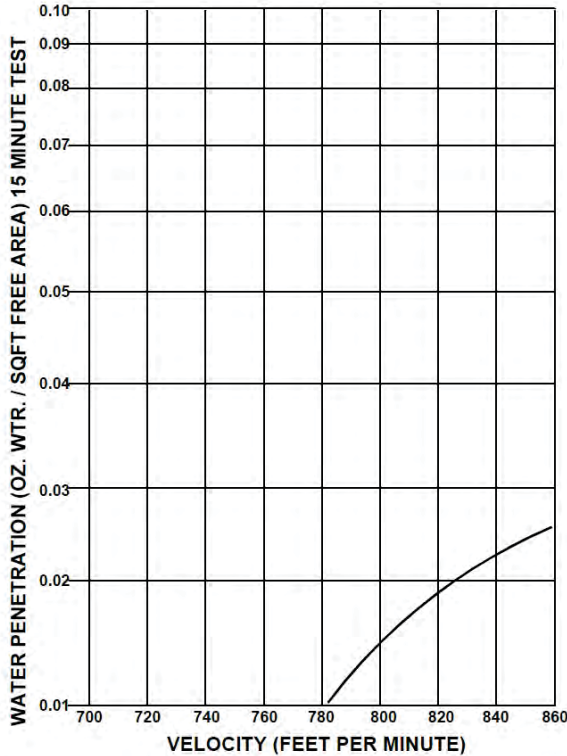




EXTRUDED ALUMINUM LOUVER

Test on a 48"x48' size louver

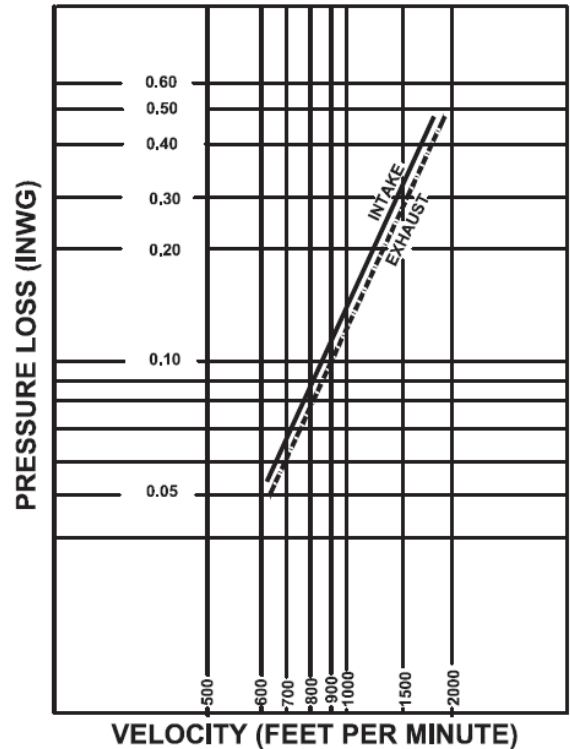
WATER PENETRATION TEST



The beginning point of water penetration is 1059 FPM @ 0.01 OZ/SQ.FT. of free area.

Performance testing in accordance with AMCA STD 500

**MODEL: 4-DL & 4-DLF
AIR RESISTANCE TEST**



Louver size determination

air flow volume	cfm /	free area velocity @ beginning point of water penetration	fpm =	Required Louver Free Area	ft ²
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Select louver size from Free Area Chart below, based on required louver free area above
Determine pressure drop from Pressure Drop Chart based on required louver free area above

FREE AREA IN SQ.FT.

