

Model FAL / EAL

Fresh Air & Exhaust Air Louvers

Introduction

KMC Air Louvers are designed for both intake and exhaust air service for commercial & Industrial applications.

The fresh air louver is used to supply fresh air to the buildings or Air Handling Units (AHU).

Louvers are designed and manufactured to be water proof for use in external applications. Blades are fixed and inclined downwards to protect against rain water.

Application

- Louvers are used for both air intake and air exhaust.
- Used in building internal and external applications for the intake of fresh air or exhaust of contaminated air.
- Weather resistant and suitable for use in external applications.

PRODUCT FEATURES

- Frame and Blade Constructed from 2mm thick extruded aluminum alloy 6063-T6 profiles.
- Fixed Louvers arranged horizontally and inclined down to 45°
- Suitable for external walls as well as screens
- Frame Flange width 30mm
- High free Area hence lower pressure drop

Options

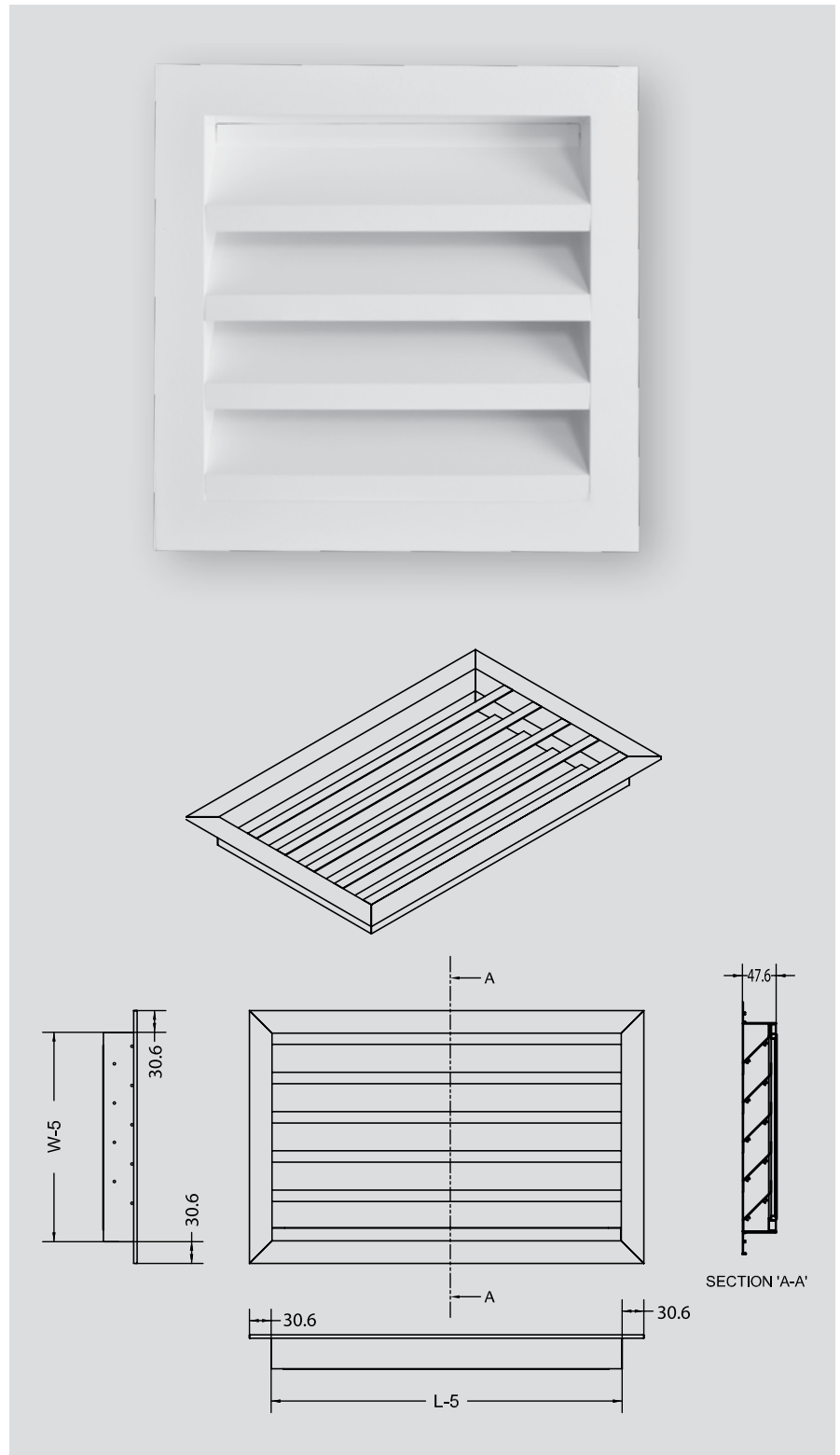
- Maximum single section upto 2400mm in height and 1800mm in width
- For larger sizes, multiple sections possible.
- Can be supplied with various insect and bird screens
- Optional – complete with Aluminum Pre-filters
- Powder Coated to RAL 9010 as standard
- Other powder coated Finishes available.
- Formed SS304 / SS316 construction

