

# XAEF

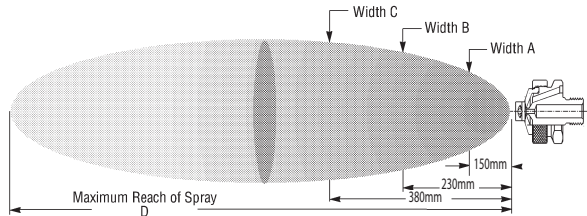
## Pressure-fed/External Mix/Flat Fan

### DESIGN FEATURES

- External mix: allows spraying of viscous materials
- Variable atomization
- Moderate spray angle (60°- 90°)
- Precise metering of the liquid flow rate



1/4"XA EF 150 E  
XA 00 Body; E Hardware



Dimensions are approximate. Check with BETE for critical dimension applications.

### XA EF Set-up Flow Rates and Dimensions

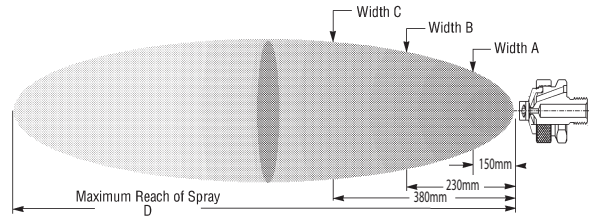
Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/8" and 1/4" Pipe Sizes, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.2 Bar Liquid		0.3 Bar Liquid		0.7 Bar Liquid		1.5 Bar Liquid		3.0 Bar Liquid		Spray Dimensions											
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	air	liquid	A (mm)	B (mm)	C (mm)	D (m)				
1/8	EF 050	Fluid Cap FC7 & Air Cap AC1001	0.4		1.32	0.4	1.32	0.4	1.50	0.6	1.50	0.6	1.68	0.7	2.04	1.1	2.04	0.6	0.7	230	300	400	1.8	
			0.4		1.50	0.4	1.50	0.4	1.68	0.7	2.04	1.1	2.70	1.1	2.70	1.1	2.70	0.6	1.5	280	350	460	1.8	
			0.5	3	1.62	0.6	1.68	0.7	1.68	0.7	2.04	1.1	2.70	1.8	3.72	1.4	1.5	280	330	430	300	410	2.7	
			0.6		1.68	0.7	2.04	0.9	2.04	0.9	2.40	1.4	3.24	2.5	4.74	1.1	2.0	280	350	480	280	350	480	2.6
																1.4	3.0	300	380	510	300	380	510	2.7
1/8	EF 100	Fluid Cap FC7 & Air Cap AC1003	0.2		1.51	0.4	1.58	0.7	1.87	1.1	2.38	1.8	2.72	2.8	4.38	2.2	5.10	0.2	0.2	90	150	230	0.9	
			0.4		1.58	0.7	1.87	1.1	2.38	1.4	2.72	2.1	3.57	4.2	6.12	1.4	0.4	100	150	230	150	230	1.2	
			0.7	3	2.38	1.4	2.72	1.8	3.23	2.8	4.42	4.9	7.14	1.4	1.4	120	180	250	150	250	150	250	1.5	
			1.1		2.72	1.8	3.23	2.1	3.56	3.5	5.10	5.3	7.65	1.8	0.7	120	150	240	150	240	150	240	1.5	
			1.4		3.23	2.1	3.56	2.8	4.42	4.2	6.12	5.6	8.34	2.8	1.4	130	180	280	180	280	180	280	1.8	
			2.1		3.56	2.8	4.42	3.5	5.10	5.6	7.14	6.3	9.54	4.9	2.8	150	180	240	180	240	180	240	2.4	
1/8	EF 150	Fluid Cap FC4 & Air Cap AC1001	0.4		1.32	0.4	1.32	0.6	1.68	0.7	2.04	1.4	2.04	1.1	2.70	1.1	2.70	0.7	0.3	280	330	400	1.5	
			0.6		1.68	0.7	2.04	0.7	2.04	1.4	3.24	1.4	3.24	1.4	3.24	0.7	1.5	380	460	580	380	480	2.1	
			0.7	5	2.04	1.1	2.70	1.4	3.24	2.1	4.26	2.1	4.26	2.1	4.26	1.4	1.5	350	430	560	430	560	2.4	
