DEPENDABLE PRODUCTS SINCE 1955

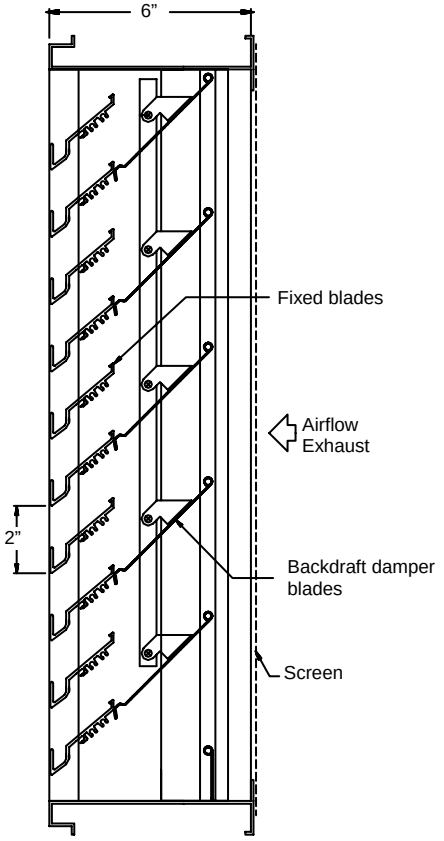
Combination Louver with Exhaust Backdraft Damper Model: CDHL-26e

Design Features – Drainable blade stationary and light duty backdraft damper in 6" deep common frame for low static pressure applications.

PLEASE SPECIFY HORIZONTAL OR VERTICAL FLOW

STANDARD CONSTRUCTION

FRAME
6" deep, .081" thick extruded aluminum alloy 6063-T5 in style #3
BLADES
Fixed .081"thick extruded aluminum alloy 6063-T5 drainable @ 45^0
and backdraft damper .025" thick 5005-H34 alloy formed aluminum
BLADE AXLES & BEARINGS
AXLE – 3/16" dia. aluminum pin
BEARING – Brass sleeve
LINKAGE
BLADE BRACKET – 16 gauge aluminum
LINKAGE BAR - .025", 5005-H34 aluminum
SEALS
Polyurethane foam blade edge for quiet operation
MAXIMUM TEMPERATURE
200^0 F
MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others
MAXIMUM SINGLE SECTION SIZE
60"W x 96"H (36" x 96" backdraft damper)
MINIMUM SIZE
6"W x 6"H
MULLION
Visible mullion only
UNDERSIZED
1/4" under ordered size unless specified Exact or Actual
FINISH
Mill
OPERATOR
None



VERTICAL SECTION

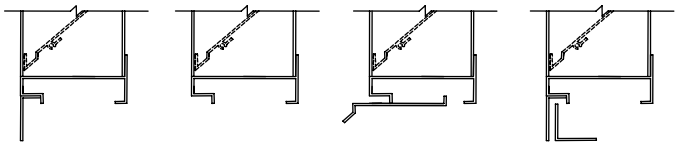
OPTIONAL CONSTRUCTION

FLANGE FRAME – Standard flange, Reverse flange
COUNTER WEIGHT – Galvanized steel, .063" aluminum bracket,
(Must specify retard or assist on the order)
SEAL - Neoprene or Vinyl blade seal
COUNTER WEIGHT - Adjustable, on .080 aluminum bracket
OPERATOR – Manual, chain, electric or pneumatic, internally mounted
FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Anodized, Kynar, or Powder coat.

SPECIAL PURPOSE C0NSTRUCTION

Security bars
Horizontal mount up flow or down flow configurations
Filter racks
Sleeved for ductwork connection

FRAME STYLES



1- Flange (1.5") | 3 – Box | 8- Box with Sill Extension | 9 - Flange with Sub Frame

Note: If mounted with fan applications, the minimum distance between the damper and the fan must be equal to 2/3 of the fan diameter.

DATE	ARCHITECT / ENGINEER			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