Selection Procedure

The proper selection of Louver depends on following three basic criteria:

- Louver Free Area
- Water penetration
- Resistance to Air flow

Please refer the selection example shown in the catalogue.



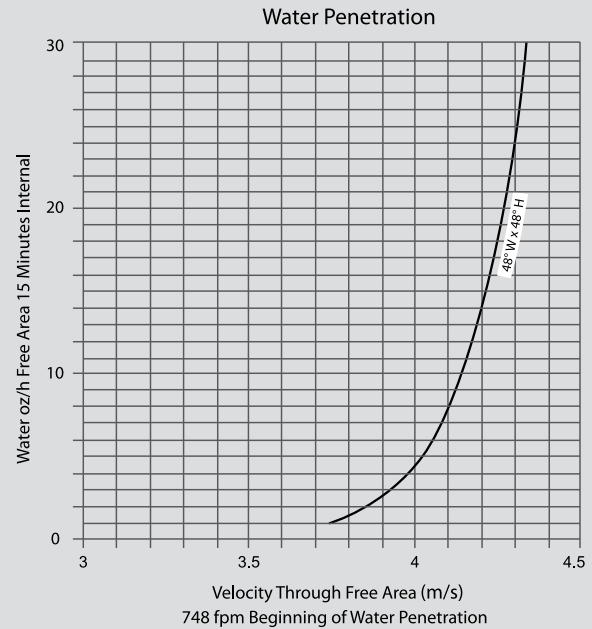
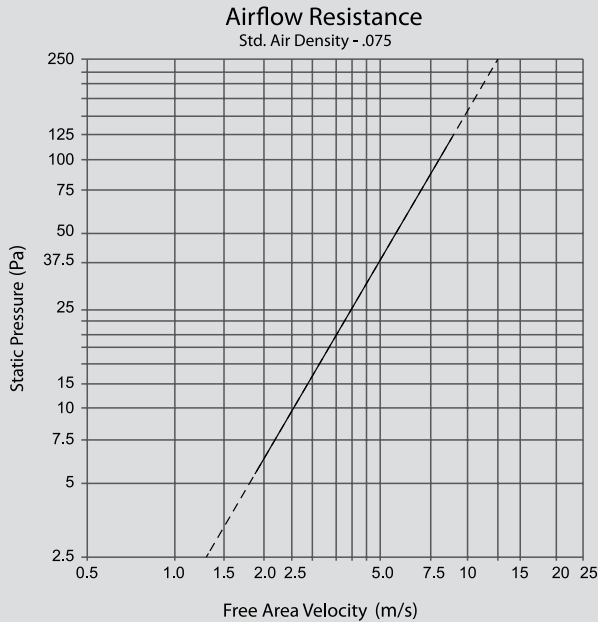
Product Selection Check List

- Select Unit size based on desired performance characteristics.
- Select Finish.

Pressure Drop

Water Penetration at maximum 3.5 m/s (700 fpm) Free area velocity
Free Area : 50% for 1200mm (48") (W) x 1200mm (48") (H) test size

Ratings do not include the effect of birdscreen



The given pressure drop chart is for 55% free Area, The pressure Drop for required 66% Free Area to be tested by Third Party independent labs by others.

Free Area in sq. mt

	WIDTH (mm)									
	mm	300	450	600	750	900	1050	1200	1350	1500
HEIGHT (mm)	300	0.028	0.044	0.060	0.076	0.091	0.107	0.123	0.139	0.155
	600	0.078	0.122	0.168	0.213	0.258	0.302	0.347	0.392	0.437
	900	0.118	0.186	0.254	0.321	0.389	0.457	0.525	0.593	0.660
	1200	0.162	0.255	0.348	0.441	0.534	0.626	0.719	0.812	0.906
	1500	0.204	0.321	0.439	0.556	0.673	0.791	0.909	1.026	1.144
	1800	0.244	0.384	0.524	0.664	0.804	0.945	1.085	1.225	1.365
	2100	0.292	0.460	0.628	0.797	0.965	1.133	1.301	1.469	1.637