



AIR BARRIERS

RETAIL AIR BARRIERS

MICROSHIELD / COMFORTSHIELD / AIR BARIKADE
RETAIL / ENTRANCE / EXIT / PERSONNEL / FOOD PREP
COOLER / RECEPTIONS / DRIVE-THRU WINDOWS



Microshield Model Shown

AN ENERGY EFFICIENT TECHNOLOGY THAT SEALS OPEN DOORWAYS

Save up to 15 Units of Energy for Every One Unit of Energy Consumed by the Air Barrier!

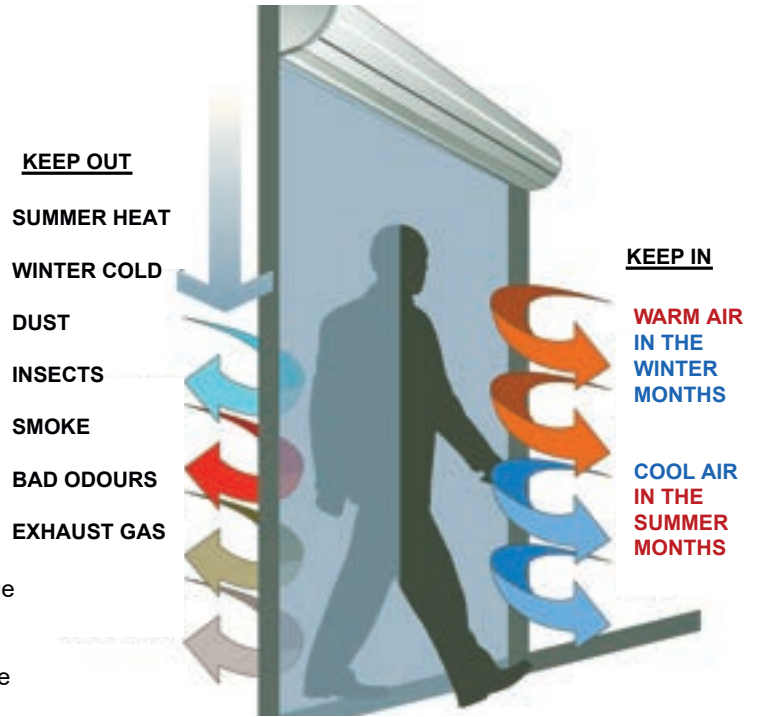
With the cost of energy continuing to rise, heating / cooling bills for your building are a major expense. For businesses that keep their doors open for passing foot traffic, these costs are even greater. Properly selecting a custom made Enershield Air Barrier that can create an efficient and effective seal is as important as the decision to install the technology. We design and custom build our units to perform in the toughest climates, hot or cold. We don't take any shortcuts when it comes to quality. There are varying Air Barrier concepts on the market claiming to be equal to the Enershield design, but when comparing feature to feature they fall well short.

MICROSHIELD AIR BARRIERS (MCS)

- Compact, economical, low-profile design is made for retail and personnel doorways.
- Available in various single module lengths - multiple units can be positioned in-line for larger width openings.
- Standard 230v plug-in units with 2 speed settings (high and low).
- Standard model includes switch for Automatic Activation.

BENEFITS & FEATURES

- Save Energy
- Enhance Comfort
- Stop Cold Drafts
- Keep Out Heat / Humidity
- Deter Dust & Insects
- Environmental Separation
- Maintain Indoor Temperatures
- Light weight
- Extremely Quiet
- Includes:
 - Automatic Activation Package
 - Keyed Switch
 - Mounting Brackets
 - Articulating Discharge Nozzle



Microshield Air Barrier Available Colors



Brushed Aluminum



Black



White

Open doors account for a considerable amount of the energy loss in a building. A correctly installed Air Barrier can seal off an open doorway, and reduce the heat loss through the door as much as 90%, translating into substantial energy savings, as well as a more comfortable environment for both employees and customers.

Enershield Air Barriers create an effective seal on the doorway by re-circulating the facility air in a laminar (smooth) flow across an open doorway. The kinetic energy in the moving air generates a barrier, like a waterfall, that prevents leakage of air between two areas with different pressure and climate. The more laminar this air flow, the harder it is for outside air to penetrate the barrier.

AIR BARRIER VS AIR CURTAIN

Air Barriers shouldn't be confused with a heated warm air curtain, whose primary objective is to provide warmth at open doorways. Without a proper seal, your expensively heated / air-conditioned air, along with the warm blast from a typical heated air curtain is immediately conveyed to the outside. Heated Air Curtains typically do not have the strength of air flow needed to create an effective seal on the door opening, they add heat to the airflow to temper the amount of cold air infiltrating through the door opening. Air Barriers create higher velocities and volumes to efficiently seal the door opening with ambient air, saving energy and money on operating costs.

| Model / Cabinet Length | Volts | Freq (Hz) | Max Input Power (W) | | Max Air Speed (m/s) | | Max Air Volume (m³/h) | | Noise (dB) | | Net Weight (Kg) |
|------------------------|-------|-----------|---------------------|-----|---------------------|-----|-----------------------|------|------------|-----|-----------------|
| | | | High | Low | High | Low | High | Low | High | Low | |
| Model MCS-36 900mm | 230 | 50 | 300 | 270 | 16 | 13 | 1100 | 900 | 52 | 49 | 16 |
| Model MCS-48 1200mm | 230 | 50 | 400 | 360 | 16 | 13 | 1500 | 1200 | 53 | 50 | 18 |
| Model MCS-72 1790mm | 230 | 50 | 600 | 540 | 16 | 13 | 2280 | 1800 | 57 | 55 | 26 |

Cabinet Dimensions (235mm H x 210mm W)

ENERSHIELD COMFORTSHIELD AIR BARRIERS (ECS)

- Ideal for applications with stronger prevailing winds or slight negative air conditions
- Available in various single module lengths - multiple units can be positioned in-line for larger width openings.
- Standard 240v but can be manufactured at various voltages.

