

Fire/Smoke Damper – Model 771 OP CLASS I

Features – U.L. rated for dynamic closure & leakage CLASS I @ 350°F (176°C), for use in a 2 hour wall or partition. Meets NFPA 90A & UL555 & UL555S. Seismic and Fragility tested. Meets California State Fire Marshal requirements.

STANDARD CONSTRUCTION

- FRAME**
4-5/16" (110) 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 mechanically fastened to blade
BEARINGS – Bronze oil impregnated
- LINKAGE**
Plated steel in opposed blade configuration, concealed inside the jamb.
Operator shaft is 1/2" (13) steel rod extending 4-1/2" (114) from damper side
- SEALS**
Extruded Silicone blade seals and stainless steel jamb seals
- SLEEVE**
18 ga. x 18" deep (1.3 x 483) galvanized steel
- CERAMIC BLANKET**
Lytherm 550
- MAXIMUM UL CLASSIFIED LEAKAGE CLASS I SIZE**
(1-1/2 hour rated) 36" W x 42"H (914 x 1066) single section
- MINIMUM UL CLASSIFIED LEAKAGE CLASS I SIZE**
8" W x 6" H (203 x 152)
(Internal motor min height: 10")
- MULTIPLE ASSEMBLIES**
144" W x 42" H (3657 x 1066)
- FINISHED SIZE**
Actual I.D.
Note: Wall Opening must be oversized by 1/2" to accommodate blanket thickness
- FINISH**
Galvanized
- HEAT SENSOR**
165°
- OPERATOR**
Refer to UL approved actuator chart
(Specify external or internal mounting)

OPTIONAL CONSTRUCTION

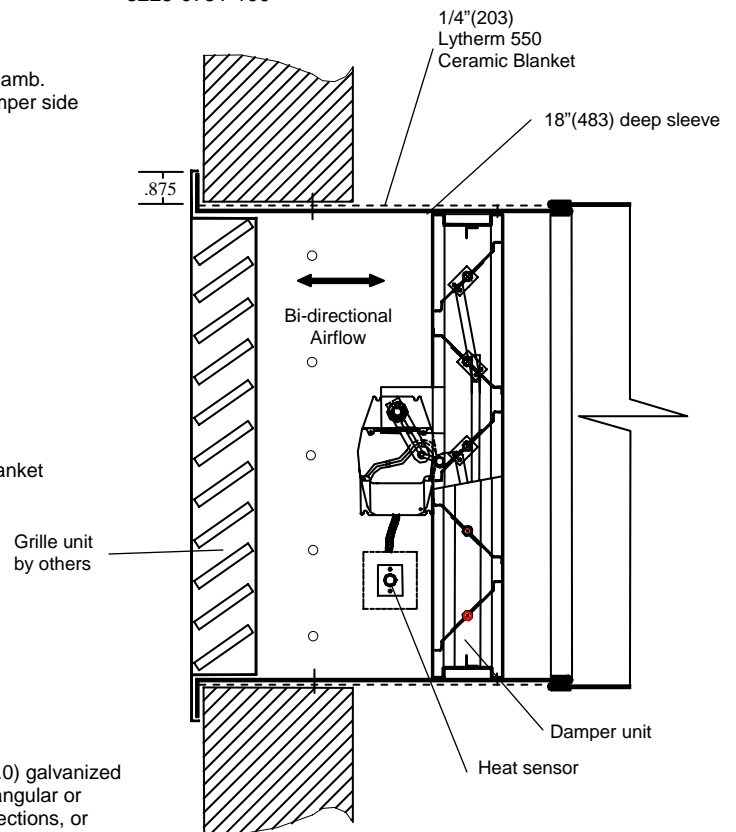
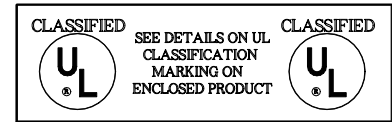
- HEAT SENSOR - 212°F, 250°F, or 350° F
- SPECIFIED MATERIAL** – Available in stainless steel
- SLEEVE AND DUCTWORK CONNECTION** – 10 ga.(3.5) to 20 ga. (1.0) galvanized steel to 30" (762) in length. – Transitions available in: round, oval, rectangular or custom. Factory can install access door, retaining angles, flange connections, or security bars.

