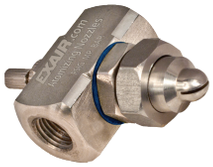
An INTELLIGENT COMPRESSED AIR® Product

New Equipment Digest KING awards 2011 WINNER

Plant Engineering PRODUCT of the YEAR Finalist 2011

Internal Mix Flat Fan Pattern - 1/4 NPT



Model: AF1010SS
Material: Type 303 Stainless Steel

Model: AF1020SS
Material: Type 303 Stainless Steel

Model: AF1030SS
Material: Type 303 Stainless Steel

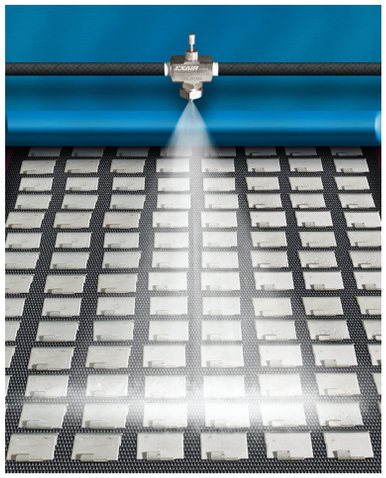
Model: AF1040SS
Material: Type 303 Stainless Steel

Model: AF1050SS
Material: Type 303 Stainless Steel

Model AF1010SS, AF1020SS, AF1030SS, AF1040SS, and AF1050SS

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

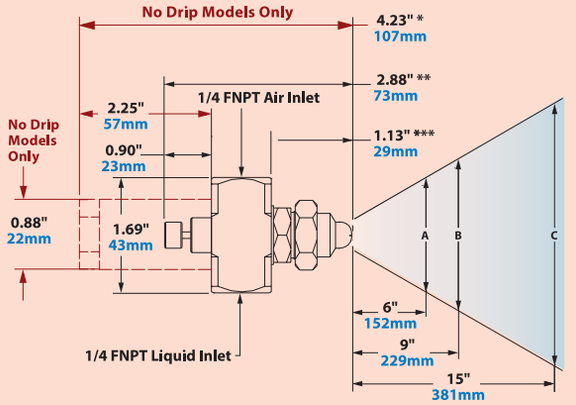
For pressure fed applications not requiring independent air and liquid control.



