Reference: Client: Project: Consultant: Location: Contractor: Date: Submitted by:

Optional

16 Guage (1.5) "3V"

Galvanized Roll-Forme

Steel (see Model

SSD-3V-0W-201)

Actual

SSD-AF-0W-202)

The CVS-SAFE4 model SSD-AF-OW-201 is a smoke damper with Airfoil style

penetration in a smoke rated barrier made by an HVAC duct or transfer. The

Standard

20 Gauge (1) Galv. Roll-Formed Steel hat section

w/ staked corners for integral bracing Airfoil-shaped, double skin

galvanized steel

mechanically fastened to

form equivalent to

14 Gauge (2) Steel

Min. width of 5" (127) to

max. width of 7.25" (178)

5" (127)

Actual - 1/4" (6)

Bronze Oilite (press fit into

up to the allowable tested pressures and velocities below.

MAXIMUM VELOCITY: 2000 fpm (10.2 m/s).

MAXIMUM PRESSURE: 4" wg (1kPa).

Standard Construction:

Frame Material

Blade Material

and Type

Blade Sizes

Frame Depth

Dimensions

Axle Bearings

Linkage

blades, for decreased pressure drop, intended for installation outside the plane of a wall or floor. The SSD-AF-OW-201 is used to prevent the smoke through a

SSD-AF-OW-201 can be installed vertically (with blades running horizontally) or

horizontally. The SSD-AF-OW-201 can be installed in static or dynamic systems



Model SSD-AF-OW-201

Smoke Damper Out-of-Wall/Floor Application Airfoil Blade, Class 1, UL-Classified (Class I is < 8 cfm per sq. ft. @ 4" w.g.)

SEE COMPLETE MARKING ON PRODUCT

LISTINGS:

UL Listing: R27700(UAE), R41135(KSA), R40068(Qatar), R41122(Egypt)

STANDARDS MET:

NFPA Standards: 80, 90A, 92A, 92B and 101

Building Code Standard:

ICC International Building Code

Thermal Blanket (Optional) (Typ. 3 Sides) В* Actuator *Width [A dimension] and *Height [B Dimension] are approximately 1/4" undercut. Sleeved dampers are furnished annroximately same size as given duct dimension plus 0.25 " (6) for insulation.

frame) **Axle Material** Plated Steel

Application:

Concealed in Frame 16" x 20" gauge (406x1) Wide variety of gauges Sleeve galvanized steel and lengths available 0.25" (6) thick thermal blanket 3 sides for Thermal Blanket vertical & 4 sides for

.125" (3.2) plated steel.

horizontal applications Operating Temp. 350° (177°C) Class 2 (see Model **Leakage Class Rating** Class 1

Minimum & Maximum Sizes:

Out-of-Wall Mounting	Minimum Single Section	Maximum Single Section	Maximum Multi- Section
SSD-AF-0W-201 Vertical	8 x 8	36" x 48" (914 x 1219)	42" x 48" (1067 x 1219)
SSD-AF-OW-201 Horizontal			

All dimensions shown in inches, parentheses () indicate millimeters.

Optional Construction:

Auxiliary Switch

Add to Actuator (recommended) Add to Damper (STO/R)

Momentary Test Switch

Factory Sleeve:

Length: (Std. 16" [406])

Gauge: 20 (1.0) 18 (1.2) 16 (1.5) 14 (2.0) 10 (3.5)

Framed Retaining Angles (FRA)

2-Sides 1-Side

Remote Control Box

RCB-1 RCB-2 RCB-3

Smoke Detector

Factory Mounted Shipped Loose

Actuators (Refer to UL Damper Actuator Reference Chart)

