2.9	82.1	60	4.1	3.4	96.3	70	4.8			3.8	108	90	6.2			4.7	133	100	6.9			5.2	147	7.5	5.2	4.0	2.8	7.5	19.1	12.0	30.5	17.0	43.2	22	6.7				
EF1030SS	10	0.7			3.5	99.1	20	1.4	5.3	150	25	1.7			6.1	173	40	2.8			8.4	238	50	3.4			10.0	283	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			7.6	215	50	3.4			10.0	283	60	4.1			11.5	326	30	2.1	5	0.3	6.8	17.3	9.0	22.9	12.0	30.5	20	6.1				
	30	2.1			6.9	195	40	2.8	8.4	238	50	3.4			10.0	283	70	4.8			12.7	360	80	5.5			13.7	388	60	4.1	2.0	1.4	7.5	19.1	11.5	29.2	18.0	45.7	20	6.1				
	50	3.4			10.0	283	60	4.1	11.5	326	70	4.8			12.7	360	90	6.2			14.8	419	95	6.5			15.1	428	7.5	5.2	4.0	2.8	7.5	19.1	12.0	30.5	17.0	43.2	22	6.7				
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			10.7	303	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			12.2	345	30	2.1	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			13.7	388	50	3.4	2.0	1.4	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			16.2	459	80	5.5	4.0	2.8	7.5	19.1	12.0	30.5	16.0	40.6	25	7.6				

Atomizing Nozzles

External Mix Wide Angle Flat Fan Pattern



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

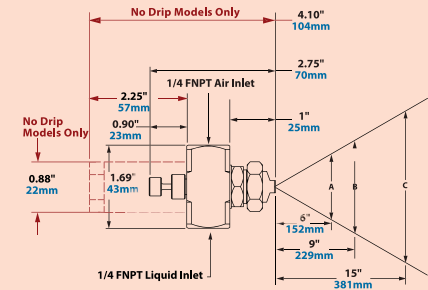
External mix wide angle flat fan pattern nozzles are great where a high volume of liquid is needed over a wide area such as a conveyor line. Because they are external mix, airflow and liquid flow can be controlled independently. Common applications are those which require a moderate application of liquid 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 69 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 71.

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions																					
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure			Width			Max. Depth feet/m															
	Air PSI/BAR	Liquid PSI/BAR	A	B	C																																
EB1010SS	5	0.3		0.9	25.5		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	15	1.0	0.7	9.0	22.9	12.0	30.5	17.0	43.2	11	3.4		
	8	0.6	1.0	3.8	1.1	31.1	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	20	1.4	1.4	9.3	23.6	14.0	35.6	19.0	48.3	11	3.4		
	10	0.7			1.3	36.8			1.7	48.1			2.0	56.6	30	2.1		2.6	73.6	30	2.1		3.0	85.0	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			2.0	56.6			2.6	73.6	35	2.4		3.0	85.0	35	2.4		3.0	85.0	25	1.7	4.0	2.8	11.0	27.9	15.0	38.1	21.0	53.3	14	4.3	
EB1020SS	6	0.4			1.0	28.3	6	0.4	1.1	31.1	8	0.6		1.0	28.3		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	10	0.7	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	2.0	1.4	11.0	27.9	16.0	40.6	21.0	53.3	11	3.4	
	8	0.6			1.1	31.1	9	0.6	1.2	34.0	10	0.7	4.3	16.3	1.3	36.8	15	1.0	1.7	48.1	30	2.1		2.6	74.0	25	1.7	3.0	2.1	13.0	33.0	18.0	45.7	24.0	61.0	12	3.7
	10	0.7			1.3	36.8			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	30	2.1	4.0	2.8	13.0	33.0	19.0	48.3	24.0	61.0	14	4.3
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		11.0	311	15	1.0	3	0.2	11.0	27.9	17.0	43.2	21.0	53.3	13	4.0	
	10	0.7			4.8	136	10	0.7	5.9	167	25	1.7		6.7	190	45	3.1	10.1	286	65	4.5		12.3	348	20	1.4	2.0	1.4	13.0	33.0	19.0	48.3	24.0	61.0	16	4.9	
	20	1.4	4.4	16.7	5.9	167	25	1.7	6.7	190	35	2.4	7.6	288	8.4	238	55	3.8	11.7	331	85	5.9		15.7	445	60	4.1	3.0	2.1	14.0	35.6	18.0	45.7	24.0	61.0	21	6.4
	25	1.7			6.7	190	30	2.1	7.6	215	40	2.8			9.3	263	60	4.1	12.0	340	95	6.5		16.8	476	70	4.8	4.0	2.8	14.0	35.6	18.0	45.7	24.0	61.0	30	9.1
EB1040SS	10	0.7			3.8	108	15	1.0	4.8	136	25	1.7		6.7	190	45	3.1	10.1	286	75	5.2		13.7	388	30	2.1	5	0.3	13.0	33.0	19.0	48.3	24.0	61.0	17	5.2	
	15	1.0			4.8	136	20	1.4	5.9	167	30	2.1		7.6	215	50	3.4	11.0	311	85	5.9		15.7	445	45	3.1	2.0	1.4	14.0	35.6	20.0	50.8	26.0	66.0	19	5.8	
	20	1.4	10.0	37.9	5.9	167	30	2.1	7.6	215	40	2.8	18.8	71.2	9.3	263	70	4.8	13.4	379	95	6.5		16.8	476	80	5.5	2.0	1.4	15.0	38.1	21.0	53.3	27.0	68.6	23	7.0
	25	1.7			6.7	190	35	2.4	8.4	238	45	3.1			10.1	286	80	5.5	14.8	419	100	6.9		18.3	518	90	6.2	4.0	2.8	16.0	40.6	22.0	55.9	28.0	71.1	26	7.9

