

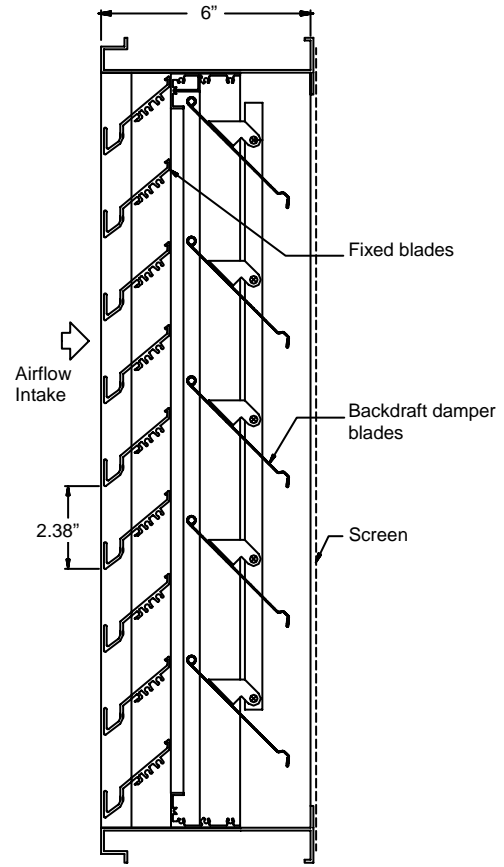
Combination Louver with Intake Backdraft Damper Model: CDHL-26i

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° 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° F
- MAXIMUM SIZE**
Unlimited, with mullions, structural bracing supplied by others
- MAXIMUM SINGLE SECTION SIZE**
60"W x 96"H
- 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

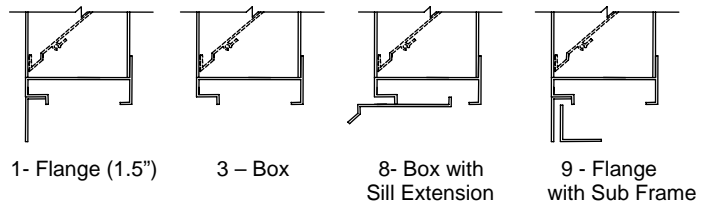
OPTIONAL CONSTRUCTION

- 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 CONSTRUCTION

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

FRAME STYLES



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

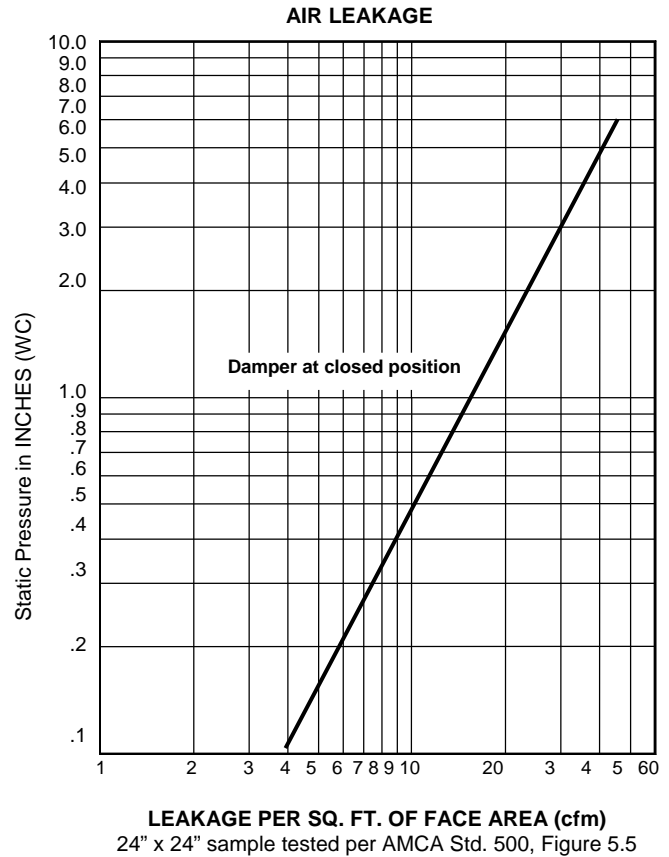
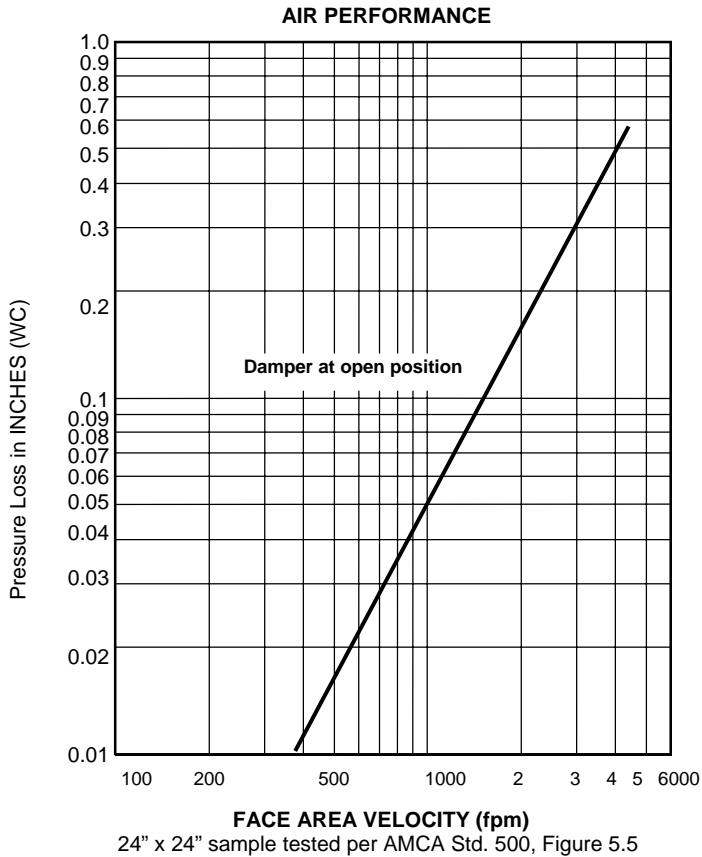
SAFE AIR / DOWCO

Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

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

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



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.				
24"	750 fpm	2" wg.	.03" wg.	.10" wg.	.01" wg.	.06" 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.)

		WIDTH				
		12	18	24	30	36
HEIGHT	Inches					
	12	0.33	0.52	0.70	0.89	1.08
	18	0.55	0.86	1.18	1.49	1.80
	24	0.74	1.16	1.58	2.00	2.43
	30	0.97	1.52	2.07	2.63	3.18
	36	1.15	1.80	2.46	3.12	3.77
	42	1.39	2.18	2.97	3.76	4.56
	48	1.56	2.45	3.34	4.23	5.12
	54	1.80	2.84	3.87	4.90	5.93
	60	1.97	3.10	4.22	5.35	6.47
	66	2.21	3.48	4.75	6.01	7.28
	72	2.39	3.75	5.12	6.49	7.85
78	2.63	4.13	5.63	7.13	8.63	
84	2.81	4.41	6.02	7.62	9.23	
90	3.04	4.77	6.50	8.24	9.97	
96	3.23	5.07	6.92	8.76	10.61	