MODEL EA-721-S

Page 1

Standard Materi	als and Construction
FRAME:	.081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy.
BLADE:	.081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy.
	Horizontal blades approximately 3" on center, vertical blades approximately 1%6" on center.
LOUVER FACE:	Head and blades are contained within jambs, sill contains jambs.
SCREENS:	(When indicated, in a removable frame.)
	$\frac{1}{2}$ " flattened aluminum (.051" thick),
-or-	1/2" sq. mesh, intermediate double-crimped aluminum
	wire, .063" dia.,
-or-	18/16 mesh, .011" dia. aluminum wire, insect screen.
DRAIN PAN:	.060" thk. (nominal) formed aluminum with welded and
	caulked end dams.
FINISH:	Mill

Options

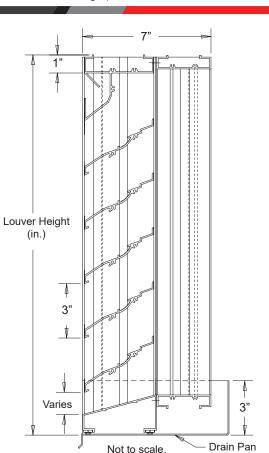
Finish - Baked Enamel, Kynar, Anodized

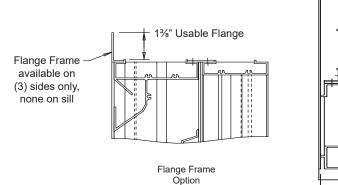
<u>Notes</u>

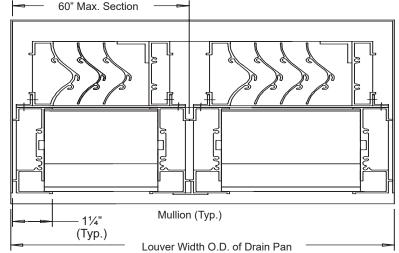
- 1. $\frac{1}{2^{2}}$ nominal deduction will be made to the opening size given.
- 2. Louvers larger than the maximum factory assembled size will require field
- assembly of smaller louver sections.
- 3. Approximate shipping weight is 10.5 lbs./sq.ft.

Louver Sizes

Min Panel	Max Single Panel
12"W x 12"H	60"W x 96"H (30) sq. ft.







Item #	0.54	Width	Height	Width	Height	Mullion	Туре	Location			007
nem #	Qty	Opening Size		Louver Size		Mullion	Screens				Union Made
Arch.	/ Eng.:					EDR:		ECN:	J	ob:	
Contr	actor:										
P	roject:					Date:		DWN:	DV	/G:	



In the interest of product development, Arrow United reserves the right to make changes without notice. 450 Riverside Dr • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286 AUI-09-02-12

MODEL EA-721-S

Severe Weather Louver • 7" Deep • Combination Stationary • Straight and Chevron Blades • Sightproof • Extruded Aluminum

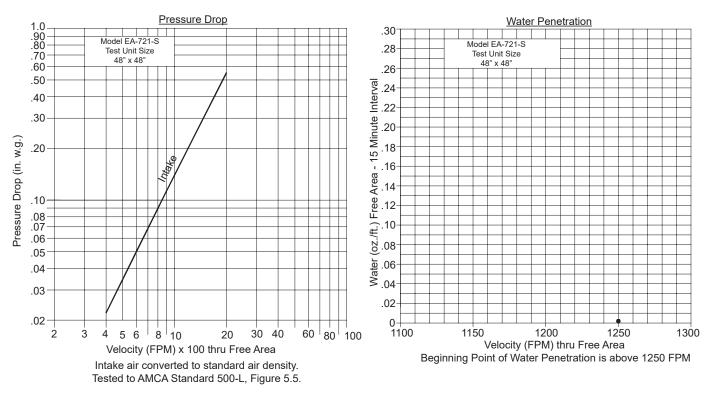
Performance Data

Pressure Drop: .022 in. wg at 400 fpm

Free Area: 6.78 sq.ft. (42.4%) for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L. Beginning Point of Water Penetration: Greater than 1250 fpm

Class "A" Rating with 100% efficiency at 3 in. rain fall at intake velocity of 1560 fpm (10,574 cfm) at wind speed of 29 mph. Class "A" Rating with 99.9% efficiency at 8 in. rain fall at intake velocity of 1565 fpm (10,612 cfm) at wind speed of 50 mph. Testing based on 48" x 48" based on AMCA Standard 500-L.

Ratings do not include effects of a screen.



			<u>Free Area (sq.ft.)</u>											
			Width (in.)											
		12"	12" 18" 24" 30" 36" 42" 48" 54" 60"											
	12"	.26	.44	.62	.79	.97	1.15	1.32	1.50	1.68				
	24"	.62	1.03	1.45	1.86	2.27	2.69	3.10	3.51	3.93				
	36"	.99	1.64	2.30	2.96	3.61	4.27	4.93	5.59	6.24				
it (in.)	48"	1.36	2.26	3.17	4.07	4.98	5.88	6.78	7.69	8.59				
Height	60"	1.71	2.85	3.99	5.14	6.28	7.42	8.56	9.70	10.84				
	72"	2.07	3.45	4.82	6.20	7.58	8.96	10.34	11.71	13.09				
	84"	2.42	4.04	5.65	7.27	8.88	10.50	12.11	13.73	15.34				
	96"	2.80	4.67	6.54	8.41	10.28	12.15	14.02	15.89	17.76				



MODEL EA-721-S

Severe Weather Louver • 7" Deep • Combination Stationary • Straight and Chevron Blades • Sightproof • Extruded Aluminum

Wind Driven Rainwater Penetration Test Conducted to AMCA Standard 500-L.

Test size 1m x 1m (39.7" x 39.7") core area, 43.125" x 45.25" nominal. Louver Free Area 6.78 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	-	-	-	-	-	-	-	-	-	-	982		
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	-	-	10,574	3 in. / hr. rain fall	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	-	-	1,560	and	
Effective Rating Class	А	Α	А	Α	Α	А	Α	A	А	А	А	29 mph Velocity	
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	-	-	100	velocity	
FPM	-	-	-	-	-	-	-	-	-	884	986		
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	-	9,523	10,612	8 in. / hr. rain fall	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	-	1,405	1,565	and 50 mph Velocity	
Effective Rating Class	А	А	А	Α	Α	А	А	Α	Α	А	А		
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	-	100	99.9	Velocity	

Wind Driven Rain Penetration Classifications

Class	Effectiveness %
A	100 to 99%
В	98.9% to 95%
С	94.9% to 80%
D	Below 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

Discharge Coefficient

Intake Cd = .34 (CLASS 2)

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" x 39.37").
- 3. Free area is the minimum area through which air can pass. It is determined by multiplying the sum of the minimum distance between intermediate blades, top blade and head, bottom blade and sill, by the minimum distance between jambs.
- 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 Industries certifies that the Model EA-721-S shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance, Water Penetration, and Wind Driven Rain only.