Siphon Fed Round Pattern



Model SR1010SS, SR1020SS, SR1030SS and SR1040SS

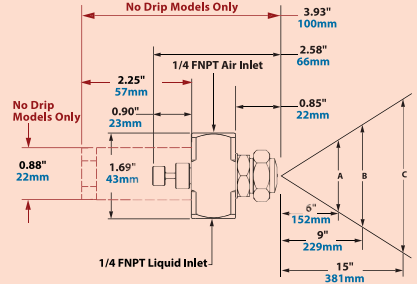
Siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" or less. Since these nozzles are siphon fed, the compressed airflow 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 69 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 71.

Spray Nozzles

DOWNLOAD drawings at EXAIR.com

Liquid Flow in GPH/LPH														Spray Dimensions at 8" Siphon Height																
Model	Air				Gravity Head					Siphon Height					Air Pressure PSI/BAR	Width						Max. Depth feet/cm								
	Pressure PSI/BAR	SCFM/SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm		24"	61cm	36"	91cm	A in	Cm		B in	Cm	C in	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	---	---	---	---	---	10	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	0.3	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	4.2	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

Atomizing Nozzles

Siphon Fed Flat Fan Pattern



Model: SF1010SS
Material: Type 303 Stainless Steel

Model SF1010SS, SF1020SS and SF1030SS

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" or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed flat fan pattern nozzles are the best choice where liquid is needed over a broad band such as a moving assembly line.

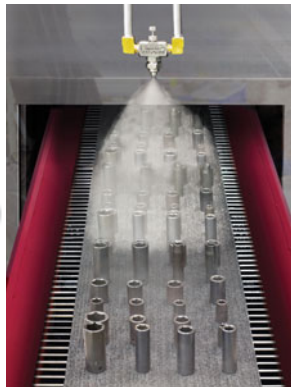


Model: SF1020SS
Material: Type 303 Stainless Steel

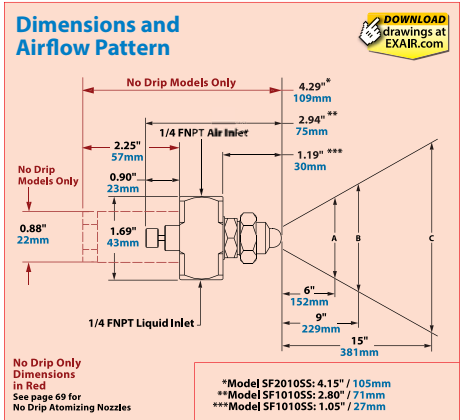
Siphon or gravity fed for non-pressurized applications.



