

Air Flow Company, Inc.

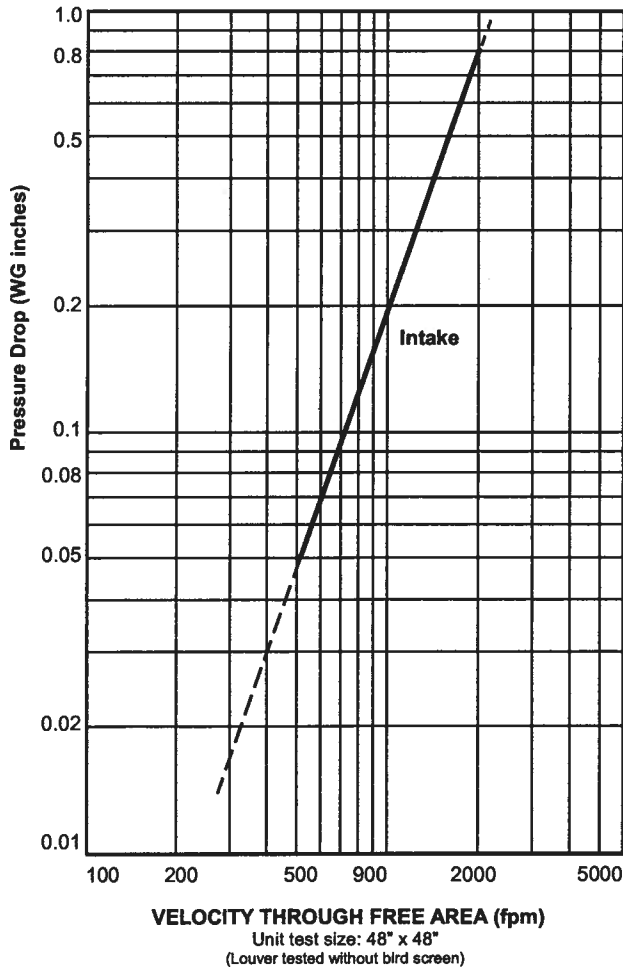
Model EA 401

- Free Area
- Air Performance
- Water Penetration

Free Area Calculations (sq. ft.)

		WIDTH (Inches)																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
HEIGHT (Inches)	12	0.33	0.52	0.72	0.91	1.11	1.30	1.49	1.69	1.88	2.08	2.27	2.47	2.66	2.86	3.05	3.24	3.44	3.63	3.83
	18	0.50	0.79	1.09	1.38	1.68	1.97	2.27	2.57	2.86	3.16	3.45	3.75	4.04	4.34	4.63	4.93	5.22	5.52	5.81
	24	0.74	1.17	1.61	2.05	2.49	2.93	3.37	3.80	4.24	4.68	5.12	5.56	6.00	6.43	6.87	7.31	7.75	8.19	8.63
	30	1.00	1.60	2.20	2.80	3.40	4.00	4.59	5.19	5.79	6.39	6.99	7.59	8.19	8.78	9.38	9.98	10.58	11.18	11.78
	36	1.17	1.87	2.57	3.27	3.97	4.67	5.37	6.07	6.77	7.47	8.17	8.87	9.57	10.27	10.97	11.67	12.37	13.07	13.76
	42	1.41	2.25	3.09	3.94	4.78	5.62	6.47	7.31	8.15	8.99	9.84	10.68	11.52	12.36	13.21	14.05	14.89	15.73	16.58
	48	1.68	2.68	3.68	4.68	5.69	6.69	7.69	8.70	9.70	10.70	11.70	12.71	13.71	14.71	15.72	16.72	17.72	18.72	19.73
	54	1.84	2.95	4.05	5.16	6.26	7.36	8.47	9.57	10.68	11.78	12.88	13.99	15.09	16.20	17.30	18.40	19.51	20.61	21.72
	60	2.08	3.33	4.58	5.82	7.07	8.32	9.56	10.81	12.06	13.31	14.55	15.80	17.05	18.29	19.54	20.79	22.03	23.28	24.53
	66	2.35	3.76	5.16	6.57	7.98	9.39	10.79	12.20	13.61	15.01	16.42	17.83	19.24	20.64	22.05	23.46	24.86	26.27	27.68
	72	2.52	4.03	5.53	7.04	8.55	10.06	11.57	13.08	14.58	16.09	17.60	19.11	20.62	22.12	23.63	25.14	26.65	28.16	29.67
	78	2.76	4.41	6.06	7.71	9.36	11.01	12.66	14.31	15.97	17.62	19.27	20.92	22.57	24.22	25.87	27.52	29.18	30.83	32.48
	84	3.02	4.84	6.65	8.46	10.27	12.08	13.89	15.70	17.51	19.33	21.14	22.95	24.76	26.57	28.38	30.19	32.01	33.82	35.63
	90	3.19	5.10	7.02	8.93	10.84	12.75	14.67	16.58	18.49	20.40	22.32	24.23	26.14	28.05	29.97	31.88	33.79	35.70	37.62
	96	3.43	5.49	7.54	9.60	11.65	13.71	15.76	17.82	19.87	21.93	23.98	26.04	28.10	30.15	32.21	34.26	36.32	38.37	40.43
	102	3.70	5.91	8.13	10.34	12.56	14.78	16.99	19.21	21.42	23.64	25.85	28.07	30.29	32.50	34.72	36.93	39.15	41.36	43.58
108	3.87	6.18	8.50	10.82	13.13	15.45	17.77	20.08	22.40	24.72	27.03	29.35	31.67	33.98	36.30	38.62	40.93	43.25	45.57	
114	4.10	6.56	9.02	11.48	13.94	16.40	18.86	21.32	23.78	26.24	28.70	31.16	33.62	36.08	38.54	41.00	43.46	45.92	48.38	
120	4.37	6.99	9.61	12.23	14.85	17.47	20.09	22.71	25.33	27.95	30.57	33.19	35.81	38.43	41.05	43.67	46.29	48.91	51.53	

Air Performance



Air Flow Company, Inc. certifies that the Model EA 401 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 Ratings Seal applies to air performance ratings and water penetration ratings.

- ◆ **To determine the pressure drop of a louver:**
Calculate the Velocity thru free area, divide the required CFM (volume of air) by the required free area above chart. The pressure drop is expressed in (inches w.g.)
- ◆ **To determine the minimum free area required for louver:**
Divide the required CFM (volume of air) by the free area velocity before water penetration, then select the most desirable louver size from the free area chart above.
- ◆ **To determine the maximum CFM (volume), knowing the louver size:**
Multiply the required free area (see above free area chart) by maximum velocity thru free area.

Water Penetration

Beginning of water penetration = 716 fpm
(15 minutes duration)

