

Air Atomizing Spray Nozzles

All stainless steel construction for durability and corrosion resistance!

What Are Atomizing Nozzles?

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



A Model AN10105S Internal Mix Narrow Angle Round Atomizing Nozzle is used to mark strips of steel before they leave the mill.

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

Internal Mix:

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

External Mix:

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

Siphon Fed:

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



A Model SR10105S is used to supply a cooling mist for a drilling operation.

Why Atomizing Nozzles?

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

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



(2) Model EB10305S atomizing nozzles are used to give a final sanitary rinse prior to labeling wine bottles.



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

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

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

Air Atomizing Spray Nozzles



Internal Mix Narrow Angle Round Pattern - 1/8 NPT

Model AN8010SS, AN8020SS, AN8030SS, AN8040SS and AN8050SS

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

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

Model: AN8010SS

Material: Type 303 Stainless Steel

Model: AN8020SS

Material: Type 303 Stainless Steel

Model: AN8030SS

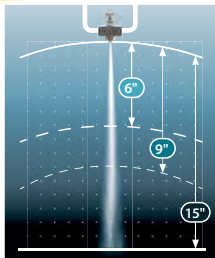
Material: Type 303 Stainless Steel

Model: AN8040SS

Material: Type 303 Stainless Steel

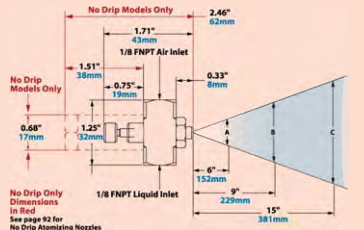
Model: AN8050SS

Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



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

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																																
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure		Width			Max. Depth feet/m																											
	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	Air PSI/BAR	Liquid PSI/BAR	A in	B in	C in																													
AN8010SS	10	07	097	37	025	71	14	10	183	69	032	91	24	17	197	75	052	147	32	22	233	84	067	190	50	34	263	100	098	277	10	07	10	07	3	8	35	9	45	11	35	13						
	12	08	080	30	032	91	18	12	15	57	039	110	28	19	17	64	059	167	36	25	197	75	074	209	54	37	237	90	102	289	18	12	20	14	3	8	4	10	5	13	5	15						
	14	10	060	23	04	113	22	15	127	48	052	147	32	22	137	52	071	201	40	28	167	63	084	238	58	40	21	79	112	317	32	22	30	21	3	8	4	10	5	14	7	21						
AN8020SS	10	07	133	50	043	122	18	12	183	69	071	201	24	17	227	86	091	258	30	21	263	100	105	297	40	28	333	126	311	371	10	07	10	07	2	5	3	8	4	10	5	15						
	12	08	117	44	05	142	20	14	173	65	075	212	28	19	207	78	099	280	34	23	247	93	112	317	46	32	313	118	114	396	20	14	20	14	25	6	35	9	45	11	7	21						
	14	10	103	39	06	170	22	15	163	62	084	238	32	22	159	72	109	309	38	26	233	88	120	340	52	36	287	109	116	453	32	22	30	21	25	6	35	9	45	11	7	21						
AN8030SS	10	07	177	66	056	159	20	14	217	78	099	280	28	19	278	99	113	317	36	25	333	126	311	371	48	32	417	158	112	317	52	36	587	222	13	36	28	18	20	14	25	6	35	9	45	11	7	21
	12	08	160	61	056	159	26	18	243	92	082	232	34	23	32	121	100	283	40	28	417	158	112	317	52	36	587	222	13	36	28	18	20	14	25	6	35	9	45	11	7	21						
	14	10	139	59	065	186	22	15	163	62	084	238	32	22	159	72	109	309	38	26	233	88	120	340	52	36	287	109	116	453	32	22	30	21	25	6	35	9	45	11	7	21						
AN8040SS	10	07	233	88	067	190	26	18	278	99	113	317	40	28	333	126	311	371	48	32	417	158	112	317	52	36	587	222	13	36	28	18	20	14	25	6	35	9	45	11	7	21						
	12	08	220	83	047	133	22	15	29	110	075	212	30	21	37	140	096	272	36	25	447	165	109	309	48	32	63	238	138	362	12	08	10	07	2	5	3	8	4	10	5	13	6	18				
	16	11	160	61	056	159	26	18	243	92	082	232	34	23	32	121	100	283	40	28	417	158	112	317	52	36	587	222	13	36	28	18	20	14	25	6	35	9	45	11	7	21						
AN8050SS	10	07	309	116	067	190	28	19	339	122	091	258	32	22	399	143	113	317	40	28	417	158	112	317	52	36	587	222	13	36	28	18	20	14	25	6	35	9	45	11	7	21						
	12	08	288	106	067	190	28	19	339	122	091	258	32	22	399	143	113	317	40	28	417	158	112	317	52	36	587	222	13	36	28	18	20	14	25	6	35	9	45	11	7	21						
	14	10	231	157	058	22	15	1053	399	285	807	34	23	1137	430	392	1110	41	29	141	533	450	127	60	41	172	651	583	165	22	15	20	14	3	8	4	10	6	15	11	34							

Internal Mix Flat Fan Pattern - 1/8 NPT



Model: AF8010SS

Material: Type 303 Stainless Steel



Model: AF8020SS

Material: Type 303 Stainless Steel



Model: AF8030SS

Material: Type 303 Stainless Steel



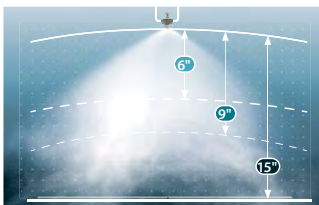
Model: AF8040SS

Material: Type 303 Stainless Steel

Model AF8010SS, AF8020SS, AF8030SS and AF8040SS

1/8 NPT internal mix flat fan pattern atomizing nozzles are designed with efficiency in mind. Especially good for vertical or horizontal assembly lines, their broad thin pattern makes efficient use of your expensive liquids. Their output can be adjusted for a very light film or a heavy coat of whatever liquid you're working with. Whether it's applying paint to hanging sheet metal, or using a water mist to cool a laminate web, flat fan atomizing nozzles cover a wide flat area, ideal for products moving on a conveyor.

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



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

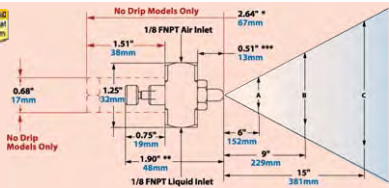
Dimensions and Airflow Pattern



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

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

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



Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/BAR	Pressure Liquid PSI/BAR	Width A in	Width B in	Width C in	Max. Depth feet/m																					
AF8010SS	10	0.7	1.60	6.1	0.71	20.0	18	1.2	21.3	8.1	1.11	31.5	28	1.9	26.0	10.0	1.53	43.4	38	2.6	28.7	10.9	1.95	55.1	55	3.8	3.67	13.1	2.57	72.7	10	0.7	1.0	0.7	1.4	36	18	46	25	64	1	0.3
	14	1.0	1.43	5.4	0.76	21.6	26	1.8	1.87	7.1	1.44	40.7	36	2.5	22.0	8.3	1.94	54.8	46	3.2	25.7	9.7	2.28	64.7	75	5.2	2.93	11.1	3.42	96.9	26	1.8	2.0	1.4	15	38	22	56	30	76	2	0.6
	22	1.5	0.93	3.5	1.03	29.1	40	2.8	1.40	5.3	1.94	55.0	55	3.8	1.63	6.2	2.67	75.4	70	4.8	2.07	7.8	3.17	89.8	100	6.9	2.37	9.0	4.33	123	36	2.5	3.0	2.1	1.4	36	22	56	30	76	2	0.6
AF8020SS	18	1.2	1.53	5.8	1.04	29.5	30	2.1	2.30	8.7	2.30	65.1	42	2.9	2.87	10.9	2.05	57.9	55	3.8	3.53	13.4	2.56	72.5	75	5.2	4.27	16.2	3.25	91.9	18	1.2	1.0	0.7	1.4	36	17	43	24	61	2	0.6
	22	1.5	1.40	5.3	1.17	33.2	36	2.5	1.90	7.2	1.90	53.8	46	3.2	2.60	9.8	2.20	62.2	65	4.5	2.67	10.1	2.98	84.4	85	5.9	3.67	13.9	3.69	105	36	2.5	2.0	1.4	18	46	24	61	32	81	3	0.9
	26	1.8	1.00	3.8	1.29	36.5	40	2.8	1.63	6.2	1.63	46.2	50	3.4	2.20	8.3	2.38	67.5	55	3.8	3.53	13.4	2.56	72.5	75	5.2	4.27	16.2	3.25	91.9	18	1.2	1.0	0.7	1.4	36	17	43	24	61	2	0.6
AF8030SS	16	1.1	7.83	29.6	1.42	40.3	28	1.9	10.8	41.0	20.0	56.7	38	2.6	13.0	49.2	2.54	71.8	46	3.2	14.7	55.5	2.94	83.1	65	4.5	17.0	64.4	4.00	113	16	1.1	1.0	0.7	2.1	53	26	66	32	81	3	0.9
	18	1.2	7.83	29.6	1.56	44.1	30	2.1	10.7	40.4	21.4	60.4	40	2.8	13.0	49.2	2.67	75.6	50	3.4	14.2	53.6	3.20	90.7	70	4.8	16.7	63.1	4.14	117	30	2.1	2.0	1.4	24	61	36	76	39	99	4	1.2
	20	1.4	7.50	28.4	1.69	47.8	32	2.2	10.3	39.1	22.4	63.5	42	3.0	12.5	47.3	2.80	79.3	52	3.6	14.2	53.6	3.28	92.9	75	5.2	16.5	62.5	4.54	128	42	2.9	3.0	2.1	29	74	36	91	44	112	4	1.2
AF8040SS	24	1.7	7.43	28.1	1.82	51.6	36	2.5	10.3	39.1	24.9	70.5	46	3.2	12.5	47.3	2.94	83.1	56	3.9	13.7	51.7	3.47	98.2	85	5.9	16.2	61.2	4.76	135	36	4.0	4.0	2.8	32	81	39	99	47	119	4	1.2
	12	0.8	11.2	42.3	1.08	30.5	22	1.5	14.8	56.2	1.56	44.1	34	2.3	17.8	67.5	2.15	60.9	46	3.2	20.3	77.0	2.71	76.7	65	4.5	28.0	106	3.61	102	12	0.8	1.0	0.7	2.0	51	24	61	31	79	3	0.9
	14	1.0	10.3	39.1	1.19	33.6	26	1.8	14.3	54.3	1.72	48.7	38	2.6	17.3	65.6	2.28	64.5	50	3.4	19.7	74.4	2.92	82.8	75	5.2	26.3	99.7	4.14	117	26	1.8	2.0	1.4	25	64	29	74	36	91	4	1.2
20	1.4	8.33	31.5	1.51	42.7	34	2.3	12.3	46.7	2.15	60.9	48	3.3	15.3	58.0	2.75	77.9	60	4.1	18.3	69.4	3.36	95.0	90	6.2	23.3	88.3	4.80	136	60	4.1	4.0	2.8	26	62	31	79	42	107	6	1.8	
22	1.5	10.3	39.1	1.51	42.7	34	2.3	12.3	46.7	2.15	60.9	48	3.3	15.3	58.0	2.75	77.9	60	4.1	18.3	69.4	3.36	95.0	90	6.2	23.3	88.3	4.80	136	60	4.1	4.0	2.8	26	62	31	79	42	107	6	1.8	

