Reference: Client:
Project: Consultant:

Location: Contractor:

Date: Submitted by:



Model FDD-SL

Slimline Dynamic Curtain Fire Damper 1-½ or 3 Hour, UL555 Classified

Application:

The CVS-SAFE4 model FDD-SL fire damper utilizes a Slimline frame as well as curtain style blades to prevent the spread of fire through a penetration in a fire rated barrier made by an HVAC duct or transfer. The FDD-SL can be installed vertically or horizontally and is meant for dynamic (fans remain on in a fire) or static (fans shut off in a fire) HVAC systems.

MAXIMUM VELOCITY: 2000 fpm (10.2 m/s) on all sizes. MAXIMUM PRESSURE: 4" wg (1kPa) on all sizes.

Standard Construction:

	Standard	Optional
Frame Material	22 Gauge Galvanized Roll-formed Steel	
Blade Material and Type	22 Gauge Galvanized Roll-formed Steel	
Frame Depth	2-3/8" (55)	3-11/16" (94) [see Model FDD]
Dimensions	Actual - 1/4" (6)	Actual
Closure Spring	Stainless Steel	
Fusible Link	165° (74°C)	212° (100°C)
Mounting	Vertical	Horizontal
UL Hour Rating	1-1/2 Hour	3 Hour

Option in Stainless steel construction available.

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

Optional Construction:

Factory Installed External Sleeve:

Location in Sleeve: Standard Offset:

Flanged Sleeve (requires factory installed external sleeve):

3/4" (19) 1" (25)

Framed Retaining Angles - 16 ga. x 11/2 x 11/2 (1.5x38x38)

Single Side Dual Side

Other Options:

- Static models (see Model FD-SL)
- Multi-Blade models (FDD-MB)
- Regular Frame Models (FDD)
- Out-of-wall models (see Model FDD-OW)
- True Round models (see Model FDD-RD)



SEE COMPLETE MARKING ON PRODUCT

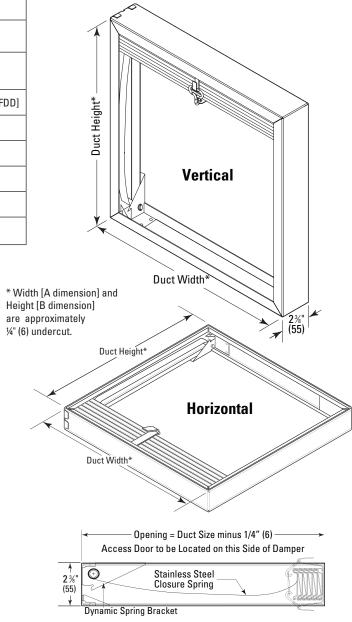
LISTINGS:

UL 555 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



FDD-SL-A - Horizontal (Similar for Vertical)

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

Submittal



DAMPER STYLES & SIZES - Model FDD-SL Slimline Dynamic Curtain Fire Damper

Type A Dynamic Curtain Fire Damper

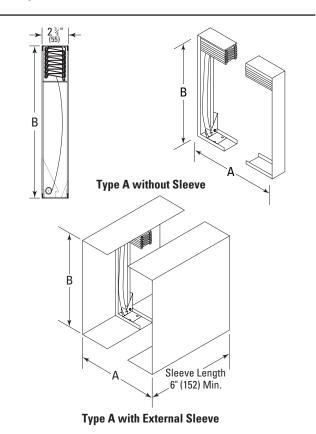
- For use in static HVAC systems (fans off)
- Frame and blade stack in air stream
- Approximately 75-85% Free Area
- Sleeve optional (Factory installed external or Integral)
- 1-1/2 or 3 Hour Fire Rated

FDD-SL-A Minimum & Maximum Sizes:

Type A Model	Minimum Size		Max. Single Section		Max. Multi-Section	
	1.5 Hour	3 Hour	1.5 Hour	3 Hour	1.5 Hour	3 Hour
FDD-SL (Vertical)	6x6 (152x152)		24x24 (610x610)	24x24 (610x610)	36x36 (914x914)	36x36 (914x914)
FDD-SL (Horizontal)			24x24 (610x610)	24x24 (610x610)	36x36 (914x914)	36x36 (914x914)

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

A Dimension = Duct Width B Dimension = Duct Height



Type B Static Curtain Fire Damper

- For use in static HVAC systems (fans off)
- Black stack out of airstream
- Approximately 80-90% Free Area
- Sleeve optional (Factory installed external or Integral)
- 1-1/2 or 3 Hour Fire Rated

