



MODEL XABD-1 ALUMINUM BACKDRAFT DAMPER

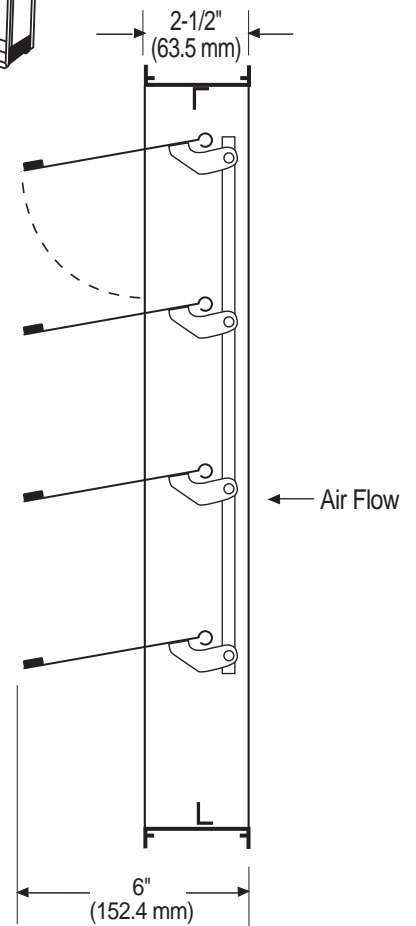
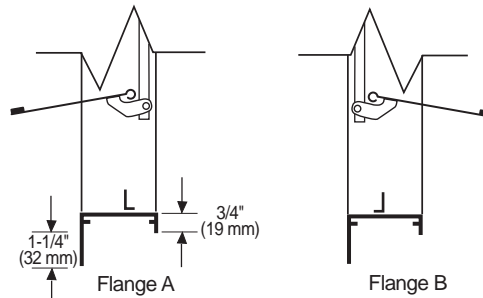
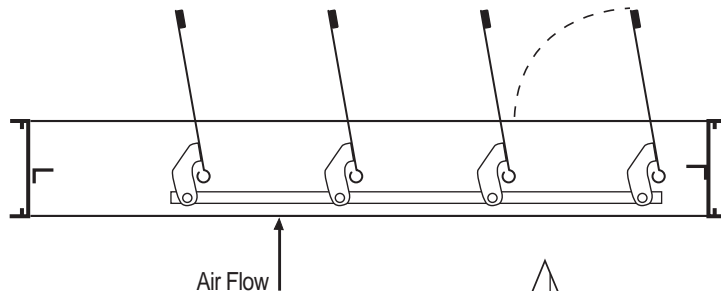
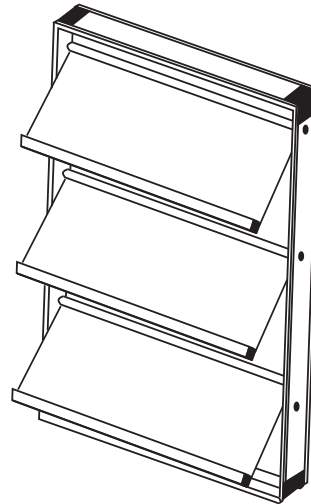
Standard Construction:

- Frame:** .070 (1.8 mm) extruded aluminum.
Blades: .025 (6.4 mm) roll formed aluminum
Bearings: Nylon.
Axles: 3/16" (4.8 mm) dia. nylon.
Seals: Polyurethane foam 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 - 36"w x 52"h
(914 mm x 1321 mm)
Maximum Velocity: 1500 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" (6.4 mm) under listed size unless specified "actual or exact".
- Dampers must be installed square and free from racking.



