

CARNES COMPANY 448 S. Main St., P. O. Box 930040, Verona, WI 53593-0040 Phone: (608)845-6411 Fax: (608)845-6504 www.carnes.com

### Standard Specifications

- Frame:** .081 extruded aluminum, 4.19" deep
- Blades:** .090 formed aluminum positioned on a 30° angle on approximately 3" centers
- Birdscreen:** .75" x .051" flattened aluminum in removable frame. Screen is mounted on inside (rear) as looking from exterior of building.
- Finish:** mill aluminum (standard)
- Minimum Size:** 12"w x 16"h
- Maximum Size:** 60"w x 120"h sections

### Options:

- Flanged Frame (1.50" std.)
- Custom Flange (1", 2" or 3")
- Extended Sill
- Glazing Adapter
- Insect Screen (Other Screens Available)
- Filter Racks (No Screen)
- Security Bars
- Welded Construction (Wind Load +/- 50 psf)
- Blank-off, Alum., Non-Insulated, No Screen, Non-Removeable
- Blank-off, Alum., Non-Insulated, w/Birdscreen or Insect Screen
- Blank-off, Alum., Insulated Double Wall, w/Birdscreen, Removable
- Blank-off, Alum., Insulated Double Wall, No Screen, Non-Removeable

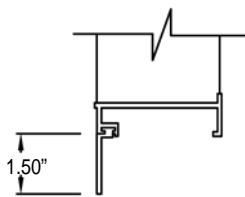
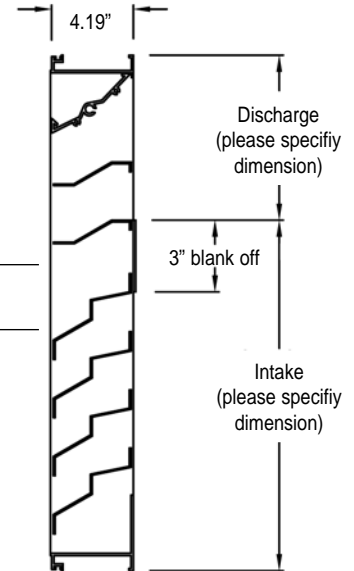
### Available Finishes:

- Baked Enamel
- Kynar
- Clear Anodize
- Dark Bronze Anodize

**Please specify  
Discharge and Intake  
height dimensions.**

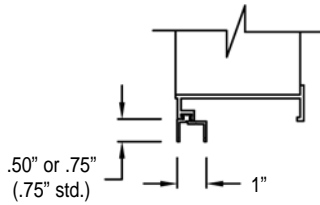
**Discharge dimensions:**

**Intake dimensions:**

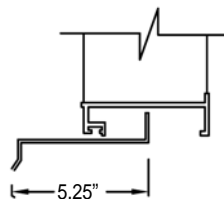


Optional Flanged

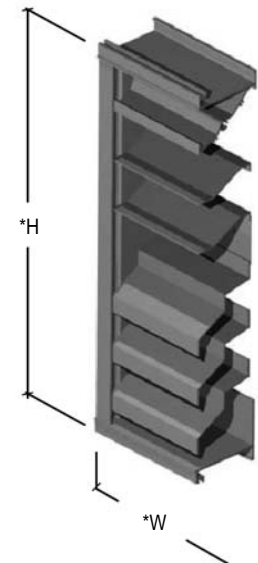
(except R\_Shapes, 1" optional std.)



Optional  
Glazing Adapter



Optional  
Extended Sill



\*Width and height dimensions are approximately 1/4" under listed size.

