



AIR BARRIERS

# RETAIL AIR BARRIERS

MICROSHIELD / COMFORTSHIELD  
THERMALSHIELD / AIR BARIKADE

RETAIL / ENTRANCE / EXIT / PERSONNEL / FOOD PREP  
COOLER / RECEPTIONS / TAKE OUT WINDOWS



## AN ENERGY EFFICIENT TECHNOLOGY THAT SEALS OPEN DOORWAYS

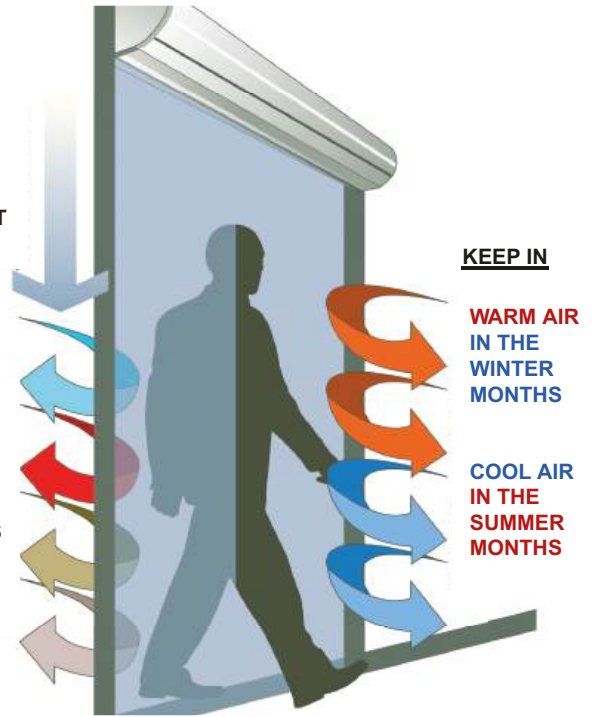
**Save up to 15 Units of Energy for Every One Unit of Energy Consumed by the Air Barrier!** With the cost of energy continuing to rise, heating / cooling bills for your building are a major expense. For businesses that keep their doors open for passing foot traffic, these costs are even greater. Properly 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.
- Available in multiple voltages with two speed settings - high & low
- Standard model includes remote and a magnetic reed switch for Automatic Activation.

### BENEFITS & FEATURES

- Save Energy
- Enhance Comfort
- Stop Cold Drafts
- Keep Out Heat / Humidity
- Deter Dust & Insects
- Environmental Separation
- Light weight
- Extremely Quite
- 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.

### 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. Air Curtains typically do not have the velocity or volume 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 operate at higher velocities and volumes to efficiently seal the door opening with ambient air, saving energy and money on operating costs.

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.

Model / Cabinet Length	Voltage	Freq	Max Input Power (W)		Max Air Speed (m/s) / (fpm)		Max Air Volume (m³/s) / (cfm)		Noise (dB)		Net Weight (Kg / Lbs)
			High	Low	High	Low	High	Low	High	Low	
Model MCS-36 (902mm / 36in)	120/220	50/60 Hz	300	270	16 / 3150	13 / 2500	0.31 / 647	0.25 / 530	52	49	16 / 36
Model MCS-48 (1200mm / 48in)	120/220	50/60 Hz	400	360	16 / 3150	13 / 2500	0.41 / 883	0.33 / 706	53	50	18 / 39.6
Model MCS-72 (1791mm / 72in)	120/220	50/60 Hz	600	540	16 / 3150	13 / 2500	0.63 / 1340	0.50 / 1060	57	55	26 / 57.2

Cabinet Dimensions (H 235mm / 9.25" x 210mm / 8.25" 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.
- Available in multiple voltages with variable speed settings

### 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
  - BAS Capabilities



Enershield Comfortshield Air Barrier - 12 Standard Available Colors

### 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 across the doorway at a smooth laminar velocity to keep the outside temperatures from entering your facility and your indoor temperatures from leaving the facility. In the warmer months the Air Barrier has the same effectiveness by keeping the warm or humid temperatures out and the cool conditioned air inside your facility saving you money year-round!

