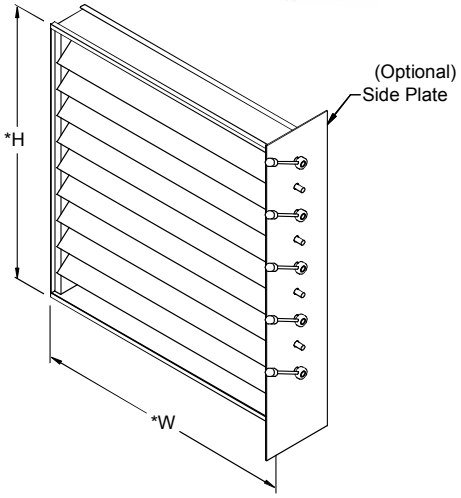
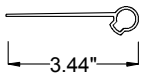
Model BD-200-HD-AL Heavy Duty Aluminum Backdraft Damper



*W & H dimensions furnished approximately 1/4" undersize.
Note: For discharge applications, see fan manufacturer's recommendation for minimum distance between damper and fan.



Blade Detail

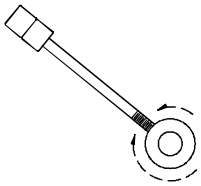
Application
The BD-200-HD-AL is a vertically or horizontally mounted backdraft damper that is designed to allow vertical or horizontal airflow and prevent reverse airflow.

Standard Construction
- Frame: .081 extruded aluminum 4-1/2" deep
- Blade: 6060T5 extruded aluminum .125 thickness
- Linkage: Zinc plated concealed
- Axles: 1/2" diameter cast zinc & steel
- Bearings: Bronze Oilite
- Blade Seals: PVC (180° F)

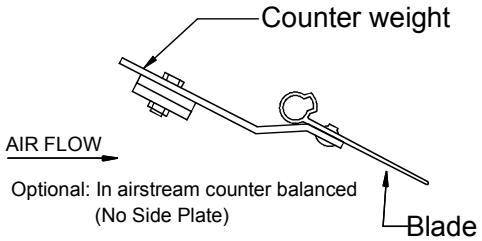
Min. Size 6" w x 6" h
Max. Single Section 48" w x 48" h
Max. Double Section 96" w x 96" h

Ratings
- Pressure: 4 in. w.g. - differential pressure
- Velocity: 4000 fpm
- Temperature: 180° F

Options
- .125 Extruded Aluminum Frame (box frame)
- 1-1/2" flanged frame- .081" extruded aluminum (no side plate)
- In airstream counterbalanced weights (no side plate)
- Epoxy coated (powder coated @ 415°F)
- 450°F silicone blade seals
- Side plate (20ga. galvanized steel)
- Optional in airstream counter balance (no side plate)



Precision Counter Balanced; both by rotation in hub or slide weight up or down the rod in addition to removal or adding weights.



Vertical mount with horizontal airflow shown

Due to continuing research, MAT reserves the right to change specifications without notice.

BD-200-HD-AL

Represented by:

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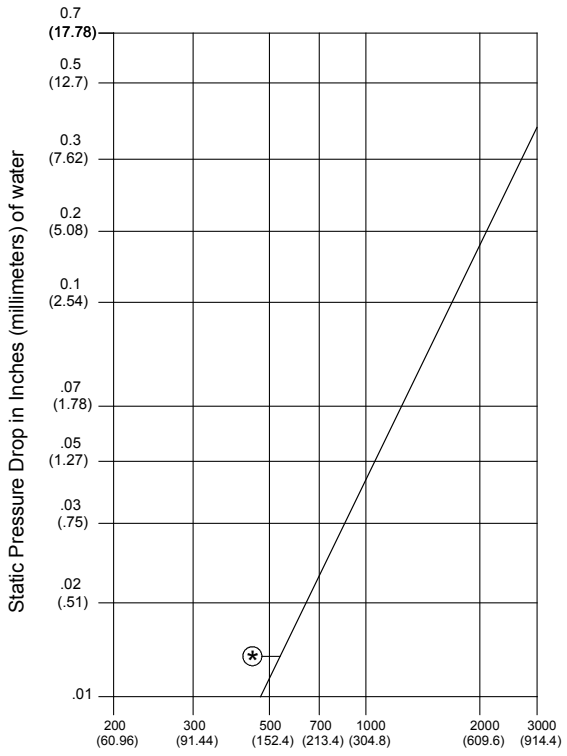
Model BD-200-HD-AL Heavy Duty Aluminum Backdraft Damper Performance Data

DAMPER PERFORMANCE

DAMPER WIDTH	MAXIMUM BACK PRESSURE	MAXIMUM SYSTEM VELOCITY	LEAKAGE*		BLADES START TO OPEN	BLADES FULLY OPEN
			Percent of Max. Flow	CFM/ Sq. Ft.		
48" (1219)	4.0" w.g.	4000 FPM	.61	15	**.01" w.g.*	*.05" w.g.
36" (914)	8.0" w.g.	4000 FPM	.6	15		
24" (610)	12.0" w.g.	4000 FPM	.72	18		
12" (305)	16.0" w.g.	4000 FPM	1	24		

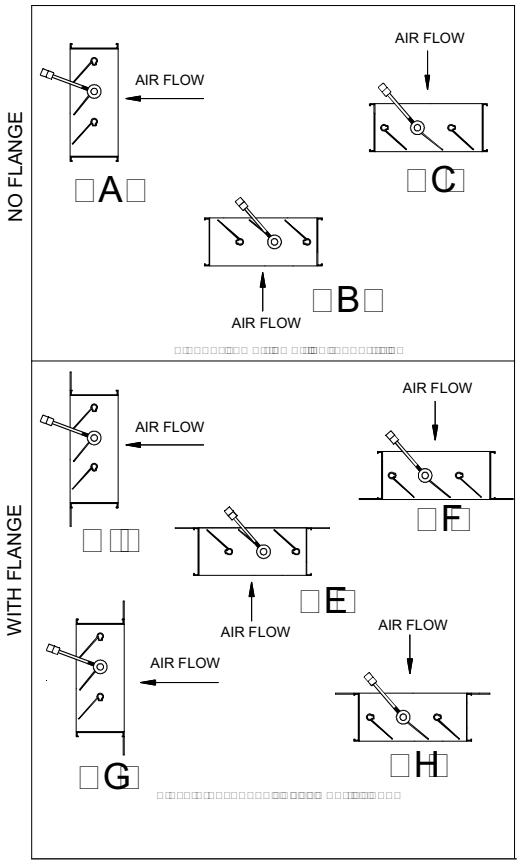
*Leakage information based on pressure differential of 1" w.g. tested per AMCA Std. 500.
**set at least resistant to open

DAMPER PRESSURE DROP
(24" X 24")



Air Velocity in feet (meters) per minute through face area. Tested per AMCA Std. 500, Fig. 5.3, ductwork upstream and downstream.
* Set at least resistant to open

BD-200-HD-AL AIR FLOW ARRANGEMENTS



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