Model: SF1030SS
Material: Type 303 Stainless Steel



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



For more information about droplet size and spray angle, see page 71.

Liquid Flow in GPH/LPH

Spray Dimensions at 8" Siphon Height

Model	Air		Gravity Head						Siphon Height						Air Pressure PSI/BAR	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	A	B	C							
SF1010SS	10	0.7	0.9	25.5	0.4	1.5	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	0.2	0.8	0.1	0.4	10	0.7	9	23	11	28	13	33	5	1.5		
	20	1.4	1.3	36.8	0.4	1.5	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	20	1.4	10	25	12	30	14	36	6	1.8		
	30	2.1	1.7	48.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	---	---	---	---	30	2.1	11	28	13	33	15	38	7	2.1		
SF1020SS	20	1.4	2.3	65.1	1.2	4.5	1.1	4.2	1.0	3.8	0.9	3.4	0.8	3.0	0.8	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
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	20	1.4	9	23	11	28	15	38	8	2.4
	30	2.1	2.8	79.2	1.9	7.2	1.8	6.8	1.8	6.8	1.7	6.4	1.7	6.4	1.6	6.1	1.4	5.3	1.2	4.5	30	2.1	10	25	13	33	17	43	9	2.7
	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



No Drip Atomizing Nozzles



No Drip Atomizing Spray Nozzles

All stainless steel construction for durability and corrosion resistance!



What Are No Drip Atomizing Nozzles?

EXAIR's no drip atomizing spray nozzles (patent pending) 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.**

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 4).

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.

Spray Nozzles



See page 2 for complete details.



Model 901318 Mounting Bracket for atomizing nozzles is available.

Applications

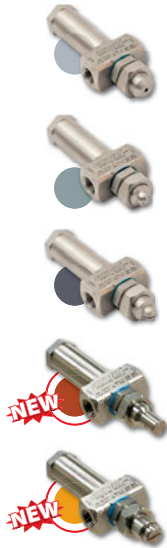
- Painting
- Coating
- Rinsing
- Cooling
- Quenching
- Wetting (moistening)
- Humidification
- Dust Control

Advantages

- No post spray drip
- Fully 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.



Spray Nozzles

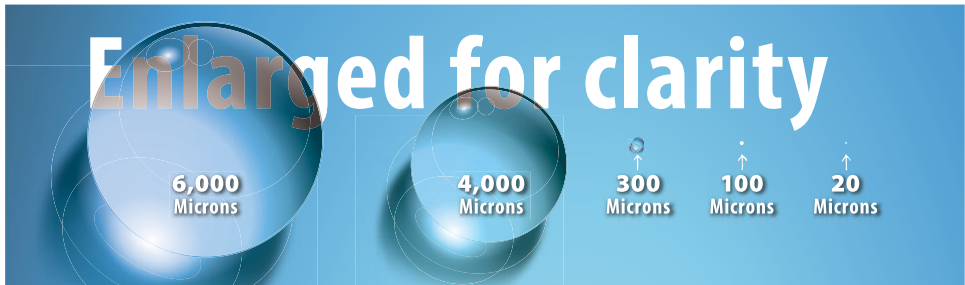
No Drip External Mix Atomizing Nozzles are for pressure fed applications with independent air and liquid control.



