



## MODEL XABD-2 EXTRUDED ALUMINUM BACKDRAFT DAMPER

### Standard Construction:

- Frame:** .070 (1.8 mm) extruded aluminum.  
**Blades:** .052 (1.3 mm) extruded aluminum.  
**Bearings:** Nylon.  
**Axles:** 3/16" (4.8 mm) dia. nylon.  
**Seals:** Vinyl blade seals.  
**Linkage:** Heavy gauge aluminum brackets with aluminum linkage bar.

**Finish:** Mill aluminum.

**Minimum Damper Size:** Single Blade - 6"w x 6"h  
(152 mm x 152 mm)

**Maximum Damper Size:** Single Section - 40"w x 52"h  
(1015 mm x 1321 mm)

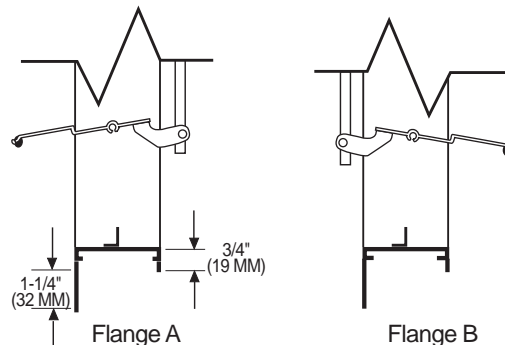
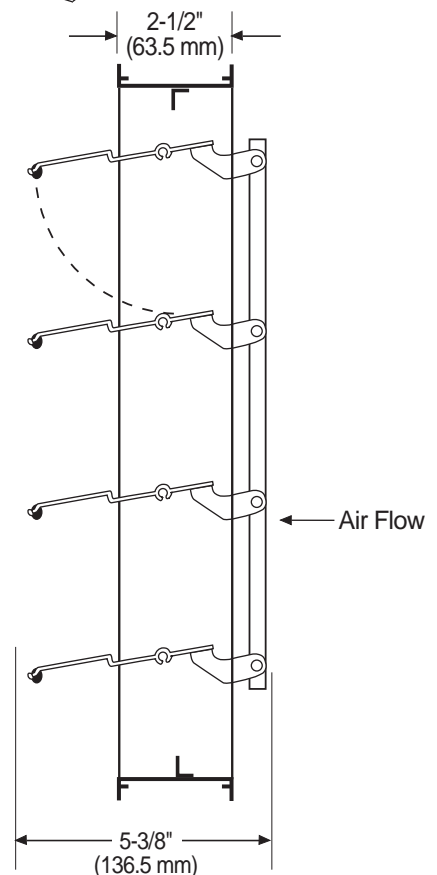
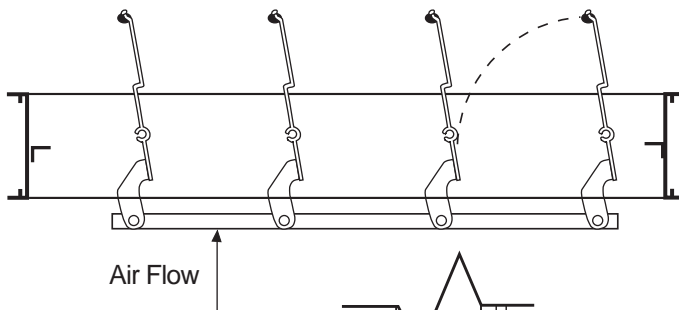
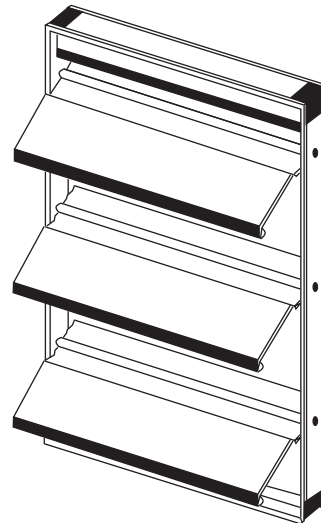
**Maximum Velocity:** 2500 fpm

### Options:

- Counterweight:** Assist or Retard  
**Flange:** 1-1/4" (32 mm) Flange frame (front or rear)  
**Operators:** Electric motor operators  
**Mounting:** Horizontal mount (up blast only)  
**Finish:** Special finishes

### Notes:

- All dampers are fabricated 1/4" under listed size unless specified "actual or exact".
- Dampers must be installed square and free from racking.



XABD-2 - 02-05

Specifications are correct at time of printing. However, as part of our 'continuous improvement program,' we reserve the right to make further improvements without notice.

