

## UL 555 - Classified Motorized Fire Damper

## B-21Series

**Type** : Motorized Fire Damper  
**Model** : MFD-GB-D-21-A/R  
**Fire Rating** : 21 Series-1½ hour  
**Blade Type** : 3V Single Skin; A : Parallel Operation

MFD B-21 Series is a high performance UL 555 Classified fire damper with 1½hr. fire rating, installed vertically or horizontally (with blades running horizontally) and is rated for airflow in either direction.

### UL-555 Test Ratings

Fire Rating : 1½ hrs.  
 Max Velocity : 2000 fpm  
 Max Operating Pressure: 4 in. w.g (1000 pa)

### Standard Construction

#### Frame

16 gauge (1.4 mm - 1.7 mm) thick galvanized steel.

#### Blades

Parallel operated 3 'V' type blade made of 16 gauge (1.4 mm - 1.7 mm) thick galvanized steel.

#### Jamb Seals

Stainless steel.

#### Jack Shaft

12 mm diameter Galvanized steel shaft.

#### Thermal Response Device (TRD)

165°F.

#### Actuator

Honeywell, Belimo, Seimens (24V AC, 120V AC, 230V AC).

#### Sleeve

Minimum 0.9 mm, single section is field or factory installed. Multiple section is factory installed.

Sleeve thickness as per NFPA table 3-4.6.3.

#### Bushes

Fire resistant bronze bush.

#### Limit Switches

For BMS open / close indication.

### Optional Fittings

#### Retaining Angles

1½" x 1½" x 16 gauge (40 x 40 x 1.5 mm).

#### Blade Seals

Silicon rubber blade seals.

#### Indicator

Externally mounted open / close visible indicator.

#### Push Button

Manual reset for damper.

#### Transitions (R)

Neck adapter for round duct connections.

#### Junction Box



MFD-GB-D-21-A

Model : MFD-GB-D-21-A UL 555 Damper meets the required standards of SMACNA, NFPA, IBC, BOCA, ICBO, UL.

MFD - B-21 Series - Model Details				
Model	Material		Damper Operation	
	Frame	Blade	Standard	Optional
MFD-GB-D-21-A/R	GI	GI	FC	FO

Minimum Sleeve thickness for Breakeaway joints as per NFPA 90A Table 3-4.6.3			
Air Duct Diameter or Maximum Width		Minimum sleeve thickness	
Inch	mm	Inch	gauge
12 or Less	305	0.018	26
13-30	330-762	0.024	24
31-54	787-1372	0.03	22
55-84	1397-2134	0.036	20
85 or more	2159	0.047	18

Actuator Location		Operating Voltage	
Standard	Optional	Standard	Optional
Left Side	Right side	230 V	120 V / 24 V

**Actuator location standard:** Left side from rear view (Jack shaft view)

Note :

FC : Fail Close in the event of Fire

### Optional Construction (UL Certification N/A)

**Frame** : Stainless Steel 16 gauge (304/316L)

**Blade** : Stainless Steel 16 gauge (304/316L)

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



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## B-21 Series

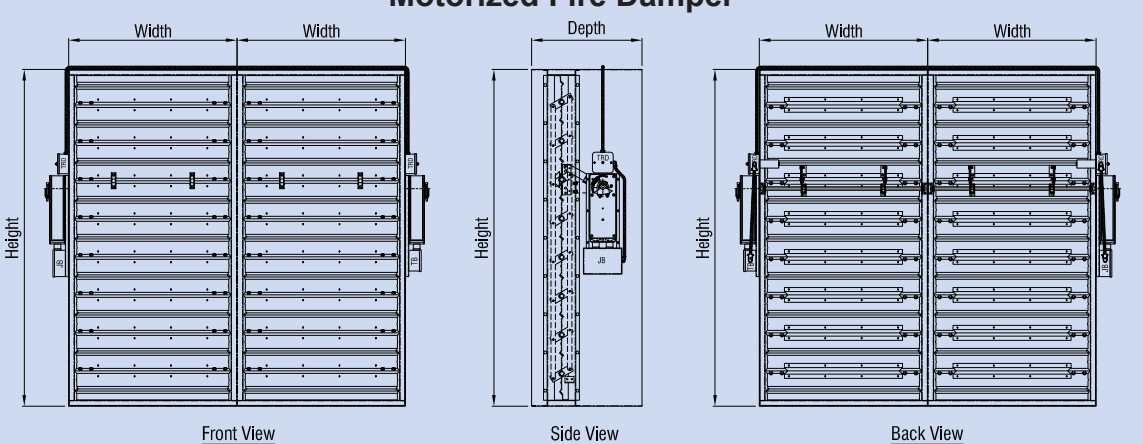
Type : Motorized Fire Damper

Model : MFD-GB-D-21-A/R

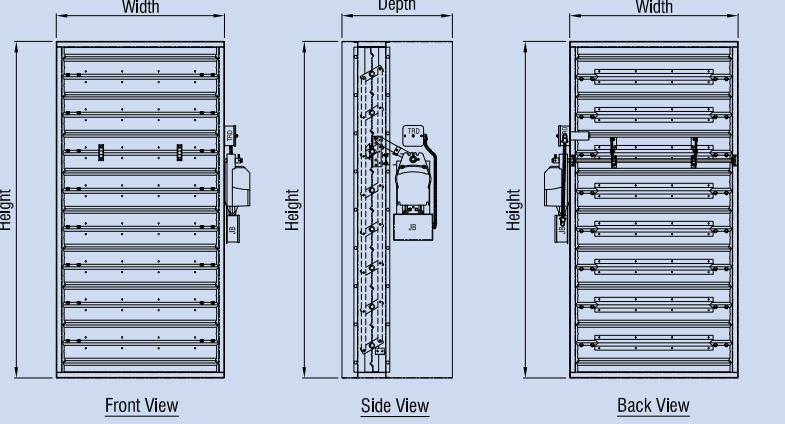

Fire Rating : 21 Series-1½ hour

Blade Type : 3V Single Skin; A : Parallel Operation

**Motorized Fire Damper**



Module	Size (WxH)	Actuator Options
Single	24" x 48"	Honeywell 9 / 20 Nm
		Belimo 7.9 Nm
		Siemens 16 Nm
Single	48" x 48"	Honeywell 20 Nm
		Siemens 16 Nm
Multiple	48" x 48"	Honeywell 9 / 20 Nm
		Belimo 7.9 Nm
		Siemens 16 Nm
Multiple	144" x 96"	Honeywell 9 / 20 Nm
		Belimo 7.9 Nm
		Siemens 16 Nm

UL Classified (see mark on product)  
 UL Classified to American/Intl safety standards  
 UL Standard 555 (Listing # R21925)

Size Limitation		
Module	Size : Width X Height	Mounting Position
Single	Min X Min. 6" x 9"	V/H
Single	Max X Max. 24" x 48"	V/H
Multiple	Max X Max. 48" x 48"	V/H
Multiple	Max X Max. 144" x 96"	V/H

Standard Sizes Any Combination of W x H			
Width (W)	Height (H)	Depth (D)	Module
8"	9"	16"	Single
10"	10"	16"	Single
12"	12"	16"	Single
16"	16"	16"	Single
20"	20"	16"	Single
24"	24"	16"	Single
24"	48"	16"	Single
48"	48"	16"	Single/Multiple
144"	96"	16"	Multiple

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