

MASTERVEIL

The art of invisible doors

UK Sales and service supplied by:

HULTSTEINS



Saving carbon and costs since 1962

About Masterveil:

Founded during the late 1980's on a commitment to the "Art of Invisible Doors," Masterveil has established itself as a premier European specialist in high performance air curtain technology. With a legacy spanning over 35 years, the company has evolved from a niche provider into an international leader in climate separation for the most demanding environments, including cold storage, industrial logistics, and retail.

The history of Masterveil is defined by a shift away from traditional heated air fans toward precision engineering. Its growth was fuelled by the development of proprietary, patented technologies like Airstop® and Powerstream®. These innovations utilise a "knife-jet" nozzle design to create a high pressure, low volume air barrier that is significantly more energy efficient than standard models.

Throughout its history, Masterveil has maintained a strong focus on durability exemplified by documented installations from the mid 1990's that remain operational today. Masterveil utilise data driven design, often collaborating with academic institutions like the University of Ghent to refine their airflow models. Today, headquartered in Belgium with a presence in the Netherlands, Germany and the UK, Masterveil continues to set industry benchmarks by focusing on the "zero point" of thermal protection, ensuring maximum climate control with minimal energy consumption.

Benefits of Masterveil Air Curtains:

- **Thermal Barrier Efficiency:** Unlike standard fans, Masterveil's high-pressure "knife-jet" technology prevents up to 80% of energy loss through open doorways.
- **Low Power Consumption:** By using low volume, high velocity air, the systems provide superior protection while drawing significantly less electricity than traditional high-volume blowers.
- **Rapid ROI:** The reduction in refrigeration load typically allows the system to pay for itself through energy savings alone within a short operational window.
- **Ice & Condensation Prevention:** In cold storage environments, Masterveil systems eliminate fog and ice buildup on floors and ceilings, drastically reducing slip and fall hazards.
- **Unobstructed Sightlines:** By creating an "invisible door," operators maintain 100% visibility for forklift traffic and personnel, reducing the risk of collisions associated with physical PVC strips or high-speed doors.
- **Elimination of Physical Barriers:** No more damaged strip curtains or slow-moving mechanical doors that hinder workflow and require constant maintenance.
- **Stable Internal Temperatures:** Maintain strict temperature zones even in high traffic areas, ensuring the integrity of perishable goods and pharmaceutical products.
- **Contaminant Defence:** The high velocity air shield acts as a barrier against dust, insects, odours, and airborne pollutants, keeping clean zones truly clean.
- **Employee Comfort:** By shielding the interior from external drafts and humidity, you create a more stable and comfortable working environment for staff.
- **Decades Long Lifespan:** Built with industrial grade materials, Masterveil units are renowned for their longevity, with many systems remaining fully operational after 25+ years of service.
- **Minimal Maintenance:** With no moving mechanical parts in the doorway and high-quality fan components, the systems require significantly less upkeep than traditional door solutions.

LamiFlow Airshield Truck Air Curtains

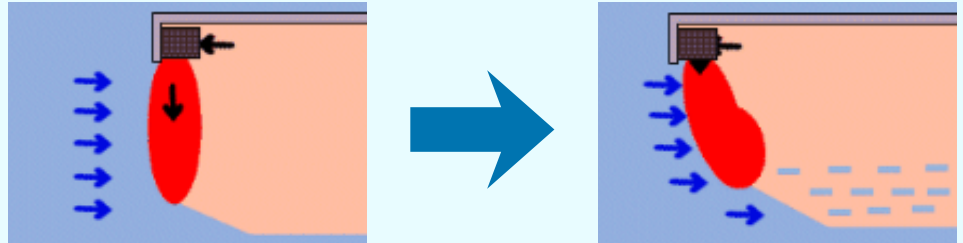
LamiFlow Airshield truck air curtains are suitable for body widths of 1M- 2.5M and are constructed of embossed aluminium skins. They are only 97mm high, 300mm wide and have a very low weight of 2.5kgs per meter.

They will use 1 or 2 high speed brushless induction fans (Dependent on width). These fans are rated at around 40,000 hours of run time and are virtually maintenance-free.

This reduces the loss of air from the body by 60% to 80% (if no other device is fitted to prevent air loss). This significantly reduces the energy to maintain body temperature during multi drop operations. It allows drivers to work efficiently without the obstruction of traditional plastic strip curtains, ensuring a faster, safer and more hygienic logistics process.