BENEFITS

- Save Energy
- Enhance Comfort
- Stop Cold Drafts
- Keep Out Heat / Humidity
- Deter Dust & Insects
- Environmental Separation
- Maintain Indoor Temperatures

FEATURES

- Top / Front Air Intake
- Larger Fans
- Higher Nozzle Velocities
- Includes:
 - Variable Speed Controls
 - Articulating Discharge Nozzle
 - Automatic Activation
 - BMS Capabilities



Comfortshield Air Barrier - 12 Standard Available Colors

ENERSHIELD COMFORTSHIELD ADVANTAGE

The Comfortshield Air Barrier is an ideal solution for sealing open doors in facilities that have stronger prevailing winds or slight negative air issues. The rounded design is a blend of aesthetics and efficiency with larger fans and nozzle velocities. The Air Barrier should be installed as close to the top of the door header as possible so that the articulating discharge nozzle can be angled slightly outwards to offer more resistance to outside winds and temperatures.

The Comfortshield Air Barrier is designed for doorways that experience high volumes of foot traffic. In the cooler months the Comfortshield will recirculate facility air at higher velocities across the doorway at a smooth laminar air velocity to stabilise internal heated environments. In the warmer months the Air Barrier has the same effectiveness by stabilising internal air conditioned environments inside your facility saving you money year-round! The Comfortshield Air Barrier will also help deter insects and particulates (exhaust fumes) from entering through the door opening, improving the indoor air quality within your facility.

Applications include Shopping Centres, Recreational Facilities, Airports, Restaurants, Educational Facilities, Hospitals, etc.

| Model / Cabinet Length | Volts | Freq (Hz) | Max Input Power (W) | Max Air Speed (m/s) | Air Volume (m3/h) | Noise (dB) | Net Weight (Kgs) |
|------------------------|-------|-----------|---------------------|---------------------|-------------------|------------|------------------|
| Model ECS-36 912mm | 240 | 50 | 300 | 18 | 0.86 | 68 | 59 |
| Model ECS-48 1219mm | 240 | 50 | 300 | 18 | 0.86 | 68 | 63 |
| Model ECS-72 1826mm | 240 | 50 | 600 | 18 | 1.72 | 68 | 85 |
| Model ECS-96 2438mm | 240 | 50 | 750 | 18 | 2.2 | 68 | 109 |

Cabinet Dimensions (418mm H x 395mm W)

AIR BARIKADE AIR BARRIERS (AB)

- Ideal for applications with stronger prevailing winds or slight negative air conditions
- Available in various sin single module lengths- multiple units can be positioned in-line for larger width openings.
- Standard 240v units with variable speed control
- Unique Design seals the door opening with Air Barrier technology and includes and independent nozzle for added electric heat.

BENEFITS & FEATURES

- Save Energy
- Enhance Comfort
- Stop Cold Drafts
- Keep Out Heat / Humidity
- Deter Dust & Insects
- Environmental Separation
- Provides added Heat
- Maintain Indoor Temperatures
- Front Air Intake
- Larger Fans
- Independent Nozzles for Ambient and Heated Air Flows
- Includes:
 - Variable Speed Controls
 - Heater Switch and Thermostat
 - Articulating Discharge Nozzle
 - Automatic Activation
 - BMS Capabilities



Air Barikade Air Barrier - 2 Independent Nozzles of Air Flow

AIR BARIKADE ADVANTAGE

Now, we have developed an industry first and combined the advanced airflow technology in our air barrier with a revolutionary method of introducing heat generation to create the new Air Barikade. This patented technology uses separately generated individual air flows. The door activated high volume air barrier efficiently creates a seal to prevent the loss of heat energy, while a separate and heated airflow acts in parallel to provide warmth.

With these two airflows the innovative Air Barikade delivers an industry first where the sealing capability of an air barrier is delivered with the comfort of gentle space heating without the associated energy losses. Thermostatically controlled, the heated air flow can also be operated independently to provide fully controllable space heating for your building entrance.

With absolute synergy the Air Barikade provides a seal for energy and heat for comfort.

Applications include Shopping Centres, Recreational Facilities, Airports, Restaurants, Educational Facilities, Hospitals, etc.

| Model / Cabinet Length | Volts | Freq (Hz) | Max Input Power (W) | | Max Air Speed (m/s) | Air Volume (m3/h) | Noise (dB) | Net Weight (Kg) |
|------------------------|-------|-----------|---------------------|--------|---------------------|-------------------|------------|-----------------|
| | | | Blower | Heater | | | | |
| Model AB-36 914mm | 240 | 50 | 300 | 6000 | 18 | 0.87 | 68 | 46 |
| Model AB-48 1219mm | 240 | 50 | 450 | 6000 | 18 | 1.3 | 68 | 65 |
| Model AB-72 1829mm | 240 | 50 | 600 | 12000 | 18 | 1.73 | 68 | 98 |

Cabinet Dimensions (505mm H x 365mm W)

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