

LVR-ES90 Natural Intake Ventilation



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LVR-ES90 Natural Intake Ventilator

LVR ES90 Product Details

PRODUCT DESCRIPTION

The LV-ES90 louver features operable J-blades that range from the closed position to fully open, and a drainable head to aid in protecting openings from water penetration. The LV-ES90 is ideally suited for use on warehouse or distribution center type projects where maximum airflow is required.

STANDARD FEATURES

- Material: Mill finish 6063-T5 extruded aluminum
- Frame: 6" deep × 0.081" thick (102 × 2) channel
- Blades: 90° × 0.081" (2) thick operable J-style
- Screen: 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum.
- Minimum Size: 12" × 12.5" (305 × 317)
- Maximum Size:
 - Single section:
 - 48" × 96" (1219 × 2436) w/ low leakage seals
 - 60" × 96" (1524 × 2436) w/o low leakage seals
 - Multiple section: Unlimited
- Free Area: [48" × 48" (1219 × 1219) unit]: 10.96 ft² (3.34 m²) 68.5%
- Water Penetration Beginning Point Performance
 - Free Area Velocity: 748 fpm (3.80 m/s)
 - Air Volume Delivered: 8,325 cfm (3.93 m³/s)
 - Pressure Loss: 0.19 in.wg. (25 Pa)
- Velocity @ 0.15 in.wg. Pressure Loss: 1,100 fpm (5.59 m/s)

OPTIONAL FEATURES

- Factory finish:
 - High Performance Fluoropolymer
 - Prime Coat
 - Baked Enamel
 - Clear Anodize
 - Integral Color Anodize
- Frame Options
 - 1-1/2" (38) flange frame
 - Custom sized frame
 - Stucco flange
 - Galvanizing Frame
- Installation Hardware
 - Clip angles
 - Continuous Angles
- Hidden Vertical Mullions
- Welded construction
- Alternate bird or insect screens
- Insulated or non-insulated blank-off panels
- Filter racks
- Hinged frame
- Head and/or sill flashing
- Burglar bars
- Factory installed actuators.
 - Manual locking quadrant (supplied loose)
 - 24 VAC
 - 120 VAC
 - 230 VAC
 - Pneumatic
 - Modulating
 - No low leakage seals

INDUSTRY APPLICATION

- | | | |
|-------------------------|--------------------------|-----------------------|
| • Aluminum Plants | • Glass & Glass Products | • Power Stations |
| • Automotive Plants | • Gypsum Plants | • Pulp & Paper Plants |
| • Cement & Concrete | • Heavy Manufacturing | • Specialty Chemicals |
| • Chemical Plants | • Mining & Minerals | • Steel Mills |
| • Foundries & Forging | • Plastics Plants | • Warehouses |
| • General Manufacturing | • Processing Industry | • +Others |