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

Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



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

No Drip Only Dimensions in Red
See page 93 for No Drip Atomizing 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					
	Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM		Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM		Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM		Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM		Air Pressure PSI/BAR		GPH/ LPH		SCFM/ SLPM	
AF1010SS	10	0.7	1.6	6.1	0.7	20	18	1.2	2.1	7.9	1.0	28	28	1.9	2.4	9.1	1.4	40	38	2.6	2.6	9.8	1.7	48	55	3.8	3.2	12.1	2.2	62
	14	1.0	1.4	5.3	0.9	25	26	1.8	1.7	6.4	1.3	37	40	2.8	1.8	6.8	1.8	51	50	3.4	2.0	7.6	2.1	59	75	5.2	2.3	8.7	3.0	85
	18	1.2	1.1	4.2	1.1	31	34	2.3	1.2	4.5	1.7	48	48	3.3	1.4	5.3	2.1	59	60	4.1	1.6	6.1	2.5	71	90	6.2	1.6	6.1	3.6	102
	22	1.5	0.8	3.0	1.3	37	40	2.8	0.8	3.0	1.9	54	55	3.8	1.0	3.8	2.4	68	70	4.8	1.2	4.5	3.0	85	100	6.9	1.3	4.9	4.1	116
AF1020SS	12	0.8	2.4	9.1	0.7	20	20	1.4	3.4	12.9	0.9	25	30	2.1	3.9	14.8	1.2	34	38	2.6	4.6	17.4	1.4	40	65	4.5	4.7	17.8	2.2	62
	16	1.1	1.8	6.8	0.9	25	28	1.9	2.4	9.1	1.2	34	38	2.6	2.9	11.0	1.5	42	50	3.4	3.2	12.1	1.9	54	75	5.2	3.7	14.0	2.6	74
	18	1.2	1.5	5.7	1.0	28	32	2.2	1.8	6.8	1.5	42	46	3.2	2.0	7.6	1.9	54	60	4.1	2.2	8.3	2.3	65	85	5.9	2.8	10.6	3.0	85
	20	1.4	1.3	4.9	1.1	31	36	2.5	1.4	5.3	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	102
AF1030SS	16	1.1	4.5	17.0	2.0	57	28	1.9	6.0	22.7	2.8	79	38	2.6	7.0	26.5	3.5	99	46	3.2	8.5	32.2	4.0	113	65	4.5	11.0	41.6	5.3	150
	20	1.4	3.3	12.5	2.4	68	32	2.2	5.0	18.9	3.1	88	42	2.9	6.4	24.2	3.8	108	52	3.6	7.5	28.4	4.5	127	70	4.8	10.0	37.9	5.7	161
	24	1.7	2.4	9.1	2.7	76	34	2.3	4.5	17.0	3.3	93	46	3.2	5.5	20.8	4.1	116	58	4.0	6.3	23.8	4.9	139	80	5.5	8.0	30.3	6.4	181
	28	1.9	1.5	5.7	3.1	88	36	2.5	3.9	14.8	3.5	99	48	3.3	5.1	19.3	4.4	125	60	4.1	6.0	22.7	5.2	147	90	6.2	6.4	24.2	7.2	204
AF1040SS	12	0.8	8.1	30.7	1.4	40	22	1.5	12.0	45.4	1.9	54	34	2.3	13.1	49.6	2.7	76	46	3.2	14.3	54.1	3.4	96	65	4.5	18.3	69.3	4.5	127
	16	1.1	5.9	22.3	1.8	51	30	2.1	7.1	26.9	2.7	76	42	2.9	8.9	33.7	3.4	96	54	3.7	10.3	39.0	4.1	116	80	5.5	11.9	45.0	5.9	167
	18	1.2	5.0	18.9	2.0	57	34	2.3	5.6	21.2	3.1	88	48	3.3	6.3	23.8	4.1	116	60	4.1	7.9	29.9	4.8	136	90	6.2	8.5	32.2	6.8	193
	22	1.5	3.3	12.5	2.4	68	38	2.6	4.1	15.5	3.5	99	52	3.6	5.0	18.9	4.5	127	70	4.8	4.6	17.4	5.8	164	100	6.9	6.0	22.7	7.9	224
AF1050SS	14	1.0	8.8	33.3	3.0	85	26	1.8	11.5	43.5	4.3	122	34	2.3	20.8	78.7	4.6	130	42	2.9	30.0	114	4.8	136	58	4.0	42.0	159	5.5	156
	16	1.1	5.3	20.1	3.7	105	28	1.9	7.8	29.5	4.9	139	36	2.5	17.0	64.3	4.9	139	46	3.2	20.5	77.6	6.1	173	65	4.5	30.0	114	6.8	193
	---	---	---	---	---	---	---	---	---	---	---	---	40	2.8	9.0	34.1	6.1	173	50	3.4	13.5	51.1	7.3	207	70	4.8	21.0	79.5	8.7	246
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Spray Dimensions

Pressure				Width						Max. Depth feet/m		
Air PSI/BAR		Liquid PSI/BAR		A		B		C				
				in	cm	in	cm	in	cm			
16	1.1	10	0.7	9	23	12	30	15	38	5	1.5	AF1010SS
30	2.1	20	1.4	11	28	13	33	17	43	6	1.8	
40	2.8	30	2.1	12	30	14	36	20	51	6	1.8	
50	3.4	40	2.8	14	36	16	41	22	56	7	2.1	
85	5.9	60	4.1	14	36	17	43	23	58	7	2.1	
16	1.1	10	0.7	11	28	14	36	19	48	5	1.5	AF1020SS
30	2.1	20	1.4	14	36	17	43	21	53	6	1.8	
42	2.9	30	2.1	14	36	18	46	23	58	6	1.8	
50	3.4	40	2.8	16	41	19	48	26	66	7	2.1	
80	5.5	60	4.1	16	41	21	53	29	74	8	2.4	
20	1.4	10	0.7	11	28	14	36	19	48	10	3.0	AF1030SS
32	2.2	20	1.4	15	38	17	43	23	58	11	3.4	
42	2.9	30	2.1	16	41	21	53	29	74	12	3.7	
54	3.7	40	2.8	19	48	25	64	33	84	14	4.3	
75	5.2	60	4.1	20	51	26	66	35	89	15	4.6	
16	1.1	10	0.7	14	36	18	46	24	61	10	3.0	AF1040SS
32	2.2	20	1.4	15	38	19	48	27	69	12	3.7	
46	3.2	30	2.1	17	43	23	58	30	76	13	4.0	
56	3.9	40	2.8	20	51	25	64	34	86	15	4.6	
85	5.9	60	4.1	21	53	27	69	36	91	15	4.6	
14	1.0	10	0.7	14	36	18	46	23	58	10	3.0	AF1050SS
26	1.8	20	1.4	15	38	19	48	24	61	13	4.0	
38	2.6	30	2.1	16	41	20	51	25	64	16	4.9	
48	3.3	40	2.8	17	43	20	51	27	69	18	5.5	
70	4.8	60	4.1	17	43	21	53	29	74	19	5.8	

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