

Air Atomizing Spray Nozzles



Internal Mix Flat Fan Pattern - 1/8 NPT



Model: AF8010SS
Material: Type 303 Stainless Steel

Model: AF8020SS
Material: Type 303 Stainless Steel

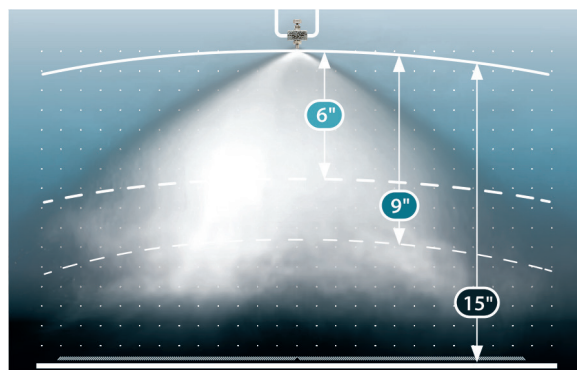
Model: AF8030SS
Material: Type 303 Stainless Steel

Model: AF8040SS
Material: Type 303 Stainless Steel

Model AF8010SS, AF8020SS, AF8030SS and AF8040SS

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

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



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

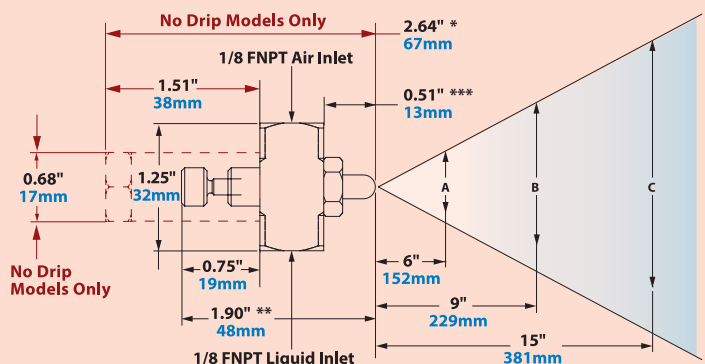
Spray Nozzles

Dimensions and Airflow Pattern



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

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



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



11510 Goldcoast Drive • Cincinnati, OH 45249-1621 • Phone (513) 671-3322
 FAX (513) 671-3363 • E-mail: techelp@exair.com • www.exair.com





No Drip Air Atomizing Spray Nozzles



No Drip Air Atomizing Spray Nozzles



Eliminate drips to conserve valuable liquids and improve product finishes!

What Are No Drip Atomizing Nozzles?

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

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

Internal Mix:

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

External Mix:

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

Siphon Fed:

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

† Patent #9156045

Why No Drip Atomizing Nozzles?

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

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



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

Applications

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

Advantages

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