EXTRUDED ALUMINUM LOUVER

Adjustable Drainable Blade Louver Model A-DBE-04 & A-DBE-06

Design Features – High performance adjustable design variation of our patented drainable blade configuration. Adjustable feature is useful on systems requiring periodic operation or a means of further deterring the outside element of water penetration, which is made possible when the louver is closed.

STANDARD CONSTRUCTION

ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME
A-DBE-04, 4" (102) deep x .081" (2.1) extruded aluminum in style #3
A-DBE-06, 6" (152) deep x .081" (2.1) extruded aluminum in style #3

BLADES
A-DBE-04, are .081" (2.1) extruded aluminum, 39º
A-DBE-06, are .081" (2.1) extruded aluminum, 36º

BLADE AXLES & BEARINGS
Axles – 7/16" (11) plated steel hex
Bearings – 1/2" (13) dia. bronze oilite

LINKAGE
Plated steel concealed in jamb

MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION
60" W x 96"H (1524 X 2438)

MINIMUM SIZE
12"W x 12"H (305 X 305)

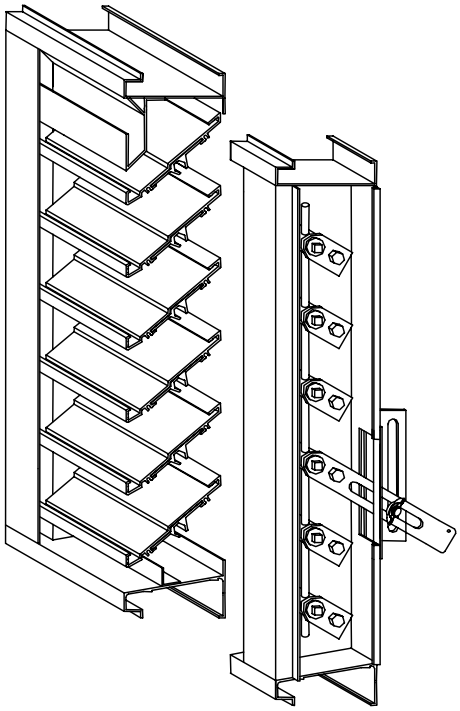
MULLION
Visible

UNDERSIZED
1/4" (6) under ordered size unless specified Exact or Actual

SCREEN
3/4" x .051" (19 X 1.3) flattened expanded aluminum bird screen in frame mounted in the interior side.

FINISH
Mill

OPERATOR
Wing-nut type adjustable



OPTIONAL CONSTRUCTION

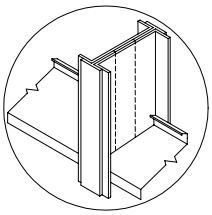
FRAME – Available in a heavier extrusion of .125" (3.2)
BLADES - Available in a heavier extrusion of .125" (3.2)
BLADE & JAMB SEALS – Vinyl blade edge and / or flexible metal jamb seals
(Note: With seals daylight shall still be visible between blades and on the sides.)
SCREEN - Many styles available please consult screen listing
LINKAGE – Blade mounted
FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Kynar, or Powder coat.
OPERATOR – Electric or Pneumatic

SPECIAL PURPOSE CONSTRUCTION

Security bars
Filter racks
Sleeved for ductwork connection
Jackshaft when required

(Consult SAFE-AIR/DOWCO for additional technical information.)

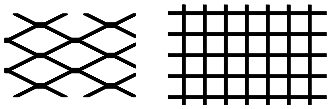
MULLION STYLE



Visible

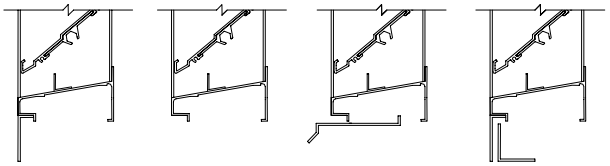
PERFORMANCE	
A-DBE 04	Pt. of Water Penetration **1016 fpm** Free Area **57%** 48 x 48 unit size
A-DBE 06	Pt. of Water Penetration **970 fpm** Free Area **59%** 48 x 48 unit size

TYPICAL SCREEN STYLES



Expanded Aluminum Standard Wire Mesh

FRAME STYLES



(1) - Flange 1-1/2" (3) - Box Standard (8) - Box and Sill Extension (9) - Flange w/ sub frame

DATE	ARCHITECT/ENGINEER			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS INC.

Engineering and General Offices

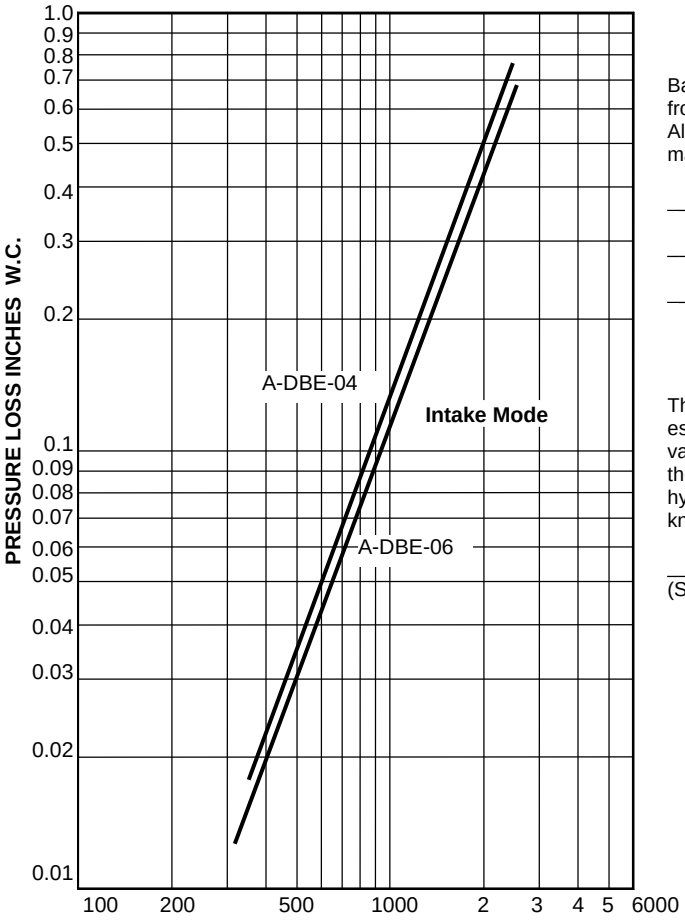
1855 South 54th Avenue, Cicero, Illinois 60804

