Louvers for Air Cooled Heat Exchangers & Condensers

Manufactured by
**Ergo Plast Pvt. Ltd.**

**Regd. Office:** MF-104, Ajay Tower, E5/1 (Commercial), Arera Colony, Bhopal – 462 016 (MP) India

**Factory:** 83, Sector A, Industrial Area, Mandideep, Dist. Raisen (MP) India

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Ergo Plast Pvt. Ltd., set up in 1987, is a company owned and managed by experienced engineers.

We manufacture custom-made louvers for air cooled heat exchangers and condensers to serve oil, gas, petrochemical and power generating industries.

We aim to meet highest quality standards at competitive prices, adhering strictly to delivery schedules with innovative engineering and focused management.

We are a professional engineering company with strengths in mechanical and chemical engineering. We have a well-equipped factory located at Mandideep, district Raisen (near Bhopal), Madhya Pradesh, India.

We have a Technology Licensing Agreement with GEI Industrial Systems Limited to manufacture Aluminum Louvers for Air Cooled Heat Exchangers. GEI louvers are approved by Engineers India Limited, New Delhi.

We offer the complete range of manual and auto variable louvers manufactured by us and designed by GEI.
**Aluminum Louvers**

Aluminum louvers are used for precise control of process temperature for Air Cooled Condensers and Air Cooled Heat Exchangers.

Louvers conserve power by adjusting to variations in atmospheric temperature. In winter, air quantity can be reduced thereby reducing power consumption by fan.

Some fluids have low pour point which results in crystallization and/or freezing of heavy hydrocarbons especially during winter when air temperature is extremely low. Louvers are used for winterization application for sub-zero air temperatures.

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**Louver Actuation Options**

- Parallel Blade Action with External Actuation
- Parallel Blade Action with Internal Actuation
- Opposed Blade Action with External Actuation

**Material Options**

- Extruded Aluminum Blades and Frame
- Folded Sheet Aluminum Frame and Extruded Aluminum Blades
- Galvanized fabricated steel frame and blades

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**Technical Specifications**

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>Aluminum Frame (Extrusion)</td>
<td>6063-T6</td>
</tr>
<tr>
<td></td>
<td>Standard - 3 mm thickness</td>
</tr>
<tr>
<td></td>
<td>API 661 – 4 mm thickness</td>
</tr>
<tr>
<td>Aluminum Blades</td>
<td>6063-T6 Aluminum Extruded</td>
</tr>
<tr>
<td>Blade Pins</td>
<td>Stainless Steel : 304 / 316</td>
</tr>
<tr>
<td>Torque Tube</td>
<td>6063-T6 Aluminum</td>
</tr>
<tr>
<td>Actuator Rod</td>
<td>6063-T6 Aluminum</td>
</tr>
<tr>
<td>Actuator Lever Arm</td>
<td>6063/6061-T6 Aluminum</td>
</tr>
<tr>
<td>Blade to Arm Connection Link</td>
<td>6063/6061-T6 Aluminum</td>
</tr>
</tbody>
</table>

**Assembly Hardware**

- Cap Screws – SS 304 / 316
- Nuts & Bolts – SS 304 / 316
- Bearings – Teflon
**Design Features**

Louver blades are designed both for induced and forced draft applications. For forced draft application, the louver frame is made of Aluminum sections and for induced draft the frames are made of Carbon Steel.

Louvres are designed both for induced and forced draft applications. For forced draft application, the louver frame is made of Aluminum sections and for induced draft the frames are made of Carbon Steel.

Louvres can be either parallel blade or opposed action. An opposed action louver has a broader and more linear control range which can be effectively utilized with appropriate controllers.

Auto–variable louvers with pneumatic actuators, positioners, volume booster and I to P converter are offered. Alternatively, manual operations with either pneumatic controls or link mechanism to operate from the grade level of the air cooler are also offered.

### Options for Operation Systems

- Manual mechanical operated remote / field
- Pneumatic manually operated remote / field
- Double Action Actuators (opposed action blades)
- Smart electrical signal operated remote / field / feedback
- Electric (Solenoid) operated
- Auto Logic Controller
- Customized as per requirement

### Optional Services

- Repair of old louvers
- Sea-worthy packing
- CIF Delivery across the globe

### Optional Accessories

- Wire cloth bug screens
- Expanded metal hail-guards
- Remote operator mounts