

EXD-637

(standard)

*Louver dimensions furnished approximately 1/2" (13) undersize.

Ratings

Free Area: [48" x 48" (1219 x 1219) unit]: 8.2 ft² (0.76 m²)
51.3%

Performance @ Beginning Point of Water Penetration

Free Area Velocity: 1,231 fpm (6.26 m/s)

Air Volume Delivered: 10,134 cfm (4.78 m³/s)

Pressure Loss: 0.16 in.wg. (39 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 1,201 fpm (6.10 m/s)

Design Load: 30 psf



Certified Ratings:

Pottorff certifies that the model EXD-637 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test 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 water penetration ratings.

NOTE: Dimensions in parentheses () are millimeters.
Information is subject to change without notice or obligation.

The EXD-637 louver features operable blades that allow positive shutoff protection of air intake and exhaust openings. The EXD-637 is available in a wide array of anodized and painted finishes including custom color matching. These units are also available with a variety of factory mounted electric or pneumatic actuators.

Standard Construction

Material: Mill finish 6063-T5 extruded aluminum

Frame: 6" deep x 0.081" thick (152 x 2) channel

Blades: 37-1/2° x 0.081" (2) thick combination style

Screen: 1/2" x 0.063" (12.7 x 1.6) expanded and flattened aluminum

Linkage: Center, exposed

Low leakage seals: PVC blade edge

Minimum Size: 12" x 12" (305 x 305)

Maximum Size: Single section:
72" x 120" (1828 x 3048)

120" x 72" (3048 x 1828)

Multiple section: Unlimited

Options

■ Factory finish:

- High Performance Fluoropolymer
- Prime Coat
- Baked Enamel
- Clear Anodize
- Integral Color Anodize

■ Frame Options:

- 1-1/2" (38) flange frame
- Custom size flange
- Stucco flange
- Glazing frame

■ Installation Hardware

- Clip angles
- Continuous angles

■ Alternate bird or insect screens

■ Insulated or non-insulated blank-off panels

■ Filter racks

■ Hinged frame

■ Subframe

■ Head and/or sill flashing

■ Burglar bars

■ Frame closure

■ Net OD (actual size)

■ Factory mounted electric or pneumatic actuator



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PERFORMANCE

EXD-637

Extruded Aluminum Louver
6" deep • 37-1/2° Combination Blade

Free Area (ft²)

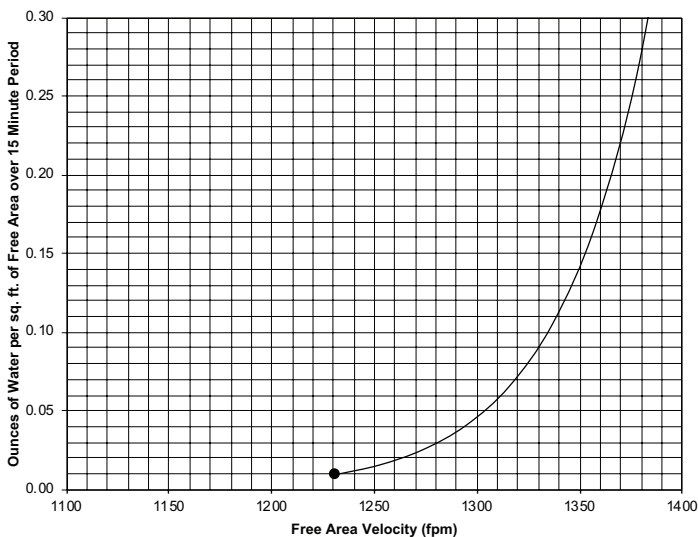
Width (Inches)

Height (Inches)	Width (Inches)																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.2	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0
18	0.4	0.7	1.0	1.2	1.5	1.8	2.1	2.3	2.6	2.9	3.1	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.3
24	0.6	1.0	1.4	1.8	2.2	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.6	6.0	6.4	6.8	7.2	7.6
30	1.0	1.6	2.2	2.8	3.5	4.1	4.7	5.3	5.9	6.6	7.2	7.8	8.4	9.0	9.6	10.3	10.9	11.5	12.1
36	1.2	1.9	2.6	3.4	4.1	4.8	5.6	6.3	7.0	7.8	8.5	9.2	10.0	10.7	11.5	12.2	12.9	13.7	14.4
42	1.3	2.2	3.0	3.9	4.8	5.6	6.5	7.3	8.2	9.0	9.9	10.7	11.6	12.4	13.3	14.1	15.0	15.8	16.7
48	1.7	2.8	3.9	5.0	6.0	7.1	8.2	9.3	10.4	11.5	12.5	13.6	14.7	15.8	16.9	18.0	19.0	20.1	21.2
54	1.9	3.1	4.3	5.5	6.7	7.9	9.1	10.3	11.5	12.7	13.9	15.1	16.3	17.5	18.7	19.9	21.1	22.3	23.5
60	2.1	3.4	4.7	6.0	7.3	8.7	10.0	11.3	12.6	13.9	15.2	16.5	17.9	19.2	20.5	21.8	23.1	24.4	25.7
66	2.4	4.0	5.5	7.1	8.6	10.2	11.7	13.3	14.8	16.4	17.9	19.5	21.0	22.5	24.1	25.6	27.2	28.7	30.3
72	2.6	4.3	6.0	7.6	9.3	10.9	12.6	14.3	15.9	17.6	19.3	20.9	22.6	24.2	25.9	27.6	29.2	30.9	32.5
78	2.8	4.6	6.4	8.1	9.9	11.7	13.5	15.3	17.0	18.8	20.6								
84	3.2	5.2	7.2	9.2	11.2	13.2	15.2	17.3	19.3	21.3	23.3								
90	3.4	5.5	7.6	9.7	11.9	14.0	16.1	18.2	20.4	22.5	24.6								
96	3.5	5.8	8.0	10.3	12.5	14.8	17.0	19.2	21.5	23.7	26.0								
102	3.9	6.4	8.9	11.3	13.8	16.3	18.8	21.2	23.7	26.2	28.6								
108	4.1	6.7	9.3	11.9	14.5	17.0	19.6	22.2	24.8	27.4	30.0								
114	4.3	7.0	9.7	12.4	15.1	17.8	20.5	23.2	25.9	28.6	31.3								
120	4.7	7.6	10.5	13.5	16.4	19.3	22.3	25.2	28.1	31.1	34.0								