		WIDTH							
		12"	18"	24"	30"	36"	42"	48"	54"
HEIGHT	12"	0.29	0.57	0.77	0.95	1.10	1.29	1.45	1.62
	24"	0.66	1.22	1.68	2.14	2.60	3.08	3.52	3.98
	30"	0.87	1.58	2.17	2.75	3.35	3.94	4.53	5.12
	36"	1.11	1.93	2.65	3.37	4.09	4.82	5.54	6.26
	42"	1.30	2.28	3.13	3.98	4.84	5.69	6.55	7.40
	48"	1.45	2.74	3.77	4.80	5.83	6.85	7.89	8.91
	54"	1.69	3.09	4.25	5.41	6.57	7.73	8.90	10.05
	60"	1.82	3.49	4.80	6.10	7.41	8.72	10.03	11.34
	66"	2.08	3.84	5.28	6.72	8.16	9.60	11.04	12.48
	72"	2.31	4.19	5.76	7.33	8.91	10.48	12.05	13.62
78"	2.39	4.54	6.24	7.95	9.65	11.35	13.05	14.76	
84"	2.63	4.89	6.73	8.58	10.40	12.23	14.07	15.90	
90"	2.70	5.40	7.43	9.45	11.48	13.50	15.53	17.55	



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EXTRUDED ALUMINUM LOUVER

MODEL: 4-DL 33° & 4-DLF 33°

Water Penetration: 0.01oz (3.0g) at 1001 fpm recommended free area velocity.

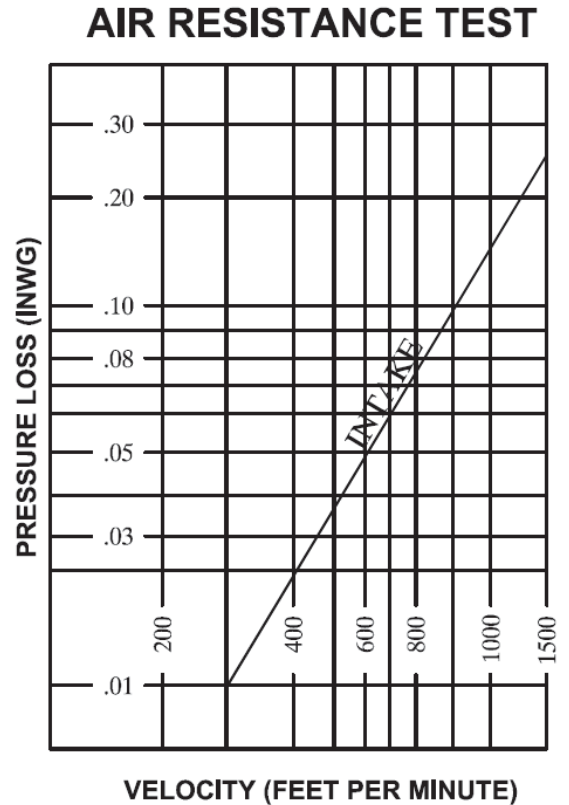
Pressure Drop: 0.125 in.wg. at 1001 fpm and 8668 SCFM

Free Area: 8.66 sq.ft. = 54% for 48"x48" test size

Velocity Through Free Area FPM standard air: 0.075 lbs per cu. ft.
Ratings do not include bird screen effect.

Below is an explanation of how to use the Data for the recommended Free Area Velocity of 1001 fpm.

Louver size determination		
cfm /	fpm =	ft ²
air flow volume	free area velocity @ beginning point of water penetration	Required Louver Free Area
Select louver size from Free Area Chart below, based on required louver free area above		
Determine pressure drop from Pressure Drop Chart based on required louver free area above		



FREE AREA IN SQ.FT.

WIDTH

HEIGHT	FREE AREA IN SQ.FT.								
	INCHES	12	24	36	48	60	72	84	96
12		0.26	0.63	1.1	1.38	1.75	2.08	2.45	2.83
24		0.7	1.73	2.75	3.77	4.79	5.69	6.71	7.74
36		1.16	2.85	4.55	6.24	7.93	9.41	11.1	12.79
48		1.61	3.96	6.31	8.66	11.02	13.06	15.41	17.76
60		2.08	5.05	8.05	11.04	14.03	16.65	19.65	22.64
72		2.51	6.16	9.81	13.46	17.11	20.3	23.95	27.6
84		2.96	7.26	11.56	15.86	20.17	23.93	28.23	32.53
96		3.41	8.36	13.32	18.27	23.23	27.56	32.52	37.48

