



ENERGY SAVING AIR BARRIERS



THINK EFFICIENT, THINK ENVIRONMENT, THINK ENERSHIELD



Creates up to a 90% seal on open doors by recirculating facility air

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What is an air barrier?

The **Enershield** air barrier creates a “*virtual door*” by re-circulating ambient air and forcing it across an opening to create up to a **90%** seal. The seal separates the atmospheres on either side and stops the transfer of temperature, humidity, dust, odours and insects. With just a draught of air creating the barrier, vehicles and pedestrians can pass without obstruction.

Air Barrier v. 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. Traditionally a typical 5Kw air curtain will operate 8 hours per day, 5 days per week will consume in excess of £1,000 of electricity per annum. Under the same conditions an **Enershield** unit will consume £60 of electricity per annum.

Power is everything

Enershield Air Barriers are designed to deliver the correct volume of air at the correct speed to achieve a seal across the entire opening. Check our airflow specifications and then see how other products compare. If there isn't the right airflow, it won't create the essential seal.



**Plus 14°C inside and minus 23°C outside.
Only 1°C lost after one hour with the door open.**

Why Enershield?

SAVE ENERGY. Selection of the right air barrier is as crucial as the decision to install the technology in the first place.

The **Enershield** is UK manufactured to a Canadian design and it is built to perform in the toughest climates, hot or cold. Build quality and performance guarantees are industry leading.

Powder coated steel frame construction and sheet metal jacket provide a rigid, corrosion resistant unit to withstand even the harshest environments. Stainless steel casings can be specified.

Typically our units are unheated, although heating can be included where required.

For every unit of energy that your **Enershield** consumes, it will save approximately 15 units of energy.

EFFECTIVELY SEAL AN OPEN DOOR WAY

The Benefits

Save energy: Escalating energy costs mean rising fuel bills. Where doors are opening and closing frequently or always open due to high volume of traffic or to present a welcoming approach to customers then your heating costs will be a major and increasing expense.

Enhanced comfort for employees and customers. Keeps the outside air out and the inside air in, maintaining the warmth of your heating in winter and the coolness of your air-conditioning in the summer.

Atmospheric separation. In other words: airborne problems like dust, insects, smoke, traffic fumes and odours are all prevented from passing through the **Enershield**.

Reduced demand on your heating and air-conditioning systems reduces servicing costs and increases their life expectancy.

With reduced energy consumption, typical installations provide a payback of less than 2 years.

Stylish, aesthetic and unobtrusive design.

Improved safety and accessibility with unobstructed doorways and unrestricted access.

Increased comfort gives improved productivity.

Control of contaminants gives improved production quality.

Stabilised temperature gives improved production quality.

Applications

Warehouse and manufacturing facilities –

shipping/receiving doors, loading bays and workshops

Food production –

temperature control, environmental separation, insect or odour control

Retail outlets –

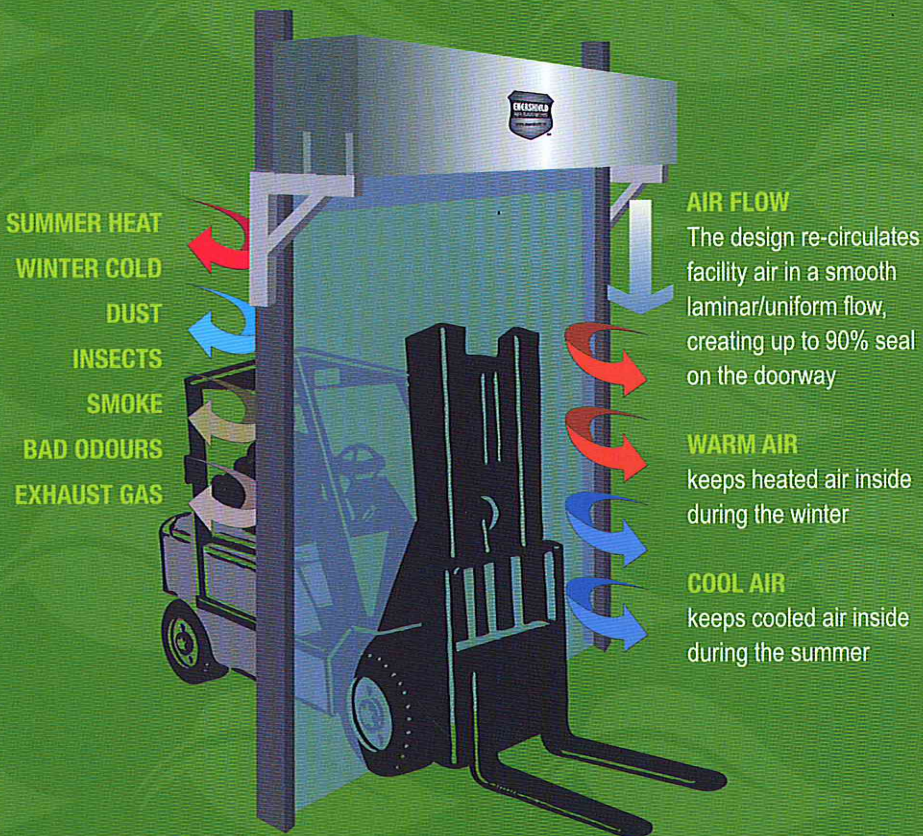
loading bays, store entrances & exits, comfort control

