



THE
SPRAY NOZZLE
PEOPLE

1/2 XA

High Flow
Multiple Patterns



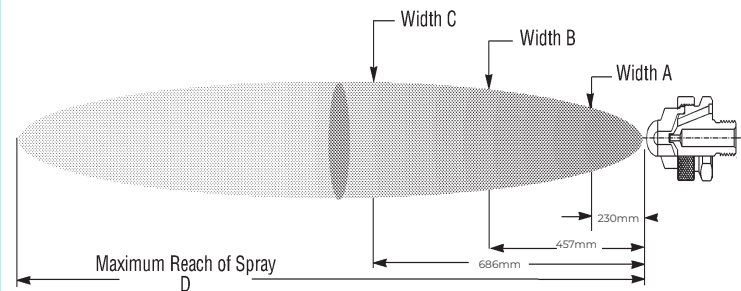
AIR ATOMISING

DESIGN FEATURES

- ▼ Modular design consisting of: air cap, fluid cap, body, and retaining nut.
- ▼ Universal body and nut can be used with any air/fluid cap combination
- ▼ 1/2" female fluid and air inlet for higher flow rates

SPRAY CHARACTERISTICS

- ▼ Finely atomised spray
- ▼ Flat fan, hollow cone, or full cone depending on model
- ▼ Flow rates: 15 - 1158 l/hr



The 1/2 XA air atomising nozzle is a larger version of our standard XA air atomising nozzles. This series of nozzles gives larger flow rates and has 1/2" female threaded inlets to accommodate these higher flows. They are suitable for all the same applications as standard air atomisers that require larger liquid flows. It should be noted that the higher flow rates come at the expense of droplet size which, although still small when compared to hydraulic nozzles, is larger than with standard air atomisers.

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The Go-to People for spray nozzle solutions

AD 1/2" XAAD Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Wide Angle Round Spray Pattern, 1/2" Pipe Size, BSP or NPT
Standard Materials: Nickel-plated Brass, 303 and 316 Stainless Steel

Spray Setup No.	Fluid and Air Cap No.	0.35 Bar Liquid			1.0 Bar Liquid			2.0 Bar Liquid			3.0 Bar Liquid			4.0 Bar Liquid			Bar		Spray Dimensions				
		Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	air	liquid	A mm	B mm	C mm	D m	
AD 5050	FC501 & AC5601							2.1	213	10.6	3.1	316	12.8	4.2	238	21.1	2.1	2	360	480	690	6.7	
								2.3	127	14.9	3.2	195	17.5	4.3	154	26.3	3.2	3	360	480	690	7.3	
											3.4	107	22.3	4.5	100	31.3	4.3	4	360	480	690	8.5	
Ad 5100	FC501 & AC5602	0.6	102	11	1.1	215	9.18	2.5	185	21.3	3.7	192	33.6	5	230	49.8	0.7	0.35	330	470	650	6.1	
		0.7	57	13.8	1.3	124	13.8	2.7	146	24.6	3.9	150	37.2	5.3	158	56.4	1.3	1	340	480	670	7.9	
		0.85	32	16.8	1.4	84	16.8	2.8	112	27.9	4	119	40.8	5.6	108	64.8	2.8	2	330	470	650	6.4	
									3	86	31.2	4.2	86	46.2				4	3	340	480	670	7.3
									3.1	65	34.8	4.6	51					5.3	4	360	480	690	8.2
AD 5150	FC501 & AC5603	0.7	129	19.5	1.7	182	32.4	3.1	265	48.6	4.3	350	60				0.85	0.35	360	500	690	7.9	
		0.85	82	22.2	1.8	143	35.4	3.2	215	51.6	4.6	260	64.8				1.7	1	330	480	660	7.3	
		1	45	24.9				3.4	173	54.6	5	186	72				3.4	2	330	470	660	7	
								3.5	136	57								4.6	3	360	500	690	8.5
								3.6	120	58.8													
AD 5200	FC502 & AC5604	0.7	134	18.9	1.3	320	26.4	2.1	575	34.2	3	740	42.6	3.9	840	51.6	0.7	0.35	330	640	910	3.4	
		0.85	100	22.8	1.4	255	31.2	2.2	505	38.4	3.1	690	46.2	4.1	790	55.8	1.4	1	330	660	910	4.9	
					1.5	200	35.4	2.4	440	43.2	3.2	630	50.4	4.2	740	59.4	2.5	2	280	560	810	6.1	
					1.7	154	40.2	2.5	380	47.4	3.4	570	54.6	4.4	690	64.2	3.4	3	280	530	740	6.7	
								2.7	330	51.6	3.5	520	58.8	4.5	650	68.4	4.5	4	280	560	790	7.6	
								2.8	275	55.8	3.7	470	63	4.6	600	72.6							
								3	235	60.6	3.8	420	67.2	4.8	550	76.8							
								3.1	195	64.8	3.9	345	71.4	4.9	510	81							
											4.1	325	75.6	5.1	465	85.8							
														5.2	425	89.4							
												5.3	390	93.6									
												5.5	350	98.4									