			1.1		2.70	1.4	3.24	2.1	4.26	2.5	5.10	2.5	7.14	1.8	2.0	380	460	580	400	510	300	410	510	3.0
																1.8	3.0	410	480	660	410	480	660	2.9
1/4	EF 200	Fluid Cap FC4 & Air Cap AC1003	0.4		1.58	0.7	1.87	1.1	2.38	1.8	3.23	2.8	3.2	4.92	0.4	0.2	80	140	220	140	220	1.0		
			0.7		1.87	1.1	2.38	1.4	2.72	2.1	3.56	3.5	5.10	1.4	0.2	90	150	220	150	230	180	1.7		
			1.1	5	2.38	1.4	2.72	1.8	3.23	2.8	4.42	4.2	6.12	1.8	0.4	100	170	230	170	230	180	2.1		
			1.4		2.72	1.8	3.23	2.1	3.56	3.5	5.10	4.9	7.14	1.8	1.4	130	190	290	190	290	210	290	1.8	
			1.8		3.23	2.1	3.56	2.8	4.42	4.2	6.12	5.3	7.62	2.1	0.7	130	180	250	180	250	180	250	1.8	
			2.8		4.42	3.5	5.10	4.2	6.12	6.3	9.54	6.7	9.84	5.3	2.8	150	220	300	220	300	240	300	2.4	
1/4	EF 250	Fluid Cap FC3 & Air Cap AC1001	0.4		1.50	0.4	1.50	0.4	1.50	0.7	2.04	1.4	2.04	1.4	3.24	0.6	0.3	350	480	610	350	480	1.8	
			0.5		1.65	0.6	1.68	0.6	1.68	0.9	2.40	1.8	3.24	1.8	3.72	0.7	1.5	380	480	630	480	630	1.5	
			0.6	9	1.68	0.7	1.86	0.7	2.04	1.1	2.70	2.1	4.26	1.4	1.5	410	510	660	410	510	660	410	510	2.1
			0.7		2.04	0.7	2.04	0.9	2.40	1.4	3.24	2.5	4.74	1.8	2.0	410	510	690	410	510	690	410	510	2.7
																2.1	3.0	410	510	690	410	510	690	2.9
1/4	EF 300	Fluid Cap FC3 & Air Cap AC1003	0.7		1.87	1.1	2.38	1.4	2.72	2.5	3.56	4.2	4.08	3.5	5.10	0.7	0.2	130	170	250	130	170	1.2	
			1.1		2.38	1.4	2.72	1.8	3.23	2.1	3.56	3.5	5.10	4.2	4.2	1.8	0.2	130	170	250	170	250	1.8	
			1.4		2.72	1.8	3.23	2.1	3.56	2.8	4.42	4.2	6.12	4.9	5.3	2.1	0.4	130	180	240	180	240	1.8	
			1.8	9	3.23	2.1	3.56	2.8	4.42	4.2	6.12	5.3	7.62	2.5	1.4	140	200	320	140	200	320	180	240	2.3
			2.1		3.56	2.8	4.42	3.5	5.10	4.2	6.12	5.6	8.34	2.8	0.7	140	190	300	190	300	230	300	230	2.3
			2.8		4.42	3.5	5.10	4.2	6.12	5.6	8.34	6.3	9.54	4.2	1.4	140	200	360	200	360	200	360	200	360
3.5		5.10	4.2	6.12	4.9	7.14	6.3	9.54	7.0	10.56	5.3	2.8	170	200	300	200	300	200	300	200	300	4.0		

Standard Materials: Nickel-plated Brass, 303 Stainless Steel, and 316 Stainless Steel

AIR ATOMISING

TO ORDER: specify pipe size, body style, spray set-up #, hardware and mounting assemblies, and material. See page 78.



