



Smoke Damper

KH2

Class II • 250°F or 350°F • Galvanized Steel • Single Thickness Blade • UL Classified Damper

STANDARD CONSTRUCTION

FRAME: 5½" x 16-GA galvanized steel hat channel **BLADES:** 16-GA galvanized steel single thickness; Parallel action

AXLES: Plated solid steel stub **BEARINGS:** Oil impregnated bronze

LINKAGE: Plated steel angle and crank plates with stainless steel pivots,

in-jamb type

STOPS: 18-GA galvanized steel angles at head and sill

BLADE SEALS: Silicone
JAMB SEALS: Stainless steel

SLEEVE: Minimum 20-GA galvanized steel by 18" long (sizes greater

than 84" wide or 84" high require minimum 18-GA)

CAULKING: Hardcast Irongrip 601 or UL-listed equivalent

ACTUATOR: Electric or pneumatic; Factory-installed for Power-Open/

Spring-Close (fail close) operation; External left hand mounted as viewed from jackshaft side of damper

FINISH: Mill

OPTIONS

Exact Size

Sleeve - Transition - Sideplate Flange - Front, Rear, or Both

Actuators - 120V, 24V, 230V or Pneumatic

Right Hand and/or Internal Actuator Mounting Locations (Restrictions Apply)

Power-Close/Spring-Open Actuation

Integral Dual Position Indication (IDPI) Switches

Model SM-501 Flow-Rated Smoke Detector (10" Minimum Damper Height)

Model 2151 No-Flow Smoke Detector (12" Minimum Damper Height)

Remote Test Box

Copper Tubing (For Pneumatic Actuators)

Transformers

Tab-Lock Retaining Angles - 1 or 2 Sets

Bearings - OIB or Stainless Steel

Axle - Stainless Steel

Security Bars

Short-Width (<8") and/or Short-Height (<8") Transitions

NOTES

- 1. "A" width and "B" height are opening dimensions. Dampers are provided approximately $\frac{1}{4}$ " undersize.
- 2. Damper with smoke detector must have a minimum sleeve of 19" (10.5" on the actuator side and 3" on the non-actuator side).

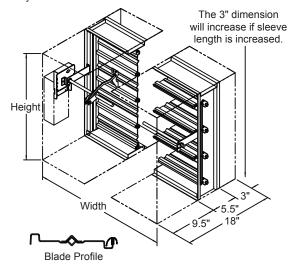
UNDERWRITERS LABORATORIES INC.® CLASSIFIED DYNAMIC SMOKE DAMPER

LEAKAGE RESISTANCE CLASS II

NCE CLASS II

This smoke damper meets the construction and performance requirements of:

- · Underwriters Laboratories Inc. Standard 555S
- · National Fire Protection Association Standards 80 and 90A
- ICC's International Building Code
- California State Fire Marshal Listing #3230-1328:106
- Underwriters Laboratories Inc. Approved for dual direction airflow and dynamic conditions.
- Underwriters Laboratories Inc. Classified for use in smoke control systems for Leakage Class II and 250°F or 350°F.
- Actuators must be controlled by a smoke detection system.



DAMPER SIZE

		2000 fpm, 4 in.wg				3000 fpm, 4 in.wg	
Orientation	Hor & Vert	Horizontal & Vertical				Horizontal & Vertical	
Panels	Minimum Panel	Max Panel 250°	Max Panel 350°	Max Assy 250°	Max Assy 350°	Max Panel 250°	Max Assy 250°
Rectangular	4"W x 4"H (8"W x 8"H frame)	36"W x 48"H 48"W x 36"H	36"W x 48"H	144"W x 70"H 288"W x 35"H	128"W x 62"H 256"W x 31"H	36"W x 36"H	108"W x 36"H
Round	4" dia. (8"W x 8"H frame)	34" dia.	34" dia.	68" dia.	60" dia.	34" dia.	n/a
Oval	4"W x 4"H (8"W x 8"H frame)	34"W x 46"H 46"W x 34"H	34"W x 46"H	45 sq.ft. 106"W x 68"H	106"W x 60"H	34"W x 34"H	106"W x 24"H

^{*}Dampers smaller than minimum frame size require a transition. Reference SD-TRFS.





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Operations Rating:

Maximum Differential Pressure: 4 in.wg

Maximum Face Velocity: 2000 fpm (3000 fpm for selected size/actuator combinations)

Leakage Rating:

UL Class II

10 cfm per sq.ft. maximum @ 1 in.wg 20 cfm per sq.ft. maximum @ 4 in.wg

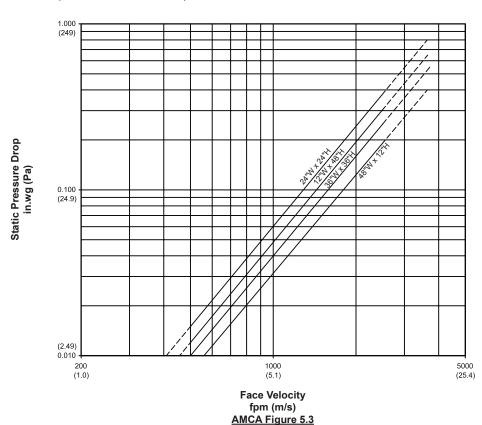
Sound Ratings:

The Noise Criterion data below was tested in accordance with ASTM E477.99 in the center octave band.

Noise Criterion (NC)									
Damper	Velocity (fpm)								
Size	1000	2000	3000	4000					
12"W x 12"H	31	53	64	71					
24"W x 24"H	33	54	65	n/a					

Pressure Drop Ratings:

The pressure drop data shown below is based on laboratory conditions. The test setup does not take into account elbows or other duct fittings that are part of every actual duct system. The configuration of the actual duct system immediately upstream and downstream of the damper often contributes more pressure loss than the damper itself.



This product was tested in accordance with AMCA Standard 500D.

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