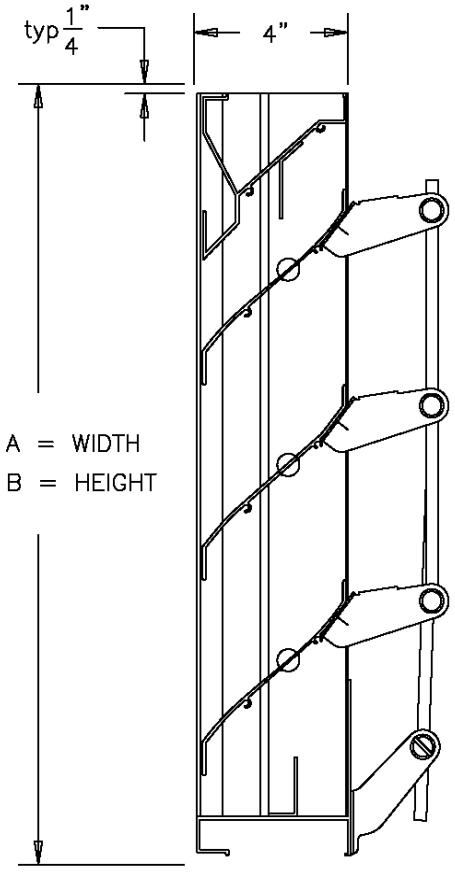
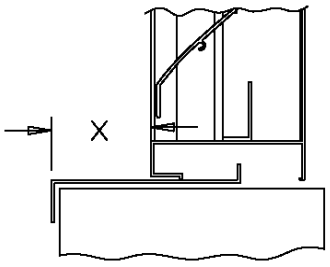
EXTRUDED ALUMINUM, 4" DEEP, ADJUSTABLE K TYPE BLADE



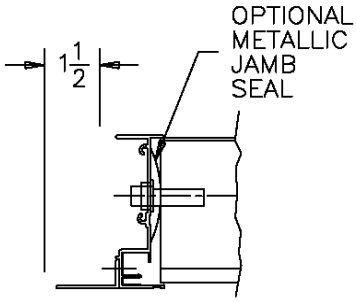
SECTION VIEW

MODEL LE–47A
STANDARD SPECIFICATIONS

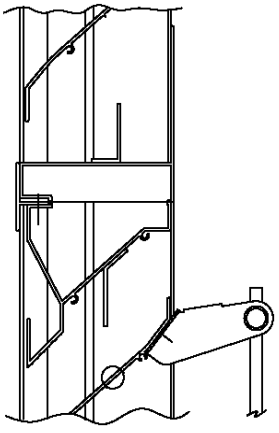
FRAME:	4" DEEP CHANNEL, .081 THICK 6063–T5 EXTRUDED ALUMINUM ALLOY.
BLADES:	.081" THICK 6063–T5 EXTRUDED ALUMINUM ALLOY.
FINISH:	MILL.
SCREEN:	1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON EXTERIOR.
AXLES:	1/2" DIAMETER ALUMINUM
BEARINGS:	POLYMER PLASTIC SPLIT.
LINKAGE:	PLATED STEEL BRACKETS, BRASS BARRELS, 5/16" DIA PLATED STEEL LINKAGE ROD.
ACTUATOR:	INDIVIDUAL PANEL WING NUT. SEE ACTUATOR BULLETIN FOR OTHER SELECTIONS.
MAXIMUM PANEL SIZE:	60" X 96" W/O SEALS OR W/ BLADE SEALS ONLY. 48" X 72" WITH BLADE AND JAMB SEALS.
MINIMUM PANEL SIZE:	12" X 12"
DIMENSIONS:	"A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