Dimensions are approximate. Check with BETE for critical dimension applications.

**XA EF Set-up Flow Rates and Dimensions**  
 Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/8" and 1/4" Pipe Sizes, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.2 Bar Liquid			0.3 Bar Liquid			0.7 Bar Liquid			1.5 Bar Liquid			3.0 Bar Liquid			Spray Dimensions					
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	air	liquid	A (mm)	B (mm)	C (mm)	D (m)
1/8 OR 1/4	EF 350	Fluid Cap FC6 & Air Cap AC1002	0.6		5.46	0.7		6.12	1.4		9.36	2.1		12.6	3.2		17.1	1.4	0.3	330	380	480	3.8
			0.7		6.12	1.1		7.80	2.1		12.6	2.8		15.6	4.2		21.6	2.1	0.7	330	400	560	4.3
			1.1	13	7.80	1.8		11.0	2.5		14.1	3.5		18.6	5.3		25.8	3.2	1.5	380	480	660	4.6
			1.4		9.36	2.1		12.6	2.8		15.6	4.2		21.6	5.6		27.3	4.2	1.5	380	480	640	5.2
	EF 400	Fluid Cap FC6 & Air Cap AC1004	0.7		5.10	1.0		6.12	1.4		6.96	2.5		10.7	3.2		12.7	0.7	0.2	130	190	250	1.7
			1.0		6.12	1.4		6.96	1.8		8.34	2.8		11.7	3.5		13.9	1.8	0.2	130	190	250	2.7
			1.4	13	6.96	1.8		8.34	2.1		9.36	3.5		13.6	3.9		15.3	2.1	0.4	150	190	280	3.0
			1.8		8.34	2.1		9.36	2.5		10.7	4.2		16.0	4.2		16.5	2.5	0.7	150	220	280	3.5
			2.1		9.36	2.8		11.7	2.8		11.7	4.9		18.7	4.9		18.8	2.5	1.4	170	230	360	3.7
	EF 450	Fluid Cap FC2 & Air Cap AC1002	0.6		5.46	0.7		6.12	1.1		7.80	2.5		14.1	3.5		18.6	1.1	0.2	330	380	510	3.5
			1.1		7.80	1.4		9.36	1.8		11.0	3.2		17.1	4.6		22.8	1.8	0.7	350	480	640	3.0
			1.4	18	9.36	1.8		11.0	2.5		14.1	3.9		19.8	6.0		28.5	2.5	1.5	380	460	640	3.8
1.8				11.0	2.1		12.6	2.8		15.6	4.2		21.6	6.7		31.5	3.2	1.5	330	430	610	4.3	
																		4.2	2.0	300	430	580	4.9
																		4.9	3.0	330	430	610	5.2
EF 500	Fluid Cap FC2 & Air Cap AC1004	0.7		5.10	1.4		6.96	1.8		8.34	2.8		11.7	3.5		13.9	0.7	0.4	150	190	270	2.1	
		1.0		6.12	1.8		8.34	2.1		9.36	3.2		12.7	4.2		16.5	1.8	0.7	150	190	270	3.0	
		1.4	18	6.96	2.1		9.36	2.5		10.7	3.5		13.6	4.9		18.8	2.5	1.4	150	220	330	3.4	
		1.8		8.34	2.5		10.7	2.8		11.7	4.2		16.0	5.3		20.4	2.8	1.4	150	220	360	3.8	
		2.1		9.36	2.8		11.7	3.5		13.6	4.9		18.7	5.6		21.6	2.8	1.4	170	250	370	4.0	
EF 550	Fluid Cap FC1 & Air Cap AC1002	0.7		6.12	1.1		7.80	1.8		11.0	3.2		17.1	5.3		25.8	2.1	0.3	400	560	760	3.0	
