

Smoke Damper Airfoil Blade – Model 662 CLASS II

Features – U.L. rated 555S leakage CLASS II @ 350° F (176°) C Smoke Damper. Meets NFPA 90A & 555S. Meets California State Fire Marshal Requirements.

STANDARD CONSTRUCTION

FRAME

5.5" (102) deep, 8 gauge (3.1) extruded aluminum 6063-T5

BLADES

6" (152) wide, double wall 12 gauge (2.0) extruded aluminum 6063-T5 in airfoil shape. (Top and bottom blades width may vary depending on damper height)

BLADE AXLES & BEARINGS

AXLES – 7/16" (11) Plated hex

BEARINGS – Bronze oil impregnated

LINKAGE

Plated steel concealed inside of jamb

Drive shaft has a 6" (152) shaft to mount operator

SEALS

Solid silicone blade edge and stainless steel jamb seals

MAXIMUM SINGLE SECTION

32" W x 48"H (813 x 1219)

MINIMUM SIZE

8"W x 8"H (203 x 203)

UNDERSIZED

1/4" (102) under ordered size unless specified Exact or Actual

FINISH

Mill

OPERATOR

Refer to UL approved actuator chart
(Specify external or internal mounting)

OPTIONAL CONSTRUCTION

SPECIFIED MATERIAL – Available in Stainless

SLEEVE AND DUCTWORK CONNECTION – 10 ga.(3.5) to 20 ga.(1.0) galvanized steel to 30" (762) in length. – Transitions available in: round, oval, rectangular or custom. Factory can install access door, retaining angles, or flange connections.

FINISH – Air-dry primer, polyurethane, epoxy, or enamel, Baked epoxy or enamel.

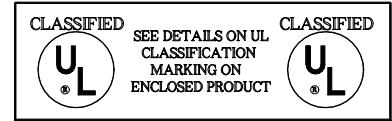
* Dampers 11" (279) high and under will be single blade, and extend from the frame proportionately.

ACCESSORIES

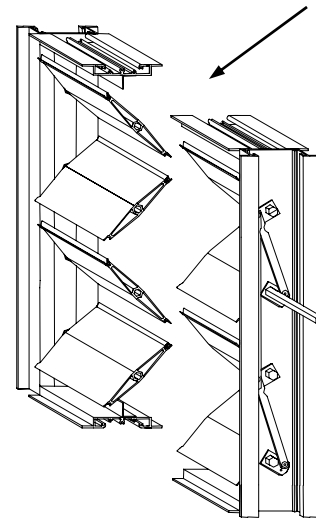
- Smoke Detector
- Indicator Switches
- Monitoring Station



03230-0751-105



Separation drawn in true 90° blades and frame configuration.



APPROVED ACTUATORS

	Honeywell	Siemens	Belimo
24 Vac -	ML 8115	GND121.1U	FSNF24 US*
	MS 4309	GND126.1U	
	MS 8120	GGD121.1U	
120 Vac -	ML 4115	GND221.1U	FSNF120 US*
	MS 4209	GND226.1U	
	MS 4120	GGD221.1U	
230 Vac -		GND321.1U	
		GGD321.1U	
Pneumatic -		331-2961	
		331-3060	
		331-4826	

* Only for dampers up to 24" x 24"

DATE	ARCHITECT			ENGINEER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION



DEPENDABLE PRODUCTS SINCE 1955

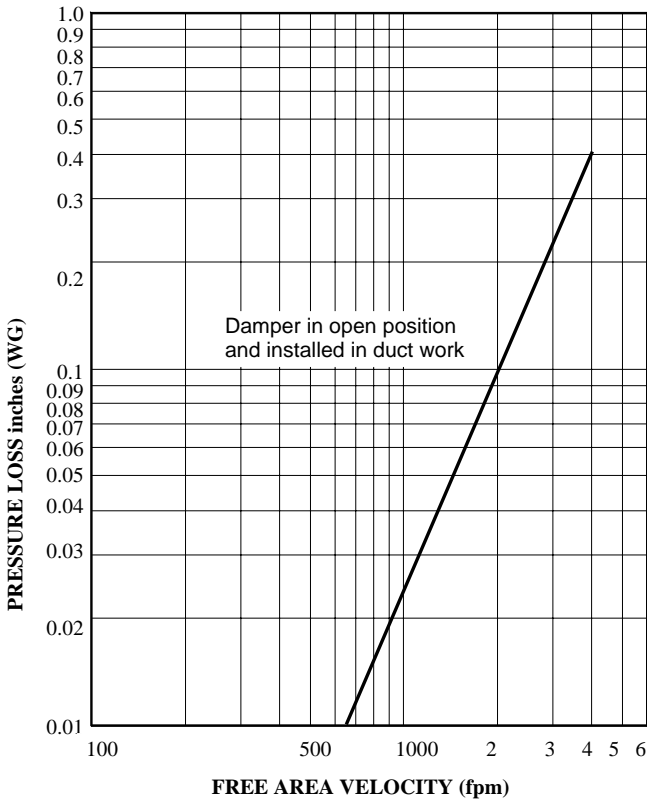
SAFE-AIR OF ILLINOIS, INC.

