



# LOUVER MODEL EA-620

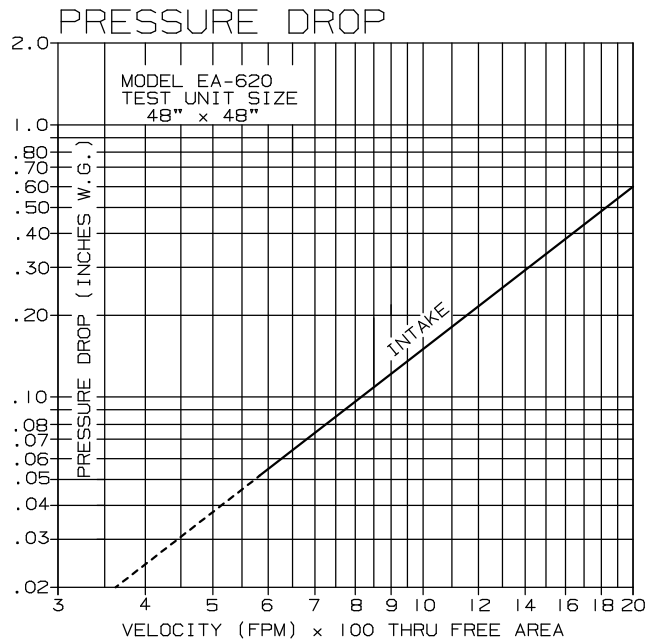
## WIND DRIVEN RAIN RESISTANT LOUVER

### EXTRUDED ALUMINUM - STATIONARY

## PERFORMANCE DATA

TESTS OF A 48"x48" ACCORDING TO AMCA STANDARD 500-L-99  
SHOWS LESS THAN .160 INCHES WATER GAUGE PRESSURE DROP  
AT 1000 FPM (INTAKE).

RATINGS DO NOT INCLUDE EFFECTS OF BIRDSCREEN.



## FREE AREA

		FREE AREA ( SQ. FT. )								
		WIDTH								
		12"	18"	24"	30"	36"	42"	48"	54"	60"
HEIGHT	12"	.17	.29	.40	.51	.62	.73	.84	.95	1.06
	24"	.58	.96	1.33	1.70	2.08	2.45	2.82	3.20	3.57
	36"	.99	1.63	2.26	2.90	3.54	4.17	4.81	5.44	6.08
	48"	1.40	2.30	3.20	4.10	4.99	5.89	7.07	7.69	8.58
	60"	1.81	2.97	4.13	5.29	6.45	7.61	8.77	9.93	11.09
	72"	2.22	3.64	5.07	6.49	7.91	9.33	10.75	12.17	13.59
	84"	2.63	4.32	6.00	7.68	9.37	11.05	12.73	14.42	16.10
96"	2.98	4.89	6.80	8.71	10.62	12.52	14.43	16.34	18.25	

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## PERFORMANCE DATA

### WIND DRIVEN RAINWATER PENETRATION TEST CONDUCTED TO AMCA STANDARD 500-L-99

TEST SIZE 1M x 1M (39.37" x 39.37") CORE AREA, NOMINAL  
LOUVER FREE AREA 5.64 SQUARE FEET

CORE VENTILATION (M/S)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	RAINFALL/MPH
FPM	0	136	187	303	379	475	577	686	3 IN/HR RAINFALL AND 29 MPH VELOCITY
FREE AREA VENTILATION (CFM)	0	1469	2013	3259	4080	5110	6215	7382	
FREE AREA VELOCITY (FPM)	0	260	357	578	723	906	1102	1309	
EFFECTIVE RATING CLASS	A	A	B	B	B	B	C	C	

DISCHARGE COEFFICIENT  
INTAKE  $C_d = 0.33$  (CLASS 2)

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.



ARROW UNITED CERTIFIES THAT THE MODEL EA-620 SHOWN HEREIN IS LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS AND PROCEDURES PERFORMED IN ACCORDANCE WITH THE AMCA PUBLICATION 511 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM. THE AMCA CERTIFIED RATINGS SEAL APPLIES TO AIR PERFORMANCE AND WIND DRIVEN RAIN RATINGS ONLY.