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

Model / Cabinet Length	Voltage	Freq	Max Input Power		Max Air Speed		Max Air Volume		Noise	Net Weight
			hp	kW	m/s	fpm	m <sup>3</sup> /s	cfm		
Model ECS-36 (912mm / 36in)	208/220	50/60	0.4	0.3	18	3550	0.86	1825	68	59 / 130
Model ECS-48 (1219mm / 48in)	208/220	50/60	0.4	0.3	18	3550	0.86	1825	68	63 / 138.9
Model ECS-72 (1826mm / 72in)	208/220	50/60	0.8	0.6	18	3550	1.72	3650	68	85 / 187.4
Model ECS-96 (2438mm / 96in)	208/220	50/60	1.0	0.75	18	3550	2.2	4650	68	109 / 240.3

Cabinet Dimensions (H 418mm / 16.5" x 395mm / 15.6" W)



## ENERSHIELD THERMASHIELD AIR BARRIERS (TS)

- Ideal for applications that are looking to add supplemental heat.
- Available in various single model lengths - multiple units can be positioned in-line for larger width.
- Available with variable speed settings.

### 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
  - Can be utilized with the Heater On or Off.
  - Provides year-round energy savings.
- Can incorporate a T-Stat for temperature control.

- Includes:

- Variable Speed Controls
- Articulating Discharge Nozzle
- Automatic Activation
- BAS Capabilities



Enershield Thermashield Air Barrier - Available in Brushed Aluminum



### THERMASHIELD ADVANTAGE

The Thermashield is an electrically heated Air Barrier ideal for areas with inadequate heat and issues with outside air infiltration. The Thermashield can help to seal an opening while circulating heat to a troubling area for additional comfort. This Air Barrier can help to supply heat to areas by a doorway or opening in the colder climates and can operate without the heat in the warmer weather providing you with an efficient seal year round. Adding heat may not always be the answer but in situations that require additional heat the Thermashield will provide you with the solution you are looking for. It's sleek and aesthetic design fit into any surrounding and its light weight allows for easy installation with minimal structural requirements. The Thermashield is the hottest Air Barrier on the market.

Applications include Retail Facilities, Recreational Facilities, Restaurants, Educational Facilities, Drive-thru windows, Office or Residential buildings.

Model / Cabinet Length	Voltage	Freq	Max Input Power		Max Air Speed		Max Air Volume		Noise	Net Weight
			Hz	hp	kW	m/s	fpm	m <sup>3</sup> /s		
Model TS-24 (600mm / 24in)	208/220	50/60	0.4	0.3	18	1870	0.86	650	53	15 / 33
Model TS-36 (900 mm / 36in)	208/220	50/60	0.4	0.3	18	1870	0.86	940	57	17 / 37
Model TS-48 (1200mm / 48in)	208/220	50/60	1.2	0.9	18	1870	1.72	940	57	17 / 37
Model TS-72 (1800mm / 72in)	208/220	50/60	1.6	1.2	18	1870	2.2	1940	60	27 / 59

Cabinet Dimensions (H 418mm / 16.5" x 395mm / 15.6" W)

## AIR BARIKADE AIR BARRIERS (AB)

- 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.
- Available in multiple voltages with variable speed settings
- Unique Design seals the door opening with Air Barrier technology and includes an independent nozzle for added 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:
  - Keyed Switch
  - Mounting Brackets
  - Articulating Discharge Nozzle
  - BAS Capabilities



Air Barikade Air Barrier - 2 Independent Nozzles

### AIR BARIKADE ADVANTAGE

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	Voltage	Freq	Max Input Power		Max Air Speed		Max Air Volume		Noise	Net Weight
			kW	hp	m/s	fpm	m <sup>3</sup> /s	cfm		
Model AB-36 (914mm / 36in)	208/220	50/60 Hz	6.3	8.4	18	3550	0.87	1840	68 dB	46 / 101.4 kg / lbs
Model AB-48 (1219mm / 48in)	208/220	50/60 Hz	6	8	18	3550	1.3	2750	68 dB	65 / 143.3 kg / lbs
Model AB-72 (1828mm / 72in)	208/220	50/60 Hz	12.6	16.8	18	3550	1.73	3680	68 dB	98 / 216.1 kg / lbs

Cabinet Dimensions (H 505mm/19.9" x 363mm/14.3 W)

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Think Efficient, Think Effective, Think ENERSHIELD!