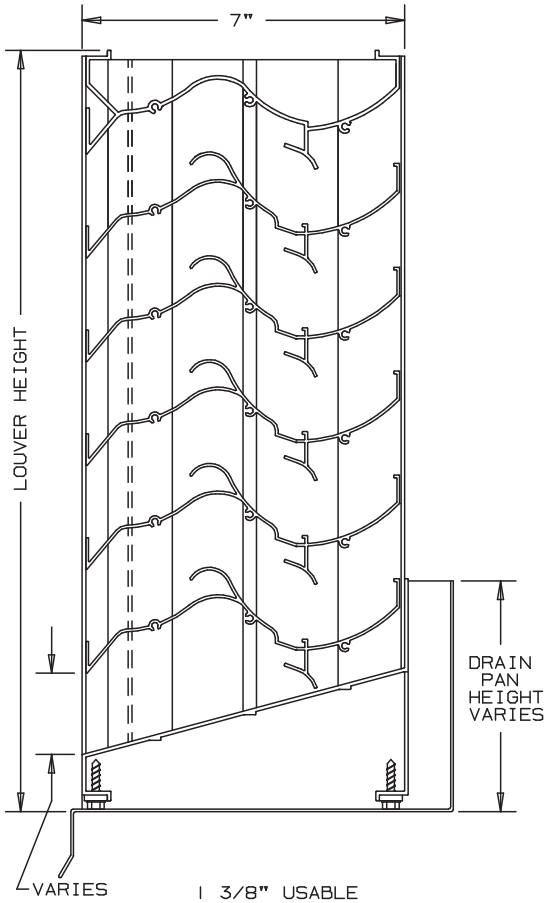
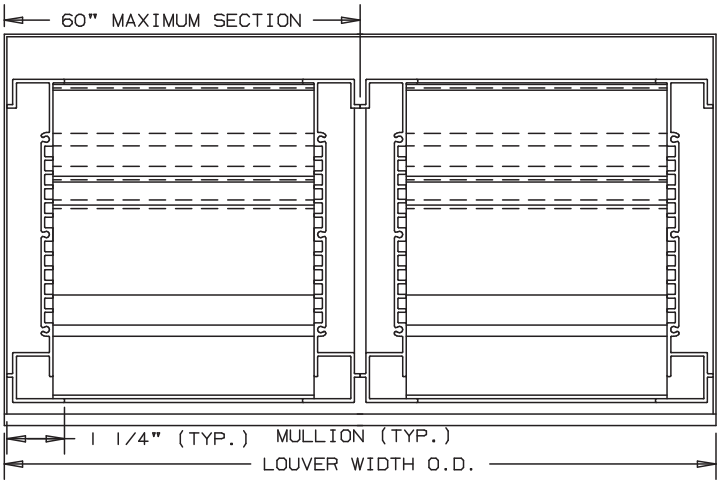
Anemostat®
AIR DISTRIBUTION

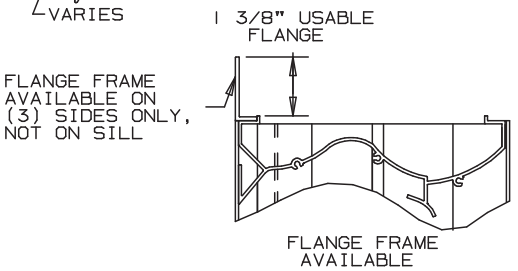
MODEL **SL725D**

EXTRUDED ALUMINUM LOUVERS
7" DEEP

CHEVRON DRAIN BLADE - STATIONARY - CHANNEL TYPE
SIGHTPROOF - WIND DRIVEN RAIN RESISTANT







SPECIFICATIONS

MATERIAL: EXTRUDED ALUMINUM 6063-T6/T52 ALLOY
FRAMES: .080" THICK NOMINAL.
BLADES: .080" THICK NOMINAL
FACE OF LOUVER: HEAD AND BLADES CONTAINED WITHIN THE JAMBS.
SILL CONTAINS JAMBS.
APPROXIMATE BLADE CENTERS 2 1/4".

