



AIR BARRIERS

COMMERCIAL / INDUSTRIAL AIR BARRIERS

DURASHIELD / DURASHIELD HD / ULTRASHIELD / XTREMESHIELD
SHIPPING & RECEIVING DOORS / SERVICE BAYS
COOLERS / FREEZERS / FOOD PREP / MANUFACTURING
WAREHOUSE & DISTRIBUTION



DS-96 Model Shown

AN ENERGY EFFICIENT TECHNOLOGY THAT SEALS OPEN DOORWAYS

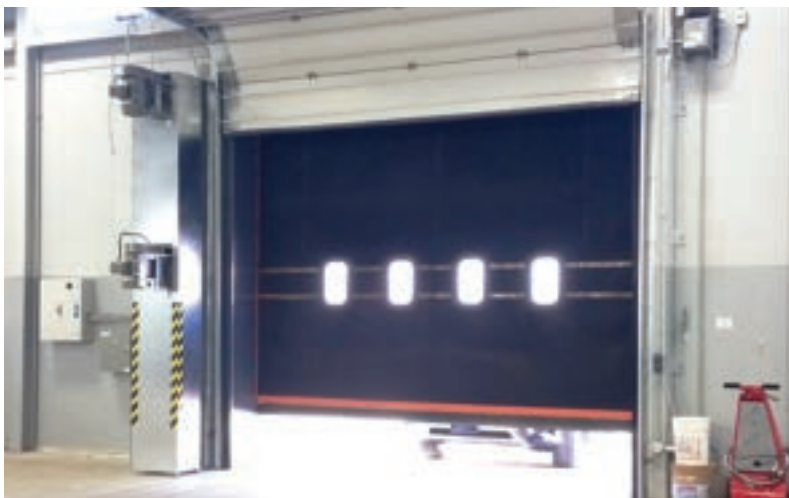
Save up to 15 Units of Energy for Every One Unit of Energy Consumed by the Air Barrier!

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 to allow frequent movement of products and people, 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 features and performance they fall well short.



DSH-144 Model Shown

LEADERS IN THE INDUSTRY, INNOVATORS IN THE TECHNOLOGY



Both Vertical and Horizontal installations available - Vertical Air Barrier shown above.

BENEFITS

- Save Energy
- Enhance Comfort
- Keep Out Heat / Humidity
- Deter Dusts & Insects
- Stop Cold Drafts
- Environmental Separation
- Improve Safety
- Increase Productivity

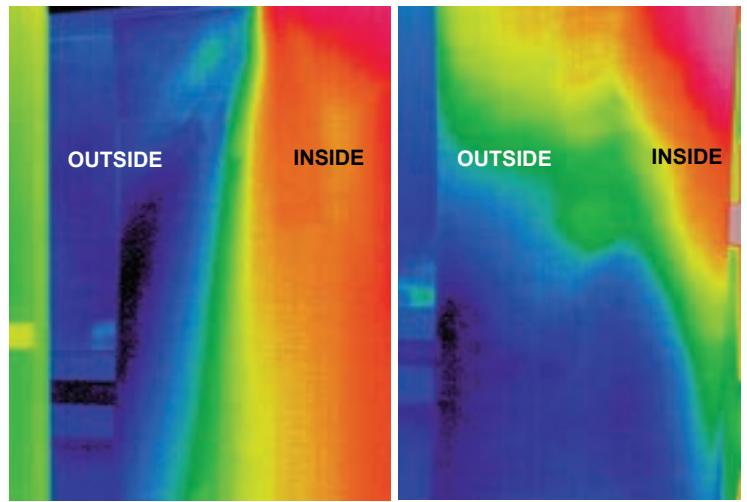
A CORRECTLY INSTALLED AIR BARRIER CAN SEAL OFF AN OPEN DOORWAY AND REDUCE THE HEAT / AC ENERGY LOSS BY AS MUCH AS 90%.

AIR BARRIER VS. HEATED AIR CURTAIN

Air Barriers should not be confused with a heated warm air curtain, with a primary design objective 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. Air Curtains typically do not have the velocity or volume of air needed to create an effective seal on the door opening, they add heat to the airflow to condition the amount of cold air that's infiltrating through the door opening. Enershield Air Barriers operate at higher velocities and volumes with the strength to efficiently seal the door opening with ambient air, saving energy and money on operating costs.