DEPENDABLE PRODUCTS SINCE 1955

SAFE AIR / DOWCO

Engineering and General Offices

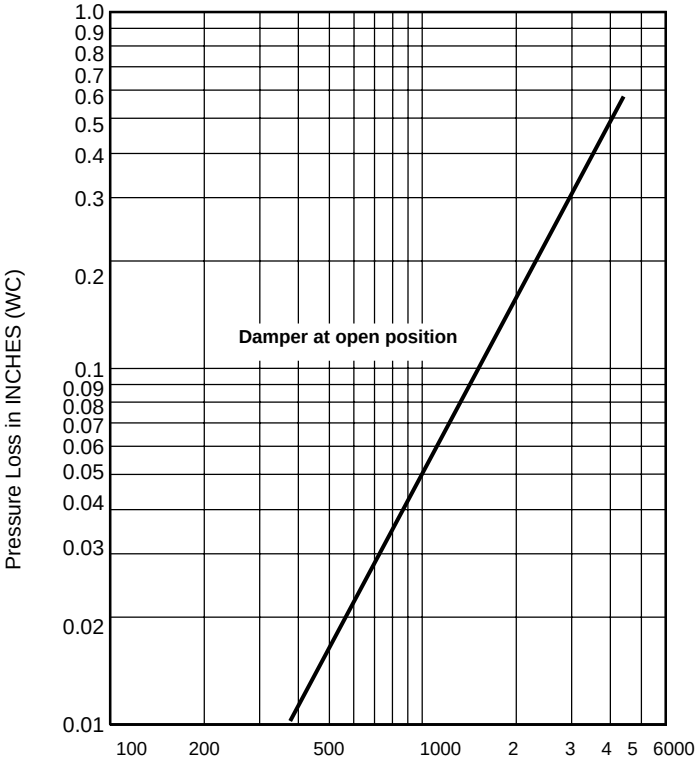
1855 South 54th Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

Model: CDHL-26e

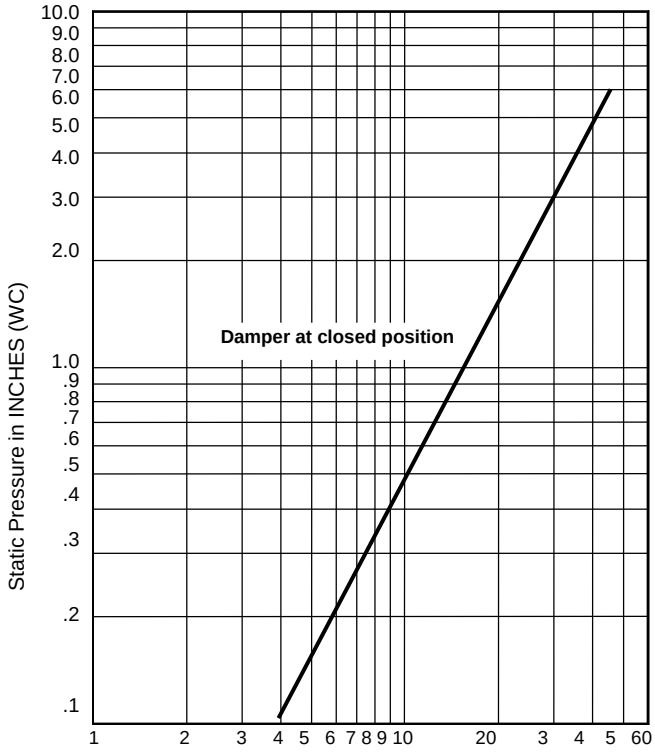
All tests performed at an independent laboratory and based on AMCA standard for air performance.

AIR PERFORMANCE



FACE AREA VELOCITY (fpm)
24" x 24" sample tested per AMCA Std. 500, Figure 5.5

AIR LEAKAGE



LEAKAGE PER SQ. FT. OF FACE AREA (cfm)
24" x 24" sample tested per AMCA Std. 500, Figure 5.5

PERFORMANCE						
Width	Max. Velocity	Max. Pressure	without counter weight		CW to assist	
			Blade start to open	Blade fully open	Blade start to open	Blade fully open
36"	500 fpm	1" wg.	.03" wg.	.10" wg	.01" wg	.06" wg.
24"	750 fpm	2" wg.				
12"	1000 fpm	3" wg.				

LEAKAGE	
Pressure Differential	CFM per sq. ft.
1" wg.	17
.50" wg.	10

TO MINIMIZE LEAKAGE
The Leakage performance of a damper will improve with size and varies with aspect ratio. Leakage may always be minimized by selecting dampers as tall as possible, minimizing width. Testing was performed at an independent laboratory using test procedures based on Industry Standards for air leakage.

Note:
Performance data shown are approximate numbers under intermittent conditions and are to be used only as reference under standard generic installation. Consult Safe Air for additional technical information.

FREE AREA CALCULATIONS (SQ. FT.)

HEIGHT \ WIDTH	12	18	24	30	36
12	0.40	0.63	0.86	1.09	1.32
18	0.65	1.02	1.39	1.76	2.13
24	0.89	1.41	1.92	2.43	2.94
30	1.14	1.79	2.44	3.10	3.75
36	1.39	2.18	2.97	3.76	4.56
42	1.63	2.57	3.50	4.43	5.37
48	1.88	2.95	4.03	5.10	6.17
54	2.13	3.34	4.55	5.77	6.98
60	2.37	3.73	5.08	6.44	7.79
66	2.62	4.11	5.61	7.10	8.60
72	2.86	4.50	6.14	7.77	9.41
78	3.11	4.89	6.66	8.44	10.22
84	3.36	5.27	7.19	9.11	11.03
90	3.60	5.66	7.72	9.78	11.83
96	3.85	6.05	8.25	10.44	12.64