

Drainable Blade Louver in 4" thick frame design Model A-DWF-04

Features – High performance adjustable design to satisfy systems requiring periodic operation.

STANDARD CONSTRUCTION

FRAME

A-DWF-04" (102) thick, is 18 gauge (1.3) galvanized steel in style #3

ADJUSTABLE BLADES

A-DWF-04", (102) are 20 gauge (1.0) galvanized steel @ 45°

BLADES AXLES & BEARINGS

BEARINGS- ½" (13) Bronze oil impregnated
AXLES- Plated shaft

LINKAGE

Mounted on blades at center point of width dimension

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION

60" w x 96" H (1524 x 2438) (allows for best handling)

MULLIONS

Visible

MINIMUM SIZE

12" W x 12" H (305 x 305)

UNDERSIZED

3/8" (10) under ordered size unless specified Exact or Actual

SCREEN

½" (13) wire mesh 19 gauge (1.1) galvanized bird screen in frame on face

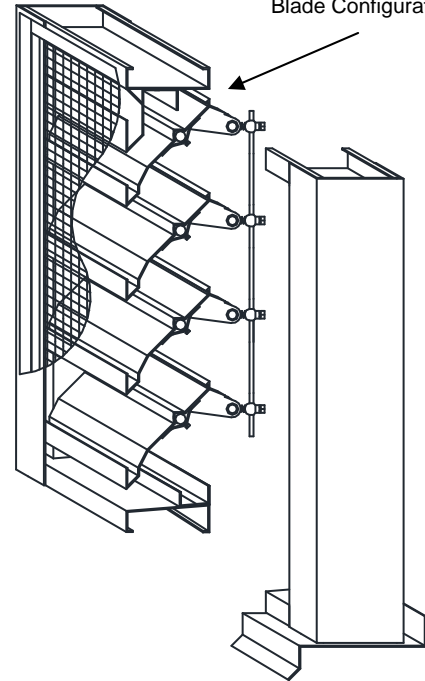
FINISH

Mill

OPERATOR

Wingnut adjustment

Separation drawn in a true 90° Blade Configuration



OPTIONAL CONSTRUCTION

FRAME – Available in a heavier construction up to 10 gauge

BLADES - Available in a heavier construction up to 16 gauge

SPECIFIED MATERIAL – Aluminum, Stainless or as requested

SCREENS - Many styles available please consult screen listing

LINKAGE – Concealed in jamb

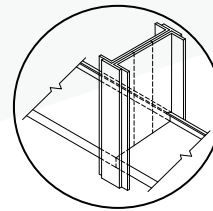
FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy or enamel. Kynar (Kynar limitations on steel.)

OPERATOR - Manual, electric or pneumatic

BLADE & JAMB SEALS – Neoprene blade edge and/or flexible metal jamb seals

(Note: With seals daylight shall still be visible between blades and on the sides.)

MULLION STYLE



Visible

PERFORMANCE
Point of water penetration 822 fpm (251)
Free area 48 x 48 section 51%

SPECIAL PURPOSE CONSTRUCTION.