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



Model: EF8010SS
Material: Type 303 Stainless Steel



Model: EF8020SS
Material: Type 303 Stainless Steel



Model: EF8030SS
Material: Type 303 Stainless Steel



Model: EF8040SS
Material: Type 303 Stainless Steel

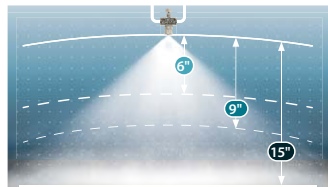


Model: EF8050SS
Material: Type 303 Stainless Steel

Model EF8010SS, EF8020SS, EF8030SS, EF8040SS and EF8050SS

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

For pressure fed applications with independent air and liquid control.

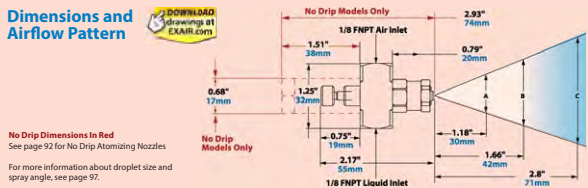


1/8 NPT External Mix Flat Fan atomizing nozzles are very versatile. They can apply a light or heavy film coating to products on a variety of different products.



Model EF8010SS applies lubricant to a drawer slide.

Dimensions and Airflow Pattern



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

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

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions												
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure Air PSI/BAR	Liquid PSI/BAR	A	B	C	Max. Depth							
													in	cm	in	cm	in	cm	feet/m						
EF8010SS	10	0.7	—	1.20	34.0	10	0.7	1.20	34.0	10	0.7	1.20	34.0	10	0.7	4	10	4	10	4	1.2				
	30	2.1	1.22	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	1.4	10	5	13	6	15	6	1.8		
	50	3.4	—	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	2.1	4	10	5	13	6	15	6	1.8	
EF8020SS	10	0.7	—	1.20	34.0	10	0.7	1.20	34.0	10	0.7	1.20	34.0	10	0.7	3	8	4.5	11	4	10	4	1.2		
	30	2.1	2.00	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	1.4	3	8	4.5	11	6	15	6	1.8	
	50	3.4	—	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	2.1	3	8	4.5	11	7	18	7	2.1	
EF8030SS	10	0.7	—	1.20	34.0	10	0.7	1.20	34.0	10	0.7	1.20	34.0	10	0.7	4	10	5	13	5	13	5	13	5	1.5
	30	2.1	4.47	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	1.4	4	10	5	13	7	18	7	2.1	
	50	3.4	—	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	2.1	4	10	5	13	8	20	8	2.4	
EF8040SS	20	1.4	—	1.95	55.2	20	1.4	1.95	55.2	20	1.4	1.95	55.2	20	1.4	10	0.7	5.5	14	7	18	7	18	7	2.1
	30	2.1	8.67	2.50	70.8	30	2.1	2.5	70.8	30	2.1	2.5	70.8	30	2.1	1.4	5.5	14	7	18	9	23	9	2.7	
	40	2.8	—	3.13	88.6	40	2.8	3.13	88.6	40	2.8	3.13	88.6	40	2.8	2.8	10	14	7	18	11	25	10	3.0	
EF8050SS	10	0.7	—	1.20	34.0	10	0.7	1.20	34.0	10	0.7	1.20	34.0	10	0.7	2.8	5.5	14	7	18	11	28	11	3.4	
	30	2.1	12.6	2.28	64.5	30	2.1	2.28	64.5	30	2.1	2.28	64.5	30	2.1	1.0	0.7	7	18	9	23	9	23	9	2.7
	40	2.8	—	2.84	80.4	40	2.8	2.84	80.4	40	2.8	2.84	80.4	40	2.8	2.8	10	14	7	18	11	25	10	3.0	
EF8050SS	60	4.1	—	3.87	109.6	60	4.1	3.87	109.6	60	4.1	3.87	109.6	60	4.1	4.1	10	14	7	18	9	23	12	3.7	
	70	4.8	—	4.45	126.0	70	4.8	4.45	126.0	70	4.8	4.45	126.0	70	4.8	4.8	10	14	7	18	9	23	12	3.7	

Siphon Fed Round Pattern - 1/8 NPT



Model: SR8010SS

Material: Type 303 Stainless Steel



Model: SR8020SS

Material: Type 303 Stainless Steel



Model: SR8030SS

Material: Type 303 Stainless Steel



Model: SR8040SS

Material: Type 303 Stainless Steel



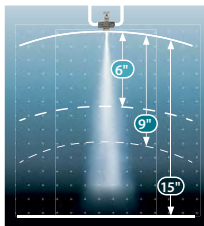
Model: SR8050SS

Material: Type 303 Stainless Steel

Model SR8010SS, SR8020SS, SR8030SS, SR8040SS and SR8050SS

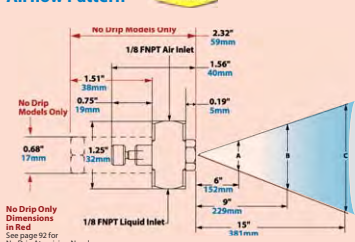
1/8 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed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

Siphon or gravity fed for non-pressurized applications.



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

Dimensions and Airflow Pattern



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

Spray Nozzles

Model	Liquid Flow in GPH/LPH																Spray Dimensions at 8" (20cm) Siphon Height																
	Air		Gravity Head					Siphon Height									Air		Width				Max. Depth feet/m										
	Pressure PSI/BAR	SCFM/SLPM	18"	16cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A in cm	B in cm	C in cm											
SR8010SS	10	0.7	0.48	136	0.35	1.3	0.33	1.2	0.27	1.0	0.21	0.8	0.21	0.8	0.17	0.7	—	—	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5	
	20	1.4	0.68	192	0.41	1.6	0.40	1.5	0.43	1.6	0.27	1.0	0.26	1.0	0.24	0.9	0.23	0.9	—	—	—	—	20	1.4	1.5	4	2	5	3	8	1.5	0.5	
	40	2.8	1.35	383	0.49	1.9	0.48	1.8	0.46	1.7	0.35	1.3	0.32	1.2	0.30	1.1	0.26	1.0	0.23	0.9	—	—	—	40	2.8	1.5	4	2	5	3	8	2	0.6
	60	4.1	2.12	599	0.53	2.0	0.52	2.0	0.50	1.9	0.40	1.5	0.42	1.6	0.33	1.3	0.28	1.1	0.25	0.9	—	—	—	60	4.1	1.5	4	2	5	3	8	3	0.9
SR8020SS	10	0.7	0.59	167	0.61	2.3	0.53	2.0	0.48	1.8	0.35	1.3	0.33	1.2	0.24	0.9	—	—	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5	
	20	1.4	1.16	328	0.73	2.8	0.7	2.6	0.66	2.5	0.58	2.2	0.55	2.1	0.4	1.5	0.35	1.3	—	—	—	—	20	1.4	1.5	4	2	5	3	8	2	0.6	
	40	2.8	1.9	538	0.88	3.3	0.8	3.0	0.76	2.9	0.66	2.5	0.58	2.2	0.53	2.0	0.45	1.7	0.38	1.4	—	—	—	40	2.78	1.5	4	2	5	3	8	3	0.9
	60	4.1	2.62	742	0.96	3.6	0.92	3.5	0.82	3.1	0.75	2.8	0.68	2.6	0.6	2.3	0.52	2.0	0.46	1.7	—	—	—	60	4.1	1.5	4	2	5	3	8	4	1.2
SR8030SS	10	0.7	0.55	156	1.31	5.0	1.22	4.6	0.96	3.6	0.76	2.9	0.61	2.3	0.53	2.0	—	—	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5	
	20	1.4	1.06	300	1.66	6.3	1.59	6.0	1.23	4.7	1.07	4.1	1.13	4.3	0.92	3.5	0.76	2.9	—	—	—	—	20	1.4	1.5	4	2	5	3	8	3	0.9	
	40	2.8	1.86	527	1.89	7.2	1.8	6.8	1.53	5.8	1.34	5.1	1.49	5.6	1.19	4.5	1.05	4.0	0.82	3.1	—	—	—	40	2.78	1.5	4	2	5	3	8	4	1.2
	60	4.1	2.45	694	1.98	7.5	1.86	7.0	1.58	6.0	1.46	5.5	1.74	6.6	1.34	5.1	1.29	4.9	1.04	3.9	—	—	—	60	4.1	1.5	4	2	5	3	8	5	1.5
SR8040SS	10	0.7	1.40	395	2.65	10.0	2.43	9.2	2.12	8.0	1.22	4.6	1.00	3.8	—	—	—	—	—	—	—	—	10	0.7	1.5	4	2	5	3	8	3	0.9	
	20	1.4	2.03	575	3.01	11.4	2.86	10.8	2.53	9.6	1.78	6.7	1.57	6.0	1.37	5.2	—	—	—	—	—	—	20	1.4	1.5	4	2	5	3	8	4	1.2	
	40	2.8	3.17	898	3.58	13.6	3.55	13.4	3.29	12.0	2.54	9.6	2.48	9.4	2.18	8.2	1.98	7.5	1.22	4.6	—	—	—	40	2.78	1.5	4	2	5	3	8	4	1.2
	60	4.1	4.42	125	4.09	15.5	3.99	15.1	3.75	14.0	3.03	11.5	2.98	11.3	2.85	11.0	2.59	9.8	2.11	8.0	—	—	—	60	4.1	1.5	4	2	5	3	8	5	1.5
SR8050SS	10	0.7	1.84	521	1.84	7.0	4.16	15.7	3.83	14.0	3.28	12.4	3.1	11.7	2.45	9.3	0.74	2.8	—	—	—	—	10	0.7	1.5	4	2	5	3	8	5	1.5	
	20	1.4	2.93	829	2.93	11.1	5.53	20.9	3.7	14.0	4.12	15.6	3.51	13.3	3.98	15.0	3.35	12.7	1.8	6.8	—	—	—	20	2.8	1.5	4	2	5	3	8	7	2.1
	40	2.8	4.02	114	4.02	15.2	5.83	22.1	4.39	17.0	4.6	17.4	4.31	16.3	5.08	19.0	4.16	15.7	2.93	11.1	—	—	—	40	4.1	1.5	4	2	5	3	8	9	2.7
	60	4.1	5.12	145	5.12	19.4	5.92	22.4	5.56	21.0	5.5	20.8	5.09	19.3	5.33	20.0	5.18	19.6	3.84	14.5	—	—	—	60	5.5	1.5	4	2	5	3	8	10	3.0

