

MODEL S-3V-II

LOW LEAKAGE SMOKE DAMPER
 U.L. 555S CLASSIFIED AND ULC S112.1 LISTED
 Class II Leakage Rated

Application and Design

The Model S-3V-II is UL/ULC listed and labeled Class II leakage rated Smoke Damper. Blades are of the 3V shaped or crimped design. The damper is approved for airflow in either direction and provides a maximum leakage of 20 cfm/sq. ft at 4" wg. s.p. It has been designed to be installed in a vertical or horizontal mounting position in the ductwork or separate sleeve within 24" of the smoke partition. These dampers are approved for use in engineered smoke control systems and are controlled via smoke detection system. Electric (24v, 120v, and 230v) or pneumatic actuators are used to operate the smoke dampers.

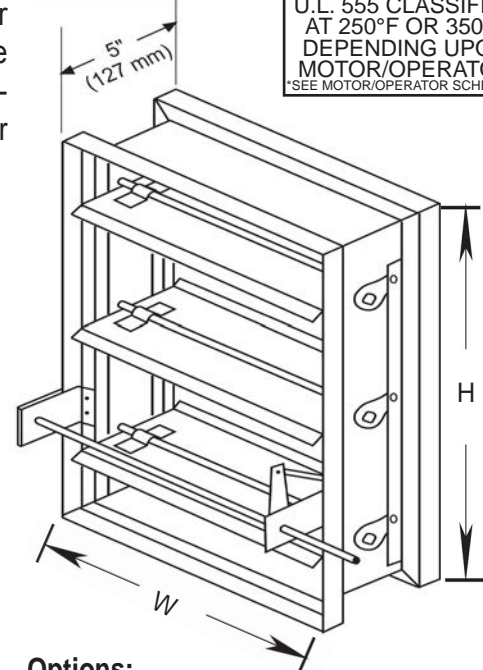
Standard Construction

- Frame:** 5" Roll formed Frame - Galvanized Steel hat-section
W/ staked corners & integral bracing
- Blades:** 16 Ga. Roll formed - Galvanized Steel - 3V Blade Design
min. width: 4-1/4" (108mm)
max. width: 7-1/4" (184mm)
- Axles:** Square plated steel
- Seals:** Pressure Sensitive 450° silicone blade edge seals
and flexible metal jamb seals.
- Linkage:** Concealed in frame. Linkage bars are 1/8" (3.2mm)
- Bearings:** Bronze Oilite press-fit into frame

Designed and tested in accordance to standards: UL 555S, ULC S112.1. Labeled and listed by UL/ULC under File # R25410. They meet all the NFPA-90A, IBC Code, and other major code requirements for Smoke Dampers.



U.L. 555 CLASSIFIED
 AT 250°F OR 350°F
 DEPENDING UPON
 MOTOR/OPERATOR
 *SEE MOTOR/OPERATOR SCHEDULE



Options:

- Factory Sleeve: _____ Ga, (20 Ga min.)
- Sleeve Length: _____ inches, 16" min.
- Electric Actuator, _____ VAC
- Pneumatic Actuator, 25 psi

Notes:

• Non-sleeved and side plated dampers are furnished approximately 1/4" (6.4mm) smaller than given duct dimensions. Sleeved dampers are furnished approx. same size as given duct dimension, unless otherwise noted.

• Not recommended with blades running vertically.

Standard Sizes		
Min. V or H	Max. Single Section	Max. Multiple Assembly
6" X 6" 152mm X 152mm	36"W X 48"H 914mm X 1219mm	144"W X 96"H 3657mm X 2438mm

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

Suggested Specification

Low Leakage Smoke Control Dampers shall be Model: S-3V-II by United Enertech. Single blade edge and jamb seals shall be of the pressure sensitive type for low leakage. Dampers shall be rated for leakage as to U.L. 555S / U.L.C. S112.1 rating and shall be Class II with leakage not to exceed 20 cfm per sq. ft. at 4.0 inches static pressure. Linkage shall be of the concealed type for the maximum free area.

Manufacturer's Recommendations

All moving parts of the damper must be inspected and cycled at intervals not greater than every 12 months or in accordance with the latest edition of NFPA 90A, 92A, local codes and the actuator manufacturer. In addition, the damper shall be inspected for corrosion. Dry lubricants are recommended.

Job Name:

Location:

Architect:

Engineer:

Contractor:

MODEL S-3V-II

DRAWN BY:
MAB

DATE:
11-07-07

REV. DATE:
10-24-08

REV. NO.
5

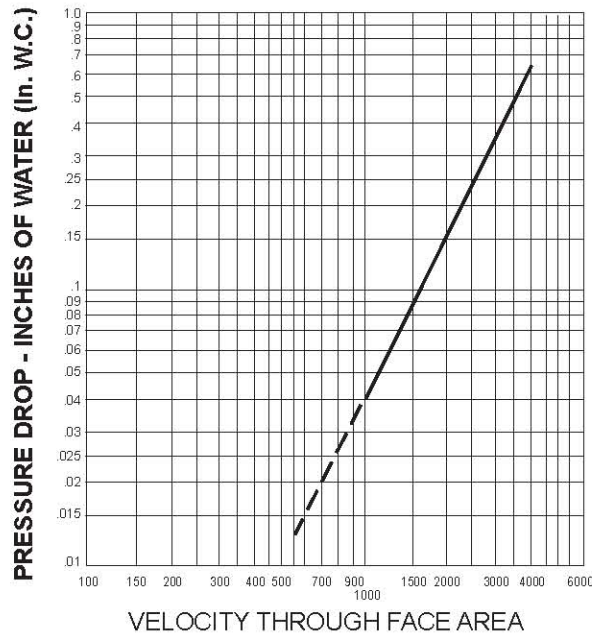
APPROVED BY:
SDC

DWG. NO.:
C-2

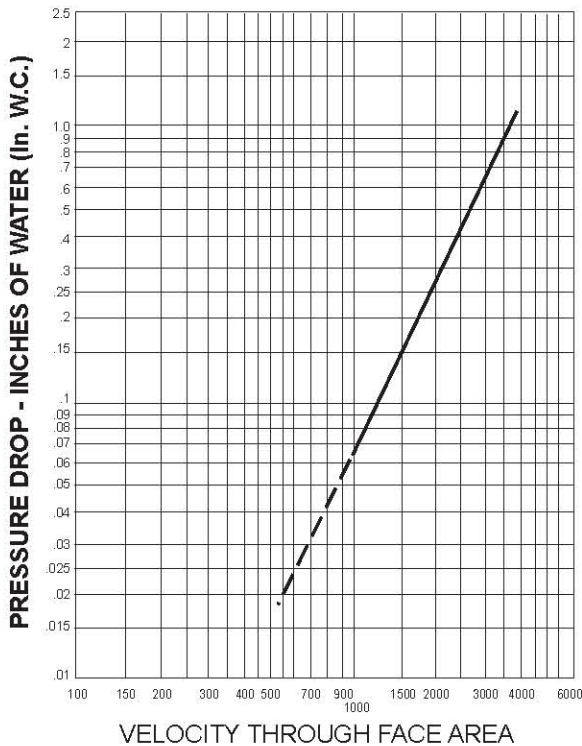
PERFORMANCE DATA

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

DAMPER SIZE 36 x 36



DAMPER SIZE 24 x 24



DAMPER SIZE 12 X 12

