ACOUSTIC LOUVRES
Acoustic Louvres are suitable in HVAC systems as noise barriers during air intake or discharge especially in AHU / generator rooms. Acoustic Louvres are designed to provide an acoustic barrier where ventilation apertures are required in a structure preventing noise from travelling either inside or outside the building. Louvre construction are available in Aluminum, Galvanized Steel, and Stainless Steel. They are suitable for duct or wall mounting installation or any application in various construction gauge to meet the most demanding application. We ensure the best available solution to meet your needs.

**FEATURES**

- Used for ventilation openings to minimize the excessive noise in generator rooms, AHU parking spaces
- Minimum pressure drop with maximum insertion losses
- Available in any cross-sectional size to suit specific applications
- Available in 100mm to 600mm depth to meet the specific noise reduction requirement
- Rugged construction yet visually appealing
- Optional wire mesh to keep birds and debris out
- Flanged face or butt joint design to suit the installation requirements

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*Model FT-ALG 300*  
*Model FT-ALG 600*
FLO TECH
AIR DISTRIBUTION SPECIALIST

FLOWTECH STANDARD CONSTRUCTION DETAILS

Frame
1.2mm roll formed galvanized sheet steel

Blade
Double skin blade outer face is of 1.0mm roll formed galvanized sheet steel and inner face is of galvanized perforated sheet steel material of 0.8mm.

Acoustic infill
The acoustic infill material is of fiberglass with 32kg/m³ density of thickness 25mm

Supports
Roll formed GI sheet steel angles

Finish
Galvanized finish® is Standard supply. Powder coated color finishes are optional.

Optional Fittings

Screen
Bird screen or fly screen is optional either rear or front

Filter
12 / 25 mm thick Aluminum Filter is optional

Damper
Damper Assembly is optional

TRANSMISSION LOSS (SOUND REDUCTION INDEX)

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<th>Type HZ</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
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<th>2k</th>
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PRESSURE LOSS PA

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<th>Face Velocity m/s</th>
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<th>1.5</th>
<th>2.0</th>
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PRES SURE LOSS

The pressure loss through the louvre is based on the Effective Face Velocity (EFV) and is calculated with the following formula:

\[
EFV \ (m/s) = \frac{\text{Airflow} \ (m^3/s)}{\text{Width} \ (m) \times \text{Height} \ (m) \times 0.3}
\]

Use the graph and the EFV to find the pressure loss through the louvre.

The selection of an inlet louvre with face velocity greater than 2m/s may compromise weather protection.
Acoustic louvre is normally supplied in sections when either of the following dimensions is exceeded.

Width - 1500  Height - 2400

Where louvres are in sections in both width and height, either provision for assembly at the site with mullion partition is provided or optional 40x40x3 galvanized vertical box section frame is supplied to couple together adjacent sections. Mounting frames are concealed behind a cover plate of material and finish to complement the louver.

The assembly of sectionalized louvre is in scope of Contractor. We will provide details of configuration and assembly.

**MULTIPLE SECTION ACOUSTIC LOUVRES**

![Diagram of Multiple Section Acoustic Louvres](image-url)
FLOW TECH
AIR DISTRIBUTION SPECIALIST

ORDERING SYSTEM

FT-ALG - W x H - BS - PC

- Powder Coating
- Bird Screen
- Height in mm or inches
- Width in mm or inches
- FT-ALG 300
- FT-ALG 600

ORDERING EXAMPLE

FT-ALG 300 - 36" x 20" - BS

Refers to Flowtech Acoustic Louvre FT-ALG 300 of size 36" (width) x 20" (height) with Bird Screen