



*MODEL WDRV-6*  
*WIND-DRIVEN RAIN RESISTANT LOUVER*  
*VERTICAL SIGHTPROOF EXTRUDED BLADE*



**Standard Construction:**

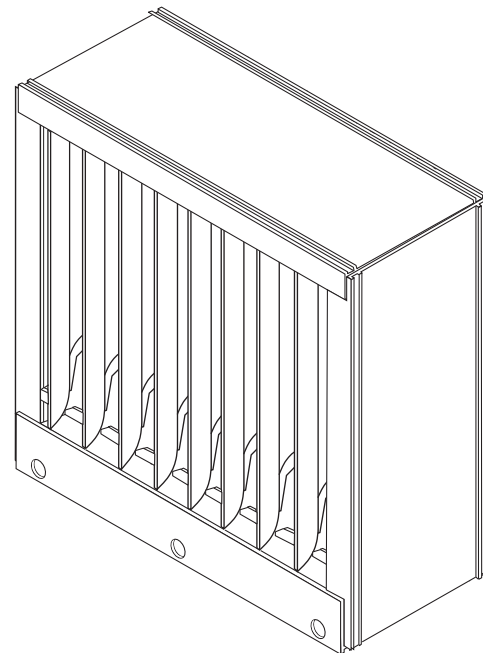
**Frame:** 6 x .100" 6063-T5 Extruded Aluminum  
**Blades:** Vertical sightproof .090 6063-T5 Extruded Aluminum  
**Screen:** Bird screen - 3/4" x .050 (19 mm x 12.7 mm)  
flattened expanded aluminum in a removable  
frame.  
**Finish:** Mill aluminum.

**Options:**

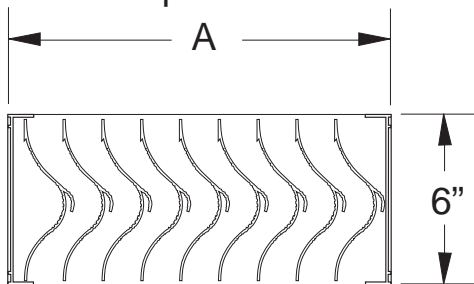
**Screens:** Insect screen - 18 x 16 mesh aluminum  
1/2" x .063 (12.7 mm x 1.6 mm) aluminum  
**Finish:** Prime Coat  
Baked Enamel  
Kynar 500 Enamel  
Clear Anodize - 204-R1 and 215-R1  
Integral Color Anodize

**Sill Extensions:**

**Flange Frame:** Front or Rear  
Minimum Size: 8"w x 12"h  
Maximum Size: 96"w X 96"h



Top View



Intake

**Specifications**

Furnish and install where shown model WDRV-6 louver, manufactured by NCA Manufacturing. Louvers shall be the AMCA Licensed for Wind Driven Rain at 29.1 and 50 mph, Class A 1. Frames shall be .100 inches thick 6063-T5 extruded aluminum alloy. Blades shall be sight proof and .090 inches thick 6063-T5 aluminum alloy. Screens shall consist of 3/4" expanded aluminum, with an extruded frame, mounted to the louver interior, and be removable for cleaning. Louvers shall be finished with Polyurethane Acrylic Enamel, Kynar 500, powder Coat, Anodized or other finishes selected by the architect from NCA standard color charts.

Specifications are correct at time of printing. However, as part of our 'continuous improvement program,' we reserve the right to make further improvements without notice.

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Project:  
Location:  
Architect:  
Engineer:

Contractor:  
Address:  
P.O. Number:  
Date:



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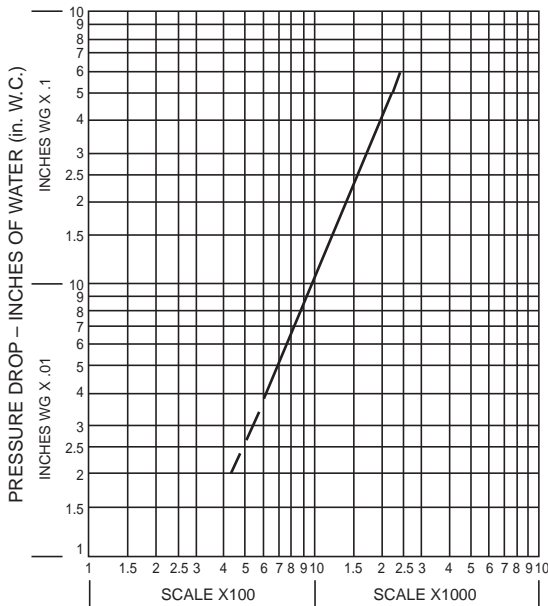
## PERFORMANCE DATA

