

UL 555S - Classified Motorized Smoke Damper

B-21 Series

Type : Motorized Smoke Damper
Model : MSD-GB-21C1-A/R
Leakage Rating : Class - I
Blade Type : 3V Single Skin; A : Parallel Operation
Construction : Galvanized Steel (GI)

MSD B-21 Series is a high performance UL 555S Classified smoke damper with Class- I leakage rating, installed vertically or horizontally (with blades running horizontally) and is rated for airflow and leakage in either direction.

UL-555S Test Ratings

Leakage Rating : Class - I
Max Velocity : 2000 fpm
Max Operating Pressure: 4 in. w.g (1000 pa)
Operating Temperature : 250 °F (121°C) for ½ hr

Additional Test Ratings

Operating Temperature :250°C (482 °F) for 1 hr* (HKFSD)
:250°C (482 °F) for 2 hr* (HKFSD)

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.

Blade Seals

Silicon rubber blade seals.

Jamb Seals

Stainless steel.

Jack Shaft

12 mm diameter Galvanized steel shaft.

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.

Optional Fittings

Retaining Angles

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

Thermal Response Device (TRD)

165°F (74°C).

Limit Switches

For BMS open / close indication.

Indicator

Externally mounted open, close visible Indicator.

Push Button

For manual reset of damper.

Transitions (R)

Neck adapter for round duct connections.

Junction Box

Smoke Detector

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



MSD-GB-21C1-A

Model : MSD-GB-21C1-A/R UL 555S Damper meets the required standards of SMACNA, NFPA, IBC, BOCA, ICBO, UL.

MSD - B-21 Series - Model Details				
Model	Material		Damper Operation	
	Frame	Blade	Standard	Optional
MSD-GB-21C1-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

FO : Fail Open in the event of Fire

* The temperature ratings are for Honeywell 20 Nm actuators with thermal enclosures.

Optional Construction (UL Certification N/A)

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

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

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Motorized Smoke Damper

Module	Size (WxH)	Actuator Options
Single	24" x 48"	Honeywell 9 / 20 Nm
		Belimo 7.9 Nm
		Siemens 16 Nm
Single	36" x 48"	Honeywell 20 Nm
Single	48" x 48"	Honeywell 20 Nm
Multiple	96" x 48"	Siemens 16 Nm
		Belimo 7.9 Nm
Multiple	144" x 96"	Honeywell 9 / 20 Nm
Multiple	288" x 48"	Honeywell 20 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
	Max X Max. 288" x 48"	

Standard Sizes Any Combination of W x H			
Width (W)	Height (H)	Depth (D)	Module
6"	9"	16"	Single
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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