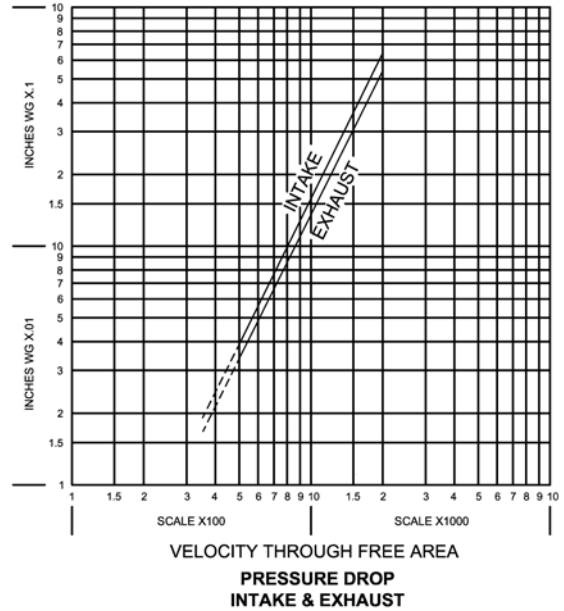
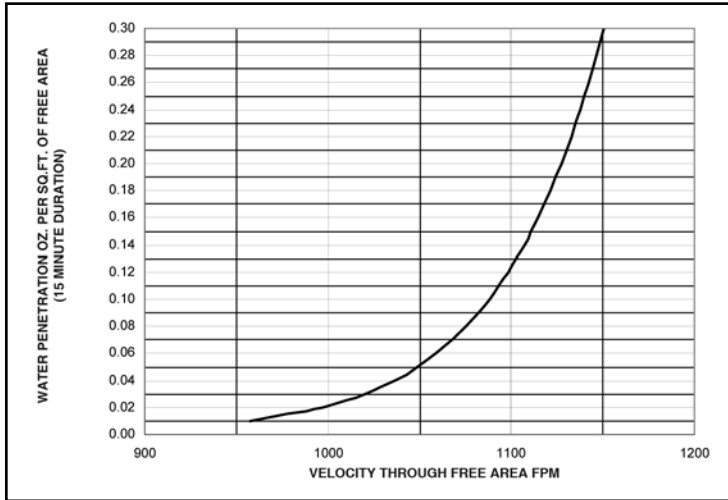
Due to continuing research, Carnes reserves the right to change specifications without notice.

Tag	Qty.	Size		Frame	Variations
		Width	Height		

**Project  
Arch./Engr.  
Representative**

**Location  
Contractor  
Date**

# Carnes Intake/Discharge Louver



INTAKE FREE AREA IN SQ.FT.

Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.18	0.30	0.41	0.52	0.63	0.75	0.86	0.97	1.08	1.20	1.31	1.42	1.53	1.65	1.76	1.87	1.98	2.10	2.21	12
18	0.41	0.66	0.91	1.16	1.41	1.66	1.91	2.16	2.41	2.67	2.92	3.17	3.42	3.67	3.92	4.17	4.42	4.67	4.92	18
24	0.63	1.02	1.41	1.80	2.19	2.58	2.97	3.36	3.75	4.13	4.52	4.91	5.30	5.69	6.08	6.47	6.86	7.25	7.64	24
30	0.86	1.38	1.91	2.44	2.97	3.49	4.02	4.55	5.08	5.60	6.13	6.66	7.19	7.71	8.24	8.77	9.30	9.82	10.35	30
36	1.08	1.75	2.41	3.08	3.75	4.41	5.08	5.74	6.41	7.07	7.74	8.41	9.07	9.74	10.40	11.07	11.74	12.40	13.07	36
42	1.31	2.11	2.92	3.72	4.52	5.33	6.13	6.94	7.74	8.54	9.35	10.15	10.96	11.76	12.57	13.37	14.17	14.98	15.78	42
48	1.53	2.47	3.42	4.36	5.30	6.24	7.19	8.13	9.07	10.01	10.96	11.90	12.84	13.78	14.73	15.67	16.61	17.55	18.50	48
54	1.76	2.84	3.92	5.00	6.08	7.16	8.24	9.32	10.40	11.48	12.56	13.65	14.73	15.81	16.89	17.97	19.05	20.13	21.21	54
60	1.98	3.20	4.42	5.64	6.86	8.08	9.30	10.52	11.73	12.95	14.17	15.39	16.61	17.83	19.05	20.27	21.49	22.71	23.93	60
66	2.21	3.56	4.92	6.28	7.64	8.99	10.35	11.71	13.07	14.42	15.78	17.14	18.50	19.85	21.21	22.57	23.93	25.28	26.64	66
72	2.43	3.93	5.42	6.92	8.41	9.91	11.41	12.90	14.40	15.89	17.39	18.88	20.38	21.88	23.37	24.87	26.36	27.86	29.36	72
78	2.66	4.29	5.92	7.56	9.19	10.83	12.46	14.09	15.73	17.36	19.00	20.63	22.27	23.90	25.53	27.17	28.80	30.44	32.07	78
84	2.88	4.65	6.43	8.20	9.97	11.74	13.52	15.29	17.06	18.83	20.61	22.38	24.15	25.92	27.70	29.47	31.24	33.01	34.79	84
90	3.11	5.02	6.93	8.84	10.75	12.66	14.57	16.48	18.39	20.30	22.21	24.12	26.04	27.95	29.86	31.77	33.68	35.59	37.50	90
96	3.33	5.38	7.43	9.48	11.53	13.58	15.62	17.67	19.72	21.77	23.82	25.87	27.92	29.97	32.02	34.07	36.12	38.17	40.21	96
102	3.55	5.74	7.93	10.12	12.30	14.49	16.68	18.87	21.05	23.24	25.43	27.62	29.80	31.99	34.18	36.37	38.55	40.74	42.93	102
108	3.78	6.11	8.43	10.76	13.08	15.41	17.73	20.06	22.39	24.71	27.04	29.36	31.69	34.02	36.34	38.67	40.99	43.32	45.64	108
114	4.00	6.47	8.93	11.40	13.86	16.33	18.79	21.25	23.72	26.18	28.65	31.11	33.57	36.04	38.50	40.97	43.43	45.90	48.36	114
120	4.23	6.83	9.43	12.04	14.64	17.24	19.84	22.45	25.05	27.65	30.25	32.86	35.46	38.06	40.66	43.27	45.87	48.47	51.07	120

