

Smoke Damper - Model 622 CLASS II

Features – U. L. rated leakage CLASS II @ 350° F (176°)C Smoke Damper. Meets NFPA 90A & UL555S. Meets California State Fire Marshall requirements.

STANDARD CONSTRUCTION

FRAME

4-5/16" (160) deep, 16 gauge (1.6) galvanized steel

BLADES

6"(152) wide, 16 gauge (1.6) galvanized steel (Bottom blade width may vary depending on damper height)

BLADE AXLES & BEARINGS

AXLES - 7/16"(11) Plated hex

BEARINGS - Bronze oil impregnated

LINKAGE

Opposed blade - Plated steel concealed inside the jamb

Drive blade has a 1" (25) to 6" (152) extendable shaft to mount operator

SEALS

Silicone blade seals and S.S. side seals

MULTIPLE SECTIONS

Maximum Multiple Size is 144"w x 48"h (3658 x 1219) in one common sleeve with one actuator on each section (Dynamic Rated) Available also in 144"w x 96"h (3658 x 2438) (Static Rated)

MAXIMUM U. L. CLASSIFIED LEAKAGE CLASS II SIZES

Single section assemblies – 36"w x 48"h (914 x 1219)

MINIMUM SIZE

6"w x 6"h (152 x 152)

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, Aluminum or as requested LINKAGE – Mounted on face of blades in either opposed or parallel JAMB SEALS – Stainless steel.

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.

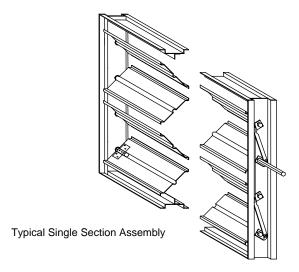
* Dampers 11" (279) high and under will be single blade, and extend from the frame proportionately.

ACCESSORIES

Smoke Detector Indicator Switches Monitoring Station



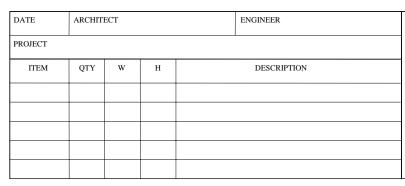




APPROVED ACTUATORS Honeywell Siemens Belimo

	manage were	10 - 0	
	ML 8115	GND121.1U	FSNF24 US*
24 Vac -	MS 4309	GND126.1U	
	MS 8120	GGD121.1U	
120 Vac -	ML 4115	GND221.1U	FSNF120 US*
	MS 4209	GND226.1U	
120100	MS 4120	GGD221.1U	
0001/		GND321.1U	
230 Vac -		GGD321.1U	
Pneumatic -		331-2961	
		331-3060	
		331-4826	

^{*} Only for dampers up to 24" x 24"





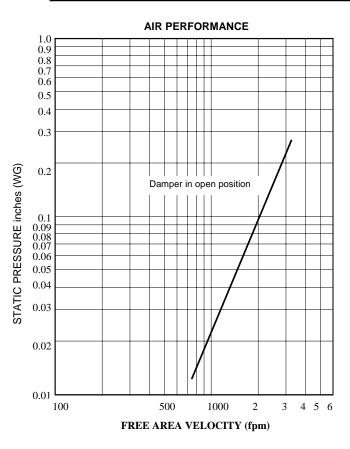
DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS, INC.

Engineering and General Offices 1855 South 54th Avenue, Cicero, Illinois 60804 Phone 708-652-9100 FAX 708-652-9158

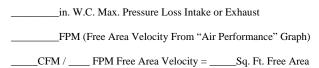
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622 - PERFORMANCE



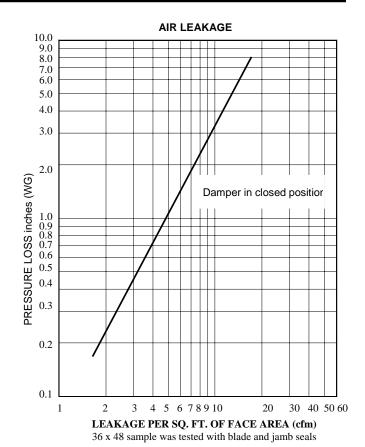


Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance graph, knowing the sq. ft. of free area of the damper. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance"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



FREE AREA CALCULATIONS IN SQ. FT.

				WII	Ή			
	Inches	12	16	20	24	28	32	36
	12	0.56	0.78	1.00	1.22	1.44	1.67	1.89
HEIGHT	16	0.83	1.17	1.50	1.83	2.17	2.50	2.83
	20	1.06	1.48	1.91	2.33	2.75	3.18	3.60
	24	1.28	1.80	2.31	2.83	3.34	3.85	4.37
	28	1.51	2.11	2.72	3.32	3.93	4.53	5.14
	32	1.79	2.50	3.22	3.93	4.65	5.36	6.08
	36	2.01	2.82	3.63	4.43	5.24	6.04	6.85
	40	2.37	3.30	4.23	5.17	6.10	7.04	7.97
	44	2.60	3.63	4.66	5.68	6.71	7.74	8.77
	48	2.84	3.96	5.08	6.20	7.32	8.44	9.56



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 36"w x 48"h have been tested capable to close, mounted either vertical or horizontal, at 3000 fpm. @ 8" static pressure.