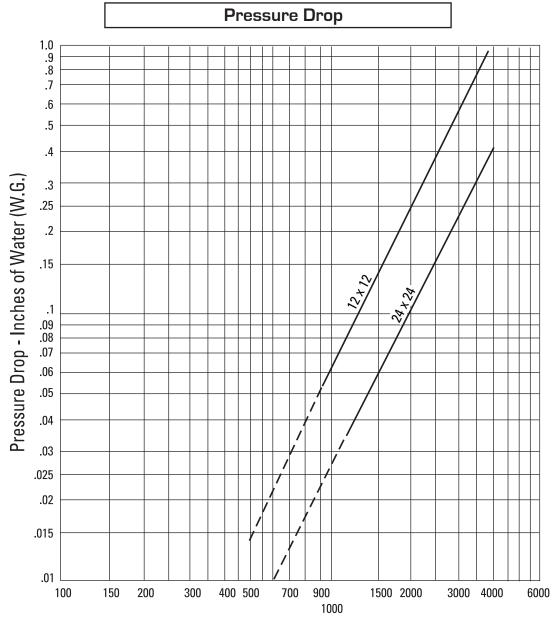
Type: Electric: Model #_ Pneumatic: Model #_ Location: Right External (Std) Left External Internal

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal



PERFORMANCE DATA - Model SSD-AF-OW-201 Smoke Damper for Out-of-Wall/Floor Applications



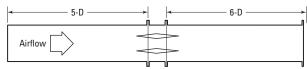
Velocity Through Face Area (FPM)

To determine pressure drop:

- Locate the applicable face velocity on the bottom of the chart.
 Move up the chart to the most appropriate size damper line.
- 3. From the intersection point, move left to determine the pressure drop.

AMCA Figure 5.3 - Ducted Inlet and Outlet

Pressure drop testing was performed by an independent laboratory to the AMCA Standard 500-D, Fig. 5.3 (ductwork upstream and downstream).



Note:

Pressure Drop data reflects damper face area only and does not take into acount internally mounted actuator.

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Submittal



ACTUATORS & SLEEVES - Model SSD-AF-OW-201 Smoke Damper for Out-of-Wall/Floor Applications

Actuator Requirements:

UL555S requires that all leakage rated dampers be provided with factory mounted actuators. Available actuators vary by damper size and velocity, pressure and temperature ratings. Consult Motor/Actuator sheet for UL Products for current offering.

Sleeve Requirements:

Sleeve must be installed at the factory for out of wall/floor products.

Sleeve length is dependent upon damper height, grille depth (including OBD) and actuator selection:

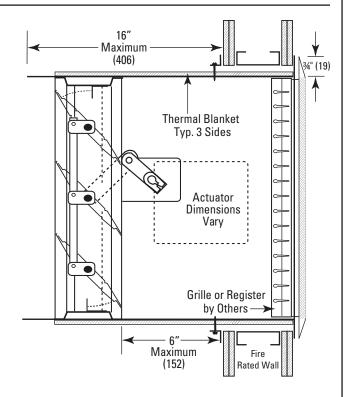
- Standard clearance allowance for grille inset is 3" (76).
- Maximum sleeve length is 16"(406) plus the total wall depth.

Sleeve is provided with a 3/4" (19) flange on the actuator end of the sleeve by default. Flange must be on top of barrier in horizontal installations. Damper may be optionally ordered without flange for continuous duct installation; this method requires the use of a single mounting angle for installation (see Detail).

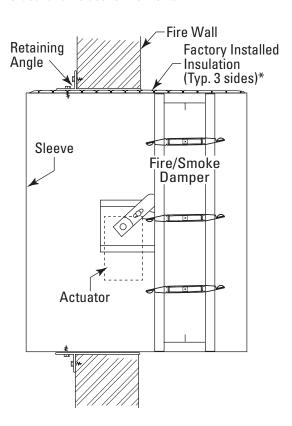
Thermal Blanket (Optional):

A factory installed thermal blanket is provided on three sides (bottom excluded) for dampers ordered for vertical installation and on all four sides for dampers ordered for horizontal installation.

Due to the nature of the application for Out-of-Wall and Out-of-Floor Smoke dampers, a 0.25" (6) thermal blanket is installed around the sleeve at the factory.



*Thermal Blanket provided 3 sides for Vertical and 4 sides for Horizontal.



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