Siphon Fed Flat Fan Pattern - 1/8 NPT



Model: SF8010SS

Material: Type 303 Stainless Steel



Model: SF8020SS

Material: Type 303 Stainless Steel



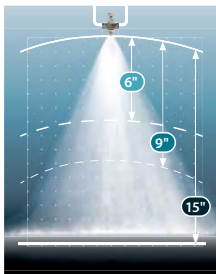
Model: SF8030SS

Material: Type 303 Stainless Steel

Model SF8010SS, SF8020SS and SF8030SS

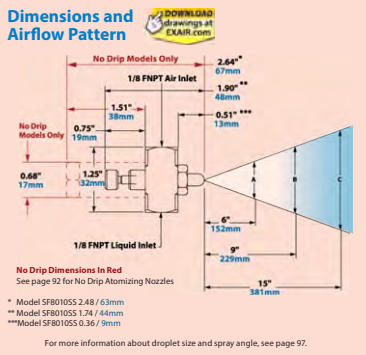
1/8 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed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

Siphon or gravity fed for non-pressurized applications.



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

Dimensions and Airflow Pattern



Liquid Flow in GPH/LPH

Spray Dimensions at 8" (20cm) Siphon Height

Model	Air		Gravity Head						Siphon Height									Air		Width						Max. Depth feet/m				
	Pressure PSI/BAR	SCFM/ SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A		B		C						
																				in	cm	in	cm	in	cm					
SF8010SS	10	0.7	1.07	3.03	0.32	1.2	0.30	1.1	0.25	1.0	0.24	0.9	0.23	0.9	0.18	0.7	0.17	0.7	0.14	0.5	10	0.7	7	18	9	23	12	30	2	0.6
	20	1.4	1.31	3.71	0.36	1.4	0.35	1.3	0.31	1.2	0.31	1.2	0.30	1.1	0.25	0.9	0.23	0.9	0.19	0.7	20	1.4	7	18	9	23	12	30	2	0.6
	40	2.8	1.69	4.79	0.43	1.6	0.40	1.5	0.35	1.3	0.34	1.3	0.32	1.2	0.27	1.0	0.26	1.0	0.24	0.9	30	2.1	7	18	9	23	12	30	2	0.6
SF8020SS	20	1.4	1.81	5.13	1.52	5.8	1.33	5.0	1.10	4.2	0.89	0.9	0.76	2.9	0.71	2.7	0.50	1.9	0.36	1.4	20	1.4	8	20	9	23	12	30	2	0.6
	30	2.1	2.30	6.51	1.18	4.5	1.16	4.4	1.06	4.0	0.85	3.2	0.79	3.0	0.77	2.9	0.52	2.0	0.44	1.7	30	2.1	9	23	11	28	13	33	2	0.6
	40	2.8	2.83	8.02	1.01	3.8	0.90	3.4	0.83	3.1	0.70	2.6	0.67	2.5	0.63	2.4	0.42	1.6	0.27	1.0	40	2.8	9	23	10	25	13	33	2	0.6
SF8030SS	50	3.4	3.34	9.46	0.85	3.2	0.71	2.7	0.59	2.2	0.48	1.8	0.41	1.6	0.51	1.9	0.32	1.2	—	—	50	3.4	7	18	8	20	9	23	3	0.9
	20	1.4	1.78	5.03	1.45	5.5	1.40	5.3	1.38	5.2	0.94	3.6	0.90	3.4	0.77	2.9	0.72	2.7	0.61	2.3	20	1.4	7	18	8	20	9.5	24	2	0.6
	30	2.1	2.24	6.35	1.16	4.4	1.12	4.2	1.10	4.2	1.00	3.8	0.98	3.7	0.86	3.2	0.81	3.1	0.69	2.6	30	2.1	7	18	8	20	9.5	24	2	0.6
SF8030SS	40	2.8	2.75	7.78	0.98	3.7	0.96	3.6	0.85	3.2	0.90	3.4	0.87	3.3	0.79	3.0	0.66	2.5	0.52	2.0	40	2.8	7	18	8	20	9.5	24	3	0.9
	50	3.4	3.00	8.50	0.83	3.2	0.79	3.0	0.70	2.6	0.75	2.8	0.69	2.6	0.66	2.5	0.51	1.9	0.44	1.7	50	3.4	7	18	8	20	9.5	24	3	0.9

Internal Mix Narrow Angle Round Pattern - 1/4 NPT

Model AN1010SS, AN1020SS, AN1030SS, and AN1040SS

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

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



Model: AN1010SS
Material: Type 303 Stainless Steel



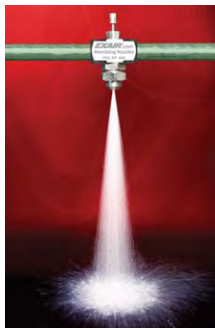
Model: AN1020SS
Material: Type 303 Stainless Steel



Model: AN1030SS
Material: Type 303 Stainless Steel

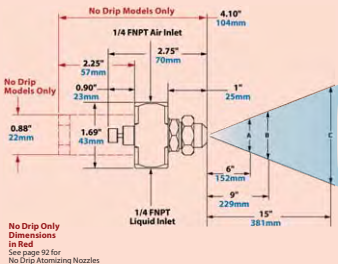


Model: AN1040SS
Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



DOWNLOAD Drawings at EXAIR.com

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/ SLM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLM	Air Pressure PSI/BAR	Liquid PSI/BAR	A in	B in	C in	Max. Depth feet/m																					
AN1010SS	10	0.7	1.4	5.3	0.6	1.7	18	1.2	1.8	6.8	0.9	2.5	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	3.3	8	5.0	13	6	1.8
	12	0.8	1.2	4.5	0.7	2.0	22	1.5	1.6	6.1	1.0	2.8	32	2.2	1.9	7.2	1.3	37	38	2.6	2.3	8.7	1.5	42	52	3.6	2.8	10.6	1.9	54	20	1.4	2.0	1.4	2.8	7	3.8	10	6.0	15	8	2.4
	14	1.0	1.1	4.2	0.8	2.3	24	1.5	1.5	5.7	1.1	3.1	36	2.5	1.6	6.1	1.5	42	44	3.0	1.9	7.2	1.7	48	62	4.3	2.3	8.7	2.4	68	42	2.9	4.0	2.8	3.5	9	4.5	11	6.5	17	10	3.0
AN1020SS	16	1.1	3.7	14.0	2.8	7.9	28	1.9	5.2	19.7	4.0	11.3	40	2.8	6.0	22.7	5.2	14.7	48	3.3	7.0	26.5	5.9	16.7	65	4.5	3.9	37.5	7.0	19.8	58	4.0	6.0	4.1	4.0	10	5.0	13	7.0	18	11	3.4
	20	1.4	2.5	9.5	3.4	9.6	36	2.5	2.7	10.2	5.1	14.4	48	3.3	3.8	14.4	6.4	18.1	65	4.5	3.6	13.6	8.1	22.9	80	5.5	6.6	25.0	8.6	24.4	55	3.8	3.0	2.1	3.0	8	4.5	11	6.5	17	13	4.0
	24	1.7	1.4	5.3	4.0	11.3	40	2.8	1.7	6.4	5.7	16.1	55	3.8	2.1	7.9	7.3	20.7	75	5.2	1.4	5.3	9.8	27.7	90	6.2	4.5	17.0	10.1	28.6	65	4.5	4.0	2.8	3.5	9	4.5	13	7.0	18	14	4.3
AN1030SS	28	1.9	0.6	2.3	4.6	13.0	44	3.0	0.8	3.0	6.4	18.1	60	4.1	1.1	4.2	8.1	22.9	80	5.5	0.8	3.0	10.2	28.9	100	6.9	2.4	9.1	11.3	32.0	85	5.9	6.0	4.1	4.0	10	5.5	14	7.5	19	18	5.5
	12	0.8	7.8	29.5	19.4	54	20	1.4	12.9	48.8	2.5	7.1	30	2.1	15.1	57.2	3.4	9.6	38	2.6	18.0	68.1	4.1	11.6	54	3.7	23.0	87.1	5.3	15.0	14	10.0	10	0.7	2.8	7	4.0	10	6.5	17	12	3.7
	14	1.0	6.0	22.7	22	62	24	1.7	9.8	37.1	3.0	8.5	38	2.6	9.4	35.6	4.5	12.7	46	3.2	13.1	49.6	5.1	14.4	65	4.5	17.1	64.7	6.7	19.0	90	2.8	3.0	2.1	3.8	10	5.5	14	7.0	18	19	5.8
AN1040SS	16	1.1	4.4	16.7	2.6	7.4	28	1.9	7.0	26.5	3.6	10.2	42	2.9	7.0	26.5	5.1	14.4	52	3.6	9.6	36.3	6.0	17.0	75	5.2	12.3	46.6	8.0	22.7	85	5.9	6.6	4.1	4.0	10	6.0	15	8.0	20	26	7.9
	18	1.2	3.3	12.5	2.9	8.2	32	2.2	4.1	15.5	4.4	12.5	46	3.2	5.0	18.9	5.9	16.7	56	3.9	7.3	27.6	6.6	18.7	85	5.9	7.3	27.6	9.6	27.2	70	4.8	4.1	4.0	10	6.0	15	8.0	20	26	7.9	
	14	1.0	6.3	23.8	3.5	9.9	20	1.4	24.0	90.8	3.0	8.5	28	1.9	33.0	12.5	3.4	9.6	32	2.2	46.5	17.6	2.8	7.9	42	2.9	66.0	25.0	2.7	7.6	14	1.0	0.7	3.0	8	4.5	11	6.5	17	15	5.2	
AN1040SS	16	1.1	3.0	11.4	4.2	11.9	24	1.7	13.0	49.2	4.2	11.9	32	2.2	24.0	90.8	4.6	13.0	40	2.8	30.0	11.4	5.1	14.4	50	3.4	54.0	20.4	4.3	12.2	24	1.7	10	0.7	3.0	8	4.5	11	6.5	17	21	6.4
	20	1.4	3.0	11.4	4.2	11.9	24	1.7	13.0	49.2	4.2	11.9	32	2.2	24.0	90.8	4.6	13.0	40	2.8	30.0	11.4	5.1	14.4	50	3.4	54.0	20.4	4.3	12.2	24	1.7	10	0.7	3.0	8	4.5	11	6.5	17	21	6.4
	28	1.9	5.5	20.8	5.6	15.9	40	2.8	22.7	74	2.10	5.0	34	10.3	39.0	8.2	23.2	70	4.8	15.8	6.0	10.2	28.9	64	4.4	3.0	4.1	5.0	13	7.0	18	8.5	22	30	9.1							