Freezer rooms –

for maintenance of controlled temperatures and prevention of frost build up.

Waste processing –
for odour containment.

Typical Installation



CASE STUDY



BEFORE ENERSHIELD IS FITTED



3 MONTHS AFTER ENERSHIELD IS FITTED

Freezer Room Installation

The air barrier prevents warm, moisture laden ambient air from entering. Increasing efficiency and preventing frost build up.



Enershield Air Barriers Model Range

Microshield (MCS)

for climate control on openings up to 2.4m high.

Not recommended for doors facing a high wind velocity. Designed for pedestrian traffic.

	MCS-36	MCS-48	MCS-72
Air Velocity (mps) High / Low	16/12.7	16/12.7	16/12.7
Air Volume (lps) High / Low	305/250	416/333	632/500
Motor(s)(w)	2@150w	2@150w	3@150w
Weight kg	16	18	26
Noise level (dB) High setting	52	53	57
Low setting	49	50	55

Comfortshield (CS)

for climate control on openings up to 2.7m high. Designed for pedestrian traffic.

	CS-36	CS-48	CS-72	CS-96
Air Velocity(fpm)(m/s)	4200/21.5	4200/21.5	4200/21.5	4200/21.5
Air Volume(cpm)(l/s)	4100/1935	4100/1935	6150/2900	8200/3870
Motor(s)(w)	2@370w	2@370w	3@370w	4@370w
Weight lbs/kg	150/68	170/77	246/112	300/136

Durashield (DS) for climate control on openings up to 3m high.

	DS-72	DS-96	DS-120	DS-144	DS-168	DS-192
Air Velocity(fpm)(m/s)	4500/23	4500/23	4500/23	4500/23	4500/23	4500/23
Air Volume(cpm)(l/s)	8475/4000	11,300/5333	14,125/6666	16,950/8000	19,775/9333	22,600/10,666
Motor(s)(w)	3@370w	4@370w	5@370w	6@370w	7@370w	8@370w
Weight lbs/kg	300/136	400/181	500/227	600/272	700/318	800/363

Durashield HD (DSH) for climate control on openings up to 3.6m high.

	DSH-96	DSH-120	DSH-144	DSH-168	DSH-192
Air Velocity(fpm)(m/s)	5500/28	5500/28	5500/28	5500/28	5500/28
Air Volume(cpm)(l/s)	12,900/6088	16,125/7610	19,350/9132	22,575/10,654	25,800/12,176
Motor(s)(kw)	1@3.7	1@5.5	2@3.7	2@3.7	2@3.7
Weight lbs/kg	510/231	650/295	865/393	905/412	1012/460

Ultrashield (US) for climate control on openings up to 5.4m high.

	US-120	US-144	US-168	US-192	US-216	US-240
Air velocity(fpm)(m/s)	6500/33	6500/33	6500/33	6500/33	6500/33	6500/33
Air volume(cfm)(l/s)	19,875/9380	23,850/11,256	27,825/13,132	31,800/15,008	35,775/16,884	39,750/18,760
Motor(s)(Kw)	1@7.4	2@5.5	2@5.5	2@7.4	2@7.4	2@7.4
Weight lbs/kg	800lbs/363Kg	1080lbs/490Kg	11530lbs/523Kg	1276lbs/579Kg	1388lbs/630Kg	1542lbs/699Kg

Xtremeshield for climate control on openings up to 8m high.

	XS-120	XS-150	XS-180	XS-210	XS-240
Air velocity(fpm)(m/s)	7500/38.1	7500/38.1	7500/38.1	7500/38.1	7500/38.1
Air volume(cfm)(l/s)	23,825/11,244	29,781/14055	35738/16,866	41,694/19,677	47,650/22,488
Motor(s)(Kw)	1 @ 11	1 @ 15	2 @ 11	2 @ 11	2 @ 11
Weight lbs/kg	900lbs/408Kg	1065lbs/483Kg	1320lbs/599Kg	1564lbs/709Kg	1760lbs/798Kg

Megashield (MGS) for climate control on openings up to 11.5m high.



Enershield Europe

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