ACCESSORIES

- Smoke Detector
- Indicator Switches
- Monitoring Station
- Dual Sensors



3225-0751-100



TYPICAL VERTICAL MOUNT

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

MAX SINGLE SECTION FREE AREA
36"W x 42"H
8.77 SQFT

DATE	ARCHITECT			ENGINEER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION



DEPENDABLE PRODUCTS SINCE 1955

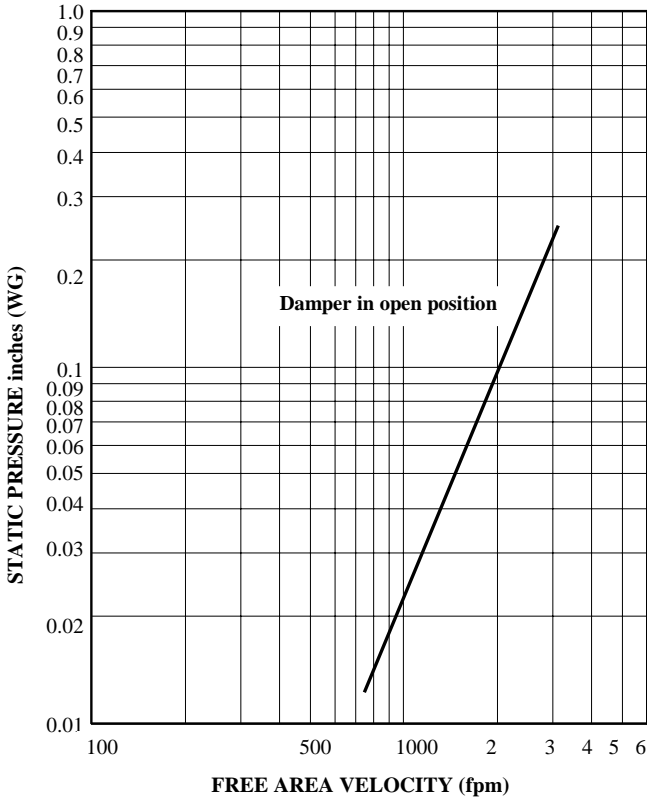
SAFE-AIR OF ILLINOIS, INC.

Engineering and General Offices

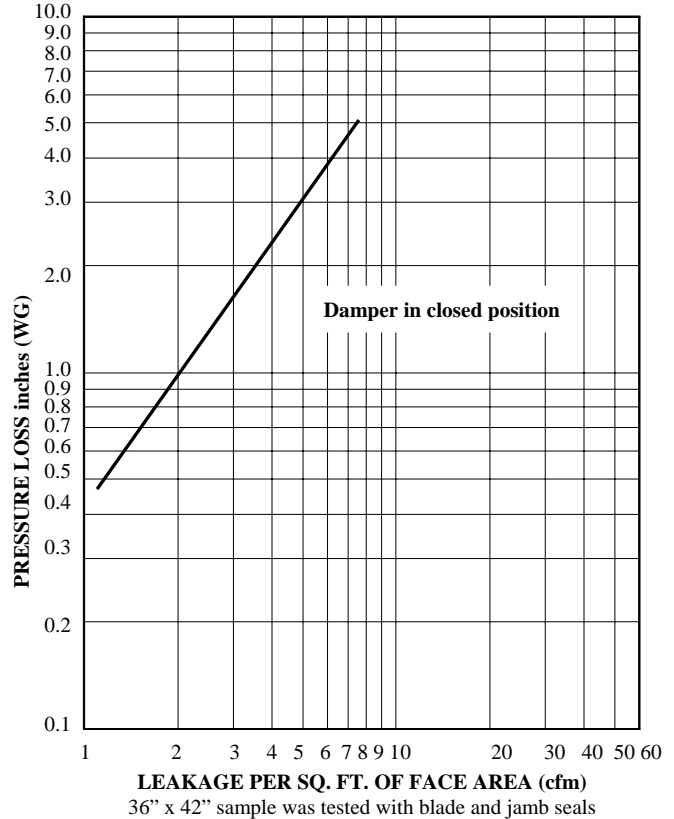
1855 South 54th Avenue, Cicero, Illinois 60804

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

Model 771 OP (1-1/2 hr.) rated CLASS I
Model 771-3 OP (3 hr.) rated CLASS I

FREE AREA CALCULATIONS IN SQ. FT.

		WIDTH						
		12	16	20	24	28	32	36
HEIGHT	12	0.56	0.78	1.00	1.22	1.44	1.67	1.89
	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
	42	2.60	3.63	4.66	5.68	6.71	7.74	8.77

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).

APPROVED ACTUATORS

	Honeywell	Siemens	Belimo
24 Vac	ML 8115	GND121.1U	FSNF24 US*
	MS 8209	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"