(ENGINEERS)

SUBMITTAL DATA

HEAVY DUTY BACKDRAFT DAMPER

Application and Design

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

Ratings:

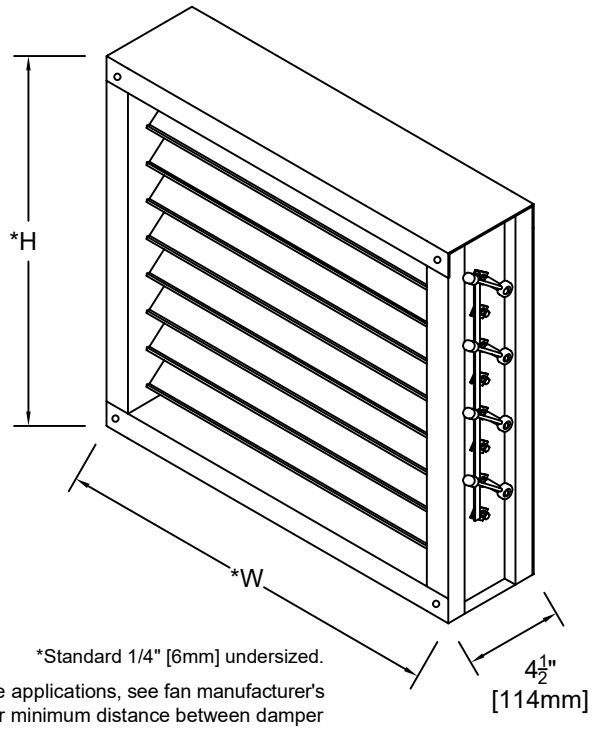
Pressure: 4 in. w.g. [996Pa] - differential pressure
Velocity: 4000 fpm [20m/s]
Temperature: 180° F [82° C]

Standard Construction:

Frame: 16ga. Galvanized Steel
Blade: 16ga. Galvanized Steel V-Blade
Linkage: Zinc plated concealed
Axles: 1/2" [13mm] diameter cast zinc & steel
Bearings: Bronze Oilite
Blade Seals: PVC (180° F) [82° C]

Size Limitations:

Minimum Size: 6" w x 6" h [152mm x 152mm]
Maximum Single Section: 48" w x 48" h [1219mm x 1219mm]
Maximum Double Section: 96" w x 96" h [2438mm x 2438mm]



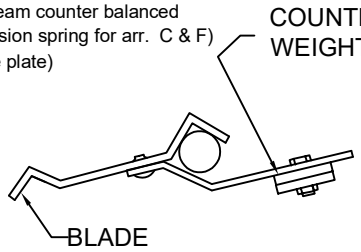
*Standard 1/4" [6mm] undersized.

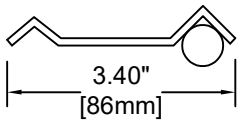
Note: For discharge applications, see fan manufacturer's recommendation for minimum distance between damper and fan.

Options and Accessories:

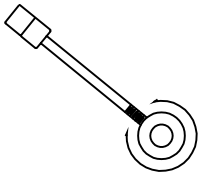
- ☐ Heavier gauge Steel construction
- ☐ Custom flange
- ☐ Side Plate (20ga. galvanized steel)
- ☐ All #304 Stainless Steel construction
- ☐ All #316 Stainless Steel construction
- ☐ In airstream counterbalanced weight/constant tension spring
- ☐ Epoxy coated (powder coated @ 415°F [213° C])
- ☐ 450°F [232° C] silicone blade seals

Optional: In airstream counter balanced (with constant tension spring for arr. C & F) (no side plate)





Blade Detail



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	

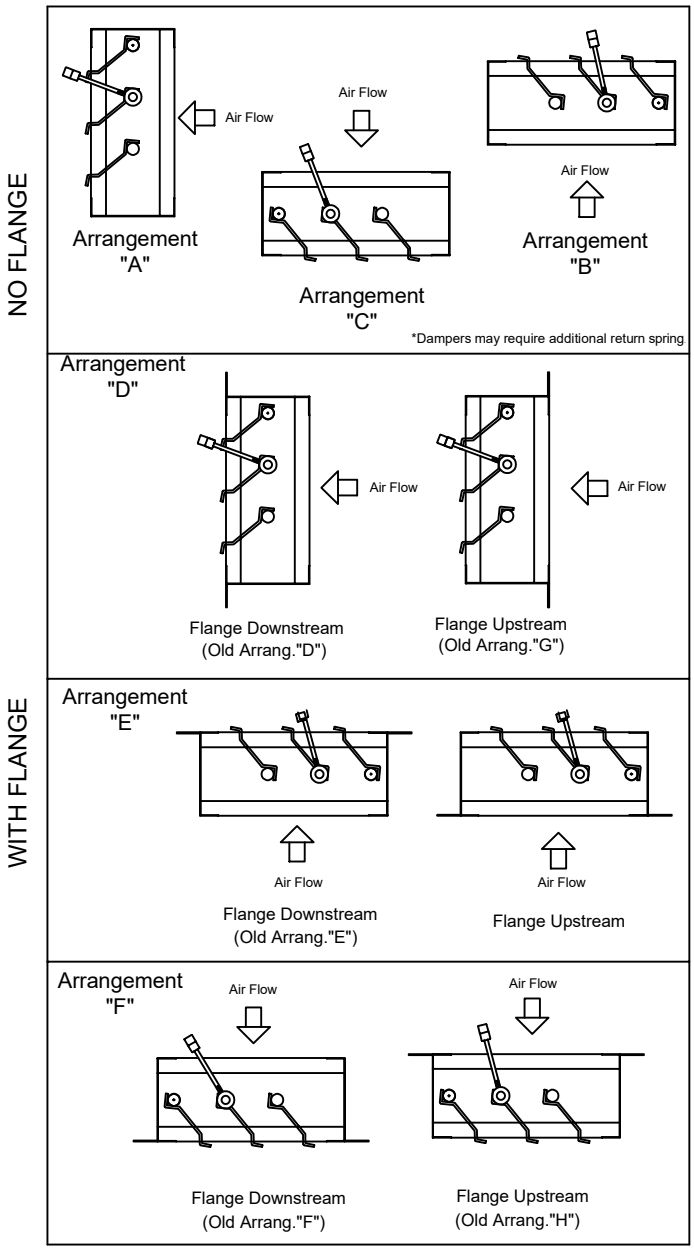
Due to continuing research, United Enertech reserves the right to change specifications without notice.

Job Name:	☐ **MODEL HCB-750 (4000 FPM)**		
Location:			
Architect:	DRAWN BY: CLJ	DATE: 5-1-07	REV. DATE: 6-24-20
Engineer:	REV. NO. 14		DWG. NO.: **F-12**
Contractor:			

For damper performance, consult factory.

HCB-750 AIR FLOW ARRANGEMENTS

Standard counter weights at jamb
(assist to OPEN) (Standard)



DISCLAIMER:

When used in fan discharge applications, the damper should be installed at LEAST $\frac{1}{2}$ the fan diameter away from the fan to mitigate premature product wear.