



FRAM		BLAC	ES		SEA (Optio	LS nal)		AXLES			EARING	s	LINKAGE		ACCESSORIES (Optional)		
8" x 2 3/16" x 1/4" (203 x 56 x 6)		7 1/2" (191) wide,			Silico	ne Blade Se	al		l" (19) diamete	er				otopo sida listana		Bolt Holes - 1 Flange	
(203 x 56 x 6) Fiberglass Chann	el	Airfoil shape			Vitop	n Blade Sea	I	fibe	fiberglass rod				316SS side linkage			Bolt Holes - 2 Flanges	
					EPDI	I Blade Sea	I		" (19) diamete	er							
					SS Ja	amb Series		310	6 SS								
					Polyc Jamb	arbonate Seal											
					Axle	Axle Shaft Seal											
QTY.				[	DIMEN	ISION	S				TEMP.		со	MMENTS	TAG		
	Α	В	С	F	G	н	J	к	L	М	°F						
PROJE	CT:										LO	CATION	1:				

**CONTRACTOR:** 

DATE:

Model 426AF-1217/Replaces Model 426AF-717 ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

**ARCH/ENGR:** 

**REPRESENTATIVE:** 

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## **MODEL 426AF PERFORMANCE DATA**

Damper	Maximum	Maximum	Leak with S	0	Leakage without Seals*		
Width	System Back	System	% of	CFM/	% of	CFM/	
	Pressure	Velocity	max. flow	sq. ft.	max. flow	sq. ft.	
48" (1219)	5.5" w.g.	4000 fpm	0.18	7	1.00	40	
36" (914)	9.0" w.g.	4000 fpm	0.18	7	1.25	50	
24" (610)	14.0" w.g.	4000 fpm	0.25	10	1.50	60	
12" (305)	16.0" w.g.	4000 fpm	0.30	12	2.50	100	

Damper may tolerate higher pressures and velocities than those listed here. Conservative ratings are presented intentionally in an effort to avoid misapplication. Consult Ruskin or your Ruskin representative when a damper is to be applied in conditions exceeding recommended maximums.

\*Leakage information based on pressure differential of 1" w.g. tested per AMCA Std. 500.

## LEAKAGE CORRECTION FACTOR

Static Pressure (in. w.g.)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction Factor	1.0	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0

## **DETERMINING LEAKAGE:**

To determine leakage at static pressure differentials higher than one inch water gage, multiply leakage at one inch (determined from appropriate table above) by correction factor for higher static pressure (determined from the Leakage Correction Factor Table).

Example:

Find leakage for a 36" (914) wide damper equipped with optional blade and jamb seals at 3 inches water gage: 7 CFM/sq. ft. x 1.7 = 11.9 CFM/sq. ft. leakage at 3 inches water gage.

## MODEL 426AF SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans or in accordance with schedules, fiberglass airfoil blade design backdraft dampers. Dampers shall be of the pultruded construction and comply with ASTM D4385-84 and ASTM E-84. Material used in construction shall be a flame retardant vinyl ester based resin. All materials in the airstream must meet or exceed required contamination concentrations. Bearing design shall be based on system pressure and shall be of a Teflon based material with graphite impregnation. All exposed glass shall be coated with resin compatible to that used in the pultrusion process. No exposed or non-coated edges are acceptable. Damper blade skins shall be a minimum of 5/32" (4) thick hollow airfoil shape and be complete with a full length pultruded axle pocket. Axle pockets shall be reinforced to meet or exceed the required loading. Blade shape shall also include a pultruded slot for insertion of optional blade seals. All inside surfaces shall utilize the same surfacing veils incorporated on the service side of

the blade. Single skin, open contact, or hand lay-up blades are not acceptable. Damper frame shall be 8" deep x 23/16" (203 x 56) flanged style minimum 1/4" (6) thick. Fiberglass axles shall be minimum <sup>3</sup>/<sub>4</sub>" (19) diameter pultruded construction of a vinyl ester based resin combined with continuous strand roving and complete with surfacing veil. Damper linkage shall be located out of airstream and constructed of 316SS. Face linkage in airstream is not acceptable. Standard damper construction shall withstand 14" WG and 4000 FPM based on a 24" (610) blade length. Submittal information shall include published performance data based on AMCA Standard 500 testing illustrating maximum pressure data, flow ratings, and leakage characteristics for a full range of damper sizes. Data illustrating one size damper only is not acceptable. Manufacturer shall submit a sample damper for construction review and approval. Damper shall be Ruskin Swartwout Series model 426AF.



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