

MODEL WDV-130B 5" DEEP VERTICAL BLADE WIND DRIVEN RAIN / HURRICANE LOUVER

STANDARD CONSTRUCTION:

FRAME:

.081 Extruded Aluminum 5.1" (130mm) Deep

BLADES:

.063" (1.6mm) Extruded Aluminum on approximately 1.50" (38mm) centers.

BIRDSCREEN:

0.50" x 0.050" [19.05mm x 1.30mm] Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

FINISH:

Mill Aluminum (Std)

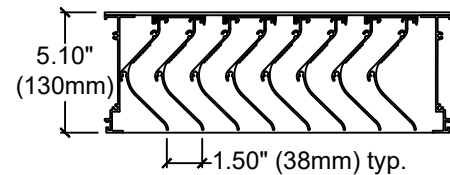
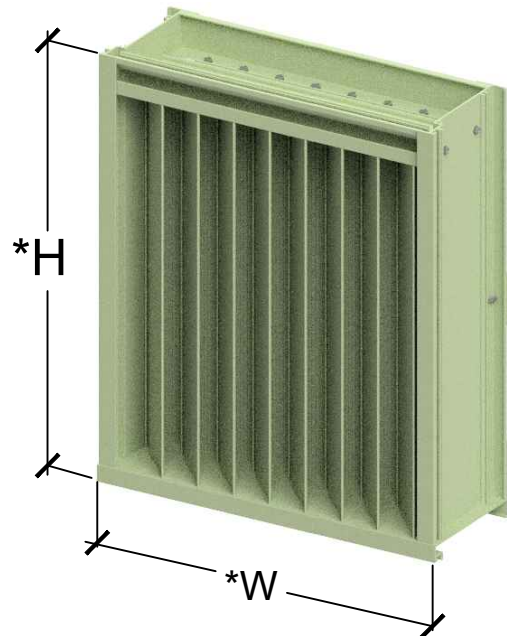
MINIMUM SIZE:

12"w x 12"h (305mm x 305mm)

MAXIMUM SIZE:

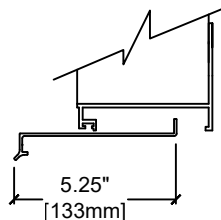
Factory Assembled 72"w x 120"h
(1830mm x 3048mm)

Multi-section: Unlimited Width x 120"h (3048mm)



OPTIONS:

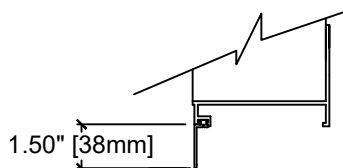
- ☐ Flanged Frame (1.50" std. [38mm])
- ☐ Custom Flange (1", 2" , or 3" [25mm, 51mm, or 76mm])
- ☐ Extended Sill
- ☐ Insect Screen (Other Screens Available, See Screen Page)
- ☐ Filter Racks (no screen)
- ☐ Security Bars



OPTIONAL EXTENDED SILL

AVAILABLE FINISHES:

- ☐ Durable Polyester (AAMA 2604)
- ☐ 70% PVDF Fluoropolymer (AAMA 2605)
- ☐ Yellow Primer
- ☐ Clear Anodize
- ☐ Dark Bronze Anodize



OPTIONAL FLANGE



*Width and Height dimensions are approximately 1/4" (6mm) under listed size.



3005 South Hickory Street
Chattanooga, Tennessee 37407
Tel: (423) 698-7715
Fax: (423) 698-6629
www.unitedenertech.com

MODEL WDV-130B (5" Deep Vertical Extreme Weather Louver)

Due to continuing research, United Enertech reserves the right to change specifications without notice.

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
CLJ	September 2021				A-23c

WDV-130B Specifications

Furnish and install louver as hereinafter specified where shown on plans or as described in schedules. Louver shall be stationary type with vertical rain resistant style blades positioned on approximately 1.50" centers within 5.1" deep frame. Louver frame material to be .081" thick 6063-T5 extruded aluminum, and blade materials to be .063" thick 6063-T5 extruded aluminum. Louver shall have a design wind load of +/-150 psf. Louver shall have a minimum free area of 7.67 sq. ft. based on the standard 48"w x 48"h test specimen. Louver shall have a maximum static pressure drop of 0.15" (exhaust) & 0.18" (intake) water gage based on 1000 FPM free area intake velocity. Louver shall carry Class A water penetration classifications based on a ventilation air core velocity of 984 FPM at a rainfall rate of 3" per hour and a 29 mph simulated wind velocity and ventilation air core velocity of 984 FPM at a rainfall rate of 8" per hour and a 50 mph simulated wind velocity.