### WDRV-6 FREE AREA in SQ. FT.

#### Width- Inches

Height - Inches	Width- Inches														
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.34	0.57	0.80	1.03	1.26	1.49	1.72	1.95	2.18	2.40	2.63	2.86	3.09	3.32	3.55
18	0.57	0.95	1.34	1.72	2.10	2.48	2.86	3.24	3.63	4.01	4.39	4.77	5.15	5.53	5.91
24	0.80	1.34	1.87	2.40	2.94	3.47	4.01	4.54	5.08	5.61	6.14	6.68	7.21	7.75	8.28
30	1.03	1.72	2.40	3.09	3.78	4.46	5.15	5.84	6.53	7.21	7.90	8.59	9.27	9.96	10.65
36	1.26	2.10	2.94	3.78	4.62	5.46	6.30	7.14	7.98	8.81	9.65	10.49	11.33	12.17	13.01
42	1.49	2.48	3.47	4.46	5.46	6.45	7.44	8.43	9.43	10.42	11.41	12.40	13.39	14.39	15.38
48	1.72	2.86	4.01	5.15	6.30	7.44	8.59	9.73	10.88	12.02	13.16	14.31	15.45	16.60	17.74
54	1.95	3.24	4.54	5.84	7.14	8.43	9.73	11.03	12.33	13.62	14.92	16.22	17.51	18.81	20.11
60	2.18	3.63	5.08	6.53	7.98	9.43	10.88	12.33	13.78	15.23	16.68	18.13	19.58	21.03	22.48
66	2.40	4.01	5.61	7.21	8.81	10.42	12.02	13.62	15.23	16.83	18.43	20.03	21.64	23.24	24.84
72	2.63	4.39	6.14	7.90	9.65	11.41	13.16	14.92	16.68	18.43	20.19	21.94	23.70	25.45	27.21
78	2.86	4.77	6.68	8.59	10.49	12.40	14.31	16.22	18.13	20.03	21.94	23.85	25.76	27.66	29.57
84	3.09	5.15	7.21	9.27	11.33	13.39	15.45	17.51	19.58	21.64	23.70	25.76	27.82	29.88	31.94
90	3.32	5.53	7.75	9.96	12.17	14.39	16.60	18.81	21.03	23.24	25.45	27.66	29.88	32.09	34.30
96	3.55	5.91	8.28	10.65	13.01	15.38	17.74	20.11	22.48	24.84	27.21	29.57	31.94	34.30	36.67

WDRV-6 - 02-05



VELOCITY THROUGH FREE AREA  
INTAKE PRESSURE DROP

Performance shown is at standard air density, 0.075 lbs./ft.

### Water Penetration

Water Penetration Data (15 minute duration) applies to test unit 48" x 48" only. The ratings do not include the effects of birdscreen.

Beginning of Water Penetration is above 1250 FPM Free Area Velocity.

29.1 mph Wind Driven Rain Test are per AMCA Standard 500-L. Figure 5.11 Setup. Performance Based Test louver 41-3/8" x 40-3/8", 1m x 1m Core Size.

Velocity Through Cal. Plate (fpm)	Core Velocity Through Louver (fpm)	Specified Flow (gal/hr)	Nominal Supply Flow (gal/hr)	Corrected Penetrated Water Flow (gal/hr)	Water Penetration Effectiveness (%)	Water Penetration Classification
484	489	20.135	41.209	0.0000	100.0	A
587	573	20.135	39.266	0.0150	99.9	A
672	697	20.135	39.170	0.1462	99.3	A

50 mph Wind Driven Rain Test are per AMCA Standard 500-L. Figure 5.11 Setup. Performance Based Test louver size 41-3/8" x 40-3/8", 1m x 1m Core Size.

Velocity Through Cal. Plate (fpm)	Core Velocity Through Louver (fpm)	Specified Flow (gal/hr)	Nominal Supply Flow (gal/hr)	Corrected Penetrated Water Flow (gal/hr)	Water Penetration Effectiveness (%)	Water Penetration Classification
274	297	53.693	133.366	0.0157	100.0	A
386	408	53.693	124.709	0.0678	99.9	A
473	474	53.693	122.530	0.1021	99.8	A
570	581	53.693	118.545	0.1726	99.7	A
694	688	53.693	111.888	0.2587	99.5	A

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

The Discharge Loss Coefficient is Class 1. The Discharge Loss Coefficient is calculated per AMCA 511, Appendix C5 using Actual Flow divided by the Theoretical Flow.



NCA Manufacturing, Inc. certifies that the Model WDRV-6 louver shown herein is licensed to bear the AMCA seal. The ratings shown are based 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 Seal applies to Water Penetration, Air Performance, and Wind Driven Rain.