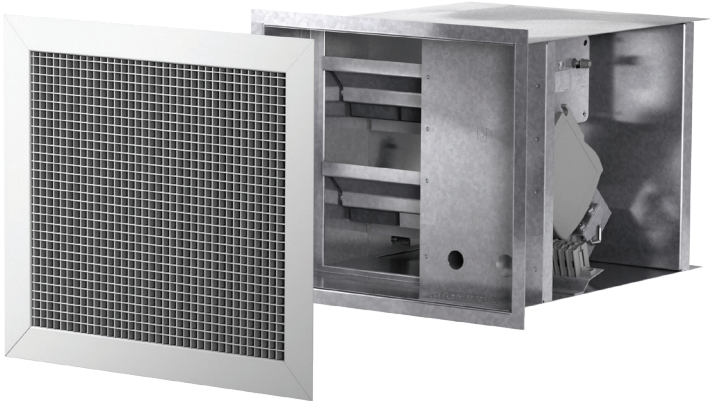
GFSD-211

Out of Wall Combination Fire Smoke Damper Grille Access

Application

Model GFSD-211 is a combination fire smoke damper with 3V style blades designed for easy access through the grille to the damper, closure device, and the actuator. A separate compartment on the side of the damper houses the actuator. The GFSD-211 has been qualified to 2000 fpm (10.2 m/s) and 4 in. wg (1 kPa) for operation and dynamic closure in emergency fire smoke situations. Model GFSD-211 may be installed vertically (with blades running horizontal) or horizontally and is rated for airflow and leakage in either direction.



*Width and Height dimensions furnished approximately ¼ in. (6mm) undersize. Add blanket thickness (⅛ in. [3mm]) and sleeve thickness for overall sleeved damper dimension.

Oversize wall opening as follows:

Nominal damper size plus ⅜ in. (9.5mm).

Ratings

UL 555 Fire Resistance Rating

Fire Rating: 1½ hours

Dynamic Closure Rating: Actual ratings are size dependent

Velocity: Up to 2000 fpm (10.2 m/s)

Pressure: Up to 4 in. wg (1 kPa)

UL 555S Leakage Rating

Leakage Class: I

Operational Rating: Actual ratings are actuator dependent

Velocity: Up to 2000 fpm (10.2 m/s)

Pressure: Up to 4 in. wg (1 kPa)

Temperature: Up to 350°F (177°C) - depending upon the actuator

See complete marking on product.

UL 555 and UL 555S Classification R13317

CAN/ULC S112 Classified Fire Damper

CAN/ULC S112.1 Classified Smoke Damper

Size Limitations

W x H	Minimum Size	Maximum Size	
		Single Section	MultipleSection
Inches	14 x 12	36 x 48	48 x 48
mm	356 x 305	914 x 1219	1219 x 1219

Model GFSD-211 meets the requirements for fire dampers, smoke dampers and combination fire smoke dampers established by:

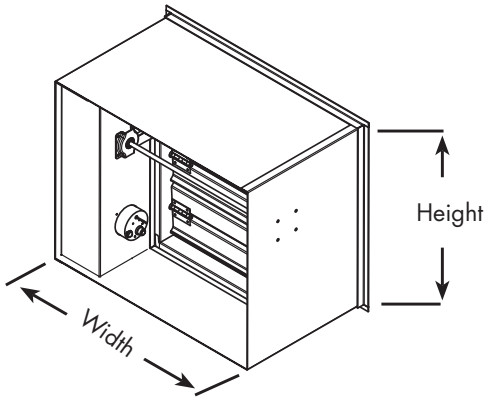
National Fire Protection Association

NFPA Standards 80, 90A, 92, 101, & 105

IBC International Building Codes

Construction

	Standard	Optional
Frame Material	Galvanized steel	-
Frame Material Thickness	16 ga. (1.5mm)	-
Frame Type	5 in. x 1 in. (127mm x 25mm) hat channel	-
Blade Action	Parallel	-
Blade Material	Galvanized steel	-
Blade Material Thickness	16 ga. (1.5mm) equivalent	-
Blade Type	3V	-
Blade Orientation	Horizontal	-
Linkage	Plated steel out of airstream, concealed in jamb	-
Axle Bearings	316SS	-
Axle Material	Plated steel	-
Blade Seals	Silicone	-
Jamb Seals	Stainless Steel	-
Closure Device	RRL	RRL/OCI, TOR
Closure Temperature	165°F (74°C)	212°F (100°C), 250°F (121°C), 350°F (177°C)
Mounting	Vertical	Horizontal



