

KAD[®]

KAD AIR CONDITIONING

Motorized Fire Damper | Combination of Smoke & Fire Damper
Motorized Smoke Damper



ISO 9001:2015 Certified Company



EMME.R38037

Range of Motorized Fire/Smoke Damper Products

Model : K-MFD - 20



- Complies with UL555 & UL555S standard with 1 1/2 Hrs fire rating with static and dynamic system. Leakage rating of class II at 1000 fmp velocity 4" Wg pressure
- Frame: 16 gauges galvanized hat shape construction
- Blade: 16 gauge triple V groove galvanized steel construction
- Fusible link: UL listed, Electro-thermal fusible link with 165 F temperature fire rating
- Operation: Parallel blade
- Seal: Stainless steel pop up side seal and silicon rubber blade tip seal for positive closure
- Sleeve: Available in 12" , 14" or 16" sleeve option
- Installation: Vertical
- Actuator: Honeywell spring return complies with UL873 standard (230 or 24 Volt)

Model : K-MSFD - 20



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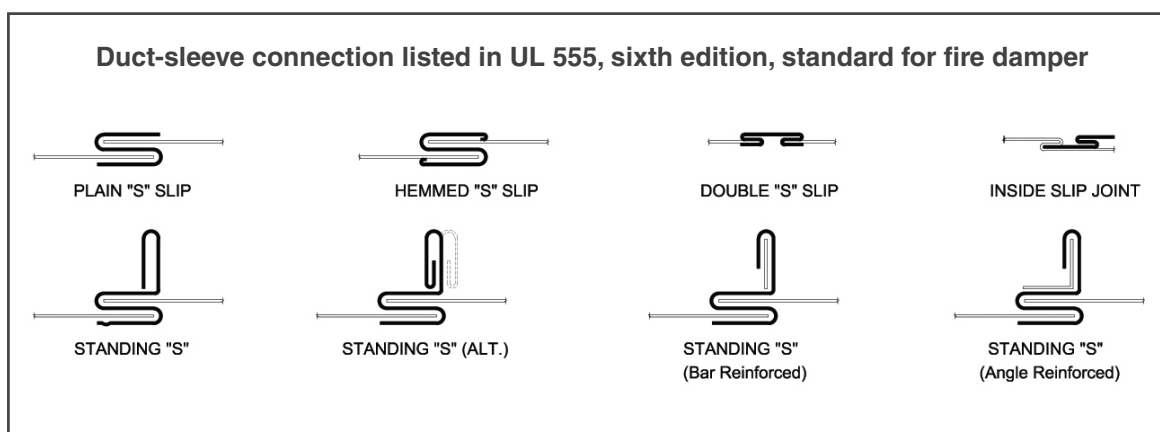
Model : K-MSD - 20



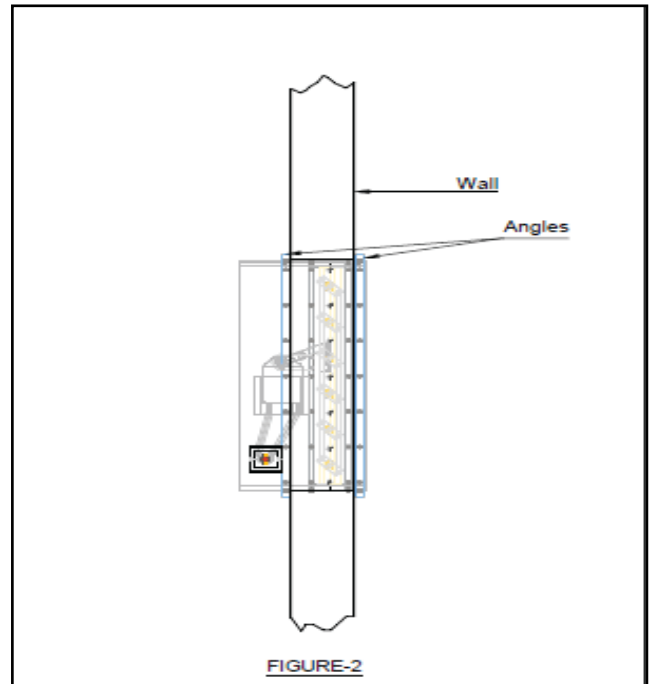
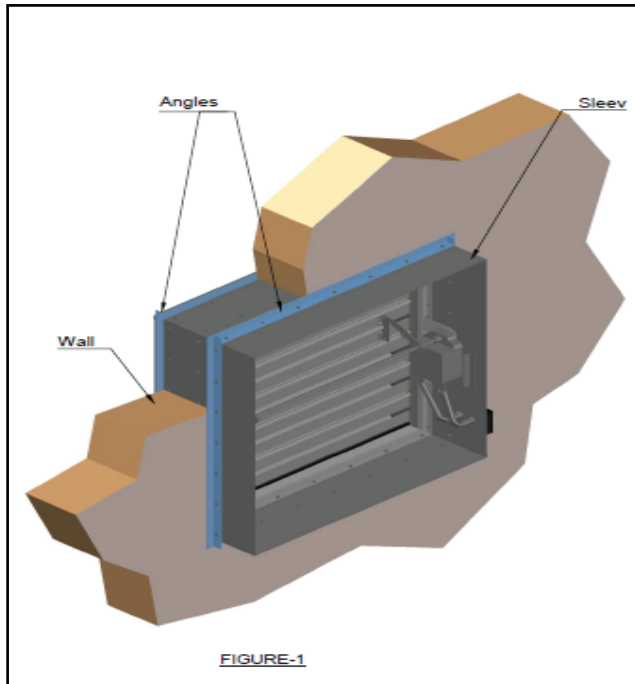
- Complies with UL555 & UL555S standard with 1 1/2 Hrs fire rating with static and dynamic system. Leakage rating of class II at 1000 fmp velocity 4" Wg pressure
- Frame: 16 gauges galvanized hat shape construction
- Blade: 16 gauge triple V groove galvanized steel construction
- Operation: Parallel blade
- Seal: Stainless steel pop up side seal and silicon rubber blade tip seal for positive closure
- Installation: Vertical
- Actuator: Honeywell spring return complies with UL873 standard