SCREENS: WHEN INDICATED, IN A REMOVABLE FRAME.
BIRD SCREEN - 1/2" FLATTENED EXPANDED ALUMINUM, .051" THK.
OR - 1/2" SQ. MESH, INTERMEDIATE DOUBLE-CRIMPED ALUMINUM WIRE, .063 DIA.
OR - 18/16 MESH, .011" DIA. ALUMINUM WIRE, INSECT SCREEN.
FINISH: _____

LOUVER SIZES: 12" x 12" MINIMUM PANEL SIZE.
30 SQUARE FEET IS THE MAXIMUM SECTION SIZE.
LOUVERS LARGER THAN THE MAXIMUM FACTORY ASSEMBLED SIZE WILL REQUIRE FIELD ASSEMBLY OF SMALLER LOUVER SECTIONS

LOUVER PERFORMANCE STATEMENT

LOUVER MODEL SL725D SHALL BE FABRICATED TO PROVIDE A MINIMUM OF (45.1%) 7.22 SQUARE FEET OF FREE AREA FOR A SIZE 48"x48" LOUVER AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR AIR PERFORMANCE, WATER PENETRATION AND WIND DRIVEN RAIN. THE RATINGS SHALL SHOW A BEGINNING POINT OF WATER PENETRATION AT .01 OUNCES PER SQUARE FOOT OF FREE AREA AT 1187 FPM (8,570 CFM) WITH .33 INCHES WATER GAGE PRESSURE DROP AT 1000 FPM AIR INTAKE.

IN ADDITION, THIS LOUVER IS TESTED TO WIND DRIVEN RAIN TEST STANDARD, AMCA 500-L-99, WHERE THE LOUVER IS SUBJECTED TO SIMULATED WIND DRIVEN RAIN. THE RESULT OF THIS TEST, FOR A SIZE 48"x48" LOUVER, SHALL SHOW A CLASS "A" RATING AT 3 INCHES OF RAINFALL AT AN INTAKE VELOCITY OF 1,338 FPM (7,076 CFM) AT A WIND SPEED OF 29 MPH, AND A CLASS "A" RATING AT 8 INCHES OF RAINFALL AT AN INTAKE VELOCITY OF 1,177 FPM (6,227 CFM) AT A WIND SPEED OF 50 MPH.

NOMINAL DEDUCTIONS WILL BE MADE TO THE OPENING SIZE GIVEN.

ITEM	QTY.	OPENING SIZE WIDTH	OPENING SIZE HEIGHT	LOUVER SIZE WIDTH	LOUVER SIZE HEIGHT	MULL	SCREENS TYPE	SCREENS LOC	

UNION MADE

Anemostat Air Distribution
1220 E. Watson Center Road
Carson, CA 90745
310-835-7500 • air@anemostat.com
www.anemostat-hvac.com

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PROJECT:
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DATE: DWN.: DWG.:

