

MODEL EA-331-VSL

Severe Weather Louver • 3" Deep • Chevron Blades • Vertical • Rain Resistant • Extruded Aluminum

Page 2

Performance Data

Pressure Drop: .083 in. w.g. at 1000 fpm (intake)

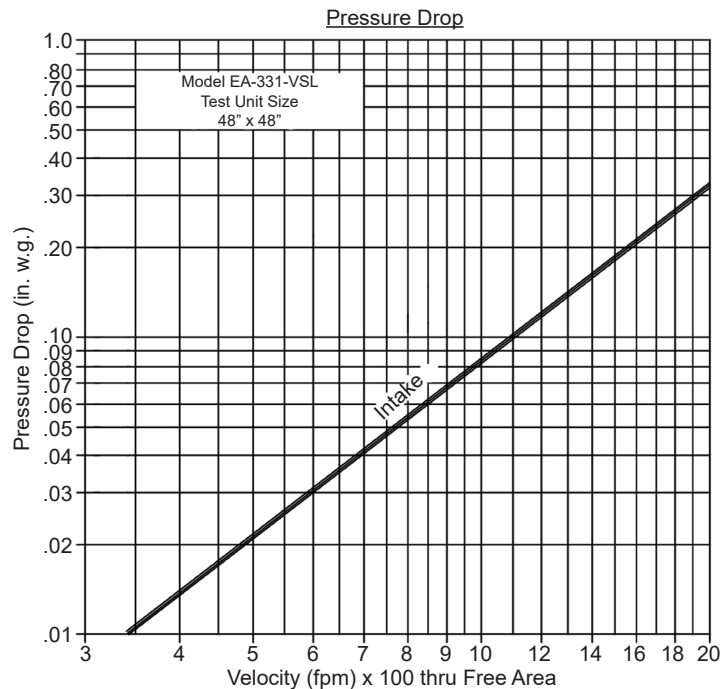
Free Area: 7.06 sq.ft. = 44% for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L.

Class "A" Rating with 100% efficiency at 3 in. rain fall at intake velocity of 1451 fpm (10,244 cfm) at wind speed of 29 mph.

Class "A" Rating with 99.5% efficiency at 8 in. rain fall at intake velocity of 1439 fpm (10,159 cfm) at wind speed of 50 mph.

Testing based on 48" x 48" size based on AMCA Standard 500-L.

Ratings do not include effects of a screen.



Intake air converted to standard air density.
Tested to AMCA Standard 500-L, Figure 5.5.

| | | Free Area (sq.ft.) | | | | | | | | |
|--------------|-----|--------------------|------|------|------|-------|-------|-------|-------|-------|
| | | Width (in.) | | | | | | | | |
| | | 12" | 18" | 24" | 30" | 36" | 42" | 48" | 54" | 60" |
| Height (in.) | 12" | .34 | .55 | .77 | .98 | 1.18 | 1.39 | 1.60 | 1.82 | 2.03 |
| | 24" | .73 | 1.18 | 1.65 | 2.10 | 2.54 | 2.99 | 3.42 | 3.90 | 4.35 |
| | 36" | 1.13 | 1.80 | 2.53 | 3.22 | 3.89 | 4.58 | 5.25 | 5.98 | 6.67 |
| | 48" | 1.52 | 2.44 | 3.41 | 4.34 | 5.24 | 6.17 | 7.06 | 8.06 | 9.00 |
| | 60" | 1.91 | 3.07 | 4.29 | 5.46 | 6.59 | 7.77 | 8.90 | 10.14 | 11.32 |
| | 72" | 2.30 | 3.69 | 5.16 | 6.58 | 7.95 | 9.36 | 10.73 | 12.22 | 13.64 |
| | 84" | 2.69 | 4.32 | 6.04 | 7.70 | 9.30 | 10.95 | 12.56 | 14.30 | 15.96 |
| | 96" | 3.08 | 4.95 | 6.92 | 8.82 | 10.65 | 12.55 | 14.38 | 16.39 | 18.28 |

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Page 3

Wind Driven Rainwater Penetration Test

Conducted to AMCA Standard 500-L.

Test size 1m x 1m (39.7" x 39.7") core area, nominal.

Louver Free Area 5.11 square feet.

| Wind Velocity (MPH) | Rainfall Rate (in./hr.) | Core Area Velocity (FPM) | Airflow (CFM) | Free Area Velocity (FPM) | Effectiveness Ratio | Class | Discharge Loss Coefficient Class Intake |
|---------------------|-------------------------|--------------------------|---------------|--------------------------|---------------------|-------|---|
| 29 | 3" | 689 | 7415 | 1451 | 100% | A | 2 |
| 50 | 8" | 683 | 7352 | 1439 | 99.5% | A | 2 |

Wind Driven Rain Penetration Classifications

| Class | Effectiveness % |
|-------|-----------------|
| A | 100 to 99% |
| B | 98.9% to 95% |
| C | 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 |

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.
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 Industries certifies that the Model EA-331-VSL 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 and Wind Driven Rain Ratings only.



HIGH VELOCITY
RAIN RESISTANT
WITH BLADES FULLY OPEN

See www.amca.org for all certified or listed products

This label does not signify
AMCA airflow performance
certification.

Arrow United Industries certifies that the Model EA-331-VSL shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program.

The AMCA Listing Label applies to High Velocity Rain Resistant Louvers.