

Intake Louvers – Models FLV and MLV

Model FLV – Fixed Blade Louver

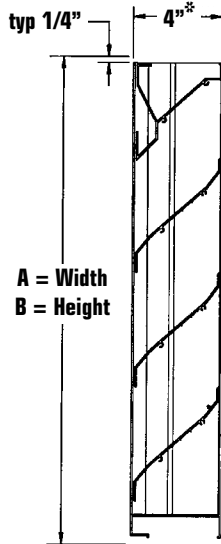
(shown with optional flange)

Extruded Aluminum Stationary

Non-Drainable Louvers

Model FLV louvers are designed to combine outstanding performance with improved aesthetic appearance.

- Blade Angle: 45 Degrees
 - Frame Depth: 4 inches
 - Frame Type: Channel
 - Frame Thickness: 0.081 inches
- Contact Factory for Optional Features
Add 10% for Angle (flanged) frames.



Section View

Standard Specifications

- Frame: 4" deep channel, .081" thick 6063-T5 Extruded Aluminum Alloy
 - Blades: .081" thick 6063-T5 extruded aluminum alloy
 - Finish: Mill
 - Screen: 1/2" removable expanded aluminum bird screen, located on interior
 - Maximum Panel Size: 96" x 96"
 - Minimum Panel Size: 12" x 12"
 - Dimensions: "A" (width) "B" (height) are opening sizes. Louvers are made 1/2" undersize
- * Panels over 60" wide will be 5-1/2" deep due to a vertical interior blade support angle.

Model MLV – Adjustable Blade Louver

(shown with optional motor & flange)

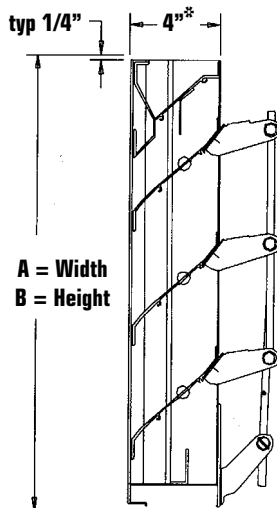
Extruded Aluminum Adjustable

Non-Drainable Louvers

Model MLV louvers are available with motorized operators. Multiple panels are joined by a substantial jackshaft assembly which is driven by one or more actuators. Contact factory for details.

- Blade Angle: Adjustable
 - Frame Depth: 4 inches
 - Frame Type: Channel
 - Frame Thickness: 0.081 inches
- Contact Factory for Optional Features
Add 10% for Angle (flanged) frames.

Actuators		
Model	Control	Stock No
MA405	120V	45401



Section View

Standard Specifications

- Frame: 4" deep channel, .081" thick 6063-T5 Extruded Aluminum Alloy
- Blades: .081" thick 6063-T5 extruded aluminum alloy
- Finish: Mill
- Screen: 1/2" removable expanded aluminum bird screen, located on exterior
- Axles: 1/2" diameter aluminum
- Bearings: Polymer plastic split
- Linkage: Plated steel brackets, brass barrels, 5/16" dia. Plated steel linkage rod
- Actuator: Individual panel wing nut. See actuator bulletin for other selections.
- Maximum Panel Size: 60" x 96" w/o seals or w/blade seals only
48" x 72" with blade and jamb seals
- Minimum Panel Size: 12" x 12"
- Dimensions: "A" (width) "B" (height) are opening sizes. Louvers are made 1/2" undersize

Louver models available from stock are listed below.
Contact factory regarding delivery for all other models.

FLV3636	36" x 36" Fixed Louver
FLV4860	48" x 60" Fixed Louver
MLV3636	36" x 36" Motorized Louver
MLV4860	48" x 60" Motorized Louver

Intake Louvers – Models FLV and MLV

Water Penetration: 0.01 oz. at 677 fpm recommended free area velocity

Pressure Drop: 0.10 in. WG at 677 fpm and 5518 SCFM

Free Area: 8.15 square feet = 51% for 48" x 48" test size

Both maximum recommended free area velocity and the beginning of water penetration are 677 fpm at standard air - 0.075lbs. per ft³. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511, effective November, 1990.

		Model FLV - Free Area, ft ²							
		WIDTH							
HEIGHT		12"	24"	36"	48"	60"	72"	84"	96"
	12"	0.26	0.61	0.96	1.31	1.62	1.97	2.32	2.67
	24"	0.73	1.72	2.72	3.71	4.58	5.58	6.58	7.57
	36"	1.12	2.66	4.21	5.75	7.09	8.64	10.18	11.72
	48"	1.59	3.78	5.96	8.15	10.06	12.25	14.43	16.62
	60"	2.01	4.78	7.54	10.30	12.72	15.48	18.24	21.01
	72"	2.46	5.84	9.22	12.60	15.56	18.94	22.32	25.70
	84"	2.93	6.96	10.98	15.01	18.53	22.56	26.58	30.61
	96"	3.33	7.90	12.47	17.04	21.04	25.61	30.18	34.75

		Model MLV - Free Area, ft ²				
		WIDTH				
HEIGHT		12"	24"	36"	48"	60"
	12"	0.18	0.42	0.67	1.91	1.15
	24"	0.56	1.32	2.09	2.85	2.62
	36"	0.91	2.17	3.42	4.68	5.93
	48"	1.40	3.31	5.23	7.15	9.06
	60"	1.83	4.33	6.84	9.34	11.85
	72"	2.19	5.20	8.20	11.21	14.21
	84"	2.62	6.20	9.79	13.38	16.97
	96"	3.09	7.32	11.56	15.79	20.02

To determine the proper size FLV or MLV louver, follow the procedure given below.

1. Divide the required cfm by the maximum recommended free area velocity of 677 fpm.
2. Reference the appropriate free area table shown above and select the size louver that meets the minimum free area requirement.

Example:

Step #1.

$$\begin{aligned} \text{Minimum Free Area} &= \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} \\ &= \frac{5,000}{677} = 7.39 \text{ ft}^2 \end{aligned}$$

Step #2.

From the free area tables, the appropriate selections are:

- FLV3660 36" x 60" Fixed Louver
- MLV4848 48" x 48" Motorized Louver

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies.

Structural supports and mounting accessories are not supplied as standard by Fantech.