



(ENGINEERS)
SUBMITTAL DATA

MODEL F/S-AF-OW-II

Outside Wall Combination Fire/Smoke Damper

UL 555 and ULC S112 Listed for 1-1/2 Hour Rated
UL 555S and ULC S112.1 Listed Class I Leakage

UL File No.
R25410

Standard Construction:

- Frame:** Roll formed galvanized steel hat-section with staked corners and integral bracing.
- Blades:** Airfoil-shaped, double skin galvanized steel of roll-formed construction. Mechanically joined to form construction equivalent to 14ga. steel.
Minimum width: 4" (127 mm)
Maximum width: 7" (178 mm)
- Bearings:** Bronze Oilite, press-fit into frame.
- Axles:** Square, plated steel.
- Seals:** Pressure sensitive 450°F silicone blade edge seals and flexible metal jamb seals.
- Linkage:** Concealed in frame. Linkage bars are .125" (3.2 mm) thick plated steel.
- Sleeve:** Galvanized, wrapped in thermal blanket. (Vert. Typ. 3 sides) 20 Ga., 16" std.
- Controlled Closure Device:** (Heat Activated)
EFL - 165°F Standard, 212°F, 250°F, 350°F available
PFL - 165°F Standard, 212°F available
- Finish:** Mill galvanized.
- Maximum Velocity:** 2000 fpm (10.2 m/s) on all sizes.
- Maximum Pressure:** 4" w.g. (1kPa)
- Consult factory for velocities up to 4000fpm and 6.0 w.g.

Sizes:

- Minimum Size:** 12"w x 10"h (Int. Act.) (355mm x 254mm) 8"w x 8"h (Ext. Act.) (203mm x 203mm)
- Max. - Single Section:** 36"w x 48"h (914mm x 1219mm)
- Max. - Multi Section:** 42" x 48" (1067mm x 1219mm)

Features:

- The F/S-AF-OW-II series Combination Fire/Smoke Dampers have been designed and tested to exceed all UL, ULC, and NFPA requirements for fire dampers as well as smoke dampers.
- F/S-AF-OW-II is UL 555 and ULC S112 listed and labeled as an 1-1/2 hour rated fire damper.
- UL and ULC listed for both vertical and horizontal mountings.
- UL 555S /ULC S112.1 listed and labeled as a Class II rated Smoke Damper with airflow in both directions. Class II provides for a max. leakage of 20 cfm/sq ft at 4.0" wg static pressure.

NOT RECOMMENDED WITH BLADES RUNNING VERTICALLY

It is recommended the damper must be inspected and cycled at intervals not greater than every twelve months or in accordance with NFPA 80, 90A, 92A, local codes and the actuator manufacturer.

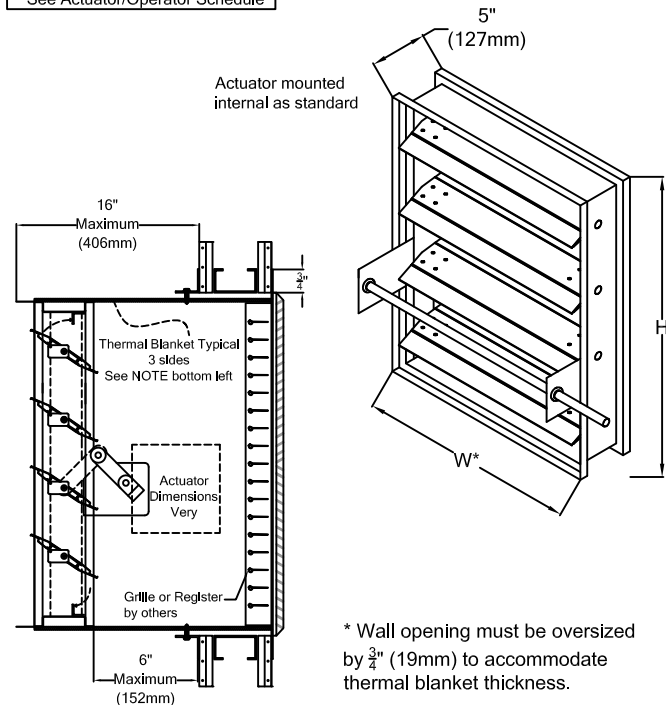
+Typical 4 sides when mounted horizontally

Suggested Specifications:

Combination Fire/Smoke Dampers shall be model: F/S-AF-OW-II, by United Enertech. Fire/Smoke Dampers shall bear the Underwriters Laboratories labels for both Fire Dampers and Smoke Dampers. Each Damper shall be UL/ULC qualified for mounting outside of the plane of the wall to allow for through the grill access to actuators and control. U.L. 555S U.L.C S112.1 rating shall be class I with leakage not to exceed 20 cfm per sq. ft. at 4.0 inches static pressure for any size. Linkage shall be of the concealed type for maximum free area.

Note: Due to continuing research, UE reserves the right to change specifications without notice.

U.L. 555S Classified at 250°F or 350°F depending upon Actuator/Operator
*See Actuator/Operator Schedule



* Wall opening must be oversized by 3/8" (19mm) to accommodate thermal blanket thickness.

* Face flange shipped loose if external actuator or M/S blade mounted end switch is selected.

Metal Stud Installation

Options:

- Factory sleeves _____ Ga. (20 Ga. minimum). Length _____ inches (min. 16").
- Retaining Angles
 - One Side
- Transitions
 - Round
 - Oval
- Actuator
 - Electric, _____ vac (Voltage)
 - Pneumatic, 25 psi
- Mounting Orientation
 - Vertical
 - Horizontal
- Smoke Detector
 - Ionization
 - Photoelectric
- DTO/RE w/ M/S Package
- M/S Blade Mounted end switch
- Built in Actuator position End Switch Remote Control Boxes
 - RCB-1, -2, -3

Job Name:	<input type="checkbox"/> MODEL F/S-AF-OW-II (1-1/2 hour)		
Location:			
Architect:			
Engineer:	DRAWN BY: MAB	DATE: 11-13-07	REV. DATE: 03-31-2017
Contractor:	REV. NO. 7	APPROVED BY: SDC	DWG. NO.: P-51