Internal Mix Deflected Flat Fan Pattern - 1/4 NPT



Model: AD1010SS
Material: Type 303 Stainless Steel



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

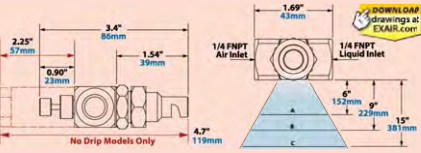
Model AD1010SS

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

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

Dimensions and Airflow Pattern

No Drip Dimensions In Red
See page 92 for No Drip Atomizing Nozzles
For more information about droplet size and spray angle, see page 97.



Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	Liquid PSI/BAR	A	B	C	Max. Depth																					
AD1010SS	6	0.4	3.0	11.5	1.4	4.1	14	1.0	4.0	15.1	2.3	6.6	22	1.5	2.3	8.9	26.0	4.7	133	12	0.8	10	0.7	9	23	14	36	16	41	36	91											
	8	0.6	2.7	10.1	1.8	5.0	18	1.2	3.3	12.4	2.9	8.2	26	1.8	4.1	15.4	3.7	10.5	32	2.2	4.9	18.6	4.3	121	54	3.7	5.3	20.1	6.6	188	34	2.3	30	2.1	8	20	12	30	16	41	114	
	10	0.7	2.2	8.3	2.1	5.9	20	1.4	2.9	11.0	3.2	9.1	30	2.1	3.4	12.9	4.3	12.2	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	15	38	48	122	
	12	0.8	1.8	6.9	2.4	6.9	22	1.5	2.3	8.9	3.6	10.1	34	2.3	2.8	10.4	5.0	14.0	46	3.2	2.7	10.3	6.3	180	70	4.8	3.1	11.9	9.1	258	70	4.8	60	4.1	12	30	15	38	18	46	42	107

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



Model: AT1010SS
Material: Type 303 Stainless Steel



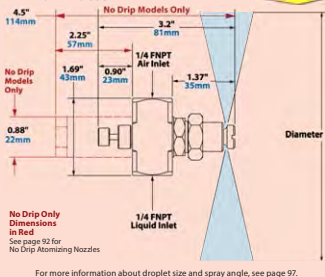
This 360° circular pattern nozzle can be used to coat inside diameters or cover a broad area of over 4' (1219mm).

Model AT1010SS

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

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

Dimensions and Airflow Pattern



Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																				
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	Liquid PSI/BAR	A	Diameter																	
AT1010SS	20	1.4	4.5	16.8	4.3	121	34	2.3	7.3	27.5	6.4	18.2	50	3.4	8.1	30.6	8.9	251	60	4.1	11.5	43.5	10.0	283	8.5	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	20.6	56	3.9	5.4	20.3	10.0	28.5	70	4.8	7.1	26.8	11.8	335	90	6.2	12.7	47.9	14.1	398	50	3.4	30	2.1	44	112
	26	1.8	2.0	7.5	5.7	162	42	2.9	3.6	13.5	8.2	23.1	60	4.1	4.2	15.7	10.7	30.9	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	26.4	70	4.8	2.0	7.4	12.6	35.6	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

Air Atomizing Spray Nozzles



External Mix Round Pattern - 1/4 NPT



Model: ER1010SS
Material: Type 303 Stainless Steel



Model: ER1020SS
Material: Type 303 Stainless Steel



Model: ER1030SS
Material: Type 303 Stainless Steel



Model: ER1040SS
Material: Type 303 Stainless Steel



Model: ER1050SS
Material: Type 303 Stainless Steel

Model ER1010SS, ER1020SS, ER1030SS, ER1040SS and ER1050SS

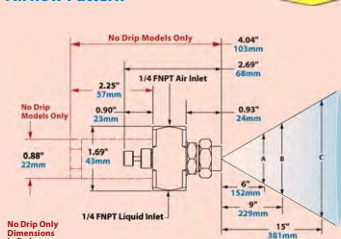
1/4 NPT external mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern. Applications include spot treatments of parts, covering irregularly shaped objects or covering a container of parts with a heavy coat. They are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

For pressure fed applications with independent air and liquid control.



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

Dimensions and Airflow Pattern



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

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

Spray Nozzles

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions					
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width			Max. Depth feet/m
	Air PSI/BAR	Liquid GPH/LPH	Liquid SCFM/SLPM	Air PSI/BAR	Liquid GPH/LPH	Liquid SCFM/SLPM	Air PSI/BAR	Liquid GPH/LPH	Liquid SCFM/SLPM	Air PSI/BAR	Liquid GPH/LPH	Liquid SCFM/SLPM	Air PSI/BAR	Liquid GPH/LPH	Liquid SCFM/SLPM	Air PSI/BAR	Liquid PSI/BAR	A in cm	B in cm	C in cm	
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	3.0 85.0	20 1.4	3.8 102.1	1.9 53.8	10 0.7	3 0.2	3.0 76.4	4.3 109.3	6.3 160.9	9 22.9	11 27.7	14 35.7
	10 0.7	1.0 3.8	1.3 36.8	10 0.7	1.4 5.3	1.3 36.8	20 1.4	1.9 53.8	20 1.4	3.0 85.0	20 1.4	4.1 116	3.0 85.0	20 1.4	5 0.3	3.3 84.4	4.5 114.6	6.8 172.3	11 27.7	14 35.7	19 48.3
	20 1.4	1.9 53.8	30 2.1	1.4 5.3	2.4 68.0	40 2.8	3.0 85.0	40 2.8	4.1 116	60 4.1	5.7 161	60 4.1	4.1 116	40 2.8	10 0.7	3.5 89.5	5.3 135.7	7.5 191.1	13 40	14 35.7	23 58.3
	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	90 6.2	5.7 161	5.7 161	60 4.1	40 2.8	4.0 107.5	5.5 140.0	8.0 203.1	15 38.1	16 40.6	26 66.0
ER1020SS	6 0.4	0.9 25.5	10 0.7	1.3 36.8	10 0.7	1.3 36.8	20 1.4	2.9 82.1	40 2.8	3.0 85.0	40 2.8	4.1 116	3.0 85.0	10 0.7	3 0.2	3.8 97.5	5.0 127.7	7.5 191.1	10 27.7	10 27.7	10 30.0
	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	60 4.1	4.1 116	4.1 116	20 1.4	5 0.3	4.0 102.5	5.8 147.7	7.8 197.8	12 31.3	12 31.3	12 31.3
	20 1.4	2.4 68.0	40 2.8	3.2 121	3.1 87.8	40 2.8	4.1 116	4.1 116	60 4.1	5.9 22.5	5.9 22.5	5.9 22.5	5.9 22.5	40 2.8	10 0.7	4.3 109.0	6.0 152.9	8.3 211.5	15 38.1	15 38.1	15 38.1
	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	90 6.2	5.9 167	5.9 167	60 4.1	40 2.8	5.0 127.7	6.5 165.5	8.5 216.1	16 40.6	16 40.6	16 40.6
ER1030SS	10 0.7	4.0 113	10 0.7	4.0 113	15 1.0	4.9 139	30 2.1	7.7 218	40 2.8	7.7 218	40 2.8	9.5 269	7.7 218	10 0.7	3 0.2	4.3 109.6	6.0 152.8	8.8 224.4	13 40	13 40	13 40
	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	60 4.1	11.2 317	9.5 269	20 1.4	5 0.3	4.5 114.6	6.5 165.5	9.5 241.3	16 40.6	16 40.6	16 40.6
	40 2.8	9.5 269	40 2.8	5.5 208	7.6 288	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	11.2 317	40 2.8	10 0.7	4.8 122.6	6.8 173.9	9.0 229.2	24 73	24 73	24 73
	50 3.4	11.2 317	60 4.1	11.2 317	70 4.8	13.4 379	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	15.3 433	60 4.1	40 2.8	4.5 114.6	6.8 173.9	9.0 229.2	29 88	29 88	29 88
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	11.2 317	11.2 317	20 1.4	3 0.2	5.8 164.7	7.5 191.1	10.0 254.5	15 38.1	15 38.1	15 38.1
	20 1.4	7.7 218	30 2.1	7.7 218	40 2.8	9.5 269	50 3.4	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	11.2 317	40 2.8	5 0.3	6.0 152.8	8.0 203.1	10.2 262.9	19 48.3	19 48.3	19 48.3
	40 2.8	9.5 269	40 2.8	13.5 51.1	17.5 218	21.4 188.7	27.6 104	11.2 317	60 4.1	11.2 317	60 4.1	11.2 317	11.2 317	60 4.1	10 0.7	6.0 152.8	8.0 203.1	10.5 267.3	23 70	23 70	23 70
	50 3.4	11.2 317	60 4.1	11.2 317	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	80 5.5	15.3 433	15.3 433	60 4.1	20 1.4	5.5 140.0	7.8 198.9	10.5 267.3	24 73	24 73	24 73
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	25.3 716	80 5.5	25.3 716	25.3 716	40 2.8	3 0.2	6.5 165.5	8.8 224.4	11.0 279.2	23 70	23 70	23 70
	50 3.4	16.8 470	65 4.5	21.0 595	70 4.8	22.3 631	90 6.2	27.9 790	90 6.2	27.9 790	90 6.2	27.9 790	27.9 790	50 3.4	5 0.3	6.5 165.5	9.0 229.1	11.5 294.4	28 85	28 85	28 85
	60 4.1	19.7 558	70 4.8	22.3 631	80 5.5	25.3 716	90 6.2	27.9 790	90 6.2	27.9 790	90 6.2	27.9 790	27.9 790	60 4.1	10 0.7	6.5 165.5	9.0 229.1	11.5 294.4	29 88	29 88	29 88
	65 4.5	21.0 595	80 5.5	25.3 716	90 6.2	27.9 790	90 6.2	27.9 790	90 6.2	27.9 790	90 6.2	27.9 790	27.9 790	90 6.2	20 1.4	6.0 152.8	8.0 203.1	11.0 279.2	32 98	32 98	32 98

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

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



Model: EF1010SS
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.



