



Air Curtain



www.acmastechnologies.com | www.acmas.in

Model No: ATI-AC

CE Marked Air Curtain

Model No: ATI-AC



Air Curtains create an "invisible door" by using laminar air flow, effectively separating the outdoor and indoor air temperatures or environment when the physical door is open.

Air curtains are aerodynamically designed equipment, generating a laminar stream of air with sufficient quantity & speeds to offer the desired environment protection through open doorways or service hatches.

Air Curtains Help

- To prevent cold air or warm air from entering in or going out
- Keep fresh air by preventing particulates, pollution, dust, insects etc.
- Reduces the heating energy loss
- Cold draughts elimination
- The **Air Curtain** enables traffic to flow unobstructed through door openings while maintaining distinct environments, thus resulting in energy savings.

The **Air Curtain** creates a uniform invisible barrier of high velocity air to divide different environments or clean, cool and/or dry various components or pieces.

Principle: Coanda effect

By utilizing the **Coanda effect** (wall attachment of high velocity fluid), air motion is created in its surroundings and ambient air is drawn in to produce a high velocity, high flow curtain of air for blowoff. This invisible "air-wall" is created that could also serve just as easily as a barrier preventing heated or conditioned air from leaving an area.

Construction:

- Outer body of our OBROMAX air curtains are made of thick epoxy powder coated mild steel sheet,
- high grade Kanthal A-1 wire energy efficient heating mantle are placed in tandem with heavy duty cross flow fan coupled with a superior low noise motor, which ensures a smooth performance with minimal hindrance and turbulence
- **Air curtains** consist of a **fan and nozzle** system which creates a jet of high-velocity air directed across a door opening, providing a protective air shield.
- The air shield minimizes the transfer of heat, moisture, dust, fumes and insects through the doorway.

- The **Air Curtain** fan adds kinetic energy to the air, providing resistance to the penetration of unwanted air or particles. This added kinetic energy in the discharge air also resists the penetration of outside air due to wind, as well as the invasion of insects. The air is provided at a critical velocity and volume flow as well as a discharge angle selected for its particular application.

Applications Areas:

- Industrial climate control
- Industrial oven openings
- Dust and Humidity Control
- Hard rock mines
- At commercial entrances
- Pest Control
- Cold storage
- Food product drying
- Can and Wine bottle drying
- Web cleaning and drying
- Environment separation

Commercial entrance Air Curtains are normally mounted horizontally instead of vertically above the door that keeps the unit out of the way and practically eliminates any chance of damage/accidents. During the heating season, the air stream should be directed slightly toward the outside and should never be obstructed by door operators or the door header. It is recommended that the **Air Curtain** fan motor be run continuously, since the power needed to operate it, is minimal.

For Pest Control: The powerful stream of air that is produced by Air Curtain is an excellent **deterrent** to insects. **Sanitation maintenance** applications require these **Air curtains** that prevent airborne insects from entering.

Air Velocity: 18-22 m/sec²

Model No	Actual Door height	Size(Actual effective width)
ATI-AC-600	300 mm	Size Door Width 600 mm
ATI-AC-900	300 mm	Size Door Width 900 mm
ATI-AC-1200	300 mm	Size Door Width 1200 mm
ATI-AC-1500	300 mm	Size Door Width 1500 mm
ATI-AC--1800	300 mm	Size Door Width 1800 mm

ACMAS Technologies Inc.



An ISO 9001:2000 Company

Sales Office: 312-313, Vardhman Capital Mall, L.S.C. 10, Gulabi Bagh, Delhi-110052, INDIA

Tel: +91-11-23654603 (M) +91-9313971681, 9311039044, 9555351619 Fax: +91-11-23654603 | Email: acmastechologies@gmail.com | obromax.delhi@gmail.com
www.acmastechologies.com | www.acmas.in