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



Model	Description
No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles	
AN2010SS	No Drip Internal Mix Narrow Angle Round Pattern, 3.3 GPH/12.5 LPH Max
AN2020SS	No Drip Internal Mix Narrow Angle Round Pattern, 9.9 GPH/37.5 LPH Max
AN2030SS	No Drip Internal Mix Narrow Angle Round Pattern, 23.0 GPH/87.1 LPH Max
AN2040SS	No Drip Internal Mix Narrow Angle Round Pattern, 66.0 GPH/250 LPH Max
No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles	
AW2010SS	No Drip Internal Mix Wide Angle Round Pattern, 3.5 GPH/13.2 LPH Max
AW2020SS	No Drip Internal Mix Wide Angle Round Pattern, 8.5 GPH/32.2 LPH Max
AW2030SS	No Drip Internal Mix Wide Angle Round Pattern, 15.0 GPH/56.8 LPH Max
AW2040SS	No Drip Internal Mix Wide Angle Round Pattern, 24.0 GPH/91 LPH Max
No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles	
AF2010SS	No Drip Internal Mix Flat Fan Pattern, 3.2 GPH/12.1 LPH Max
AF2020SS	No Drip Internal Mix Flat Fan Pattern, 4.7 GPH/17.8 LPH Max
AF2030SS	No Drip Internal Mix Flat Fan Pattern, 11.0 GPH/41.6 LPH Max
AF2040SS	No Drip Internal Mix Flat Fan Pattern, 18.3 GPH/69.3 LPH Max
AF2050SS	No Drip Internal Mix Flat Fan Pattern, 42.0 GPH/159 LPH Max
No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles	
AD2010SS	No Drip Internal Mix Deflected Flat Fan Pattern, 6.9 GPH/26 LPH Max
No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles	
AT2010SS	No Drip Internal Mix 360° Hollow Circular Pattern, 14.7 GPH/55.7 LPH Max
No Drip External Mix Round Pattern Atomizing Nozzles	
ER2010SS	No Drip External Mix Round Pattern, 3.8 GPH/14.4 LPH Max
ER2020SS	No Drip External Mix Round Pattern, 7.5 GPH/28.4 LPH Max
ER2030SS	No Drip External Mix Round Pattern, 14.0 GPH/53.0 LPH Max
ER2040SS	No Drip External Mix Round Pattern, 31.0 GPH/117 LPH Max
ER2050SS	No Drip External Mix Round Pattern, 60.0 GPH/227 LPH Max
No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles	
EF2010SS	No Drip External Mix Narrow Angle Flat Fan Pattern, 3.8 GPH/14.4 LPH Max
EF2020SS	No Drip External Mix Narrow Angle Flat Fan Pattern, 7.5 GPH/28.4 LPH Max
EF2030SS	No Drip External Mix Narrow Angle Flat Fan Pattern, 14.0 GPH/53.0 LPH Max
EF2040SS	No Drip External Mix Narrow Angle Flat Fan Pattern, 31.0 GPH/117 LPH Max
No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles	
EB2010SS	No Drip External Mix Wide Angle Flat Fan Pattern, 3.8 GPH/14.4 LPH Max
EB2020SS	No Drip External Mix Wide Angle Flat Fan Pattern, 7.5 GPH/28.4 LPH Max
EB2030SS	No Drip External Mix Wide Angle Flat Fan Pattern, 14.0 GPH/53.0 LPH Max
EB2040SS	No Drip External Mix Wide Angle Flat Fan Pattern, 31.0 GPH/117 LPH Max
No Drip Siphon Fed Round Pattern Atomizing Nozzles	
SR2010SS	No Drip Siphon Fed Round Pattern, 0.8 GPH/3.0 LPH Max
SR2020SS	No Drip Siphon Fed Round Pattern, 1.9 GPH/7.2 LPH Max
SR2030SS	No Drip Siphon Fed Round Pattern, 5.8 GPH/22.0 LPH Max
SR2040SS	No Drip Siphon Fed Round Pattern, 15.0 GPH/56.8 LPH Max
No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles	
SF2010SS	No Drip Siphon Fed Flat Fan Pattern, 0.4 GPH/1.5 LPH Max
SF2020SS	No Drip Siphon Fed Flat Fan Pattern, 1.2 GPH/4.5 LPH Max
SF2030SS	No Drip Siphon Fed Flat Fan Pattern, 1.9 GPH/7.2 LPH Max



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
External Mix Round Pattern - ER1010SS, ER2010SS, etc.	25	60
External Mix Narrow Angle Flat Fan Pattern - EF1010SS, EF2010SS, etc.	35	70
External Mix Wide Angle Flat Fan Pattern - EB1010SS, EB2010SS, etc.	50	105
Siphon Fed Round Pattern - SR1010SS, SR2010SS, etc.	20	50
Siphon Fed Flat Fan Pattern - SF1010SS, SF2010SS, etc.	50	100

Spray Nozzles