DEPENDABLE PRODUCTS SINCE 1955

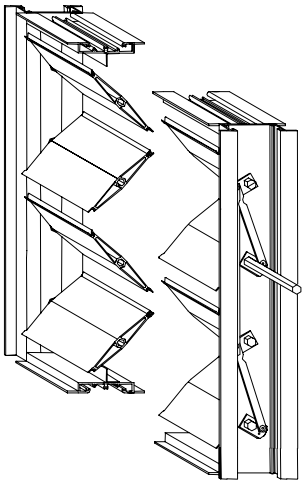
Extruded Aluminum Low Leakage, Low Pressure Drop Damper –Model 600

Design Features – Strong blade design that can satisfy high-level system requirements (up to 8" static pressure and 3000 fpm for dampers less than 36" wide), with minimal flow through system loss, while maintaining very low leakage while in the closed position.

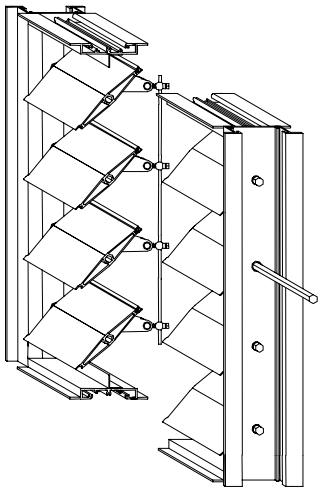
STANDARD CONSTRUCTION

EXTRUDED ALUMINUM 6063-T5

FRAME
5.5" Deep, .125 extrude aluminum
BLADES
6" Wide, .081" extruded aluminum airfoil
(Bottom blade width may vary depending on damper height)
BLADE AXLES & BEARINGS
AXLE – 7/16" Continuous steel plated hex
BEARING – Bronze oil impregnated
SEALS
Silicone blade edge & aluminum jamb seals
LINKAGE
Pleated steel concealed inside of jamb.
MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others
(Multi-section sizes usually require jackshafting)
MAXIMUM SINGLE SECTION
60"W x 96"H
MINIMUM SIZE
6"W x 9"H
UNDERSIZED
1/4" under ordered size unless specified Exact or Actual
FINISH
Mill
OPERATOR
None, 6" extended driving shaft



Opposed Blade



Parallel Blade

OPTIONAL CONSTRUCTION

SPECIFIED MATERIAL – Available in galvanized or stainless steel
SCREEN: Many styles available please consult screen listing
JAMB SEALS – Stainless steel
SLEEVE AND DUCTWORK CONNECTION – 10 ga. to 20 ga. galvanized steel t0 30" in length. – Transitions available in; round, oval, rectangular, or custom. Factory can install access door, retaining angles, and flange connections.
FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Kynar, or Powder coat.
OPERATOR – Manual, electric or pneumatic, internally and externally mounted, or jackshafted. Please consult operator listing.

SPECIAL PURPOSE CONSTRUCTION

Fully welded construction
Security bar
Filter racks

DATE	ARCHITECT			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR/DOWCO

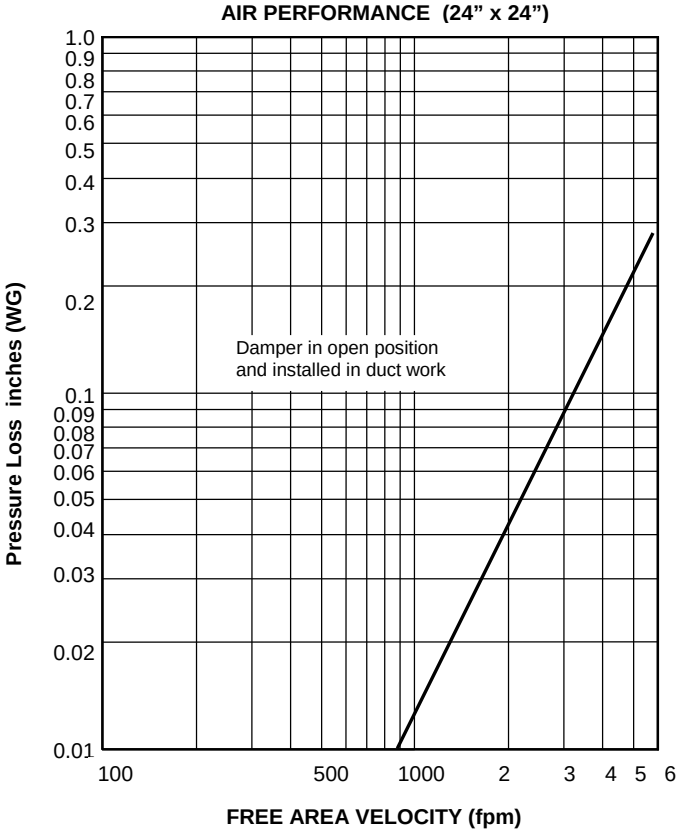
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