EXHAUST FREE AREA IN SQ.FT.

Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.53	0.86	1.19	1.51	1.84	2.17	2.49	2.82	3.15	3.48	3.80	4.13	4.46	4.78	5.11	5.44	5.76	6.09	6.42	12
18	0.87	1.41	1.94	2.48	3.01	3.55	4.08	4.62	5.15	5.69	6.22	6.76	7.30	7.83	8.37	8.90	9.44	9.97	10.51	18
24	1.21	1.95	2.70	3.44	4.18	4.93	5.67	6.41	7.16	7.90	8.65	9.39	10.13	10.88	11.62	12.36	13.11	13.85	14.60	24
30	1.55	2.50	3.45	4.40	5.36	6.31	7.26	8.21	9.16	10.12	11.07	12.02	12.97	13.92	14.88	15.83	16.78	17.73	18.68	30
36	1.89	3.05	4.21	5.37	6.53	7.69	8.85	10.01	11.17	12.33	13.49	14.65	15.81	16.97	18.13	19.29	20.45	21.61	22.77	36
42	2.22	3.59	4.96	6.33	7.70	9.07	10.44	11.81	13.17	14.54	15.91	17.28	18.65	20.02	21.39	22.76	24.12	25.49	26.86	42
48	2.56	4.14	5.72	7.29	8.87	10.45	12.03	13.60	15.18	16.76	18.33	19.91	21.49	23.06	24.64	26.22	27.80	29.37	30.95	48
54	2.90	4.69	6.47	8.26	10.04	11.83	13.61	15.40	17.18	18.97	20.76	22.54	24.33	26.11	27.90	29.68	31.47	33.25	35.04	54
60	3.24	5.23	7.23	9.22	11.21	13.21	15.20	17.20	19.19	21.18	23.18	25.17	27.16	29.16	31.15	33.15	35.14	37.13	39.13	60
66	3.58	5.78	7.98	10.18	12.39	14.59	16.79	18.99	21.20	23.40	25.60	27.80	30.00	32.21	34.41	36.61	38.81	41.01	43.22	66
72	3.92	6.33	8.74	11.15	13.56	15.97	18.38	20.79	23.20	25.61	28.02	30.43	32.84	35.25	37.66	40.07	42.48	44.89	47.30	72
78	4.26	6.87	9.49	12.11	14.73	17.35	19.97	22.59	25.21	27.82	30.44	33.06	35.68	38.30	40.92	43.54	46.16	48.77	51.39	78
84	4.59	7.42	10.25	13.08	15.90	18.73	21.56	24.38	27.21	30.04	32.86	35.69	38.52	41.35	44.17	47.00	49.83	52.65	55.48	84
90	4.93	7.97	11.00	14.04	17.07	20.11	23.15	26.18	29.22	32.25	35.29	38.32	41.36	44.39	47.43	50.46	53.50	56.53	59.57	90
96	5.27	8.51	11.76	15.00	18.25	21.49	24.73	27.98	31.22	34.46	37.71	40.95	44.20	47.44	50.68	53.93	57.17	60.41	63.66	96
102	5.61	9.06	12.51	15.97	19.42	22.87	26.32	29.77	33.23	36.68	40.13	43.58	47.03	50.49	53.94	57.39	60.84	64.30	67.75	102
108	5.95	9.61	13.27	16.93	20.59	24.25	27.91	31.57	35.23	38.89	42.55	46.21	49.87	53.53	57.19	60.85	64.51	68.18	71.84	108
114	6.29	10.16	14.02	17.89	21.76	25.63	29.50	33.37	37.24	41.11	44.97	48.84	52.71	56.58	60.45	64.32	68.19	72.06	75.92	114
120	6.63	10.70	14.78	18.86	22.93	27.01	31.09	35.16	39.24	43.32	47.40	51.47	55.55	59.63	63.70	67.78	71.86	75.94	80.01	120