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LVR-ES90 Free Area

Free Area (ft ²)		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
Height (Inches)	12	0.23	0.40	0.57	0.75	0.92	1.10	1.27	1.44	1.62	1.79	1.96	2.14	2.31	2.48	2.66	2.83	3.00	3.18	3.35
	18	0.52	0.92	1.32	1.72	2.12	2.52	2.92	3.32	3.72	4.11	4.51	4.91	5.31	5.71	6.11	6.51	6.91	7.31	7.70
	24	0.82	1.44	2.07	2.69	3.31	3.94	4.56	5.19	5.81	6.43	7.06	7.68	8.31	8.93	9.55	10.18	10.80	11.43	12.05
	30	1.11	1.96	2.81	3.66	4.51	5.36	6.21	7.06	7.91	8.76	9.61	10.46	11.31	12.16	13.01	13.86	14.70	15.55	16.40
	36	1.41	2.49	3.56	4.63	5.71	6.78	7.86	8.93	10.01	11.08	12.16	13.23	14.31	15.38	16.46	17.53	18.61	19.68	20.76
	42	1.71	3.01	4.31	5.61	6.91	8.21	9.51	10.81	12.11	13.41	14.71	16.01	17.31	18.61	19.91	21.21	22.51	23.81	25.11
	54	2.00	3.53	5.05	6.58	8.10	9.63	10.96	12.68	14.21	15.73	17.26	18.78	20.31	21.84	23.36	24.89	26.41	27.94	29.46
	60	2.30	4.05	5.80	7.55	9.30	11.05	12.80	14.56	16.31	18.06	19.81	21.56	23.31	25.06	26.81	28.56	30.31	32.07	33.82
	66	2.59	4.57	6.55	8.52	10.50	12.48	14.45	16.43	18.41	20.38	22.36	24.33	26.31	28.29	30.26	32.24	34.22	36.19	38.17
	72	2.89	5.09	7.29	9.50	11.70	13.90	16.10	18.30	20.50	22.71	24.91	27.11	29.31	31.51	33.72	35.92	38.12	40.32	42.52
	78	3.19	5.61	8.04	10.47	12.89	15.32	17.75	20.18	22.60	25.03	27.46	29.89	32.31	34.74	37.17	39.59	42.02	44.45	46.88
	84	3.48	6.13	8.79	11.44	14.09	16.74	19.40	22.05	24.70	27.36	30.01	32.66	35.31	37.97	40.62	43.27	45.92	48.58	51.23
	90	3.78	6.66	9.53	12.41	15.29	18.17	21.05	23.92	26.80	29.68	32.56	35.44	38.31	41.19	44.07	46.95	49.83	52.71	55.58
	96	4.07	7.18	10.28	13.38	16.49	19.59	22.69	25.80	28.90	32.00	35.11	38.21	41.32	44.42	47.52	50.63	53.73	56.83	59.94
	102	4.37	7.70	11.03	14.36	17.68	21.01	24.34	27.67	31.00	34.33	37.66	40.99	44.32	47.65	50.97	54.30	57.63	60.96	64.29
	108	4.66	8.22	11.77	15.33	18.88	22.44	25.99	29.55	33.10	36.65	40.21	43.76	47.32	50.87	54.43	57.98	61.53	65.09	68.64
114	4.96	8.74	12.52	16.30	20.08	23.86	27.64	31.42	35.20	38.98	42.76	46.54	50.32	54.10	57.88	61.66	65.44	69.22	73.00	
120	5.26	9.26	13.27	17.27	21.28	25.28	29.29	33.29	37.30	41.30	45.31	49.31	53.32	57.32	61.33	65.33	69.34	73.34	77.35	

Width (Inches)

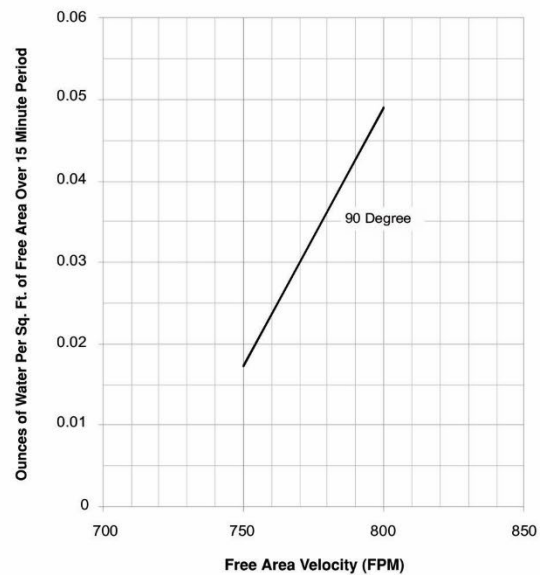
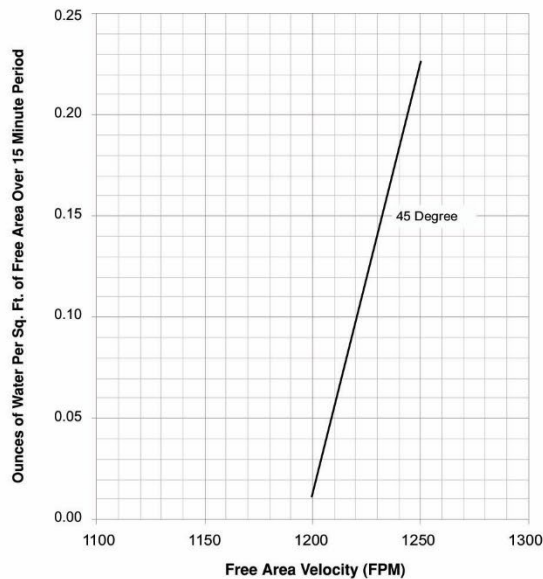
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LVR-ES90 Water Penetration