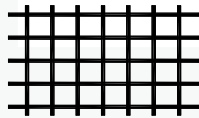
Security bars

Filter racks

Hinged as walk through door or for swing out access

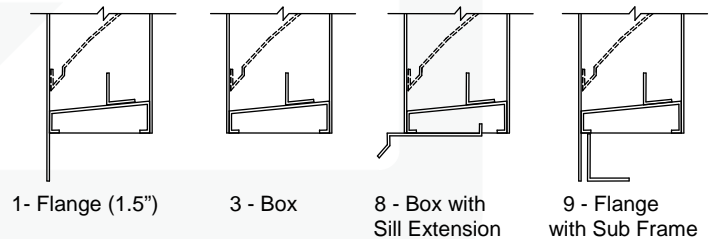
Sleeved for ductwork connection

TYPICAL SCREEN STYLE



Wire Mesh - Standard

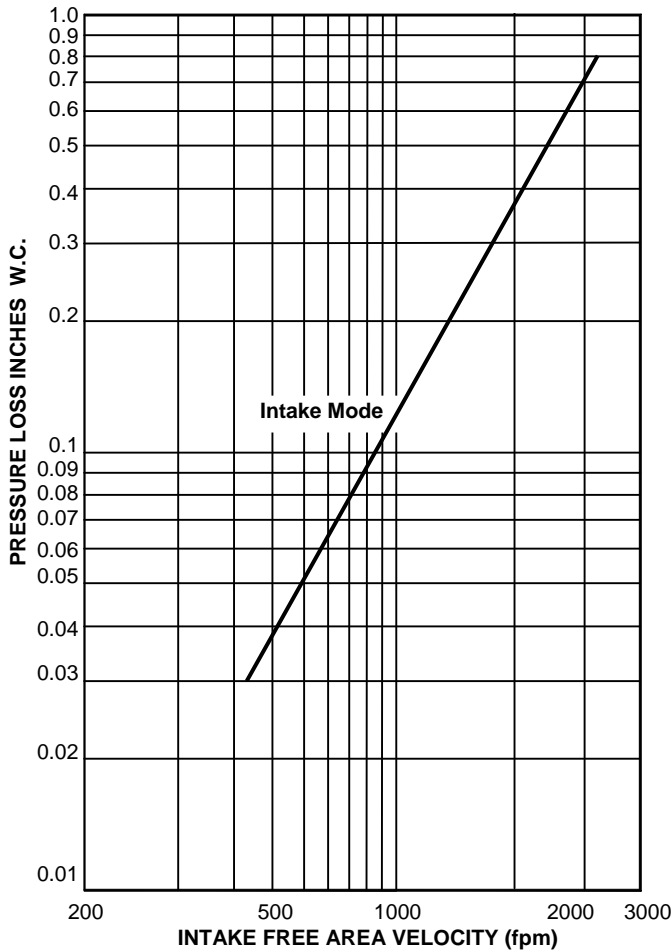
FRAME STYLES



DATE	ARCHITECT			ENGINEER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

All free area calculations made in accordance with AMCA standards.

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 louver. 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, 822 fpm for A-DWF-04, 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 determine the free area (in sq. ft.) based on upon a known volumetric flow rate in CFM;

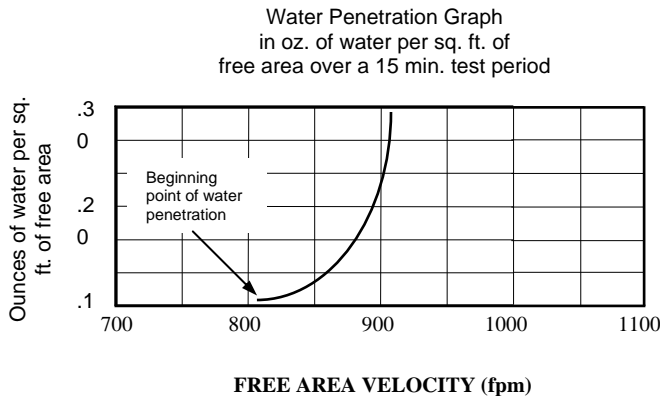
_____ CFM / _____ FPM = _____ SQ. FT. FREE AREA
 (System Requirements)

FREE AREA CALCULATIONS IN SQ. FT.

WIDTH

INCHES	12	18	24	30	36	42	48	54	60
12-04	.30	.47	.64	.81	1.00	1.17	1.34	1.66	1.68
-06	.30	.47	.64	.81	.99	1.16	1.33	1.50	1.67
18-04	.58	.91	1.24	1.58	1.90	2.23	2.57	2.90	3.23
-06	.56	.88	1.20	1.52	1.84	2.17	2.49	2.80	3.13
24-04	.77	1.21	1.65	2.10	2.54	2.99	3.42	3.87	4.31
-06	.82	1.29	1.76	2.23	2.70	3.18	3.64	4.12	4.59
30-04	1.07	1.69	2.30	2.92	3.54	4.15	4.77	5.39	6.00
-06	1.08	1.70	2.32	2.94	3.57	4.19	4.80	5.42	6.04
36-04	1.35	2.13	2.90	3.67	4.45	5.22	6.00	6.77	7.55
-06	1.34	2.11	2.88	3.65	4.42	5.20	5.97	6.73	7.50
42-04	1.55	2.43	3.31	4.20	5.08	5.97	6.85	7.74	8.62
-06	1.60	2.53	3.44	4.37	5.28	6.20	7.12	8.04	8.96
48-04	1.84	2.91	3.97	5.02	6.08	7.14	8.20	9.25	10.31
-06	1.86	2.94	4.00	5.07	6.14	7.21	8.28	9.35	10.42
54-04	2.13	3.34	4.56	5.78	7.00	8.20	9.42	10.64	11.86
-06	2.13	3.35	4.57	5.79	7.00	8.22	9.44	10.66	11.88
60-04	2.32	3.64	4.98	6.30	7.62	8.96	10.28	11.61	12.94
-06	2.39	3.76	5.13	6.49	7.86	9.23	10.60	11.97	13.34
66-04	2.62	4.12	5.62	7.12	8.62	10.13	11.62	13.13	14.62
-06	2.68	4.21	5.75	7.28	8.81	10.35	11.88	13.41	14.95
72-04	2.90	4.56	6.21	7.88	9.54	11.20	12.85	14.52	16.18
-06	2.98	4.68	6.39	8.09	9.80	11.50	13.20	14.90	16.60
78-04	3.09	4.86	6.63	8.40	10.18	11.94	13.71	15.48	17.25
-06	3.27	5.15	7.02	8.90	10.78	12.64	14.52	16.40	18.27
84-04	3.40	5.34	7.28	9.22	11.17	13.11	15.05	17.00	18.94
-06	3.58	5.61	7.66	9.71	11.75	13.80	15.84	17.88	19.93
90-04	3.67	5.78	7.88	9.98	12.08	14.19	16.28	18.39	20.49
-06	3.87	6.09	8.30	10.52	12.73	14.95	17.16	19.38	21.59
96-04	3.87	6.08	8.29	10.50	12.72	14.93	17.14	19.36	21.57
-06	4.14	6.50	8.87	11.23	13.60	15.97	18.33	20.70	23.06

HEIGHT



	.01	.02	.05	.1	.2	.3 (H2O)
A-DWF-04	822	842	868	887	907	918 (fpm)