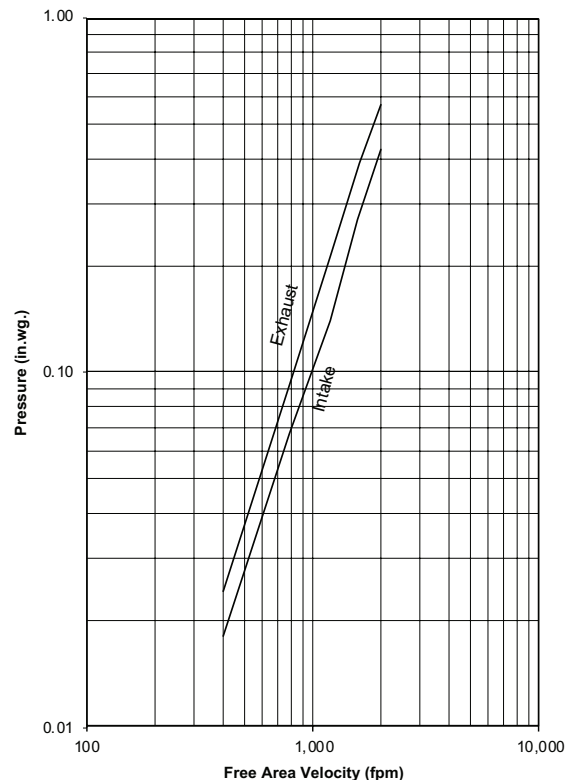
Water Penetration

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 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 in order to avoid unwanted penetration during severe storm conditions.

Beginning Point of Water Penetration = 1,231 fpm



Pressure Loss

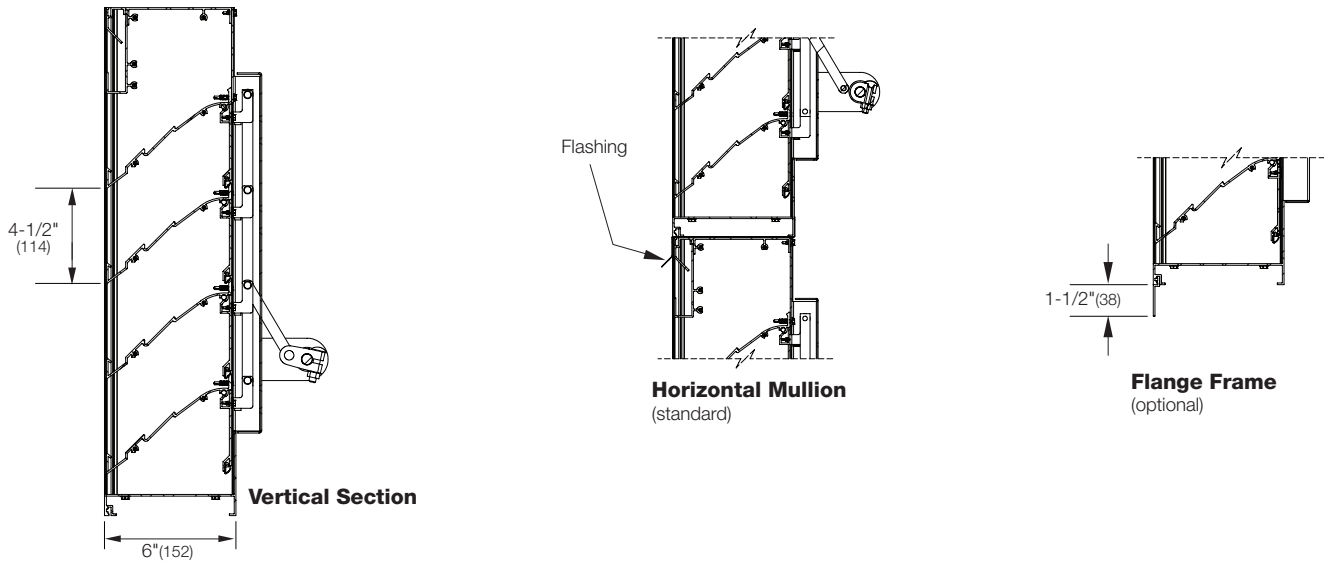


Louver Test Size = 48" x 48" (1219 x 1219)
Pressure loss tested in accordance with Figure 5.5 of AMCA Standard 500-L. Data corrected to standard air density.

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Extruded Aluminum Louver
6" deep • 37-1/2° Combination Blade

Attributes



Supplemental Options