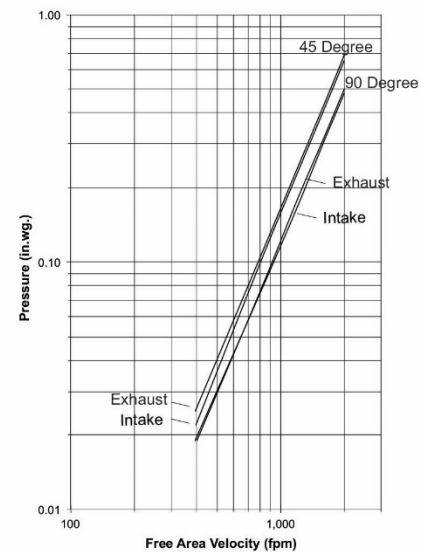
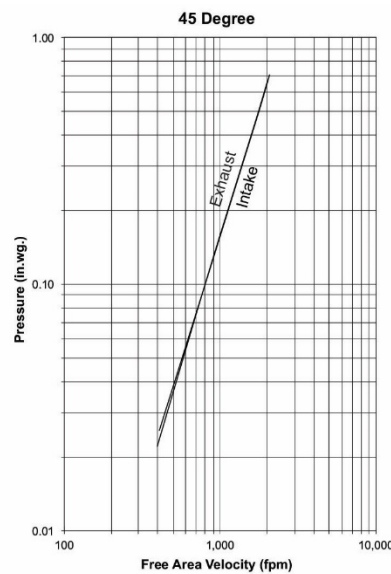
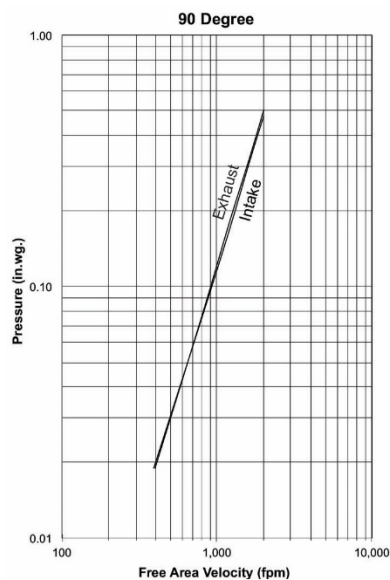
AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15-minute period.

The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. We recommend that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration to avoid unwanted penetration during severe storm conditions.

Beginning Point of Water Penetration = 1,250 fpm



LV-ES90 Pressure Loss

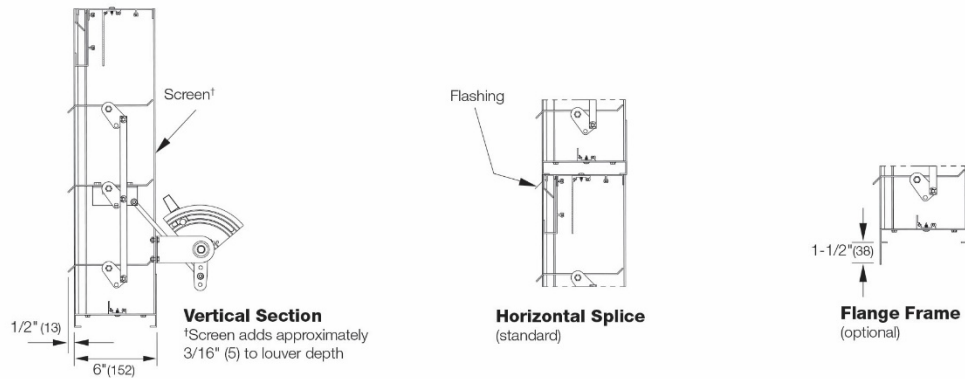


Louver Test Size = 48" x 48" (1219 x 1219)

Pressure loss tested in accordance with Figure 5.5 of AMCA standard 500-L. Data corrected to standard air density.

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LVR-ES90 Attributes



LVR-ES90 Supplemental Options

