

AIR THERM INC.

www.air-therm.com

TEL: (514) 482-2067

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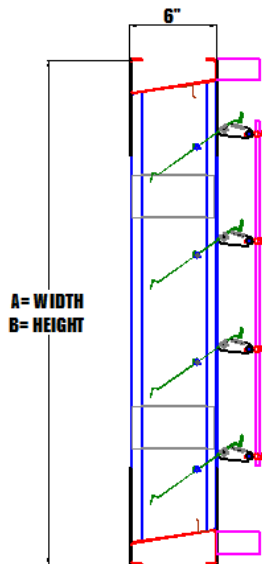


AIR-THERM GRAVITEC THERMODYNAMIC NATURAL VENTILATION SPECIFICATION FOR WALL LOUVER TYPE AWL-STEEL



GALVANIZED STEEL, 6" DEEP, 35° ADJUSTABLE ADJUSTABLE LOUVERS

INFORMATION



- FRAME: 6" DEEP CHANEL, 16 GA GALVANIZED STEEL
- BLADES: 20 GA GALVANIZED STEEL
- SCREEN: (OPTIONAL) LOCATED ON EXTERIOR
- AXLES: 1/2" DIAMETER ALUMINIUM
- BEARINGS: DELRIN BUSHING
- LINKAGE: PLATED STEEL HIGH BRACKET, 5/16" DIA.
PLATED STEEL LINKAGE ROD
- DRIVING: ACTUATOR (MECHANICAL) OR CHAIN
(MANUAL)
- MAXIMUM PANEL SIZE: 96" (HEIGHT) x 60" (WIDTH)
MINIMUM PANEL SIZE: 12" x 12"
- DIMENSIONS "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING
SIZE. LOUVERS ARE MADE 1/4" UNDERSIZE.
- INDUSTRIAL QUALITY HARDWARE

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INFORMATION

HEIGHT IN INCHES	SEALS	WIDTH IN INCHES				
		12"	24"	36"	48"	60"
12"	NONE	82	122	162	202	242
	BLADE & JAMB	27	40	55	72	—
24"	NONE	178	258	337	417	497
	BLADE & JAMB	77	111	142	178	—
36"	NONE	281	414	548	681	814
	BLADE & JAMB	128	177	229	289	—
48"	NONE	376	548	722	896	1070
	BLADE & JAMB	169	237	303	380	—
60"	NONE	480	707	933	1160	1387
	BLADE & JAMB	215	303	380	480	—
72"	NONE	574	841	1108	1375	1642
	BLADE & JAMB	258	361	454	582	—
84"	NONE	678	988	1318	1638	1958
	BLADE & JAMB	304	427	518	642	—
96"	NONE	772	1133	1493	1854	2215
	BLADE & JAMB	347	487	625	795	—

HEIGHT IN INCHES	SEALS	WIDTH IN INCHES				
		12"	24"	36"	48"	60"
12"	NONE	12	29	45	61	77
	BLADE & JAMB	20	45	70	90	—
24"	NONE	34	77	120	164	208
	BLADE & JAMB	58	121	181	246	—
36"	NONE	61	141	220	299	378
	BLADE & JAMB	105	198	294	446	—
48"	NONE	82	119	206	402	508
	BLADE & JAMB	142	296	445	599	—
60"	NONE	110	253	399	538	681
	BLADE & JAMB	179	395	595	799	—
72"	NONE	131	301	471	641	811
	BLADE & JAMB	228	470	708	953	—
84"	NONE	169	385	609	775	983
	BLADE & JAMB	275	569	838	1150	—
96"	NONE	180	413	646	879	1112
	BLADE & JAMB	310	643	971	1308	—

HEIGHT (in. and mm)	WIDTH (in. and mm)				
	12	24	36	48	60
12	.305	.610	.914	1.219	1.524
24	.21	.42	.63	1.16	1.46
36	.02	.05	.08	.11	.14
48	.52	1.30	2.07	2.84	3.61
60	.05	.12	.19	.26	.34
72	1.00	2.46	3.91	5.37	6.83
84	.09	.23	.38	.50	.63
96	1.47	3.62	5.78	7.91	10.08
1219	.14	.34	.54	.73	.93
1524	1.79	4.39	6.99	9.60	12.20
1829	.17	.41	.65	.89	1.13
2134	2.26	5.55	8.84	12.13	15.42
2438	.21	.52	.82	1.13	1.43
2743	2.73	6.71	10.69	14.67	18.65
3048	.25	.62	.99	1.36	1.73
3353	3.05	7.68	11.92	16.36	20.80
3658	.28	.69	1.11	1.52	1.93

