



ENERSHIELD

ENERGY SAVING AIR BARRIERS

THINK EFFICIENT, THINK EFFECTIVE, THINK ENERSHIELD

SEALING OFF ANY OPEN DOORWAY WITH AIR BARRIER TECHNOLOGY IS THE FIRST STEP TO EFFICIENT SAVINGS.

With the cost of energy continuing to rise, heating and cooling bills for your building are a major expense. For businesses that keep their doors open to offer an open and inviting business for passing foot traffic (potential customers), 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 are a Canadian based manufacturer that designs and custom builds 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 criteria, but when comparing feature to feature they fall well short of anything that **Enershield** manufactures.



Available in brushed aluminum, black, or white.

*Mounting brackets included

The compact, economical, low-profile Microshield design is made for retail and personal doorways. Units come in 3, 4, and 6 feet lengths - multiple units can be positioned in-line for larger width openings. Standard 110v plug-in units with 2 speed settings (high and low).

* Automatic activation is available. Note - this option removes remote control capabilities.

View our complete line of retail and industrial Air Barriers at WWW.ENERSHIELD.CA

MICROSHIELD

Cabinet Dimensions (9 1/4" H x 8 3/4" W)

Model / Cabinet Length	Volts ()	Freq (Hz)	Max input Power (W)		Max air speed (m/s)/(ft/m)		Air volume (m3/h)/(cfm)		Noise (dB)		Net weight Kg/lbs
			High	Low	High	Low	High	Low	High	Low	
MCS-36 900mm/35.5in.	110/120	60	300	270	16/3150	13/2500	1100/647	900/530	52	49	16/35.2
MCS-48 1200mm/47in.	110/120	60	400	360	16/3150	13/2500	1500/883	1200/706	53	50	18/39.7
MCS-72 1790mm/70.5 in	110/120	60	600	540	16/3150	13/2500	2280/1340	1800/1060	57	55	26/57.2



You can save up to 15 units of energy for every one unit of energy consumed by the Air Barrier.



CSA Group



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HOW AN AIR BARRIER WORKS

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 should not be confused with a heated warm air curtain, whose primary design objective is to provide warmth at an open doorway. Without a proper seal over an open door, your expensively heated or air-conditioned air, along with the warm blast from a typical heated air curtain is immediately conveyed to the outside. A typical 8kw air curtain, operating 8 hours per day, 5 days per week will consume in excess of \$1200 of electricity over 6 months. Under the same conditions an **Enershield** unit will consume \$80 of electricity for the entire year.



AIR FLOW

The design re-circulates facility air in a smooth laminar/uniform flow, creating up to a 90% seal on the doorway

WINTER COLD

SUMMER HEAT

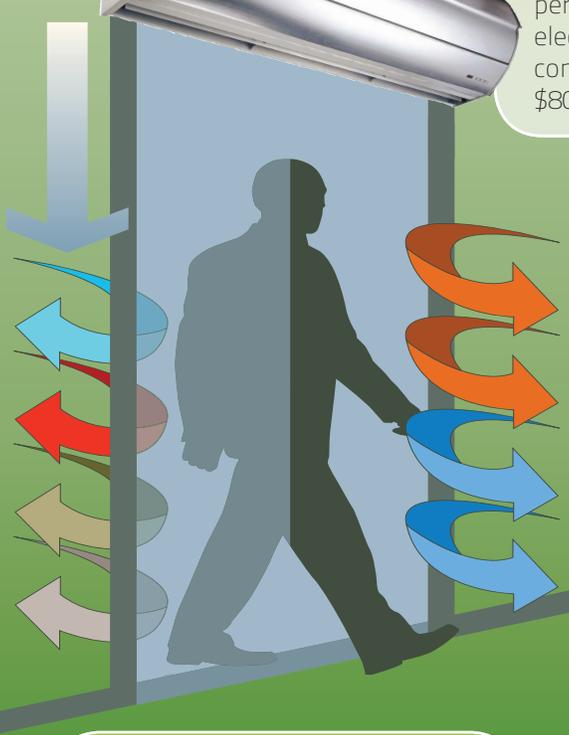
DUST

INSECTS

SMOKE

BAD ODOURS

EXHAUST GAS



WARM AIR

keeps heated air inside during the winter

COOL AIR

keeps cooled air inside during the summer

Advantages over Competition

- REDUCED INSTALL COSTS straight plug-in (brackets included)
- AESTHETIC & QUIETER air intake on top

SAVE ENERGY! - Most businesses find that the Air Barrier pays for itself in 1-2 years.

MICROSHIELD APPLICATIONS

- ENTRANCE / EXIT
- PERSONNEL / RETAIL DOORS
- FOOD PREP / COOLERS / FREEZERS
- TAKE OUT WINDOWS

SAVINGS AND COMFORT

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 which results in increased productivity and profits.

BENEFITS

- SAVE ENERGY
- ENHANCE COMFORT
- STOP COLD DRAFTS
- KEEP OUT HEAT / HUMIDITY
- DETER DUST & INSECTS
- ENVIRONMENTAL SEPARATION

