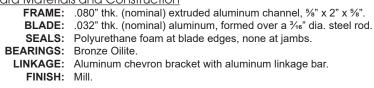
MODEL 500B

Backdraft Damper • 2" Deep • Single Thickness Blades • Light Duty • Extruded Aluminum

Page 1

Standard Materials and Construction



Options

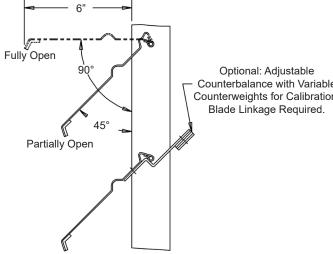
Flange Frame No Blade to Blade Linkage Bird or Insect Screen Adjustable Counterbalance (Specify to Assist or Resist Opening, Linkage Must be Used)

Notes

- 1. ¹/₄" nominal deduction will be made to the opening size given.
- 2. Specify air flow as horizontal, vertical up, or vertical down.

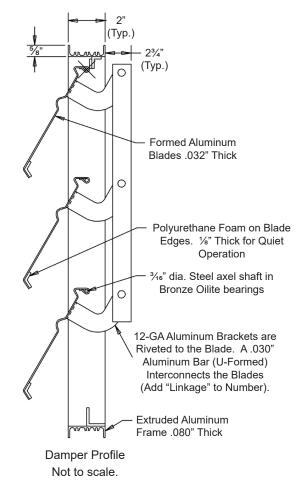
Damper Sizes

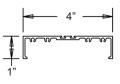
Min Panel	Max Single Panel
8"W x 8"H	48"W x 72"H

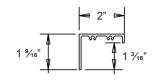


Clearance Dimensions

Counterbalance with Variable Counterweights for Calibration.







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

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

ltore #	0.	Width	Height	Width	Height	Mullion	Counter Balance		Air Flow (Direction)		
Item #	Qty	Openi	ng Size	Damp	er Size	Mullion					Union Made
Arch. / Eng.:						EDR:		ECN:		Job:	
Contractor:											
Project:						Date:		DWN:		DWG:	



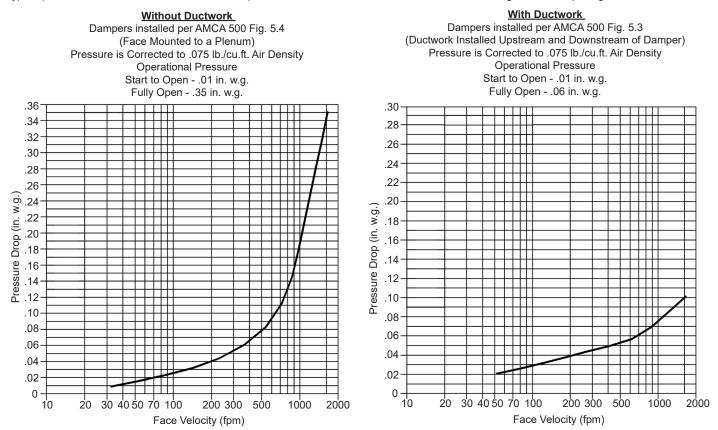
MODEL 500B

Page 2

Backdraft Damper • 2" Deep • Single Thickness Blades • Light Duty • Extruded Aluminum

Pressure Drop Data

Typical performance for model 500B backdraft damper size tested 42"W x 42"H, furnished with counterweight to assist opening.



<u>Air Leakage Data</u>

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.

		widur (irr.)									
		12"	18"	24"	30"	36"	42"	48"			
Height (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			
	36"	19.8	29.7	39.6	49.5	59.4	69.3	79.2			
	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.