Engineering and General Offices

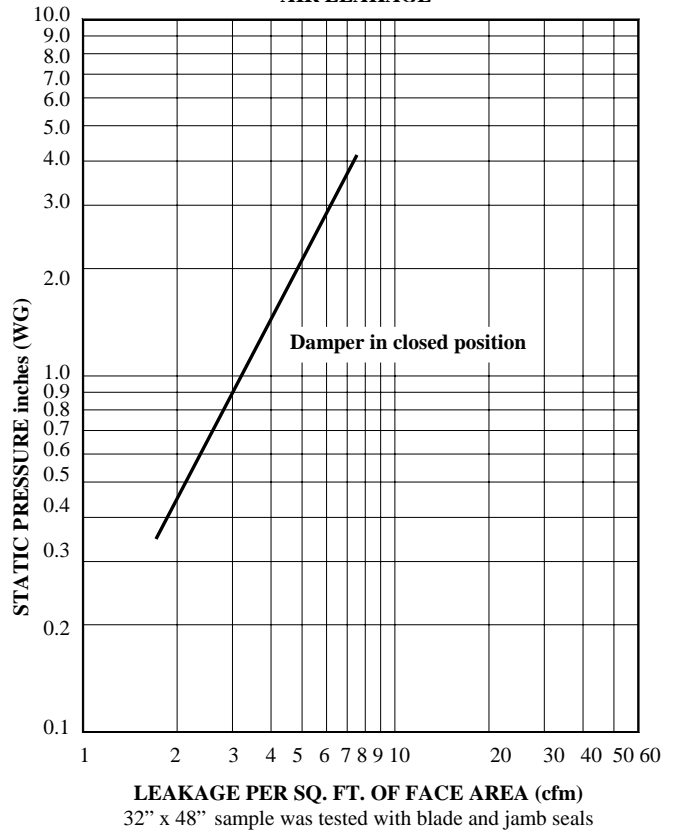
1855 South 54th Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

AIR PERFORMANCE



AIR LEAKAGE



CALCULATING PRESSURE LOSS:

Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance graph, knowing the sq. ft. of free area of the damper. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance" graph.

_____ in. W.C. Max. Pressure Loss Intake or Exhaust
 _____ FPM (Free Area Velocity From "Air Performance" Graph)
 _____ CFM / _____ FPM Free Area Velocity = _____ Sq. Ft. Free Area

U. L. CLASSIFIED DYNAMIC CLOSURE RATING

Our maximum recommended operating for this damper is 2000 fpm @ 4" static pressure. This damper has been tested in accordance with the U.L. requirements for closure under installed " system in operation " conditions, (Dynamic closure). Single sections 32" w x 48" h have been tested capable to close, mounted either vertical or horizontal, at 3000 fpm. @ 8" static pressure.

FREE AREA CALCULATIONS IN SQ. FT.

		WIDTH					
		12	16	20	24	28	32
HEIGHT	12	0.58	0.81	1.03	1.26	1.49	1.72
	16	0.86	1.20	1.54	1.88	2.22	2.56
	20	1.09	1.53	1.96	2.39	2.82	3.26
	24	1.33	1.86	2.38	2.91	3.43	3.96
	28	1.61	2.25	2.89	3.52	4.16	4.80
	32	1.85	2.58	3.31	4.04	4.77	5.50
	36	2.08	2.91	3.73	4.55	5.38	6.20
	40	2.37	3.30	4.23	5.17	6.10	7.04
	44	2.60	3.63	4.66	5.68	6.71	7.74
48	2.84	3.96	5.08	6.20	7.32	8.44	