FDD-SL-B Minimum & Maximum Sizes:

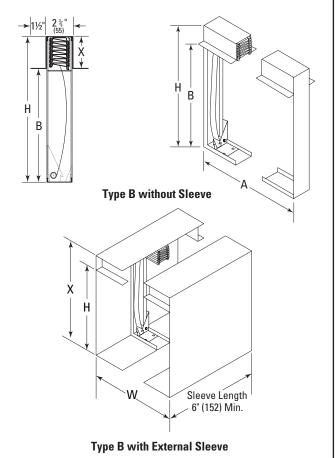
Type B	Minimum Size		Max. Single Section		Max. Multi-Section ¹	
Model	1.5 Hour	3 Hour	1.5 Hour	3 Hour	1.5 Hour	3 Hour
FDD-SL (Vertical)	6x4 (152x102)		24x21 (610x583)	24x21 (610x583)	36x32 (914x813)	36x32 (914x813)
FDD-SL (Horizontal)			24x21 (610x583)	24x21 (610x583)	36x32 (914x813)	36x32 (914x813)

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

- A Dimension = Duct Width
- B Dimension = Duct Height
- X Dimension = Height of Blade Stack
- H Dimension = Overall Damper Height (B+X)

Notes:

1. Multi-section damper will have frame in the airstream and blades for vertical models more than one damper in height.



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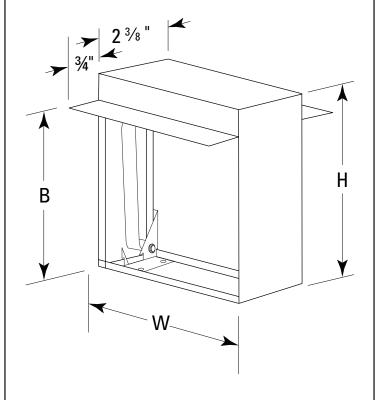
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DIMENSIONAL INFORMATION - Model FDD-SL Slimline Dynamic Curtain Fire Damper (for Type B)

Type B Fire Damper



Duct Height (B)	Type B Damper Height (H)		
Inches	Inches		
inches	Vertical	Horiz.	
3	5	5	
4	6	6	
5	7	7	
6	8	8	
7	9	9	
8	10	10	
9	11	11	
10	12	12	
11	13	13	
12	14	14	
13	15	15	
14	16	16	
15	17	17	
16	18	18	
17	19	19	
18	20	20	
19	21	21	
20	22	22	
21	24	24	
22	25	26	
23	26	27	
24	27	28	
25	28	29	
26	29	30	
27	30	31	
28	31	32	
29	32	33	
30	33	34	
31	34	35	
32	35	36	

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SLEEVE DIMENSIONAL DATA - Model FDD-SL Slimline Dynamic Curtain Fire Damper

Below are diagrams showing the location of the Type A and B fire dampers in a factory installed external sleeve.

Sleeve Diagram Key:

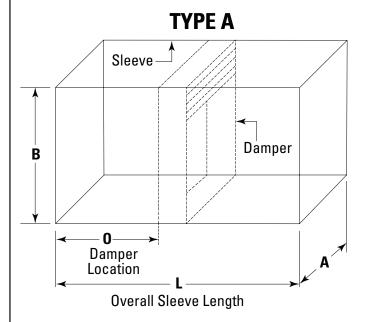
H = Overall height

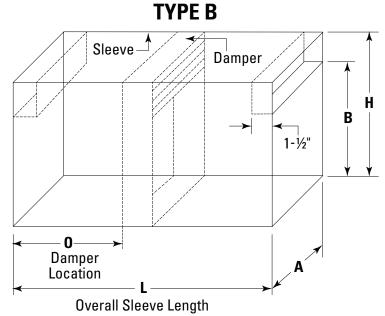
W = Overall width (always the length of the blades)

A = Duct Width

B = Duct Height

0 = The offset from one end of the sleeve to the beginning of the damper frame (can be altered as a construction option)





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MULTIPLE SECTION INFORMATION - Model FDD-SL Slimline Dynamic Curtain Fire Damper

Multiple section damper assemblies are shipped in individual sections from the factory unless a factory supplied and installed sleeve is required. When a multiple section damper is ordered with a sleeve, it is usually shipped as a complete assembly. The following drawings are of different maximum size multiple section FDD-SL models and are for reference purposes (not all options are shown).