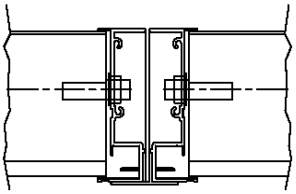
EXTENDED SILL
OPTIONAL



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



STANDARD HORIZONTAL MULLION



STANDARD VERTICAL MULLION

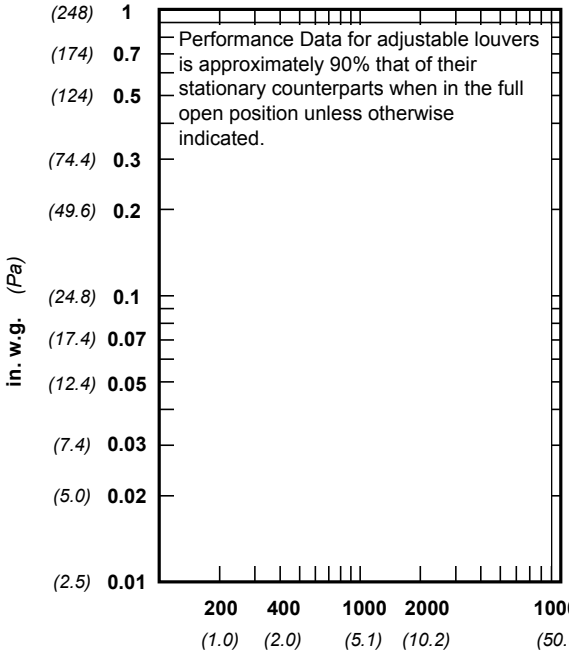
awv american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865–5000 Fax (419) 865–1375

LE–47A ADJUSTABLE LOUVER

DRN. BY	DWG. NO.	REV.
ESS	LE–47A	
DATE 12–12–00		

Water Penetration : Performance Data for adjustable louvers is approximately 90% that of their
Pressure Drop stationary counterparts when in the full open position unless otherwise indicated.
Free Area : 7.61 sq ft (0.707 sq m) = 47.6% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP

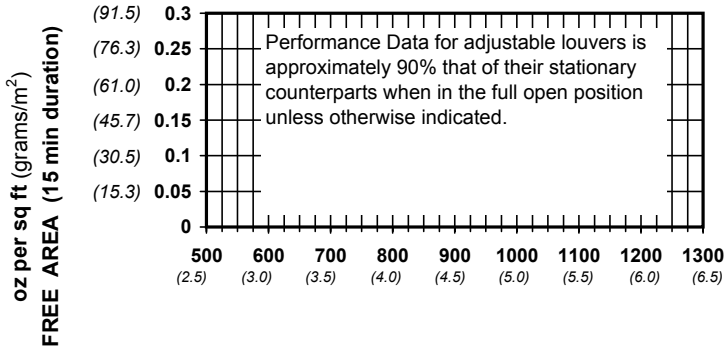


VELOCITY THROUGH FREE AREA fpm (m/s)
standard air- .075 lbs per cu ft
Ratings do not include the effect of a wire bird screen
Test based on a 48" x 48" test size per AMCA Standard 511

FREE AREA IN SQUARE FEET (sq meters)

