# **MODEL BSL**

# Backdraft Damper ▲ 2" Deep ▲ Single Thickness Blade ▲ Light Duty ▲ Extruded Aluminum

## STANDARD MATERIALS AND CONSTRUCTION

FRAME:	.080" thk. (nominal) extruded aluminum channel, 5⁄8" x 2" x 5⁄8".
BLADE:	.032" thk. (nominal) aluminum, formed over a <sup>3</sup> / <sub>16</sub> " dia. steel rod.
SEALS:	Polyurethane foam at blade edges, none at jambs.
BEARINGS:	Bronze Oilite.
LINKAGE:	Aluminum chevron bracket with aluminum linkage bar.
FINISH:	Mill.

**OPTIONS** 

Flange Frame No Blade to Blade Linkage Bird or Insect Screen Adjustable Counterbalance

(Specify to Assist or Resist Opening, Linkage Must be Used)

#### <u>NOTES</u>

- 1. Nominal deductions will be made to the opening size given.
- 2. Specify air flow as horizontal, vertical up, or vertical down.

#### DAMPER SIZES

Fully Open

Min Panel	Max Single Panel
8"W x 8"H	48"W x 72"H

45°

**Clearance Dimensions** 

Partially Open









Frame Option 1 Channel Frame 4" or 6" Deep, .080" Thick 2" or

Frame Option 2 Flange Frame 2" or 4" Deep, .080" Thick

Thom #	Ohr	Width	Height	Width	Height	Mullion	Counter Balance		er Balance Air Flow (Direction)		
Item #	Qty	Openii	ng Size	Damp	er Size	Mullion					<u>Union Made</u>
Arch. / Eng.:						EDR:		ECN:		Job:	
Contr	actor:										
Pr	oject:					Date:		DWN:		DWG:	



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### PRESSURE DROP DATA

Typical performance for model BSL backdraft damper size tested 42"W x 42"H, furnished with counterweight to assist opening.



## AIR LEAKAGE DATA

Air leakage quantities shown in the chart are results of tests per AMCA standard 500 and are shown at .10 in. w.g. differential pressure and corrected to .075 lbs/cu.ft. air density.

		12"	18"	24"	30"	36"	42"	48"			
(in.)	12"	6.6	9.9	13.2	16.5	19.8	23.1	26.4			
	24"	13.2	19.8	26.4	33.0	39.6	46.2	52.8			
ght	36"	19.8	29.7	39.6	49.5	59.4	69.3	79.2			
Hei	48"	26.4	39.6	52.8	66.0	79.2	92.4	105.6			
	60"	33.0	49.5	66.0	82.5	99.0	115.5	132.0			
	72"	39.6	59.4	79.2	99.0	118.8	138.6	158.4			

Total CFM Air Leakage at .10" Static Pressure Differential Through Closed Damper Width (in.)

For determining leakage values greater than .10 in. w.g. to a maximum 2 in. w.g. use the multiplier correction chart below.

Static Pressure	.2	.3	.4	.5	1.0	1.5	2.0
Multiplier Correction Factor	1.07	1.12	1.19	1.24	1.66	1.92	2.10

Air leakage ratings are based on AMCA Standard 500 using test set up Fig. 5.4 with damper in the closed position without the aid of a counterweight or other mechanical means to provide closing torque, for a size 42"W x 42"H damper with blade and jamb seals.

