

ACCESSORIES

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Smoke Detector

Indicator Switches

Monitoring Station

Dual Sensors

W

ARCHITECT

QTY

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.



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





DATE

PROJECT

ITEM

771 OP PERFORMANCE



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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.

				WII	ОТН			
	Inches	12	16	20	24	28	32	36
	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
ы	20	1.06	1.48	1.91	2.33	2.75	3.18	3.60
H	24	1.28	1.80	2.31	2.83	3.34	3.85	4.37
E	28	1.51	2.11	2.72	3.32	3.93	4.53	5.14
H	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). Single sections 36"w x 42"h have been tested capable to close, mounted either vertical or horizontal, at 3000 fpm. @ 8" static pressure.