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Project:

Contractor:

Location:

Address:

Architect:

P.O. Number:

Engineer:

Date:



# MODEL XABD-2 EXTRUDED ALUMINUM BACKDRAFT DAMPER

## PERFORMANCE DATA

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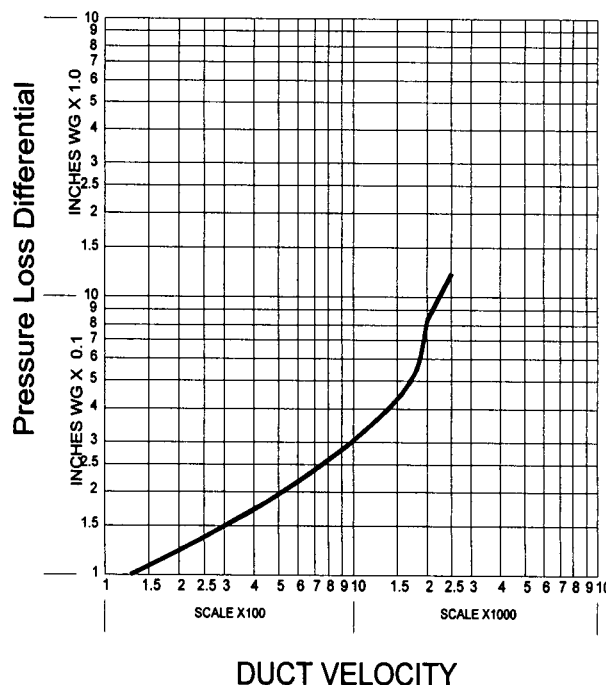
The following performance data and tables are developed from testing a 24" x 24" XABD-2 Backdraft Damper in accordance with AMCA Standard 500 using figure 5.5 (vertical mount, no ductwork upstream or downstream). The data represented has been corrected to represent standard air density, .075 lb/ft<sup>3</sup>. Testing to AMCA standard 500 is preformed under laboratory conditions. Actual field and environmental conditions may exist that will not allow the dampers to perform and operate in this manner. Horizontal mounted dampers may require high flows and create larger pressure drops. The XABD-2 is an extruded aluminum frame and blade damper and it is recommended for velocities up to 2500 fpm.

**Position Data**

Blade Position	Δ P (in. wg)	Velocity (fpm)
5% Open	0.07	45
25% Open	0.15	325
50% Open	0.25	800
75% Open	0.40	1400
100% Open	0.45	1625

## PRESSURE DROP (Exhaust)

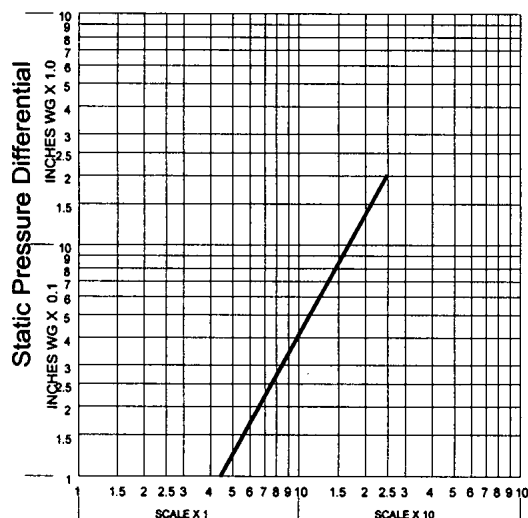
### XABD-2



## Leakage

### Width - Inches

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Air Leakage in CFM/Sq. Ft.

Height (inches)

	6	12	16	20	24	28	32	36	40
6	0.07	0.19	0.26	0.34	0.41	0.49	0.56	0.63	0.71
12	0.20	0.51	0.72	0.92	1.13	1.33	1.53	1.74	1.94
16	0.31	0.77	1.07	1.38	1.69	2.00	2.30	2.61	2.92
20	0.41	1.02	1.43	1.84	2.25	2.66	3.07	3.48	3.89
24	0.51	1.28	1.79	2.30	2.82	3.33	3.84	4.35	4.86
28	0.61	1.54	2.15	2.76	3.38	3.99	4.61	5.22	5.84
32	0.72	1.79	2.51	3.23	3.94	4.66	5.38	6.09	6.81
36	0.82	2.05	2.87	3.69	4.51	5.32	6.14	6.96	7.78
40	0.92	2.30	3.23	4.15	5.07	5.99	6.91	7.83	8.76
44	1.02	2.56	3.58	4.61	5.63	6.66	7.68	8.70	9.73
48	1.13	2.82	3.94	5.07	6.20	7.32	8.45	9.58	10.70
52	1.23	3.07	4.30	5.53	6.76	7.99	9.22	10.45	11.68