		1.1		7.80	1.4		9.36	2.1		12.6	3.5		18.6	6.0		28.5	2.8	0.7	460	580	810	4.0	
		1.4	36	9.36	2.1		12.6	2.8		15.6	4.9		24.3	6.7		31.5	4.6	1.5	430	530	760	4.9	
		1.8		11.0	2.5		14.1	3.2		17.1	5.9		27.3	7.0		33.0	5.6	1.5	380	510	660	5.8	
EF 600	Fluid Cap FC1 & Air Cap AC1004	1.0		6.12	1.8		8.34	2.5		10.7	3.2		12.7	3.9		15.3	1.0	0.2	150	200	250	2.7	
		1.4		6.96	2.1		9.36	2.8		11.7	3.5		13.6	4.2		16.5	2.1	0.2	150	220	290	3.0	
		1.8	36	8.34	2.5		10.7	3.2		12.7	3.9		14.8	4.6		17.8	2.8	0.4	180	240	360	3.5	
		2.1		9.36	2.8		11.7	3.5		13.6	4.2		16.0	4.9		18.8	3.2	1.4	200	280	390	3.7	
		2.5		10.7	3.2		12.7	4.2		16.0	4.9		18.7	5.6		21.6	3.5	0.7	190	270	380	4.0	
EF 650	Fluid Cap FC8 & Air Cap AC1005	1.8		14.1	1.8		14.1	2.5		18.0	3.9		24.6				1.8	0.2	150	200	290	3.0	
		2.1		15.6	2.1		15.6	2.8		19.8	4.2		26.7				2.8	0.2	150	200	300	3.4	
		2.5	36	18.0	2.5		18.0	3.2		21.3	4.6		28.8				2.8	0.3	150	200	300	4.0	
		2.8		19.8	2.8		19.8	3.5		22.8	4.9		31.2				3.5	0.7	170	220	320	4.3	
		3.2		21.3	3.2		21.3	3.9		24.6	5.3		33.9				3.9	1.5	170	220	340	4.6	
		3.5		22.8	3.5		22.8	4.2		26.7	5.6		36.0				4.2	1.0	170	230	330	4.7	
EF 700	Fluid Cap FC9 & Air Cap AC1005	2.1		15.6	2.8		19.8	3.9		24.6	4.9		31.2				2.1	0.2	170	240	340	3.5	
		2.5		18.0	3.2		21.3	4.2		26.7	5.3		33.9				3.2	0.2	180	240	360	4.3	
		2.8	64	19.8	3.5		22.8	4.6		28.8	5.6		36.0				3.9	0.3	180	250	360	4.9	
		3.2		21.3	3.9		24.6	4.9		31.2	6.0		38.4				4.9	0.7	180	250	360	5.5	
		3.5		22.8	4.2		26.7	5.3		33.9	6.3		41.1				4.9	1.5	200	250	380	5.5	
		4.2		26.7	4.9		31.2	5.6		36.0	6.3		41.1				5.3	1.0	180	250	380	5.8	
EF 750	Fluid Cap FC5 & Air Cap AC1005	2.8		19.8	3.5		22.8	4.6		28.8	5.6		36.0				2.8	0.2	190	250	360	4.6	
		3.2		21.3	3.9		24.6	4.9		31.2	6.0		38.4				3.9	0.2	200	250	370	4.9	
		3.5	102	22.8	4.2		26.7	5.3		33.9	6.3		41.1				4.6	0.3	200	250	370	5.2	
		3.9		24.6	4.6		28.8	5.6		36.0	6.3		41.1				5.3	0.7	220	270	380	5.5	
		4.2		26.7	4.9		31.2	6.0		38.4	6.3		41.1				5.6	1.0	220	270	410	5.5	
4.9		31.2	5.6		36.0	6.3		41.1	6.3		41.1				6.0	1.5	220	270	410	5.8			
																6.0	1.5	220	270	410	6.1		

Standard Materials: Nickel-plated Brass, 303 Stainless Steel, and 316 Stainless Steel