# MODEL AS2C

Combination Fire/Smoke Damper + 11/2 Hr Fire/Smoke Damper / 1 Hr Tunnel-Type Corridor Celling Damper + Single Thickness Blade + Leakage Class II + 250°F Rated + Galvanized Steel

### Standard Materials and Construction

FRAME:	5½" x 16 GA. galvanized steel hat channel.
BLADES:	16 GA. galvanized steel, parallel action.
AXLES:	Plated solid steel stub.
BEARINGS:	Oil impregnated bronze.
LINKAGE:	Plated steel angle and crank plates with stainless steel
	pivots, in-jamb type.
STOPS:	20 GA. galvanized steel at head and sill.
BLADE SEALS:	Silicone.
JAMB SEALS:	Stainless steel.
SLEEVE:	20 GA. unflanged, 16" deep.
CAULKING:	UL approved.
ACTUATOR:	Electric with heat response device (EHRD). Factory-installed
	for power-open/spring-close (fail close) operation. Internal
	left hand mounted as viewed for jackshaft side of damper.
	Dampers less than or equal to 13" high external left hand
<b>EINIIO</b>	mounted.
FINISH:	MIII

### <u>Options</u>

Sleeve of various depths and gauges with  $3\!\!/ 3$  flange on bottom side. Round or oval transitions

• Top and bottom for unflanged sleeves; top only for flanged sleeves. 212°F fusible link.

Perimeter mounting angles.

External mounted actuator.

Sensotherm re-openable heat response device (ESOT) for electric actuator.

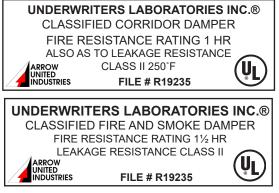
### <u>Notes</u>

1. Damper frames are provided approximately ¼" undercut. The addition of a sleeve will increase the size of the assembly.

2. This damper is approved to be mounted either vertically (wall or partitions) or horizontally (floors) when used as a  $1\frac{1}{2}$  hour fire-smoke damper.

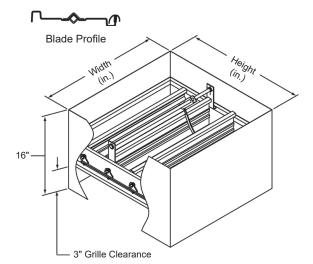
### Damper Sizes

Orientation	Horizontal (floor) or Vertical (wall)				
Panels	Minimum Panel	Maximum Panel	Max Assy Panel		
Rectangular	6"W x 6"H (8"W x 8"H frame)	24"W x 24"H	n/a		
Round	6" dia. (8"W x 8"H frame)	22" dia.	n/a		
Oval	6"W x 6"H (8"W x 8"H frame)	22"W x 22"H	n/a		



This fire/smoke damper meets the construction and performance requirements of

- Underwriters Laboratories Inc. Standards 555 and 555S
- National Fire Protection Association Standards 80 and 90A
- · ICC's International Building Code
- California State Fire Marshal Listing #3226-1328:116
- Underwriters Laboratories Inc. Approved for dual direction airflow and dynamic conditions.
- Underwriters Laboratories Inc. Classified for use in fire resistive ratings of less than 3 hours.
- Underwriters Laboratories Inc. Classified for use in smoke control systems for Leakage Class II and 250°F.
- Actuators must be arranged to operate automatically, must fail closed upon loss of power, and must be controlled by a smoke detection system.



Horizontal Vertical Fire-Smoke Corridor Velocity Pressure Item # Qtv Damper Size Orientation **Operational Rating Damper Type Union Made** Arch. / Eng.: EDR: ECN: Job: Contractor: DWN: Project: Date: DWG:



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### **Operational Rating**

Maximum Differential Pressure: 4 in. w.g. Maximum Face Velocity: 2000 FPM

### Leakage Rating

UL Leakage Class II

10 ČFM per sq.ft. maximum @ 1 in. w.g.

20 CFM per sq.ft. maximum @ 4 in. w.g.

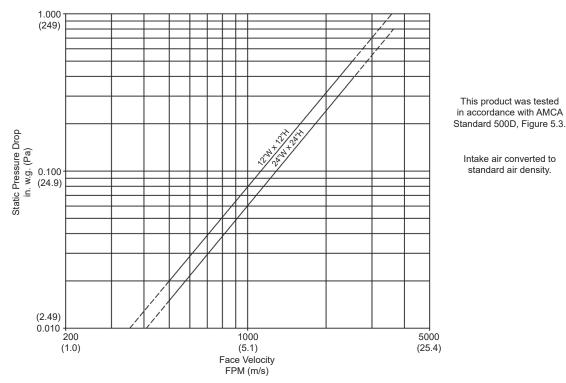
### Sound Rating

The Noise Criterion data below was tested in accordance with ASTM E477.99 in the center octave band.

Noise Criterion (NC)							
Damper Size	Velocity (fpm)						
	1000	2000	3000	4000			
12"W x 12"H	31	53	64	71			
24"W x 24"H	33	54	65	-			

### Pressure Drop Rating

The pressure drop data shown below is based on laboratory conditions. The test setup does not take into account elbows or other duct fittings that are part of every actual duct system. The configuration of the actual duct system immediately upstream and downstream of the damper often contributes more pressure loss than the damper itself.



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