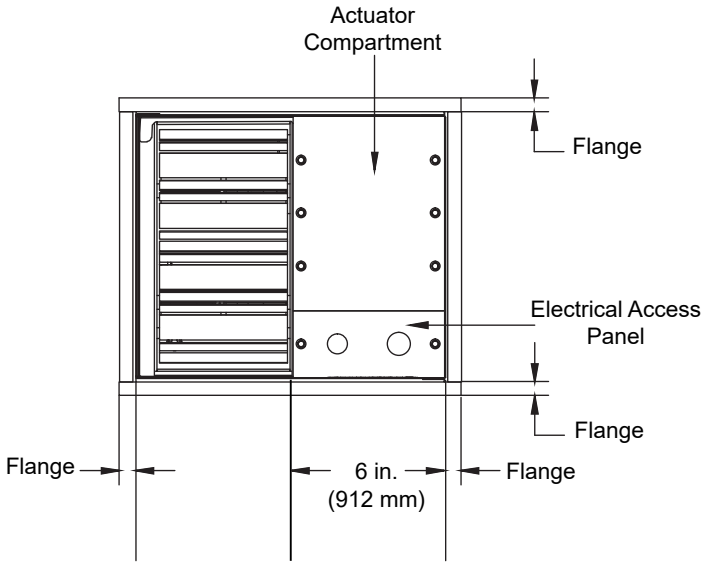
Note:
The frames are constructed with reinforced corners. Low profile head and sill are used on sizes less than 17 in. (432 mm) high for lower pressure drop and improved damper performance.

Options and Accessories

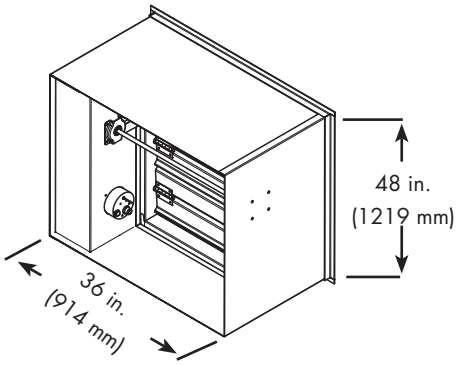
- BACnet test module - 120V or 24V
- Clean wrap
- GTS test switches
- Retaining angles
- Smoke detectors - no flow or low flow

Standard Flange Width

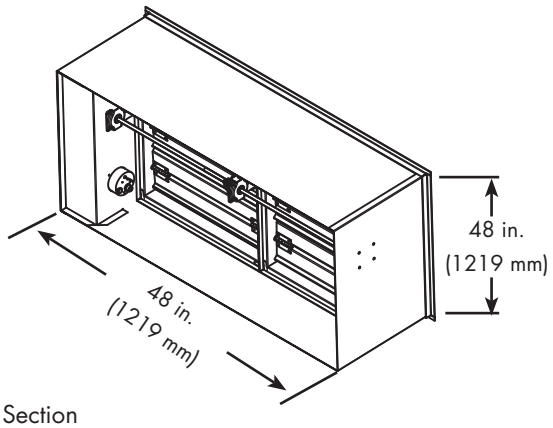
Damper Height	Damper Width	
in (mm)	<= 36 (914)	> 36 to <=48 (914 to <=1219)
<= 36 (914)	0.75 (19)	1.5 (31)
> 36 to <= 48 (>914 to <=1219)	1.5 (31)	1.5 (31)



Dampers larger than maximum single section size are supplied as a factory assembly of two or more sections of equal size. The following figures show maximum damper section size and assembly configurations for multi-section dampers.



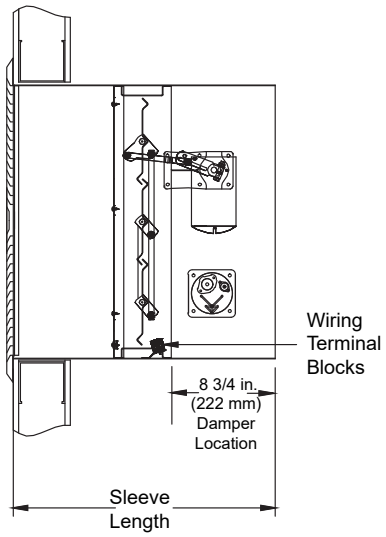
Single Section



Double Section

Damper Sizing

The drawing to the right shows the position of the GFSD-211 damper when mounted in a factory sleeve. The standard mounting location provide enough space for the mounting of actuators, controls, and allow space for installation of retaining angles and duct connections.



Document Links

INSTALLATION

CATALOG

SELECTION GUIDE

WARRANTY

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GFSD-211, R7, August 2026
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