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

A-DBE PERFORMANCE SPECIFICATIONS

All tests performed at an independent laboratory and based on AMCA standard – 500 for air performance and water penetration.

AIR PERFORMANCE



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)

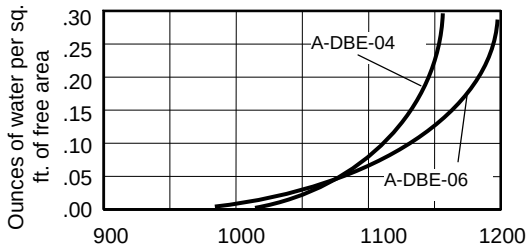
_____CFM / ____ FPM Free Area Velocity = _____Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 1016 (310) fpm for A-DBE-04 and 970 (296) fpm for A-DBE-06, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory test on a 48" x 48" (1219 x 1219) test sample subjected to hypothetical rainfall conditions. To determined the free area (in sq. ft.) based on upon a known volumetric flow rate in CFM;

_____CFM/_____FPM=_____SQ. FT. FREE AREA (System Requirements)

Water Penetration Graph
in oz. of water per sq. ft. of free area over a 15 min. test period



(A-DBE-04) **1016 fpm beginning of water penetration**
(A-DBE-06) **970 fpm beginning of water penetration**

FREE AREA CALCULATIONS IN SQ.

HEIGHT \ WIDTH	12	18	24	30	36	42	48	54	60
12 - 4"	0.29	0.5	0.71	0.92	1.13	1.34	1.55	1.76	1.97
6"	0.28	0.49	0.7	0.91	1.12	1.32	1.53	1.74	1.95
18 - 4"	0.53	0.92	1.32	1.71	2.1	2.5	2.89	3.29	3.68
6"	0.55	0.96	1.36	1.77	2.18	2.59	3	3.4	3.81
24 - 4"	0.77	1.34	1.91	2.48	3.05	3.62	4.2	4.77	5.34
6"	0.76	1.33	1.9	2.47	3.04	3.61	4.18	4.74	5.31
30 - 4"	0.97	1.7	2.42	3.14	3.87	4.59	5.32	6.04	6.77
6"	1	1.74	2.49	3.23	3.97	4.72	5.46	6.21	6.95
36 - 4"	1.19	2.07	2.96	3.84	4.73	5.62	6.5	7.39	8.27
6"	1.26	2.21	3.15	4.1	5.04	5.98	6.93	7.87	8.81
42 - 4"	1.45	2.53	3.61	4.7	5.78	6.86	7.95	9.03	10.11
6"	1.52	2.66	3.8	4.93	6.07	7.21	8.35	9.48	10.62
48 - 4"	1.66	2.9	4.13	5.37	6.61	7.85	9.09	10.33	11.57
6"	1.71	2.99	4.27	5.55	6.83	8.11	9.39	10.67	11.95
54 - 4"	1.86	3.25	4.64	6.04	7.43	8.82	10.21	11.6	13
6"	1.98	3.46	4.94	6.42	7.9	9.38	10.86	12.34	13.82
60 - 4"	2.1	3.68	5.25	6.83	8.4	9.98	11.55	13.13	14.7
6"	2.24	3.92	5.6	7.28	8.96	10.64	12.32	14	15.68
66 - 4"	2.34	4.09	5.85	7.6	9.35	11.11	12.86	14.61	16.36
6"	2.47	4.32	6.17	8.01	9.86	11.71	13.56	15.41	17.26
72 - 4"	2.55	4.45	6.36	8.26	10.17	12.08	13.98	15.89	17.79
6"	2.69	4.71	6.72	8.74	10.76	12.77	14.79	16.8	18.82
78 - 4"	2.76	4.83	6.9	8.96	11.03	13.1	15.16	17.23	19.3
6"	2.96	5.17	7.39	9.61	11.82	14.04	16.25	18.47	20.68
84 - 4"	3.02	5.29	7.55	9.82	12.08	14.34	16.61	18.87	21.14
6"	3.22	5.64	8.05	10.47	12.88	15.3	17.71	20.13	22.54
90 - 4"	3.23	5.65	8.07	10.49	12.91	15.33	17.75	20.17	22.59
6"	3.42	5.98	8.54	11.1	13.65	16.21	18.77	21.33	23.89
96 - 4"	3.44	6.01	8.58	11.15	13.73	16.3	18.87	21.45	24.02
6"	3.67	6.42	9.18	11.93	14.68	17.43	20.18	22.93	25.68