Model: EF1020SS
Material: Type 303 Stainless Steel



Model: EF1030SS
Material: Type 303 Stainless Steel

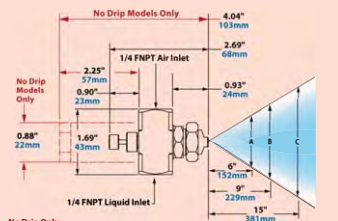


Model: EF1040SS
Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



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

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

DOWNLOAD
drawings at
EXAIR.com

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																	
	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	PSI/ BAR	Air PSI/ BAR	Liquid PSI/ BAR	A	B	C																		
EF1010SS	5	0.3		0.8	22.7	1.0	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	3.8	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	20	1.4	6.5	16.5	9.5	24.1	13.0	33.0	13	4.0	
	20	1.4		7.5	1.5	42.5	30	2.1	2.0	56.6	40	2.8		2.0	56.6	60	4.1		3.4	96.3	75	5.2	3.8	14.4	4.1	116	50	3.4	20	1.4	6.3	16.0	9.3	23.6	12.0	30.5	16	4.9
	40	2.8		15.0	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	75	5.2	40	2.8	1.8	6.5	16.5	9.5	24.1	13.0	33.0	18	5.5
EF1020SS	10	0.7		1.0	28.3	15	1.0	1.3	36.8	20	1.4		1.5	42.5	35	2.4		2.2	62.3	50	3.4		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		2.5	9.5	1.5	42.5	25	1.7	1.8	51.0	30	2.1	2.0	56.6	50	3.4		2.9	82.1	60	4.1		3.4	96.3	35	2.4	20	1.4	6.5	16.5	10.0	25.4	14.0	35.6	14	4.3	
	30	2.1		3.2	12.1	2.5	70.8	50	3.4	2.9	82.1	70	4.8	4.3	16.3	2.5	70.8	50	3.4	3.8	108	80	5.5		4.3	122	60	4.1	20	1.4	7.5	19.1	11.5	29.2	18.0	46.6	17	5.2
	50	3.4		2.9	82.1	60	4.1	3.4	96.3	70	4.8		3.8	108	90	6.2		4.7	133	100	6.9		5.2	147	75	5.2	40	2.8	2.5	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		4.4	16.7	5.3	150	30	2.1	2.5	70.8	50	3.4		7.6	215	50	3.4	10.0	283	60	4.1		11.5	326	40	2.8	10	0.7	7.0	17.8	11.0	25.4	14.0	35.6	14	4.3	
	30	2.1		6.9	195	40	2.8	8.4	238	50	3.4	7.6	215	50	3.4		11.0	41.6	12.7	360	80	5.5		14.0	530	60	4.1	20	1.4	7.5	19.1	11.5	29.2	18.0	46.6	17	5.2	
	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	75	5.2	40	2.8	7.0	17.8	11.0	27.9	14.0	35.6	28	8.5		
EF1040SS	15	1.0		4.4	125	25	1.7	6.1	173	35	2.4		7.6	215	45	3.1		9.2	261	55	3.8		10.7	303	15	1.0	3	0.2	6.8	17.3	11.0	25.4	14.0	35.6	17	5.2		
	25	1.7		10.0	37.0	6.1	173	35	2.4	13.5	51.1		7.6	215	45	3.1		9.2	261	55	3.8		10.7	303	60	4.1	20	1.4	8.0	20.3	12.0	30.5	15.0	38.1	22	6.7		
	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	60	4.1	20	1.4	8.0	20.3	12.0	30.5	16.0	40.6	25	7.6		
	50	3.4		10.0	283	60	4.1	11.5	326	80	5.5		13.7	388	90	6.2		14.8	419	100	6.9		14.8	419	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

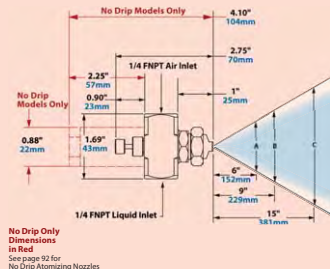
1/4 NPT external mix wide angle flat fan pattern nozzles are great where a high volume of liquid is needed over a wide area such as a conveyor line. Because they are external mix, airflow and liquid flow can be controlled independently. Common applications are those which require a moderate application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



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

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	5 0.3		0.9 25.5	8 0.6		1.1 31.1	10 0.7		1.3 36.8	15 1.0		1.7 48.1	10 0.7	5 0.3	8.0 20.3	11.0 27.9	14.0 35.6	9 2.7	
	8 0.6	1.0 3.8	1.1 31.1	10 0.7	1.4 5.3	1.3 36.8	10 0.7	1.9 7.2	1.3 36.8	20 1.4		2.0 56.6	20 1.4	3.8 10.4	2.0 56.6	15 1.0	10 0.7	9.0 22.9	12.0 30.5	17.0 43.2	11 3.4	
	10 0.7		1.3 36.8	15 1.0		1.7 48.1	20 1.4		2.0 56.6	30 2.1		2.6 73.6	30 2.1		2.6 73.6	25 1.7	17 30 2.1	11.0 27.9	15.0 38.1	20.0 50.8	13 4.0	
	15 1.0		1.7 48.1	20 1.4		2.0 56.6	30 2.1		2.6 73.6	35 2.4		3.0 85.0	35 2.4		3.0 85.0	25 1.7	17 40 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		1.0 28.3	6 0.4		1.0 28.3	10 0.7		1.3 36.8	20 1.4		2.0 56.6	8 0.6	5 0.3	11.0 27.9	16.0 40.6	19.0 48.3	8 2.4	
	7 0.5	2.5 9.5	1.1 31.1	8 0.6	3.2 12.1	1.1 31.1	8 0.6	4.3 16.3	1.1 31.1	12 0.8	5.9 22.3	1.5 42.5	25 1.7	2.3 65.1	20 1.4	20 1.4	12.0 30.5	17.0 43.2	22.0 55.9	12 3.7		
	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	25 1.7	17 30 2.1	13.0 33.0	18.0 45.7	24.0 61.0	21 6.4		
	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	30 2.1	40 2.8	13.0 33.0	19.0 48.3	24.0 61.0	14 4.3		
EB1030SS	8 0.6		3.4 96.3	10 0.7		3.8 108 15	10 1.0		4.8 136 35	24 1.7		4.8 136 35	24 1.7	10.1 286	65 45	11.0 311	15 1.0	3 0.2	11.0 27.9	17.0 43.2	21.0 53.3	13 4.0
	15 1.0	4.4 16.7	4.8 136	20 1.4		5.9 167 25	1.7		6.7 190	45 3.1		10.1 286	65 45	12.3 348	25 1.7	10 0.7	12.0 30.5	18.0 45.7	23.0 58.4	16 4.9		
	20 1.4		5.9 167	25 1.7	5.5 20.8	6.7 190	35 2.4	7.6 28.8	8.4 238	55 3.8	11.0 41.6	11.7 33.1	85 65	14.0 53.0	15.7 44.5	60 4.8	30 2.1	14.0 35.6	18.0 45.7	24.0 61.0	26 7.9	
	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 65	16.8 476	70 4.8	40 2.8	14.0 35.6	18.0 45.7	24.0 61.0	30 9.1		
EB1040SS	10 0.7		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	18.8 71.2	7.6 215	50 3.4		11.0 311	85 5.9	15.7 44.5	45 3.1	20 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		9.3 263	70 4.8	27.6 104	13.4 37.9	95 65	16.8 476	65 4.5	20 1.4	15.0 38.1	21.0 53.3	27.0 68.6	23 7.0		
	25 1.7		6.7 190	35 2.4		8.4 238 45	3.1		10.1 286	80 5.5		14.8 419	100 6.9	18.3 518	80 5.5	20 1.4	16.0 40.6	22.0 55.9	28.0 71.1	26 7.9		

Siphon Fed Round Pattern - 1/4 NPT



Model: SR1010SS
Material: Type 303 Stainless Steel



Model: SR1020SS
Material: Type 303 Stainless Steel



Model: SR1030SS
Material: Type 303 Stainless Steel



Model: SR1040SS
Material: Type 303 Stainless Steel

Model SR1010SS, SR1020SS, SR1030SS and SR1040SS

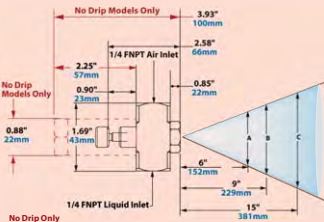
1/4 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed round pattern nozzles provide the most liquid flow of any siphon fed nozzle.

Siphon or gravity fed for non-pressurized applications.



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

Dimensions and Airflow Pattern



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

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

		Liquid Flow in GPH/LPH														Spray Dimensions at 8" (20cm) Siphon Height														
		Air			Gravity Head					Siphon Height						Air		Width			Max. Depth feet/m									
Model	Pressure PSI/BAR	SCFM/ SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	in		cm	A	B	C					
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	3.3	8	4.3	11	5.8	15	9	2.7		
	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	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	0.5	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	5.0	13	7.5	19	14	4.3
SR1030SS	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
	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	14	4.0
SR1040SS	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
	30	2.1	5.7	161	12.3	46.6	11.0	41.6	9.3	35.2	6.3	23.8	5.3	20.1	4.5	17.0	0.6	2.3	---	---	30	2.1	4.8	12	6.5	17	8.8	22	19	5.8
SR1040SS	40	2.8	6.9	195	13.0	49.2	11.8	44.7	10.0	37.9	7.3	27.6	6.5	24.6	5.5	20.8	1.5	5.7	0.3	1.1	40	2.8	5.2	13	7.0	18	9.3	24	21	6.4
	60	4.1	9.5	269	14.3	54.1	13.0	49.2	11.5	43.5	8.5	32.2	7.5	28.4	6.5	24.6	2.3	8.7	1.5	5.7	60	4.1	5.5	14	7.5	19	9.8	25	24	7.3
	80	5.5	12.0	340	15.0	56.8	13.5	51.1	12.5	47.3	9.5	36.0	8.5	32.2	7.5	28.4	3.5	13.2	1.9	7.2	80	5.5	5.8	15	7.8	20	10.0	25	27	8.2

Siphon Fed Flat Fan Pattern - 1/4 NPT



Model: SF1010SS
Material: Type 303 Stainless Steel

Model SF1010SS, SF1020SS and SF1030SS

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



Model: SF1020SS
Material: Type 303 Stainless Steel

Siphon or gravity fed for non-pressurized applications.