Free Area
(Given in sq. feet and sq. meters)

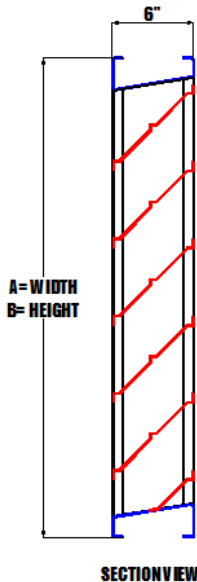
LEAKAGE:
We have shown two leakage values. The higher values are without seals, lower values are with operational blade and jamb seals. Values shown are at 1 in. wj differential pressure

OPERATING FORCE FACTOR:
Louvers are normally operated by applying a force to the blade to blade linkage whereas dampers are driven through the blade axes. Because of this fact, simple operating torques cannot be published.



GALVANIZED STEEL, 6" DEEP, 45° FIXED STATIONARY LOUVERS

INFORMATION



- FRAME: 6" DEEP CHANEL, 16 GA GALVANIZED STEEL
- BLADES: 20 GA GALVANIZED STEEL
- FINISH: MILL
- SCREEN: (OPTIONAL) LOCATED ON EXTERIOR
- MAXIMUM PANEL SIZE: 96" (HEIGHT) x 144" (WIDTH)
MINIMUM PANEL SIZE: 12" x 12"
- DIMENSIONS "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZE. LOUVERS ARE MADE 1/4" UNDERSIZE.
- INDUSTRIAL QUALITY HARDWARE.

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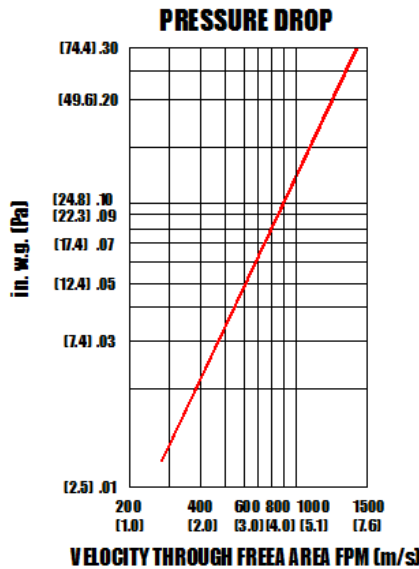
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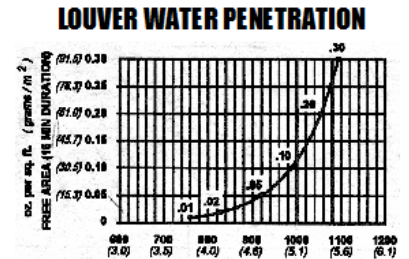
INFORMATION

Water Penetration : .01 oz. (3.0 g.) at 760 fpm (3.86 m/s) recommended free area velocity
Pressure Drop : .09 in. wg. (22.3 Pa) at 760 fpm (3.86 m/s) and 5890 SCFM (2.78 scm/s)
Free Area : 7.75 sq ft (0.72 sq m)= 48.4% for 48" X 48" (1.22 m X 1.22 m) test size



LOUVER FREE AREA IN SQUARE FEET (sq. m)

HEIGHT	WIDTH								
	12	24	36	48	60	72	84	96	
12	.185	.405	.645	.884	1.09	1.33	1.57	1.81	
24	.690	1.42	2.27	3.11	3.95	4.80	5.54	6.38	
36	1.036	2.54	4.05	5.96	8.06	10.39	12.89	15.40	
48	1.45	3.58	5.85	8.75	11.70	15.00	18.90	23.23	
60	1.80	4.41	7.03	9.84	13.33	17.60	22.46	28.36	
72	2.21	5.43	8.65	11.87	16.06	21.12	27.37	34.23	
84	2.67	6.66	10.43	14.32	19.71	26.00	33.23	41.23	
96	3.02	7.42	11.81	16.20	22.05	29.44	38.04	47.23	
1219	134	330	525	720	897	1087	1282	148	
1524	167	410	653	896	1109	1395	169	184	
1828	208	505	804	1103	139	168	195	226	
2133	248	606	969	133	165	201	237	273	
2438	287	699	1097	161	188	227	268	309	



Both maximum recommended free area velocity and beginning of water penetration are 760 fpm at standard air -.075 lbs/cu ft

NOTE:

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies.

-Structural supports and mounting accessories are not supplied by Air-Therm Inc.