Installation Instructions of Combination of Smoke Fire Damper, Smoke Damper and Motorized Fire Damper

- Model K-MFD-20, K-MSD-20 and K-MSFD-20 to be installed as per SMACNA fire damper installation chapter 5 and 6.
- Model K-MFD-20, K-MSD-20 and K-MSFD-20 are respectively Motorized Fire Damper, Motorized Smoke Damper and Motorized Smoke Fire Damper and classified as per UL555 & UL555S standard.
- Damper to be installed in masonry wall centrally, damper can be installed from both the side, only blades should be in horizontal position and damper to be in vertical location.
- Expansion clearance between the fire damper sleeve and the wall opening must be $\frac{1}{4}$ " inch larger than the damper size for the damper size up to 24 inches and additional $\frac{1}{8}$ " as per linear foot increase in the damper size.
- **Sleeve:** Galvanized steel sleeve to be provided for the Motorized fire damper and Motorized smoke fire damper. Motorized smoke damper can be installed without sleeve. Damper sleeve should not be more than 6" outside the wall. Damper sleeve thickness to be as per SMACNA chapter 5, table 5.2.
- **Retaining Angle:** Four 30mm x 30mm x 3mm thick galvanized steel or mild steel perimeter angles are used as an installation frame around the perimeter of the frame retaining angles to be connected to damper with 4.8mm galvanized steel rivet, 2" from the corner and 6" between each other.
- **Damper to Duct Connection:** Damper has to be connected to duct as per the SMACNA chapter 5, table 5.2.
One Angle Installation: When there is no access to install the damper from both the side then retaining angle to be connected to wall as well as to the damper by 4.8mm galvanized steel rivet, maximum 2" from the end and 6" from each other.
- When the wall opening is more than size of damper then multiple dampers can be installed as per SMACNA fire damper installation instruction.



Installation Instructions of Combination of Smoke Fire Damper, Smoke Damper and Motorized Fire Damper



Certifications

CERTIFICATE OF COMPLIANCE

Certificate Number: 20160928-R38037
Report Reference: R38037-20160928
Issue Date: 2016-SEPTEMBER-28

Issued to: KAD Air Conditioning Est
 PO Box 5389
 Dubai, UAE UNITED ARAB EMIRATES

This is to certify that representative samples of DAMPERS FOR FIRE BARRIER AND SMOKE APPLICATIONS
 Combination Fire and Smoke Dampers Models: 1.5 Hr. Fire endurance rating, Leakage Class II, Model K-MSPD-20.
 Fire Dampers Models: 1.5 Hr. Fire endurance rating, Model K-MFD-20.
 Smoke Dampers Models: Leakage Class II, Model K-MSD-20.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 555, Standard for Safety for Fire Dampers. UL 555S, Standard for Smoke Dampers.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.
 Look for the UL Certification Mark on the product.

EMME.R38037 Dampers for Fire Barrier and Smoke Applications

Fire Dampers for Use in Static Systems

Model	Hr. Class	Damper Mounting Position	Single Section Damper Size, in.		Multiple Section Damper Size, in.	
			W	H	W	H
K-FD-15-A/B-18	1-1/2	V	18	18	—	—
K-FD-15-A/B-30	1-1/2	V	30	30	—	—
K-FD-15-A/B-36	1-1/2	V	36	36	—	—
K-FD-11	1-1/2	V	36	36	—	—
K-FD-12	1-1/2	V	36	36	—	—

Fire Dampers for Use in Dynamic Systems

Dampers rated 3000 fpm / 4.0 in. WC:

Model	Hr. Class	Leakage Class	Damper Mounting Position	Single Section Damper Size, in.		Multiple Section Damper Size, in.	
				W	H	W	H
K-MFD-20	1-1/2	II-250	V	Min 36	Max 36	—	—

Smoke Dampers

Dampers rated 3000 fpm / 4.0 in. WC:

Model	Hr. Class	Leakage Class	Damper Mounting Position	Single Section Damper Size, in.		Multiple Section Damper Size, in.	
				W	H	W	H
K-MSD-20	1-1/2	II-250	V	36	36	—	—

Combination Fire and Smoke Dampers

Dampers rated 3000 fpm / 4.0 in. WC:

Model	Hr. Class	Leakage Class	Damper Mounting Position	Single Section Damper Size, in.		Multiple Section Damper Size, in.	
				W	H	W	H
TSPFD30-3CL-G	1-1/2	II-250	V	Min 36	Max 36	—	—

UL ONLINE CERTIFICATIONS DIRECTORY

EMME.R38037

See General Information for Dampers for Fire Barrier and Smoke Applications

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Dubai, UAE, UNITED ARAB EMIRATES

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