1069-A-SEPTEMBER-2008-1

MODEL SL725D

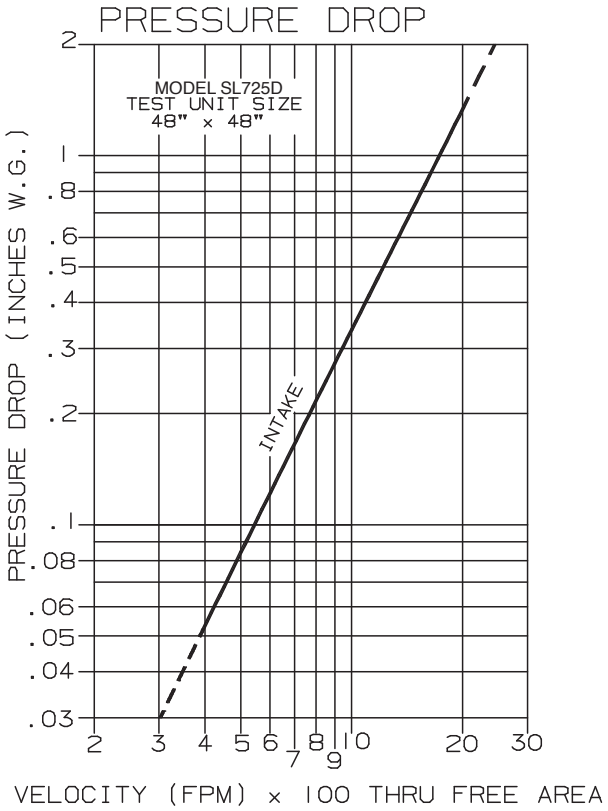
WIND DRIVEN RAIN RESISTANT LOUVER

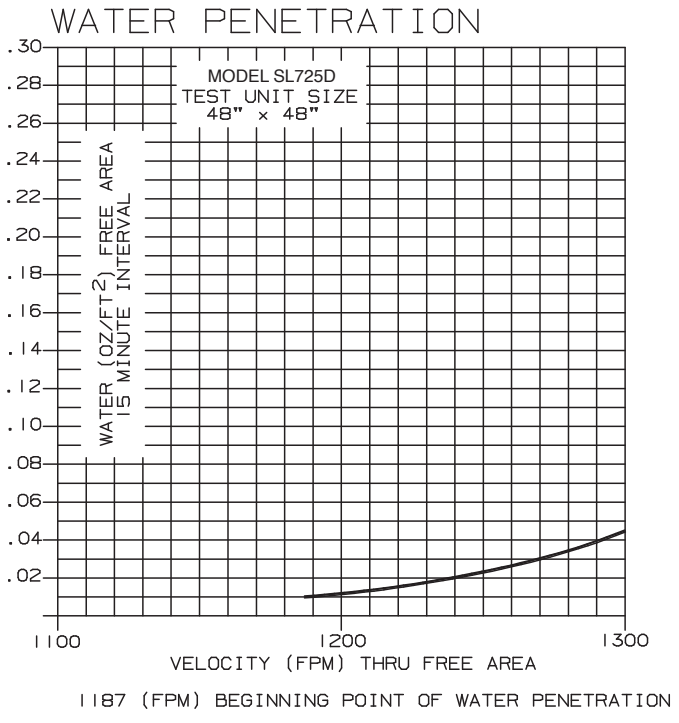
EXTRUDED ALUMINUM - STATIONARY

PERFORMANCE DATA

TESTS OF A 48"x48" ACCORDING TO AMCA STANDARD 500-L SHOWS THE BEGINNING POINT OF WATER PENETRATION IS AT 1187 FPM THROUGH THE FREE AREA OF THE LOUVER, WITH LESS THAN .34 INCHES WATER GAUGE PRESSURE DROP AT 1000 FPM (INTAKE).

RATINGS DO NOT INCLUDE EFFECTS OF BIRD SCREEN.





1187 (FPM) BEGINNING POINT OF WATER PENETRATION

FREE AREA

FREE AREA (SQ. FT.)										
	WIDTH									
HEIGHT	12"	24"	36"	48"	60"	72"	84"	96"	108"	120"
12"	.24	.55	.86	1.17	1.48	1.79	2.10	2.41	2.72	3.03
24"	.63	1.44	2.25	3.06	3.87	4.68	5.49	6.30	7.11	7.92
36"	1.02	2.33	3.65	4.96	6.27	7.58	8.89	10.20	11.51	12.82
48"	1.49	3.40	5.32	7.22	9.14	11.05	12.96	14.87	16.78	18.69
60"	1.89	4.30	6.71	9.12	11.53	13.94	16.35	18.77	21.18	23.59
72"	2.28	5.19	8.10	11.01	13.92	16.84	19.75	22.66	25.57	28.49
84"	2.75	6.26	9.77	13.28	16.80	20.31	23.82	27.33	30.85	34.36
96"	3.14	7.15	11.16	15.18	19.19	23.20	27.22	31.23	35.24	39.26
108"	3.53	8.04	12.56	17.07	21.58	26.10	30.61	35.12	39.64	44.15
120"	4.00	9.11	14.23	19.34	24.46	29.57	34.68	39.80	44.91	50.03

