

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

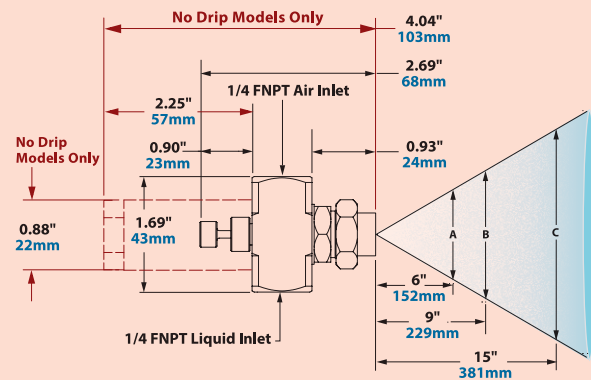
Model ER1010SS, ER1020SS, ER1030SS, ER1040SS and ER1050SS
1/4 NPT external mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern. Applications include spot treatments of parts, covering irregularly shaped objects or 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 93 for No Drip Atomizing Nozzles

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 PSI/BAR	A	B	C						
ER1010SS	5	0.3	0.9 25.5	5	0.3	0.9 25.5	10	0.7	1.3 36.8	20	1.4	1.9 53.8	40	2.8	3.0 85.0	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	9	2.7
	10	0.7	1.3 36.8	10	0.7	1.3 36.8	20	1.4	1.9 53.8	40	2.8	3.0 85.0	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	11	3.4			
	20	1.4	1.9 53.8	30	2.1	2.4 68.0	40	2.8	3.0 85.0	60	4.1	4.1 116	60	4.1	4.1 116	40	2.8	3.0	7.6	4.3	10.9	13	4.0			
	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	60	4.1	3.0	7.6	4.3	10.9	14	4.3			
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	1.9 53.8	40	2.8	3.0 85.0	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	10	3.0
	10	0.7	1.3 36.8	20	1.4	1.9 53.8	20	1.4	1.9 53.8	40	2.8	3.0 85.0	40	2.8	3.0 85.0	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	12	3.7
	30	2.1	2.4 68.0	40	2.8	3.1 87.8	40	2.8	3.1 87.8	60	4.1	4.1 116	60	4.1	4.1 116	40	2.8	3.0	7.6	4.3	10.9	15	4.6			
	50	3.4	3.6 102	60	4.1	4.1 116	60	4.1	4.1 116	90	6.2	5.9 167	90	6.2	5.9 167	60	4.1	3.0	7.6	4.3	10.9	16	4.9			
ER1030SS	10	0.7	1.0 113	10	0.7	1.0 113	15	1.0	1.5 43.3	30	2.1	2.1 59.1	30	2.1	2.1 59.1	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	13	4.0
	20	1.4	2.0 170	20	1.4	2.0 170	30	2.1	2.7 218	40	2.8	2.7 218	40	2.8	2.7 218	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	17	5.1
	40	2.8	2.9 269	40	2.8	2.9 269	50	3.4	3.1 87.8	60	4.1	3.1 87.8	60	4.1	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	23	7.0			
	50	3.4	3.1 87.8	60	4.1	3.1 87.8	70	4.8	3.1 87.8	80	5.5	3.1 87.8	80	5.5	3.1 87.8	60	4.1	3.0	7.6	4.3	10.9	24	7.3			
ER1040SS	15	1.0	1.5 43.3	20	1.4	2.0 170	30	2.1	2.7 218	40	2.8	2.7 218	40	2.8	2.7 218	20	1.4	1.9 53.8	10	0.7	3.0	7.6	4.3	10.9	20	5.8
	30	2.1	2.7 218	30	2.1	2.7 218	40	2.8	2.7 218	50	3.4	3.1 87.8	50	3.4	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	23	7.0			
	40	2.8	2.9 269	40	2.8	2.9 269	50	3.4	3.1 87.8	60	4.1	3.1 87.8	60	4.1	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	24	7.3			
	50	3.4	3.1 87.8	60	4.1	3.1 87.8	70	4.8	3.1 87.8	80	5.5	3.1 87.8	80	5.5	3.1 87.8	60	4.1	3.0	7.6	4.3	10.9	29	8.8			
ER1050SS	40	2.8	2.9 269	55	3.8	3.1 87.8	65	4.5	3.1 87.8	80	5.5	3.1 87.8	80	5.5	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	30	9.1			
	50	3.4	3.1 87.8	65	4.5	3.1 87.8	70	4.8	3.1 87.8	80	5.5	3.1 87.8	80	5.5	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	30	9.1			
	60	4.1	3.1 87.8	70	4.8	3.1 87.8	80	5.5	3.1 87.8	90	6.2	3.1 87.8	90	6.2	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	30	9.1			
	65	4.5	3.1 87.8	80	5.5	3.1 87.8	90	6.2	3.1 87.8	100	7.0	3.1 87.8	100	7.0	3.1 87.8	40	2.8	3.0	7.6	4.3	10.9	32	9.8			

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



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

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 EXTERNAL MIX ATOMIZING NOZZLES



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

Order Direct
 We Ship From Stock