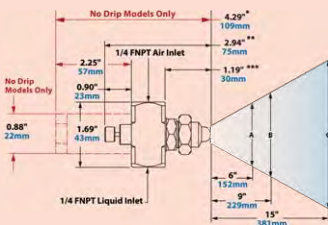


Model: SF1030SS
Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



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

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

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

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

Internal Mix Narrow Angle Round Pattern - 1/2 NPT

Model AN5010SS and AN5020SS

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

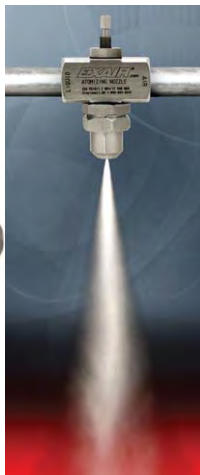
For pressure fed applications not requiring independent air and liquid control.



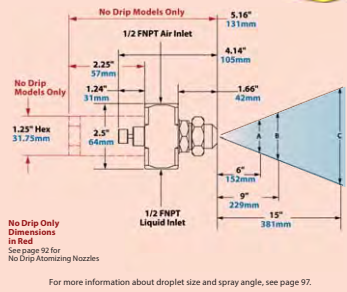
Model: AN5010SS
Material: Type 303 Stainless Steel



Model: AN5020SS
Material: Type 303 Stainless Steel



Dimensions and Airflow Pattern



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

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

Spray Dimensions

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

Model	5 PSI/0.3 BAR Liquid				15 PSI/1.0 BAR Liquid				25 PSI/1.7 BAR Liquid				35 PSI/2.4 BAR Liquid				55 PSI/3.8 BAR Liquid																												
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM																										
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	3.1	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			78	5.4	16.8	64	33.7	95.4															
	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			84	6.4	16.8	64	33.7	95.4															
AN5020SS	10	0.7	30	113.6	13.7	388.0			18	1.2	98.4	372.4	15.6	442			26	1.8	159	601.8	17.6	498			36	2.5	183	693	20.0	566			54	3.7	231	874.3	26.0	736							
	12	0.8	18.6	70.4	16.2	458.8			20	1.4	73.2	277.1	17.9	507			32	2.2	99	374.7	23.7	671			42	2.9	126	477	26.1	739			60	4.1	168	635.9	33.4	946							
	---	---	---	---	---	---			22	1.5	63.6	240.7	20.3	575			36	2.5	75	283.9	28.6	810			46	3.2	96	363	31.0	878			72	5.0	76	287.7	47.2	1337							
	---	---	---	---	---	---			24	1.7	52.8	199.8	22.6	640			40	2.8	57.6	218.0	33.0	935			52	3.6	71	269	37.7	1068			76	5.2	54	204.4	51.3	1453							

Internal Mix Wide Angle Round Pattern - 1/2 NPT

Model AW5010SS, AW5020SS and AW5030SS

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

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



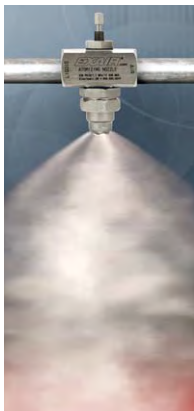
Model: AW5010SS
Material: Type 303 Stainless Steel



Model: AW5020SS
Material: Type 303 Stainless Steel

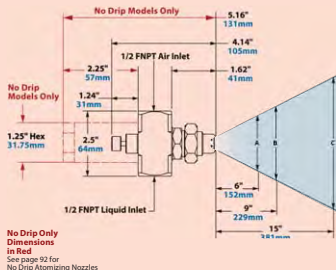


Model: AW5030SS
Material: Type 303 Stainless Steel



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

Dimensions and Airflow Pattern



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

Model	5 PSI/0.3 BAR Liquid			15 PSI/1.0 BAR Liquid			25 PSI/1.7 BAR Liquid			35 PSI/2.4 BAR Liquid			55 PSI/3.8 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/ BAR	Liquid PSI/ BAR	A in	B in	C in	Max. Depth feet/m																					
AW5010SS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																					
AW5020SS	10	0.69	32	121	120	340	26	1.8	36.8	139	21.8	617	40	2.8	60.6	229	9.9	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
AW5030SS	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	40	2.8	35	2.4	13	33.0	19	48	26	66	20	6.1
	14	0.97	13.2	50	16.2	459	32	2.2	21	79	27.7	784	48	3.3	26.4	100	38.2	1082	62	4.3	36	136	44.7	1266	---	---	---	---	---	---	60	4.1	55	3.8	14	35.6	19	48	26.5	67	22	6.7
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	80	5.5	55	3.8	13	33.0	17	43	20.5	52	45	13.7
	10	0.69	31.2	118	12.8	362	18	1.2	11.2	424	14.6	413	26	1.8	18.0	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	52.2	20.6	583	40	2.8	177	670	25.0	908	62	4.3	216	818	36.0	1020	20	1.4	15	10	16	40.0	20.5	52	27	69	22	6.7
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	44	3.0	35	2.4	13	33.0	17	43	22	56	35	10.7
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	64	4.4	55	3.8	13.5	34.3	17	43	22	56	44	13.4

Air Atomizing Spray Nozzles

An INTELLIGENT
COMPRESSED AIR®
Product



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



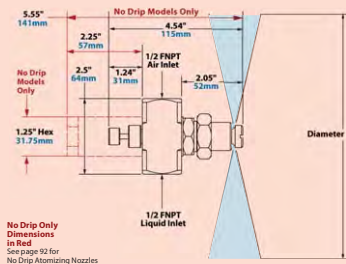
Model: AT50105S
Material: Type 303 Stainless Steel

Model AT50105S

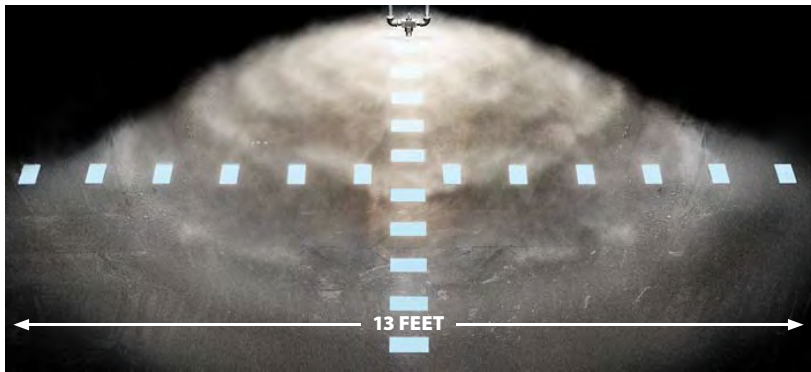
1/2 NPT internal mix 360° nozzles are designed for applications where the spray pattern must be oriented away from the nozzle in all directions. These larger 360° nozzles are ideal where a smooth, even coating is needed on the ID of pipe or similar ductwork. They also work great for operations where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

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

Dimensions and Airflow Pattern



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



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

Model	10 PSI/0.7 BAR Liquid						20 PSI/1.4 BAR Liquid						30 PSI/2.1 BAR Liquid						40 PSI/2.8 BAR Liquid						60 PSI/4.1 BAR Liquid						Spray Dimensions								
	Air Pressure		GPH/LPH		SCFM/SLPM		Air Pressure		GPH/LPH		SCFM/SLPM		Air Pressure		GPH/LPH		SCFM/SLPM		Air Pressure		GPH/LPH		SCFM/SLPM		Air Pressure		Liquid		Diame										
	PSI/BAR	PSI/BAR	GPH	LPH	SCFM	SLPM	PSI/BAR	PSI/BAR	GPH	LPH	SCFM	SLPM	PSI/BAR	PSI/BAR	GPH	LPH	SCFM	SLPM	PSI/BAR	PSI/BAR	GPH	LPH	SCFM	SLPM	PSI/BAR	PSI/BAR	PSI/BAR	in	cm										
AT50105S	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			

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

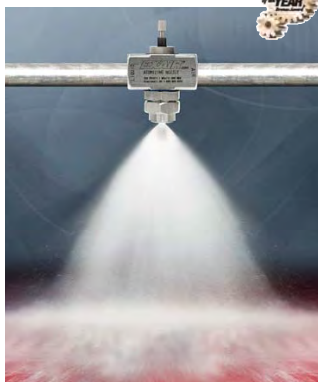


Model: EF5010SS
Material: Type 303 Stainless Steel

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.

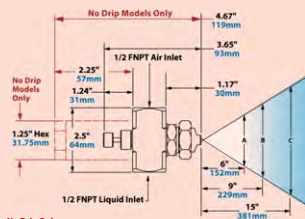


External mix narrow angle flat fan nozzles provide a high volume of liquid in a concentrated area.



See page 4 for complete details.

Dimensions and Airflow Pattern



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

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

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

Siphon Fed Round Pattern - 1/2 NPT



Model: SR5010SS
Material: Type 303 Stainless Steel

Model SR5010SS

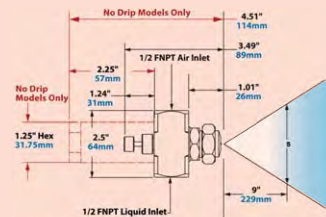
1/2 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a heavy coating is needed at a specific area. Flow rate of these larger atomizing nozzles is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 24" or less. Since these nozzles 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.

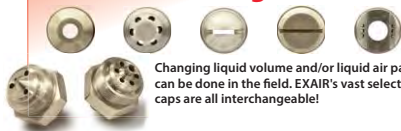
Dimensions and Airflow Pattern



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

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

Air and Liquid Caps are Interchangeable!