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) air 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 ON

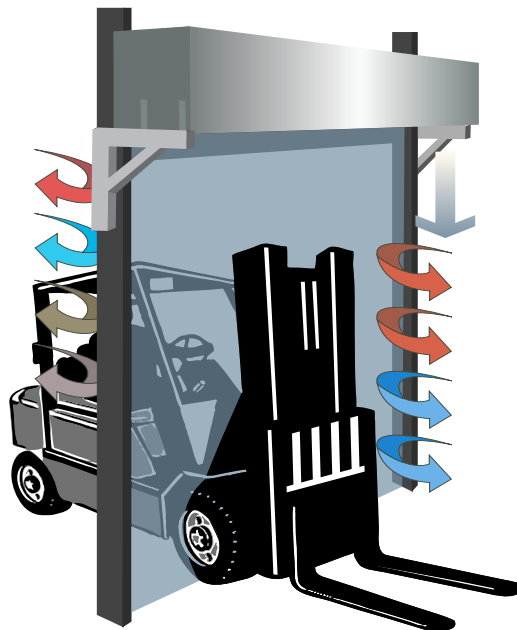
AIR BARRIER OFF

SAVINGS & 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 (and air conditioning) loss through the door as much as 90%, translating into substantial energy savings, as well as creating a more comfortable environment for both employees and customers – when employees are more comfortable, they tend to be more productive. When customers are more comfortable, they tend to stay longer and spend more, resulting in increased profit! Enershield Air Barriers have also been proven beneficial in certain manufacturing and packaging processes where a contaminant free environment and/or temperature stability are critical.

KEEP OUT

- SUMMER HEAT
- WINTER COLD
- DUST
- INSECTS
- SMOKE
- BAD ODORS
- EXHAUST GAS



KEEP IN

AIR FLOW

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

WARM AIR

Keeps heated air inside during the cooler months

COOL AIR

Keeps cooled air inside during the warmer months



ADVANTAGES OF UTILIZING ENERSHIELD AIR BARRIERS

- UKCA / CE Certified Manufacturing facility of the highest quality.
- Powder coated steel frame construction and sheet metal jacket provide a rigid, corrosion resistant unit to withstand even the harshest environments.
- Acoustic insulation allows for quiet operation.
- Uniform and consistent spacing of blowers, external motor placement on larger units along with patented unique diffuser gives the required laminar air flow to efficiently seal the door.
- Telescopic sliders and wall brackets that are provided allow for ease of install / retrofit on most doors.
- Control panel incorporates Photo cell switch which allows for automatic activation upon door opening.
- Custom manufacturer, each order is designed and customized for your application.
- Enershield Air Barriers can be mounted horizontally or vertically.



Enershield Commercial & Industrial Air Barriers - Additional Models available

For Climate Control up to 3.m High
Direct Drive Motors (1ph) - Cabinet (508mm H x 432mm D)

Durashield	DS-72	DS-96	DS-120	DS-144	DS-168	DS-192
Air Velocity (m/s)	23	23	23	23	23	23
Air Volume (m ³ /s)	4	5.33	6.66	8	9.33	10.66
Motor Electrical Power (kW)	1.05	1.4	1.75	2.1	2.45	2.8
Weight Kg	136 Kg	181 Kg	227 Kg	272 Kg	318 Kg	363 Kg

For Climate Control up to 3.6m High
Belt Drive (3ph) - Cabinet (508mm H x 432mm D)

Durashield-HD	DSH-96	DSH-120	DSH-144	DSH-168	DSH-192
Air Velocity (m/s)	28	28	28	28	28
Air Volume (m ³ /s)	6.09	7.61	9.13	10.65	12.18
Motor Electrical Power (kW)	4	5.5	8	8	8
Weight Kg	231 Kg	295 Kg	393 Kg	412 Kg	460 Kg

For Climate Control up to 5.4m High
Belt Drive (3ph) - Cabinet (559mm H x 483mm D)

Ultrashield	US-120	US-144	US-168	US-192	US-216	US-240
Air Velocity (m/s)	33	33	33	33	33	33
Air Volume (m ³ /s)	9.38	11.26	13.13	15.01	16.88	18.76
Motor Electrical Power (kW)	7.5	11	11	15	15	15
Weight Kg	363 Kg	490 Kg	523 Kg	579 Kg	630 Kg	699 Kg

For Climate Control up to 8m High
Belt Drive (3ph) - Cabinet (600mm H x 559mm D)

Xtremeshield	XS-120	XS-150	XS-180	XS-210	XS-240
Air Velocity (m/s)	38.1	38.1	38.1	38.1	38.1
Air Volume (m ³ /s)	11.24	14.05	16.87	19.68	22.48
Motor Electrical Power (kW)	11	15	22	22	22
Weight Kg	408 Kg	483 Kg	599 Kg	709 Kg	798 Kg

Model number reflects approximate cabinet length in inches

Velocities & Volumes are based on Maximum outputs

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