MODEL SL725D

PERFORMANCE DATA

WIND DRIVEN RAINWATER PENETRATION TEST CONDUCTED TO AMCA STANDARD 500-L

TEST SIZE 1M x 1M (39.37" x 39.37") CORE AREA, 41.87" WD x 42.86" HG NOMINAL.
LOUVER FREE AREA 5.29 SQUARE FEET

CORE VENTILATION (M/S)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	RAIN FALL / MPH
FPM	0	0	0	0	0	482	569	657	751	864	977	3 IN. / HR. RAIN FALL AND 29 MPH VELOCITY
FREE AREA VENTILATION (CFM)	-	-	-	-	-	5195	6126	7076	8086	9306	10,519	
FREE AREA VELOCITY (FPM)	-	-	-	-	-	982	1158	1338	1529	1759	1988	
EFFECTIVE RATING CLASS	A	A	A	A	A	A	A	A	C	C	C	
EFFECTIVENESS RATIO %	-	-	-	-	-	100	99.8	99.3	94.8	90.0	83.1	
FPM	0	0	0	0	0	482	578	659	763	847	974	8 IN. / HR. RAIN FALL AND 50 MPH VELOCITY
FREE AREA VENTILATION (CFM)	-	-	-	-	-	5189	6227	7096	8210	9115	10,483	
FREE AREA VELOCITY (FPM)	-	-	-	-	-	981	1177	1341	1552	1723	1982	
EFFECTIVE RATING CLASS	A	A	A	A	A	A	A	B	C	C	C	
EFFECTIVENESS RATIO %	-	-	-	-	-	100	99.0	96.5	92.9	88.6	80.8	

DISCHARGE COEFFICIENT

INTAKE Cd= 0.22 (CLASS 3)

WIND DRIVEN RAIN PENETRATION CLASSIFICATIONS	
CLASS	EFFECTIVENESS %
A	1 TO 0.99%
B	0.989% TO 0.95%
C	0.949 TO 0.80%
D	BELOW 0.80%

DISCHARGE LOSS COEFFICIENT CLASSIFICATIONS	
CLASS	DISCHARGE LOSS COEFFICIENT
1	0.4 AND ABOVE
2	0.3 TO 0.399
3	0.2 TO 0.299
4	0.199 AND BELOW

CLASS 1 LOSS COEFFICIENT HAS THE LEAST RESISTANCE TO AIRFLOW.

1. CORE AREA IS THE FRONT OPENING OF A LOUVER ASSEMBLY WITH THE BLADES REMOVED.
2. CORE AREA VELOCITY IS THE AIRFLOW RATE THROUGH THE LOUVER DIVIDED BY THE CORE AREA (39.37"x39.37").
3. FREE AREA IS THE MINIMUM AREA THROUGH WHICH AIR CAN PASS. IT IS DETERMINED BY MULTIPLYING THE SUM OF THE MINIMUM DISTANCES BETWEEN INTERMEDIATE BLADES, TOP BLADE AND HEAD, BOTTOM BLADE AND SILL, BY THE MINIMUM DISTANCE BETWEEN JAMBS.
4. DISCHARGE LOSS COEFFICIENT IS CALCULATED BY DIVIDING A LOUVER ACTUAL AIRFLOW RATE vs. A THEORETICAL AIRFLOW FOR THE OPENING. PROVIDING AN INDICATION OF THE LOUVER AIR FLOW CHARACTERISTICS.

Anemostat certifies that the performance data shown has been determined by test in accordance with applicable AMCA standards.