XABD-1 - 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:
Location:
Architect:
Engineer:

Contractor:
Address:
P.O. Number:
Date:



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PERFORMANCE DATA

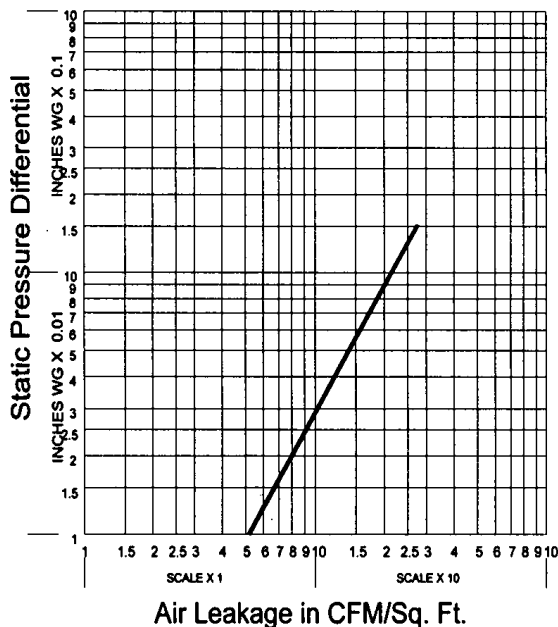
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The following performance data and tables are developed from testing a 24" x 24" XABD-1 Backdraft Damper in accordance with AMCA Standard 500 using figure 5.5 (vertical mount, no ductwork upstream or downstream). The data represented has been corrected to represent standard air density, .075 lb/ft³. 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-1 is an extruded aluminum frame and formed aluminum blade damper and it is recommended for velocities up to 1500 fpm.

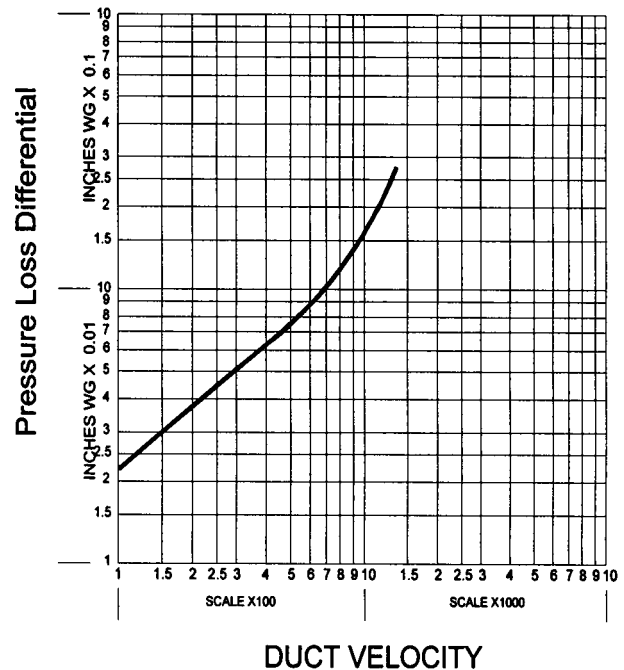
Position Data

Blade Position	Δ P (in. wg)	Velocity (fpm)
5% Open	0.02	25
25% Open	0.05	275
50% Open	0.08	525
75% Open	0.13	850
100% Open	0.18	1075

Leakage



**PRESSURE DROP (Exhaust)
XABD-1**



XABD-1 Free Area in Sq. Ft.

Width - (Inches)

	6	12	16	20	24	28	32	36
6	0.08	0.19	0.27	0.34	0.42	0.50	0.57	0.65
12	0.22	0.54	0.76	0.97	1.19	1.40	1.62	1.84
16	0.32	0.80	1.12	1.44	1.76	2.08	2.40	2.72
20	0.42	1.06	1.49	1.91	2.33	2.76	3.18	3.61
24	0.53	1.32	1.85	2.38	2.91	3.44	3.96	4.49
28	0.63	1.58	2.21	2.85	3.48	4.11	4.75	5.38
32	0.74	1.84	2.58	3.32	4.05	4.79	5.53	6.26
36	0.84	2.10	2.94	3.79	4.63	5.47	6.31	7.15
40	0.95	2.36	3.31	4.25	5.20	6.14	7.09	8.04
44	1.05	2.62	3.67	4.72	5.77	6.82	7.87	8.92
48	1.15	2.88	4.04	5.19	6.35	7.50	8.65	9.81
52	1.26	3.14	4.40	5.66	6.92	8.18	9.43	10.69

Height (inches)

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