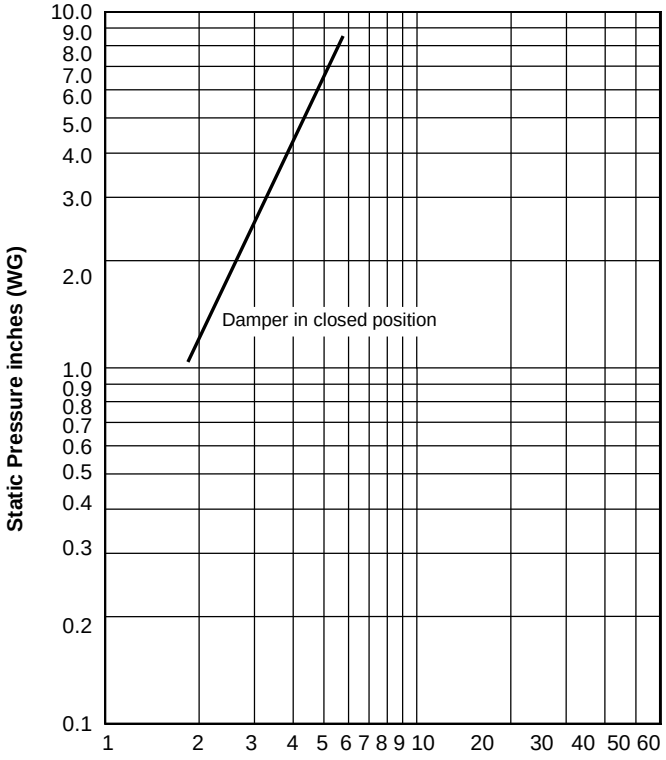
Phone 708-652-9100 FAX 708-652-9158

600 - PERFORMANCE

AIR PERFORMANCE (24" x 24")



AIR LEAKAGE (48" x 48")



Sample was tested with blade and ss jamb seals

CALCULATING PRESSURE LOSS:
Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance graph, knowing the sq. ft. of free area of the damper. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance" graph.

_____in. W.C. Max. Pressure Loss Intake or Exhaust

_____FPM (Free Area Velocity From "Air Performance" Graph)

_____CFM / ____ FPM Free Area Velocity = _____Sq. Ft. Free Area

FREE AREA CALCULATIONS IN SQ. FT.

		WIDTH									
	Inches	**12**	**16**	**20**	**24**	**28**	**32**	**36**	**40**	**44**	**48**
H E I G H T	**12**	0.58	0.81	1.03	1.26	1.49	1.72	1.95	2.17	2.40	2.63
	16	0.86	1.20	1.54	1.88	2.22	2.56	2.89	3.23	3.57	3.91
	20	1.09	1.53	1.96	2.39	2.82	3.26	3.69	4.12	4.55	4.99
	24	1.33	1.86	2.38	2.91	3.43	3.96	4.49	5.01	5.54	6.06
	28	1.61	2.25	2.89	3.52	4.16	4.80	5.43	6.07	6.71	7.34
	32	1.85	2.58	3.31	4.04	4.77	5.50	6.23	6.96	7.69	8.42
	36	2.08	2.91	3.73	4.55	5.38	6.20	7.02	7.85	8.67	9.49
	40	2.37	3.30	4.23	5.17	6.10	7.04	7.97	8.91	9.84	10.78
	44	2.60	3.63	4.66	5.68	6.71	7.74	8.77	9.80	10.82	11.85
	48	2.84	3.96	5.08	6.20	7.32	8.44	9.56	10.69	11.81	12.93
	52	3.29	4.60	5.90	7.20	8.50	9.80	11.10	12.41	13.71	15.01
	56	3.36	4.68	6.01	7.33	8.66	9.98	11.31	12.63	13.96	15.29
	60	3.59	5.01	6.43	7.85	9.27	10.68	12.10	13.52	14.94	16.36
	64	3.87	5.40	6.93	8.46	9.99	11.52	13.05	14.58	16.11	17.64
	68	4.11	5.73	7.35	8.98	10.60	12.22	13.85	15.47	17.09	18.72
	72	4.34	6.06	7.78	9.49	11.21	12.93	14.64	16.36	18.08	19.79