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

Liquid Flow in GPH/LPH

Spray Dimensions at 8" (20cm) Siphon Height

Model	Air		Gravity Head				Siphon Height								Air		Width		Max. Depth feet/m			
	Pressure PSI/BAR	SCFM/ SLPM	18"	146cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	Pressure PSI/BAR	B				
																		in		cm		
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	29	8.8	
	60	4.1	42.2	1195	59.1	224	57.4	217	43.8	166	33.1	125	33	125	25.7	97	9.9	37	60	4.1	31	9.4
	70	4.8	47.7	1351	66	250	58.6	222	43.8	166	35.3	134	35.3	134	29.7	112	12.5	47	70	4.8	35	10.7
	80	5.5	52.9	1498	68.3	259	59.1	224	44.5	168	44.6	169	36.9	140	31.5	119	17.5	66	80	5.5	37	11.3



No Drip Air Atomizing Spray Nozzles



Eliminate drips to conserve valuable liquids and improve product finishes!

What Are No Drip Atomizing Nozzles?

EXAIR's patented¹ no drip atomizing spray nozzles work in the same way our standard atomizing nozzles do, but have the added benefit of positively stopping liquid flow when compressed air is shut off. All models use stainless steel construction for durability and corrosion resistance.

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

Internal Mix:

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

External Mix:

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

Siphon Fed:

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

¹ Patent #9156045

Why No Drip Atomizing Nozzles?

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

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



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

Applications

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

Advantages

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

No Drip Air Atomizing Spray Nozzles



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



Model	Description
No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles	
AN90105S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 2.63 GPH/9.96 LPH Max, 1/8 NPT
AN90205S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 3.33 GPH/12.61 LPH Max, 1/8 NPT
AN90305S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 6.3 GPH/23.85 LPH Max, 1/8 NPT
AN90405S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 12.00 GPH/45.42 LPH Max, 1/8 NPT
AN90505S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 18.93 GPH/71.66 LPH Max, 1/8 NPT
AN20105S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 3.3 GPH/12.5 LPH Max, 1/4 NPT
AN20205S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 9.9 GPH/37.5 LPH Max, 1/4 NPT
AN20305S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 23.0 GPH/87.1 LPH Max, 1/4 NPT
AN20405S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 66.0 GPH/250 LPH Max, 1/4 NPT
AN60105S	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 75.6 GPH/286 LPH Max, 1/2 NPT
AN60205S	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	
AW90105S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 2.60 GPH/9.84 LPH Max, 1/8 NPT
AW90205S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 9.83 GPH/37.22 LPH Max, 1/8 NPT
AW90305S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 15.00 GPH/56.78 LPH Max, 1/8 NPT
AW90405S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 22.33 GPH/84.54 LPH Max, 1/8 NPT
AW20105S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 3.5 GPH/13.2 LPH Max, 1/4 NPT
AW20205S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 8.5 GPH/32.2 LPH Max, 1/4 NPT
AW20305S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 15.0 GPH/56.8 LPH Max, 1/4 NPT
AW20405S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 24.0 GPH/91 LPH Max, 1/4 NPT
AW60105S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 66.0 GPH/250 LPH Max, 1/2 NPT
AW60205S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 115.0 GPH/435 LPH Max, 1/2 NPT
AW60305S	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 264.0 GPH/999 LPH Max, 1/2 NPT

NO DRIP INTERNAL MIX ATOMIZING NOZZLES

Spray Nozzles



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

NO DRIP INTERNAL MIX ATOMIZING NOZZLES

No Drip Air Atomizing Spray Nozzles



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



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

Spray Nozzles

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



Model	Description
-------	-------------

No Drip Siphon Fed Round Pattern Atomizing Nozzles

SR901055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.53 GPH/2.02 LPH Max, 1/8 NPT
SR902055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.96 GPH/3.63 LPH Max, 1/8 NPT
SR903055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 1.98 GPH/7.50 LPH Max, 1/8 NPT
SR904055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 4.09 GPH/15.48 LPH Max, 1/8 NPT
SR905055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 5.12 GPH/19.38 LPH Max, 1/8 NPT
SR201055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.8 GPH/3.0 LPH Max, 1/4 NPT
SR202055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 1.9 GPH/7.2 LPH Max, 1/4 NPT
SR203055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 5.8 GPH/22.0 LPH Max, 1/4 NPT
SR204055	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 15.0 GPH/56.8 LPH Max, 1/4 NPT
SR601055	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

SF901055	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 0.43 GPH/1.62 LPH Max, 1/8 NPT
SF902055	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.52 GPH/5.75 LPH Max, 1/8 NPT
SF903055	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.45 GPH/5.49 LPH Max, 1/8 NPT
SF201055	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 0.4 GPH/1.5 LPH Max, 1/4 NPT
SF202055	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.2 GPH/4.5 LPH Max, 1/4 NPT
SF203055	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^*
AN102055	20 PSI	40 PSI	71
	40 PSI	65 PSI	83
ER102055	5 PSI	40 PSI	39
	20 PSI	40 PSI	57
SR102055	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 - AN101055, AN201055, etc.	20°	45°
Internal Mix Wide Angle Round Pattern - AW101055, AW201055, etc.	50°	90°
Internal Mix Flat Fan Pattern - AF101055, AF201055, etc.	50°	120°
Internal Mix Deflected Flat Fan Pattern - AD101055, AD201055, etc.	67°	90°
External Mix Round Pattern - ER101055, ER201055, etc.	25°	60°
External Mix Narrow Angle Flat Fan Pattern - EF101055, EF201055, etc.	35°	70°
External Mix Wide Angle Flat Fan Pattern - EB101055, EB201055, etc.	50°	105°
Siphon Fed Round Pattern - SR101055, SR201055, etc.	20°	50°
Siphon Fed Flat Fan Pattern - SF101055, SF201055, etc.	50°	100°



Liquid Atomizing Spray Nozzles

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



What are Liquid Atomizing Spray Nozzles?

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



Why Liquid Atomizing Spray Nozzles?

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



Applications

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

Advantages

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



Liquid Atomizing Spray Nozzles

FullStream™ Cone Nozzles - 1/4 NPT



Model: FL1008SS
Material: Type 303 Stainless Steel



Model: FL1010SS
Material: Type 303 Stainless Steel



Model: FL1011SS
Material: Type 303 Stainless Steel

Model FL1008SS, FL1010SS and FL1011SS

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

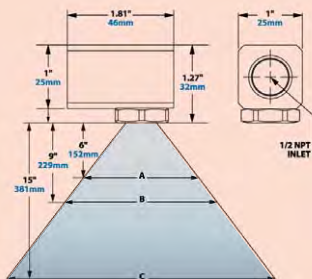
Compared to EXAIR's Air Atomizing Spray Nozzles the FullStream will have higher liquid flow rates.

For maximum liquid conservation and spray control visit page 70.



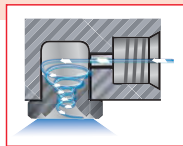
1/4 NPT FullStream Cone Nozzle with cone spray pattern is rinsing anodized aluminum pipe.

Dimensions and Airflow Pattern



How FullStream and HollowStream Cone Nozzles Work

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



Inlet Connection		Model	Capacity	Max Free Passage	Flow Rate GPM/LPM								Spray Angle										
Model	Capacity				Max Free Passage	Flow Rate GPM/LPM								Inlet Pressure PSI/BAR	Width								
						3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	in		cm	in	cm	in	cm				
1/4 NPT	FL1008SS	8	0.109"	GPM	0.50	0.60	0.70	0.80	1.15	1.55	1.80	7	0.5	5.7	14	8.6	22	14.3	36				
				LPM	1.89	2.27	2.65	3.03	4.35	5.87	6.81	20	1.4	7.4	19	11.0	28	18.4	47				
				GPM	0.48	0.67	0.83	1.00	1.34	1.88	2.36	60	4.1	8.4	21	12.6	32	21.0	53				
				LPM	1.82	2.54	3.14	3.79	5.07	7.12	8.93	70	0.5	6.8	17	10.2	26	17.0	43				
				GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	20	1.4	8.7	22	13.1	33	21.8	55				
				LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	60	4.1	10.1	26	15.1	38	25.2	64				
	FL1010SS	10	0.125"	GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	7	0.5	6.8	17	10.2	26	17.0	43				
				LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	20	1.4	8.7	22	13.1	33	21.8	55				
				GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	60	4.1	10.1	26	15.1	38	25.2	64				
				LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	70	0.5	6.8	17	10.2	26	17.0	43				
				GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	20	1.4	8.7	22	13.1	33	21.8	55				
				LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	60	4.1	10.1	26	15.1	38	25.2	64				
FL1011SS	11	0.144"	GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	7	0.5	6.8	17	10.2	26	17.0	43					
			LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	20	1.4	8.7	22	13.1	33	21.8	55					
			GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	60	4.1	10.1	26	15.1	38	25.2	64					
			LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	70	0.5	6.8	17	10.2	26	17.0	43					
			GPM	0.62	0.85	0.96	1.10	1.51	2.21	2.66	20	1.4	8.7	22	13.1	33	21.8	55					
			LPM	2.35	3.22	3.63	4.16	5.72	8.36	10.07	60	4.1	10.1	26	15.1	38	25.2	64					

Liquid Atomizing Spray Nozzles

FullStream™ Cone Nozzles - 3/8 NPT



Model: FL30115S
Material: Type 303 Stainless Steel



Model: FL30135S
Material: Type 303 Stainless Steel



Model: FL30165S
Material: Type 303 Stainless Steel



Model: FL30205S
Material: Type 303 Stainless Steel



Model: FL30235S
Material: Type 303 Stainless Steel



Model: FL30265S
Material: Type 303 Stainless Steel



Model: FL30295S
Material: Type 303 Stainless Steel

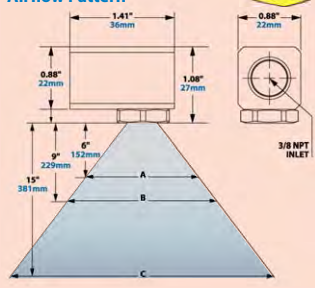
Model FL30115S, FL30135S, FL30165S, FL30205S, FL30235S, FL30265S and FL30295S

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

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

For maximum liquid conservation and spray control visit page 70.

Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com

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



		FullStream Cone Nozzles										Spray Angle									
Inlet Connection	Capacity	Max Free Passage	Flow Rate GPM/LPM										Inlet		Width						
			3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	Pressure PSI/BAR	in		cm		in		cm				
3/8 NPT	11	0.128"	FL30115S	GPM	0.57	0.76	0.91	1.10	1.52	2.20	2.70	7	0.5	8.1	21	12.1	31	20.2	51		
				LPM	2.16	2.88	3.44	4.16	5.75	8.33	10.22	20	1.4	9.9	25	14.8	38	24.7	63		
			FL30135S	GPM	0.75	0.95	1.13	1.30	1.86	2.60	3.34	7	0.5	7.6	19	11.5	29	19.1	49		
	13	0.144"	FL30135S	LPM	2.84	3.60	4.28	4.92	7.04	9.84	12.64	20	1.4	9.0	23	13.6	35	22.6	57		
				FL30165S	GPM	0.98	1.10	1.25	1.60	2.23	2.90	3.60	7	0.5	7.6	19	11.5	29	19.1	49	
			FL30205S	LPM	3.71	4.16	4.73	6.06	8.44	10.98	13.63	20	1.4	9.7	25	14.6	37	24.3	62		
	16	0.154"	FL30205S	GPM	1.22	1.64	1.88	2.00	2.98	4.24	4.82	7	0.5	8.4	21	12.6	32	21.0	53		
				FL30235S	LPM	4.62	6.21	7.12	7.57	11.28	16.05	18.24	20	1.4	9.9	25	14.8	38	24.7	63	
			FL30265S	GPM	1.36	1.76	1.96	2.30	3.18	4.56	5.38	7	0.5	9.0	23	13.6	35	22.6	57		
	20	0.172"	FL30265S	LPM	5.15	6.66	7.42	8.71	12.04	17.26	20.36	20	1.4	11.2	28	16.8	43	18.0	46		
				FL30295S	GPM	1.26	1.80	2.02	2.60	3.30	5.18	6.12	7	0.5	9.7	25	14.6	37	24.3	62	
			FL30295S	LPM	4.77	6.81	7.65	9.84	12.49	19.61	23.17	20	1.4	10.8	27	16.2	41	27.0	69		
	23	0.189"	FL30295S	GPM	1.30	1.84	2.28	2.90	3.62	5.48	6.48	7	0.5	9.9	25	14.8	38	24.7	63		
				FL30295S	LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	20	1.4	10.8	27	16.2	41	27.0	69	
			FL30295S	GPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	60	4.1	12.0	30	18.0	46	30.0	76		
	26	0.204"	FL30295S	LPM	1.30	1.84	2.28	2.90	3.62	5.48	6.48	7	0.5	9.9	25	14.8	38	24.7	63		
				FL30295S	LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	20	1.4	10.8	27	16.2	41	27.0	69	
			FL30295S	GPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	60	4.1	12.0	30	18.0	46	30.0	76		
29	0.221"	FL30295S	LPM	1.30	1.84	2.28	2.90	3.62	5.48	6.48	7	0.5	9.9	25	14.8	38	24.7	63			
			FL30295S	LPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	20	1.4	10.8	27	16.2	41	27.0	69		
		FL30295S	GPM	4.92	6.97	8.63	10.98	13.70	20.74	24.53	60	4.1	12.0	30	18.0	46	30.0	76			

Liquid Atomizing Spray Nozzles

FullStream™ Cone Nozzles - 1/2 NPT



Model: FL50325S
Material: Type 303 Stainless Steel



Model: FL50405S
Material: Type 303 Stainless Steel



Model: FL50485S
Material: Type 303 Stainless Steel



Model: FL50565S
Material: Type 303 Stainless Steel



Model: FL50645S
Material: Type 303 Stainless Steel



Model: FL50725S
Material: Type 303 Stainless Steel

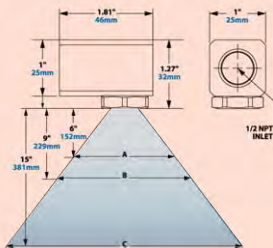
Model FL50325S, FL50405S, FL50485S, FL50565S, FL50645S and FL50725S

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

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

For maximum liquid conservation and spray control visit page 70.

Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com



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

Inlet Connection	Model	Capacity	Max Free Passage	FullStream Cone Nozzles							Spray Angle								
				Flow Rate GPM/LPM							Inlet		Width						
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	Pressure PSI/BAR	A	B	C	A	B	C		
1/2 NPT	FL50325S	32	0.201"	GPM	1.74	2.46	2.80	3.20	4.46	6.28	7.30	7	0.5	9.4	23.9	14.1	35.81	23.4	59.4
				LPM	6.59	9.31	10.60	12.11	16.88	23.77	27.63	20	1.4	10.1	25.7	15.1	38.3	25.2	64.0
				7	0.5	10.1	30.5	18.0	45.7	30.0	76.2	60	4.1	12.0	30.5	18.0	45.7	30.0	76.2
				7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	7	0.5	10.1	25.7	15.1	38.4	25.2	64.0
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL50405S	40	0.242"	GPM	2.68	3.14	3.52	4.00	5.60	7.80	8.76	7	0.5	10.1	25.7	15.1	38.4	25.2	64.0
				LPM	10.14	11.89	13.32	15.14	21.20	29.53	33.16	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	60	4.1	13.1	33.3	19.6	49.8	32.7	83.1
				7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL50485S	48	0.281"	GPM	3.06	3.56	3.96	4.80	6.81	9.58	11.73	7	0.5	10.1	25.7	15.1	38.4	25.2	64.0
				LPM	11.28	13.48	15.00	18.17	25.78	39.26	44.40	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	60	4.1	13.1	33.3	19.6	49.8	32.7	83.1
				7	0.5	10.1	25.7	15.1	38.4	25.2	64.0	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
	FL50565S	56	0.295"	GPM	3.32	4.18	4.67	5.60	7.89	11.22	13.74	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				LPM	12.57	15.82	17.68	21.20	29.87	42.47	52.01	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	60	4.1	13.1	33.3	19.6	49.8	32.7	83.1
				7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9
				60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2
FL50645S	64	0.328"	GPM	3.50	4.50	5.15	6.40	9.13	12.70	15.81	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	
			LPM	13.25	17.03	19.49	24.23	34.56	48.07	59.85	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
			7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	
			7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
			60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	
			60	4.1	13.1	33.3	19.6	49.8	32.7	83.1	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
FL50725S	72	0.359"	GPM	4.08	5.00	6.17	7.20	10.17	14.40	17.64	7	0.5	11.0	28.0	16.5	42.0	27.5	69.9	
			LPM	15.44	18.93	23.36	27.25	38.50	54.51	66.77	20	1.4	12.0	30.5	18.0	45.7	30.0	76.2	
				GPM	15.44	18.93	23.36	27.25	38.50	54.51	66.77	60	4.1	13.1	33.3	19.6	49.8	32.7	83.1

Liquid Atomizing Spray Nozzles

HollowStream™ Cone Nozzles – 1/4 NPT



Model: HL10015S

Material: Type 303 Stainless Steel



Model: HL10025S

Material: Type 303 Stainless Steel



Model: HL10035S

Material: Type 303 Stainless Steel



Model: HL10055S

Material: Type 303 Stainless Steel



Model: HL10085S

Material: Type 303 Stainless Steel



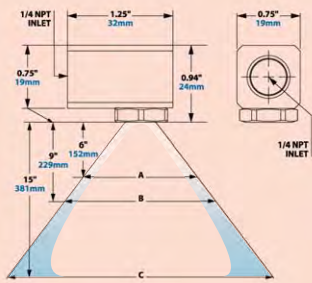
Model: HL10115S

Material: Type 303 Stainless Steel

Model HL10015S, HL10025S, HL10035S, HL10055S, HL10085S and HL10115S

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

Dimensions and Airflow Pattern



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

For maximum liquid conservation and spray control visit page 70.

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

		HollowStream Cone Nozzles							Spray Angle																			
Inlet Connection	Model	Capacity	Max Free Passage	Flow Rate GPM/LPM							Inlet		Width															
				3 psi	5 psi	7 psi	10 psi	20 psi	40 psi	60 psi	Pressure PSI/BAR	A	B	C	in	cm	in	cm	in	cm								
1/4 NPT	HL10015S	1	0.052"	GPM	0.06	0.07	0.09	0.10	0.13	0.18	0.21	7	0.5	4.8	12.3	6.1	15.5	7.8	19.8	LPM	2.0	1.4	7.3	18.5	9.2	23.3	11.7	29.7
				LPM	0.23	0.26	0.34	0.38	0.49	0.68	0.79	60	4.1	12.1	30.8	15.3	38.8	19.5	49.5									
	HL10025S	2	0.086"	GPM	0.14	0.17	0.19	0.20	0.27	0.38	0.46	7	0.5	6.1	15.5	8.6	21.7	11.2	28.4	LPM	2.0	1.4	9.2	23.3	12.8	32.6	16.8	42.6
				LPM	0.53	0.64	0.72	0.76	1.02	1.44	1.74	60	4.1	15.3	38.8	21.4	54.4	28.0	71.1									
	HL10035S	3	0.109"	GPM	0.20	0.24	0.28	0.32	0.45	0.63	0.77	7	0.5	6.8	17.2	10.4	26.5	13.3	33.9	LPM	2.0	1.4	10.2	25.9	15.6	39.7	20.0	50.8
				LPM	0.76	0.91	1.06	1.21	1.70	2.38	2.91	60	4.1	17.0	43.1	26.1	66.2	33.3	84.6									
	HL10055S	5	0.120"	GPM	0.27	0.35	0.39	0.49	0.65	0.91	1.12	7	0.5	8.4	21.3	9.7	24.7	14.3	36.3	LPM	2.0	1.4	12.6	32.0	14.6	37.0	21.5	54.5
				LPM	1.02	1.32	1.47	1.85	2.46	3.44	4.23	60	4.1	21.0	53.4	24.3	61.7	35.8	90.8									
	HL10085S	8	0.166"	GPM	0.46	0.59	0.73	0.80	1.16	1.60	2.04	7	0.5	7.1	18.0	7.8	19.8	10.1	25.6	LPM	2.0	1.4	10.6	26.9	11.7	29.7	15.1	38.4
				LPM	1.74	2.23	2.76	3.02	4.38	6.05	7.71	60	4.1	17.7	44.9	19.5	49.5	25.2	63.9									
	HL10115S	11	0.180"	GPM	0.65	0.81	0.93	1.10	1.47	2.03	2.50	7	0.5	9.5	24.2	12.0	30.5	14.8	37.6	LPM	2.0	1.4	14.3	36.4	18.0	45.7	22.2	56.5
				LPM	2.46	3.06	3.52	4.16	5.56	7.67	9.45	60	4.1	23.9	60.6	30.0	76.2	37.0	94.1									