

Louvers for Air Cooled Heat Exchangers & Condensers



Manufactured by
Ergo Engineers Pvt. Ltd.

(Formerly known as Ergo Plast Pvt. Ltd.)

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Ergo Engineers 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.

We offer the complete range of manual and auto variable louvers.



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.



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

Technical Specifications

Aluminum Frame (Extrusion)	6063-T6 Standard - 3 mm thickness API 661 – 4 mm thickness
Aluminum Blades	6063-T6 Aluminum Extruded
Blade Pins	Stainless Steel : 304 / 316
Torque Tube	6063-T6 Aluminum
Actuator Rod	6063-T6 Aluminum
Actuator Lever Arm	6063/6061-T6 Aluminum
Blade to Arm Connection Link	6063/6061-T6 Aluminum

Assembly Hardware

Cap Screws – SS 304 / 316

Nuts & Bolts – SS 304 / 316

Bearings – Teflon

Design Features



Louvers 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.

Louvers 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.

Louver blades are of extruded aluminum sections with special profile designed for minimum air leakage in fully closed condition. Teflon bushes are provided for each of the blade shaft to facilitate smooth opening and closing of louvers with least effort. Teflon bushes provide longer life to the operating mechanism of the louvers.

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

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.

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