

**HEAVY DUTY  
BACKDRAFT DAMPER****Application and Design**

The **HCB-750** Series is a vertically or horizontally mounted backdraft damper that is designed to allow vertical or horizontal airflow and prevent reverse airflow.

**Ratings:**

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

**Standard Construction:**

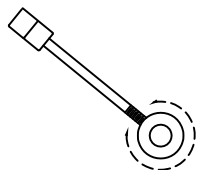
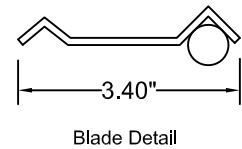
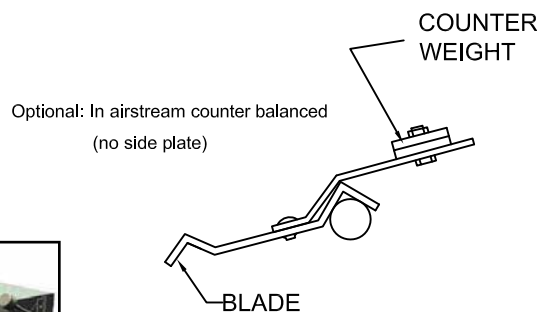
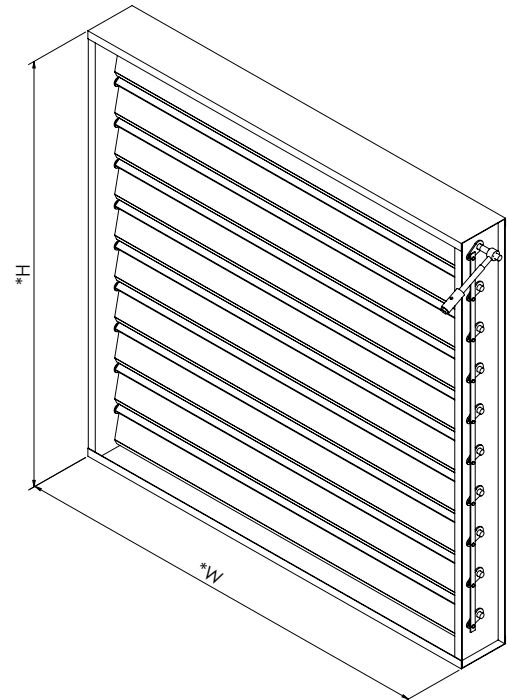
**Frame:** 16ga. Galvanized Steel  
**Blade:** 16ga. Galvanized Steel V-Blade  
**Linkage:** Zinc plated concealed  
**Axles:** 1/2" diameter cast zinc & steel  
**Bearings:** Bronze Oilite  
**Blade Seals:** PVC (180° F)

**Size Limitations:**

**Minimum Size:** 6" w x 6" h  
**Maximum Single Section:** 48" w x 48" h  
**Maximum Double Section:** 96" w x 96" h

**Options and Accessories:**

- ☐ Heavier gauge Steel construction
- ☐ Custom flange
- ☐ Side Plate (20ga. galvanized steel)
- ☐ All #304 Stainless Steel construction
- ☐ All #316 Stainless Steel construction
- ☐ In airstream counterbalanced weights
- ☐ Epoxy coated (powder coated @ 415°F)
- ☐ 450°F silicone blade seals



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



Quantity	Size		Other Options
	'W' Width	'H' Height	

Job Name:

Location:

Architect:

Engineer:

Contractor:

☐ **MODEL HCB-750 (4000 FPM)**

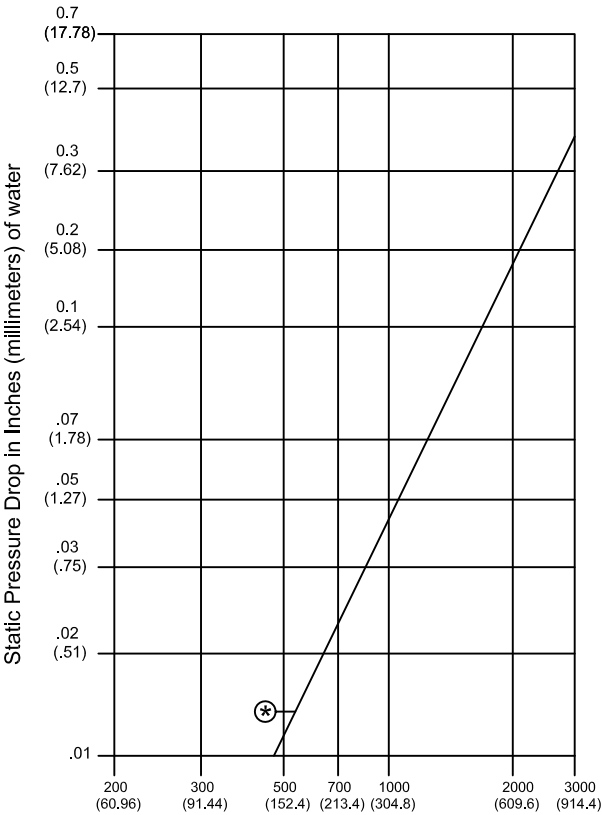
DAMPER PERFORMANCE

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")



HCB-750 AIR FLOW ARRANGEMENTS

Standard counter weights at jamb  
(assist to CLOSE)

