

SUBMITTAL DATA

HEAVY DUTY BACKDRAFT DAMPER

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(Optional) Side Plate

Application and Design

The HCB-700 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. [996 Pa] - differential pressure

Velocity: 4000 fpm [20m/s] Temperature: 180° F (82° C)

Standard Construction:

Frame: 0.081 [2mm] Extruded Aluminum 4-1/2" [114mm] deep Blade: 6063-T5 Extruded Aluminum 0.125" [3mm] thickness

Linkage: Zinc plated concealed

Axles: 1/2" [13mm] diameter cast zinc & steel

Blade Seals: PVC (180°F) [82° C]

Bearings: Bronze Oilite

Size Limitations:

Minimum Size: 6" w x 6" h [152mm x 152mm]

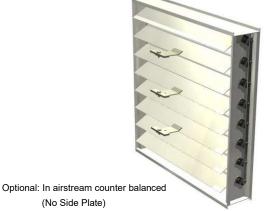
Maximum Single Section: 48" w x 48" h [1219mm x 1219mm] Maximum Double Section: 96" w x 96" h [2438mm x 2438mm]

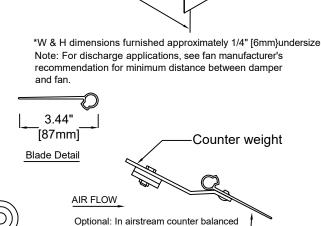
Options and Accessories:

- □ 0.125" [3mm] Extruded Aluminum Frame (box frame)
- □ 1-1/2" [38mm] flanged frame- 0.125" [3mm] extruded aluminum (no side plate)
- ☐ In airstream counterbalanced weights (no side plate)
- ☐ Epoxy coated (powder coated @ 415°F [213° C])
- □ 450°F [232° C] Silicone blade seals

(No Side Plate)

☐ Side Plate (20ga. galvanized steel) 6-1/4" w x (H+1") (159mm W x (H+25mm)





(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.

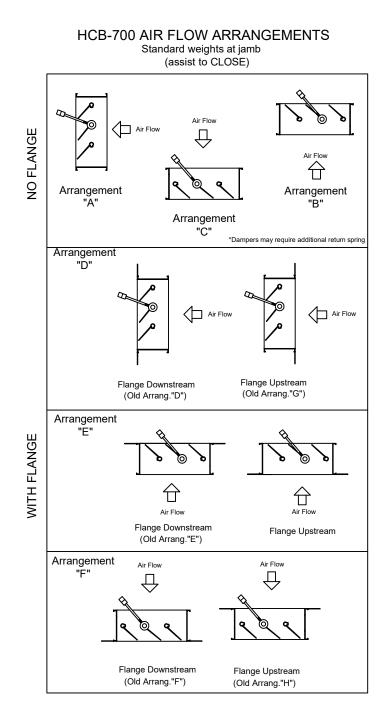
Vertical mount with horizontal airflow shown Blade

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

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

Job Name:			
Location:	□ MODEL HCB-700 (4000 FPM)		
Architect:	DRAWN BY:	DATE:	REV. DATE:
Engineer:	CLJ	12-03-99	6-24-2020
Contractor:	REV. NO. 31	APPROVED BY: BGT	DWG. NO.: F-10

For damper performance, consult factory.



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.