PR 1/2" XA PR Set-up Flow Rates and Dimensions

Pressure-fed, External Mix, Round Spray Pattern, 1/2" Pipe Size, BSP or NPT
Standard materials: Nickel-plated Brass, 303 and 316 Stainless Steel

Spray Setup No.	Fluid and Air Cap No.	0.35 Bar Liquid			1.0 Bar Liquid			2.0 Bar Liquid			3.0 Bar Liquid			4.0 Bar Liquid			Bar		Spray Dimensions				
		Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air	Liquid	A mm	B mm	C mm	D m	
PR 5050	FC501 & AC5501	1.3	34	21	1.7	146	21.9	3	230	30.6							1.4	0.35	90	160	250	6.7	
		1.4	25	23.4	1.8	121	23.7	3.1	200	33							2	1				7.3	
		1.5	20	24.9	2	102	25.8	3.2	176	35.4							3.2	2				8.2	
		1.7	15.5	26.7	2.1	86	27.6	3.4	154	37.2													
					2.3	72	29.4	3.5	135	39.6													
PR 5100	FC502 & AC5502				2.4	60	31.2	3.6	118	42													
		0.7	134	18.9	1.3	320	26.4	2.1	575	34.2	3	740	42.6	3.9	840	51.6	0.7	0.35	100	180	230	7	
		0.85	100	22.8	1.4	255	31.2	2.2	505	38.4	3.1	690	46.2	4.1	790	55.8	1.4	1	150	250	330	6.4	
					1.5	200	35.4	2.4	440	43.2	3.2	630	50.4	4.2	740	59.4	2.5	2	130	200	250	11.3	
					1.7	154	40.2	2.5	380	47.4	3.4	570	54.6	4.4	690	64.2	3.4	3	100	180	250	12.5	
								2.7	330	51.6	3.5	520	58.8	4.5	650	68.4	4.5	4	100	180	250	14.3	
								2.8	275	55.8	3.7	470	63	4.6	600	72.6							
								3	235	60.6	3.8	420	67.2	4.8	550	76.8							
								3.1	195	64.8	3.9	345	71.4	4.9	510	81							
											4.1	325	75.6	5.1	465	85.8							
												5.2	425	89.4									
												5.3	390	93.6									
												5.5	350	98.4									

EF 1/2" XA EF Set-up Flow Rates and Dimensions

Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/2" Pipe Size, BSP or NPT
Standard materials: Nickel-plated Brass, 303 and 316 Stainless Steel

Spray SetUp No	Fluid & Air Cap No	0.2 Bar Liquid			0.35 Bar Liquid			0.5 Bar Liquid			0.7 Bar Liquid			1.0 Bar Liquid			Spray Dimensions					
		Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	Liquid (bar)	A	B	C	D (mm)
EF 5050	FC FC501 & AC AC5001	2.1		52.6	2.8		64.5	3.2		70.4	3.9		81.5	5.6		110	2.5	0.2	216	368	520	5.80
		2.5		57.7	3.2		70.4	3.5		76.4	4.2		87.4	6.0		117	3.5	0.4	229	420	550	6.71
		2.8		64.5	3.5		76.4	3.9		81.5	4.9		98.4	6.3		122	3.9	0.5	241	445	580	7.02
		3.2	522	70.4	3.9	681	81.5	4.2	795	87.4	5.3	953	105	6.6	1158	127	4.9	0.7	241	460	610	7.63
					4.2		87.4	4.6		93.3	5.6		110	7.0		132	6.3	1.0	254	480	660	8.85
								4.9		98.4	6.0		117									

PF 1/2" XA PF Set-up Flow Rates and Dimensions

Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/2" Pipe Size, BSP or NPT
Standard materials: Nickel-plated Brass, 303 and 316 Stainless Steel

