

OL-4 Anodized Extruded Aluminum Outside Louvers



FREE PRESSURE AREA IN SQ. FT.

HEIGHT (INCHES)	WIDTH (INCHES)												
	12	14	16	18	20	24	30	36	42	48	54	60	72
12	.23	.30	.35	.40	.45	.55	.69	.84	.98	1.13	1.28	1.42	1.71
16	.39	.46	.54	.62	.69	.84	1.06	1.29	1.51	1.74	1.96	2.29	2.63
20	.50	.62	.73	.83	.93	1.13	1.43	1.74	2.04	2.34	2.64	2.94	3.55
24	.65	.79	.91	1.05	1.17	1.43	1.81	2.19	2.57	2.95	3.33	3.71	4.47
28	.79	.96	1.11	1.26	1.41	1.72	2.18	2.63	3.09	3.55	4.01	4.45	5.39
32	.93	1.12	1.30	1.47	1.65	2.01	2.35	3.08	3.62	4.16	4.69	5.23	6.30
36	1.07	1.28	1.48	1.69	1.89	2.30	2.92	3.53	4.15	4.76	5.38	5.99	7.22
40	1.21	1.44	1.67	1.90	2.14	2.59	3.29	3.98	4.67	5.37	6.06	6.75	8.14
44	1.35	1.60	1.86	2.12	2.38	2.89	3.66	4.43	5.20	5.97	6.74	7.52	9.06
48	1.48	1.77	2.05	2.33	2.62	3.18	4.03	4.88	5.73	6.58	7.43	8.28	9.97
52	1.64	1.93	2.24	2.55	2.86	3.48	4.40	5.33	6.26	7.18	8.11	9.04	10.89
56	1.77	2.11	2.43	2.76	3.09	3.77	4.77	5.78	6.78	7.79	8.80	9.80	11.81
60	1.90	2.27	2.62	2.98	3.34	4.06	5.14	6.23	7.31	8.40	9.48	10.56	12.73
64	2.04	2.43	2.81	3.19	3.58	4.36	5.52	6.68	7.84	9.32	10.16	11.32	13.65
68	2.19	2.59	2.99	3.41	3.82	4.65	5.89	7.13	8.37	9.61	10.85	12.09	14.56
72	2.31	2.76	3.18	3.62	4.06	4.98	6.26	7.58	8.89	10.21	11.53	12.85	15.48

VELOCITY/PRESSURE

Vel, FPM	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Exhaust	.005	.012	.019	.033	.046	.059	.083	.100	.125	.156	.181	.215	.250	.285
Intake	-.007	-.016	-.031	-.046	-.066	-.097	-.125	-.150	-.185	-.225	-.275	-.315	-.370	-.425

CFM = Velocity × Free Pressure Area.

NOTE:

For sizes not shown, the approximate free area in square feet can be calculated by using the formula below:

$$\text{Free Pressure Area} = \frac{\left(\frac{\text{Height} - 6}{2} \right) \times \left(\text{Width} - 1\frac{1}{2} \right)}{144}$$

SELECTION PROCEDURE

EXAMPLE

Exhaust requirement for 3000 CFM with pressure of .083 W.G.

Bottom chart shows 800 FPM velocity achieved at .083 W.G.

Effective pressure area is determined by dividing the CFM by the velocity

$$\frac{3000}{800} = 3.75 \text{ required square feet of free pressure area}$$

The chart thus shows the following sizes to be suitable, 18 x 72, 20 x 68, 24 x 56, etc.