



(ENGINEERS)  
SUBMITTAL DATA

# MODEL F/S-AF-FA-II

## Front Access Combination Fire/Smoke Damper

LOW PRESSURE DROP AIRFOIL BLADE PER AMCA STANDARD 500-D

UL 555 and ULC S112 Listed for 1-1/2

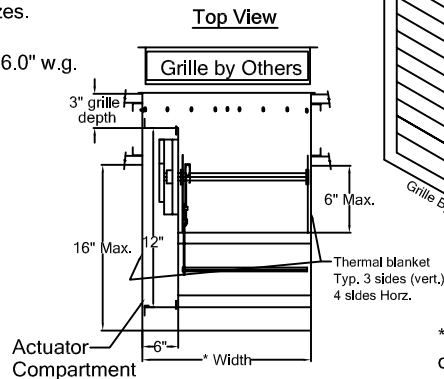
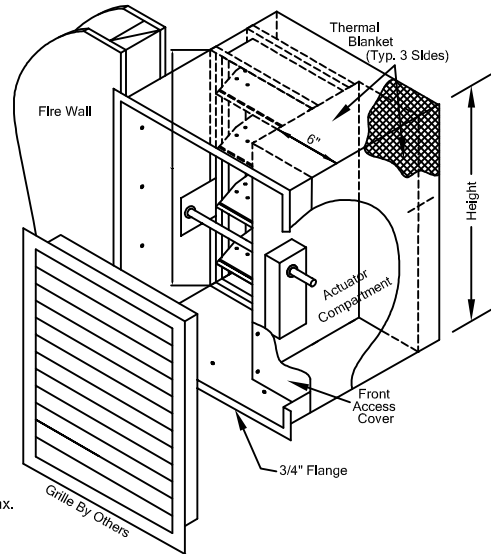
UL 555S and ULC S112.1 Listed Class II Leakage

UL File No.  
R25410

### Standard Construction:

- Frame:** Rollformed 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 equiv. to 14 Ga. steel.  
Minimum width: 5" (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 0.125" (3.2 mm) thick plated steel.
- 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 4000 fpm and 6.0" w.g.

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



### Vertical Mount Only

#### Sizes:

- Minimum Size: 12" w x 10" h (356mm x 254mm)
- Maximum Size: 42" w x 48" h (1067mm x 1219mm)

- Minimum A/F Width: 8"
- Internal Mount Actuator 10" MIN Height

### Features:

- The F/S-AF- FA-II series Combination Fire/Smoke Dampers have been designed and tested to exceed all UL, U.L.C. and N.F.P.A. requirements for fire dampers as well as smoke dampers.
- F/S-AF-FA-II is U.L. 555 and U.L.C S112 listed and labeled as an 1-1/2 hour rated fire damper.
- U.L. and U.L.C. listed for vertical mountings.
- U.L. 555S /U.L.C. 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" w.g. static pressure.

Not recommended with blades running vertical.

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.

Face flange shipped loose if external actuator

#### Suggested Specifications:

Combination Fire/Smoke Dampers shall be model: F/S-AF-FA-II, by United Enertech. Fire/Smoke Dampers shall bear the Underwriters Laboratories labels for both Fire Damper and Smoke dampers. Each damper shall be UL/ULC qualified for mounting outside of the plane of the wall and have concealed actuator access, from grille side, to allow 'through the grille' access to actuators and controls. U.L. 555S rating, shall be class II with leakage not exceed 20 cfm per sq. ft. at 4.0" static pressure for any size. Linkage shall be of concealed type for maximum free area.

\* Wall opening must be oversized by 3/4" (19mm) to accommodate thermal blanket thickness

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

### Options:

- Factory sleeves \_\_\_\_\_ ga. (20 ga minimum).  
Length \_\_\_\_\_ inches (min. 16").
- Retaining Angles
  - One Side  Smoke Detector
  - Ionization
- Transitions
  - Round  DTO/RE w/ M/S Package
  - Oval
- M/S Blade Mounted end switch
- Built in Actuator position End Switch
- Actuator
  - RCB-1, -2, -3
  - Electric, \_\_\_\_\_ vac (Voltage)
  - Pneumatic, 25 psi

Job Name:

**MODEL F/S-AF-FA-II (1-1/2 hour)**

Location:

Architect:

Engineer:

Contractor:

DRAWN BY:  
MAB

DATE:  
11-13-07

REV. DATE:  
10-24-2018

REV. NO.  
10

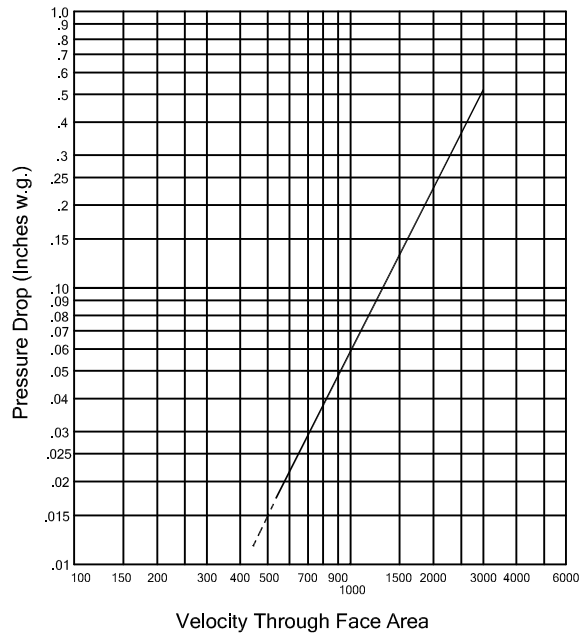
APPROVED BY:  
SDC

DWG. NO.:  
**P-53**

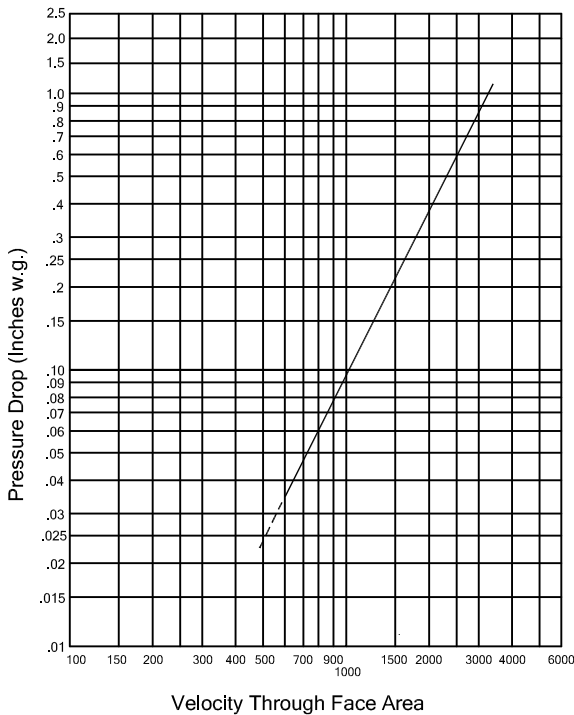
**Performance Data**

Pressure drop testing was done by an independent laboratory to AMCA Standard 500-D, Fig. 5.3 ductwork upstream and downstream.

**Damper Size 36 x 36**



**Damper Size 24 x 24**



**Damper Size 12 x 12**