Set-Up No	Fluid & Air Cap No	0.35 Bar Liquid			1.0 Bar Liquid			2.0 Bar Liquid			3.0 Bar Liquid			4.0 Bar Liquid			Dimensions de pulvérisation						
		Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	liquid (bar)	A	B	C	D (mm)	
PF 5050	Fluid Cap FC501 & Air Cap AC5301				1.8	154	35.4	3.4	184	57.0							2.0	1.0	460	740	910	5.8	
					2.0	119	38.4	3.5	157	60.6							3.5	2.0	510	790	970	7.0	
					2.0	93	41.4	3.7	133	63.6													
PF5100	Fluid Cap FC502 & Air Cap AC5302	0.7	134	18.9	1.3	320	26.4	2.1	575	34.2	3.0	740	40.8	3.9	840	51.6	0.7	0.35	510	860	1190	4.0	
		0.85	100	22.8	1.4	255	31.2	2.2	505	38.4	3.1	690	43.2	4.1	790	55.8	1.4	1.0	860	1570	2110	4.6	
					1.5	200	35.4	2.4	440	43.2	3.2	630	46.1	4.2	740	59.4	2.5	2.0	860	1570	2080	5.2	
					1.7	154	40.2	2.5	380	47.4	3.4	570	50.8	4.4	690	64.2	3.4	3.0	910	1680	2160	5.8	
								2.7	330	51.6	3.5	520	54.1	4.5	650	68.4	4.5	4.0	910	1700	2260	6.4	
								2.8	275	55.8	3.7	470	59.3	4.6	600	72.6							
								3.0	235	60.6	3.8	420	63.3	4.8	550	76.8							
								3.1	195	64.8	3.9	345	69.2	4.9	510	81.0							
									4.1	325	74.1	5.1	465	85.8									
												5.2	425	89.4									
												5.3	390	93.6									
												5.5	350	98.4									

SR 1/2" XA SR Set-up Flow Rates and Dimensions

Siphon-fed, External Mix, Round Spray Pattern, 1/2" Pipe Size, BSP or NPT
Standard materials: Nickel-plated Brass, 303 and 316 Stainless Steel

Set-Up Number	Fluid and Air Cap Numbers	Atomising Air		Gravity Head				Siphon Height				Spray Dimensions at 200mm Siphon Ht		
		Air (bar)	Air Capacity (Nm ³ /h)	450 mm	300 mm	150 mm	100 mm	200 mm	300 mm	600 mm	Air (bar)	B (mm)	D (mm)	
SR 5050	Fluid Cap FC501 & Air Cap AC5201	0.7	21.6				40					1.5	150	6.1
		1.5	34.2				97	64				2		6.7
		2	39.6				117	90				3		7.3
		3	52.2		260	225	150	123	90			3.5		7.9
		3.5	59.4	300	265	235	163	133	104			4		8.8
		4	66	305	270	240	170	143	115			5		9.8
		5	78	315	280	250	183	157	129	53		5.6		10.7
		5.6	87	320	290	255	188	164	136	62				

XW 1/2" XAXW Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Extra-wide Angle, Hollow Cone Spray Pattern, 1/2" Pipe Size, BSP or NPT
Standard materials: Nickel-plated Brass, 303 and 316 Stainless Steel

Spray Setup Number	Fluid and Air Cap Numbers	0.7 Bar Liquid			1.4 Bar Liquid			2.1 Bar Liquid			2.8 Bar Liquid			4.2 Bar Liquid		
		Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h	Air (bar)	l/h	Nm ³ /h
XW 5050	FC502 & AC5401	1	213	20.7	1.7	394	27.2	2.5	439	38	3.4	462	47.2	5	484	68.3
		1.1	145	25.1	1.8	324	31.6	2.7	372	42.1	3.5	416	50.6	5.2	439	71.8
		1.3	98	34.5	2	275	34.4	2.8	322	45	3.7	372	53.4	5.3	409	75.2
		1.4	59	32.3	2.1	207	38.5	3	277	49.1	3.8	325	57.3	5.5	366	78.6
					2.3	159	42.1	3.1	272	52.4	3.9	282	61.1	5.6	325	82
					2.4	116	45.5	3.2	188	55.8	4.1	250	65	5.8	297	85.7
					2.5	93	49.7	3.4	145	59.4	4.2	209	68.1	5.9	257	89.1
					2.7	27	54	3.5	114	63	4.4	168	71.3	6	232	93
											4.5	141	75.5	6.3	182	100
											4.6	77	77.7			