Standard Construction:
Frame: Rolledform galvanized steel hat-section with staked corners and integral bracing.
Blades: Aftail shaped, double skin galv. steel of roll-formed construction. Mechanically joined to form equiv. 14 ga. st.
Minimum width: 6" (127 mm)
Maximum width: 7" (178 mm)
Bearings: Bronze Oiltite, 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.
Controlled Closure Device: (Heat Activated)
EFL - 165°F Standard, 212°F, 250°F, 350°F available
PFL - 165°F Standard, 212°F available
*Due to space limitations, Dampers below 12" will have no sleeve and actuators in airstream will be equipped with a spring/fuse/link assembly in lieu of the EFL temperature response device.
Finish: Mill galvanized.
Actuator: UL Approved. See Actuator Page, depends on damper size and temperature rating, External or Internal Mounted.
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.

Sizes:
Minimum Size: 8"w x 8"h (203mm x 203mm) (Ext. Actuator)
Minimum Size: 12"w x 10"h (305mm x 366mm) (Int. Actuator)
Max. - Single Section: 36"w x 48"h (914mm x 1219mm)
Max. - 1-1/2 hr. Vertical: 108"w x 96"h (2743mm x 2438mm)
Max. - 1-1/2 hr. Horizontal: 96"w x 48"h (2438mm x 1219mm)
Max. - 3 hr. Vertical: 72"w x 96"h (1828mm x 2438mm)
Max. - 3 hr. Horizontal: 36"w x 48"h (914mm x 1219mm)

Features:
- The F/S-AF-II or F/S-AF-3-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-II is UL 555 and ULC S112 listed and labeled as an 1-1/2 hour rated fire damper.
- F/S-AF-3-II is UL 555 and ULC S112 labeled and labeled as a 3-hour rated fire damper.
- UL and ULC listed for both vertical and horizontal mountings.
- UL 555, ULC S112, 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/sec ft at 4.0" wg static pressure.

Notes:
- Non-skived dampers with side plates are furnished approximately 1/4" (6.4 mm) smaller than given duct dimensions. Skived dampers are furnished same size as given duct dimension unless otherwise noted.
- 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, 80A, 92A, local codes and the actuator manufacturer.

Suggested Specifications:
Combination Fire/Smoke Dampers shall be model F/S-AF-II or F/S-AF-3-II, by United Enertech. Fire/Smoke Dampers shall bear the Underwriters Laboratories labels for both Fire Dampers and Smoke Dampers. UL 555 and ULC S112.1 ratings shall be Class II with leakage not to exceed 20 cfm per sq ft at 4.0" static pressure for any size. Linkage shall be of the concealed type for maximum free area.

Options:
- Factory sleeves ________ ga. (20 ga minimum).
- Length ________ inches (min. 16")
- Retaining Angles
  - One Side
  - Both Sides
- Transitions
  - Round
  - Oval
- Actuator
  - Electric, electric vac (Voltage)
  - Pneumatic, 25 psi
- Grill Mfg. - 3/4" Mounted Face Flange
- Shipped loose, 1" (if external actuator)
- Mounting Orientation
  - Vertical
  - Horizontal

Job Name: [ ] MODEL F/S-AF-II (1-1/2 hour)
[ ] MODEL F/S-AF-3-II (3 hour)
Location: 
Architect: 
Engineer: 
Contractor: 

Engineering
SUBMITTAL DATA
MODEL F/S-AF-II & F/S-AF-3-II
Combination Fire/Smoke Damper
UL 555 and ULC S112 Listed for 1-1/2 and 3 Hour Rated
UL 555S and ULC S112.1 Listed Class II Leakage

U.L. File No.: R23410

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

Location: Depends on Damper Height, See Chart or Drawing
Pressure drop testing was done by an independent laboratory to the AMCA Standard 500-D, Fig. 5.3 ductwork upstream and downstream.

When the actuator is externally mounted at wall thickness exceeds inches, add 1 inch for additional thickness increase, ensuring sleeve extends through the penetrative standard. The actuator externally installed on lower right-hand half of the damper when viewed from the jackshaft side. The damper may be installed rotated 180° such that the actuator will be located in the upper left. The top damper is either side of the frame as long as the frames are running horizontally. When ordering internal mounted actuators, be aware there is a minimum requirement (in some cases the sleeve can be increased to allow for internal mounting). The entire damper frame does not need to be installed in the plane of the wall/floor. The rule of thumb is “with damper in the closed position, the blade plane should be within the plane of the UL rated wall/floor.”