HEIGHT	WIDTH								
	in.	12	18	24	30	36	42	48	60
	mm	*305*	*457*	*610*	*762*	*914*	*1067*	*1219*	*1524*
12	**0.20**	**0.32**	**0.45**	**0.58**	**0.71**	**0.83**	**0.96**	**1.22**
305	*0.019*	*0.030*	*0.042*	*0.054*	*0.066*	*0.077*	*0.089*	*0.113*
24	**0.59**	**0.97**	**1.35**	**1.73**	**2.11**	**2.49**	**2.87**	**3.63**
610	*0.055*	*0.090*	*0.125*	*0.161*	*0.196*	*0.231*	*0.267*	*0.337*
36	**1.11**	**1.84**	**2.56**	**3.28**	**4.01**	**4.73**	**5.45**	**6.90**
914	*0.103*	*0.171*	*0.238*	*0.305*	*0.373*	*0.439*	*0.506*	*0.641*
48	**1.56**	**2.56**	**3.57**	**4.58**	**5.59**	**6.60**	**7.61**	**9.63**
1219	*0.145*	*0.238*	*0.332*	*0.425*	*0.519*	*0.613*	*0.707*	*0.895*
60	**1.97**	**3.25**	**4.53**	**5.81**	**7.08**	**8.36**	**9.64**	**12.20**
1524	*0.183*	*0.302*	*0.421*	*0.540*	*0.658*	*0.777*	*0.896*	*1.133*
72	**2.36**	**3.89**	**5.43**	**6.96**	**8.49**	**10.02**	**11.55**	**14.62**
1829	*0.219*	*0.361*	*0.504*	*0.647*	*0.789*	*0.931*	*1.073*	*1.358*
84	**2.74**	**4.52**	**6.30**	**8.08**	**9.86**	**11.63**	**13.41**	**16.97**
2134	*0.255*	*0.420*	*0.585*	*0.751*	*0.916*	*1.080*	*1.246*	*1.577*
96	**3.31**	**5.46**	**7.61**	**9.76**	**11.91**	**14.05**	**16.20**	**20.50**
2438	*0.308*	*0.507*	*0.707*	*0.907*	*1.106*	*1.305*	*1.505*	*1.905*

WATER PENETRATION



Leakage:

We have shown two leakage values for the louver sizes below. The upper values with blade seals, and lower values are with optional blade and jamb seals. Values were derived from tests performed in accordance with AMCA 500. Values are in total (CFM) at 1 in wg differential pressure.

HEIGHT		WIDTH					
		SEALS	12	24	36	48	60
12		BLADE	67	87	107	127	147
		BLD & JMB	21	28	34	41	n/a
24		BLADE	153	203	253	303	353
		BLD & JMB	33	83	100	117	n/a
36		BLADE	238	318	398	478	558
		BLD & JMB	112	139	165	192	n/a
48		BLADE	316	416	516	616	716
		BLD & JMB	145	178	211	245	n/a
60		BLADE	401	531	661	791	921
		BLD & JMB	190	234	277	320	n/a
72		BLADE	479	629	779	929	1079
		BLD & JMB	222	273	323	373	n/a
84		BLADE	564	743	924	1104	1285
		BLD & JMB	n/a	n/a	n/a	n/a	n/a
96		BLADE	641	843	1042	1242	1442
		BLD & JMB	n/a	n/a	n/a	n/a	n/a

TOTAL LEAKAGE IN SCFM @ 1 IN wg DP
CLOSING TORQUE IN inch/pounds

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 maximum panel size to be reduced, chek with factory beofre ordering Structural supports and mounting accessories are not supplied by AWV as a standard.

Operating Force Factor:

Louvers are normally operated by applying a force to the blade to blade linkage whereas dampers are driven through the blade axles. Because of this fact, simple operating torques cannot be published. The factors shown are to be used with the data shown in our louver actuator selection guide found in our louver actuator price list.

HEIGHT		WIDTH					
		SEALS	12	24	36	48	60
12		BLADE	22	50	78	106	135
		BLD & JMB	67	122	176	231	n/a
24		BLADE	25	56	87	118	151
		BLD & JMB	68	124	181	237	n/a
36		BLADE	29	63	96	130	166
		BLD & JMB	69	127	185	244	n/a
48		BLADE	32	67	103	139	178
		BLD & JMB	70	128	188	248	n/a
60		BLADE	35	74	112	151	194
		BLD & JMB	71	131	193	254	n/a
72		BLADE	38	79	119	160	206
		BLD & JMB	71	133	196	258	n/a
84		BLADE	42	85	128	172	221
		BLD & JMB	n/a	n/a	n/a	n/a	n/a
96		BLADE	44	90	135	180	233
		BLD & JMB	n/a	n/a	n/a	n/a	n/a