Performance Data

Test size 1m x 1m(39"x39")core
41"w x 45"h Nominal (1.04m x 1.143m)

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	2	2
50	2	2

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)

75 mm/h (3in/h) Rainfall & 13 m/s (29 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
5.00 (984)	100	A

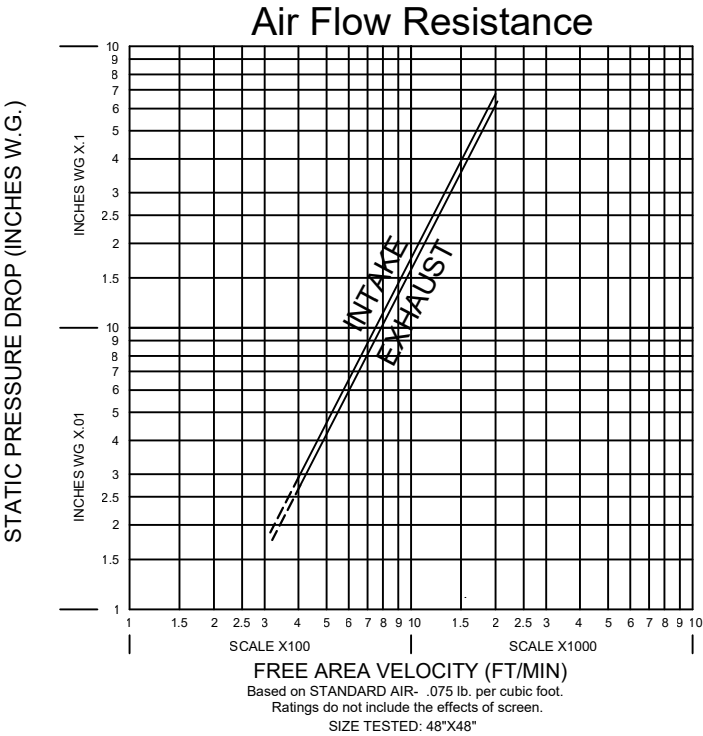
*AMCA Classes for maximum allowable water penetrations

200 mm/h (8in/h) Rainfall & 32 m/s (50 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
4.02 (792)	100	A
4.51 (888)	99.8	A
5.00 (984)	99.6	A

*AMCA Classes for maximum allowable water penetrations

Louver Height Inches	WDV-130B FREE AREA IN SQ. FT.											Louver Height Inches
	Width - Inches											
	12	18	24	30	36	42	48	54	60	66	72	
12	0.30	0.55	0.76	0.96	1.17	1.38	1.59	1.80	2.01	2.21	2.42	12
18	0.59	0.95	1.32	1.68	2.05	2.41	2.77	3.14	3.50	3.86	4.23	18
24	0.75	1.21	1.68	2.14	2.60	3.06	3.52	3.99	4.45	4.91	5.37	24
30	0.99	1.61	2.22	2.83	3.44	4.06	4.67	5.28	5.89	6.51	7.12	30
36	1.22	1.97	2.73	3.48	4.23	4.98	5.73	6.49	7.24	7.99	8.74	36
42	1.47	2.38	3.29	4.20	5.10	6.01	6.92	7.83	8.73	9.64	10.55	42
48	1.63	2.64	3.65	4.65	5.66	6.66	7.67	8.68	9.68	10.69	11.69	48
54	1.94	3.13	4.32	5.51	6.71	7.90	9.09	10.28	11.48	12.67	13.86	54
60	2.16	3.50	4.83	6.16	7.49	8.83	10.16	11.49	12.82	14.15	15.49	60
66	2.42	3.90	5.39	6.88	8.37	9.85	11.34	12.83	14.32	15.80	17.29	66
72	2.64	4.26	5.88	7.50	9.12	10.75	12.37	13.99	15.61	17.23	18.86	72
78	2.88	4.65	6.42	8.20	9.97	11.74	13.51	15.29	17.06	18.83	20.60	78
84	3.11	5.02	6.93	8.84	10.76	12.67	14.58	16.49	18.40	20.32	22.23	84
90	3.36	5.43	7.49	9.56	11.63	13.70	15.76	17.83	19.90	21.97	24.03	90
96	3.58	5.78	7.98	10.18	12.39	14.59	16.79	18.99	21.20	23.40	25.60	96
102	3.82	6.17	8.53	10.88	13.23	15.58	17.94	20.29	22.64	24.99	27.35	102
108	4.05	6.54	9.03	11.53	14.02	16.51	19.00	21.49	23.99	26.48	28.97	108
114	4.30	6.95	9.60	12.24	14.89	17.54	20.19	22.83	25.48	28.13	30.78	114
120	4.52	7.30	10.09	12.87	15.65	18.43	21.21	24.00	26.78	29.56	32.34	120

The Beginning point of WATER PENETRATION
lies above
1250 FPM
free area velocity at .01 oz. of water penetration



United Enertech Corp. certifies that the louver WDV-130B shown herein is licensed to bear the AMCA Seal. The ratings shown are base on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA certified rating seal applies to air performance and wind driven rain.