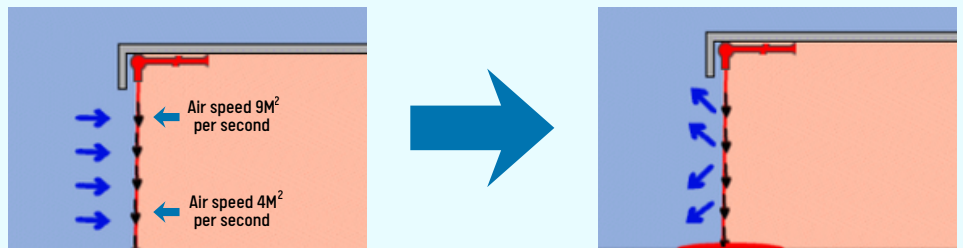
Standard Air Curtain

While a standard air curtain is easily affected by external influences.



Masterveil Airstop Air Curtain

Our system creates an AIRSHEILD. Special nozzles with knife jet technology provide high efficiency and effective air control in different temperature zones.



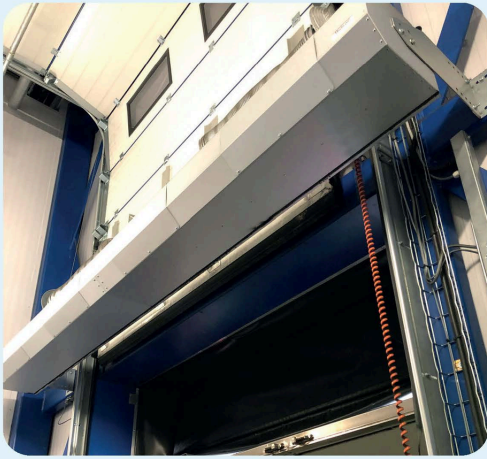
Visit the LamiFlow Air Curtain
Webpage here!

Airstop®

The Airstop® system by Mastervel represents a paradigm shift in climate separation, moving away from traditional high volume “blowers” towards precision engineered air shielding. At its core is the patented “knife-jet” technology, which creates a high velocity, laminar air stream that acts as a near impenetrable invisible barrier. Unlike standard air curtains that create turbulent, inefficient air movement, Airstop® focuses a thin powerful ribbon of air to neutralize pressure differences between two environments.

This “zero-point” calibration ensures that whether it is a heated warehouse or a sub-zero cold store, the internal climate remains stable even when doors stay open for extended periods.

On average our customers save up to 80% of their cold air with Airstop® compared to having no air curtain in place.



Visit the Airstop AC1000
Webpage here!



Visit the Airstop ASK
Webpage here!

Key Benefits:

1. Massive Energy Savings

The patented “knife-jet” technology creates a high-pressure seal that prevents up to 80% of energy loss through open doorways. By neutralizing pressure differences, it drastically reduces the load on HVAC and refrigeration systems, leading to a rapid return on investment.

2. Total Operational Safety

By replacing physical barriers like PVC strips or slow-moving doors, Airstop® provides 100% unobstructed visibility. This eliminates collision risks for forklift drivers and personnel while preventing hazardous ice and condensation buildup on floors.

3. Superior Hygiene & Climate Control

Airstop® acts as an invisible wall that repels dust, insects, odours, and humidity. It maintains strict internal temperature zones even in high traffic areas, ensuring the integrity of perishable goods and a comfortable environment for staff.

4. Exceptional Lifespan (25+ Years)

Unlike mechanical doors or plastic curtains that wear out and require constant repair, Airstop® systems are industrial grade “fit and forget” solutions. Many units installed in the 1990s remain fully operational today, offering the lowest total cost of ownership in the industry.

Powerstream®

The Powerstream® system is Masterveil's specialized solution for extreme climate separation, specifically engineered for large industrial doorways and high traffic cold storage. Unlike standard air curtains, Powerstream® utilizes a unique dual-jet technology to create a high-pressure air shield capable of neutralizing massive thermal differences.

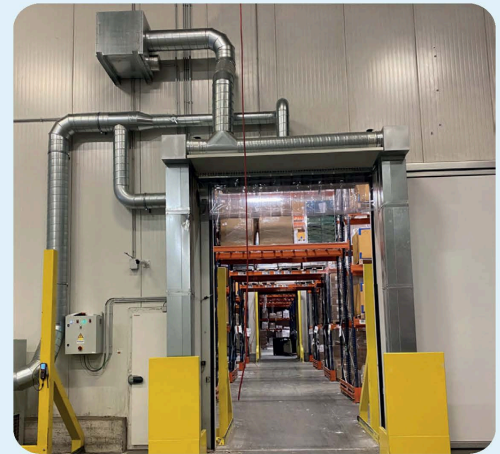
By effectively "locking" the cold air inside and repelling humid exterior air, it eliminates common freezer hazards like fog, ice buildup, and slippery floors. This results in a safer workspace, 100% unobstructed visibility for forklift operators and dramatic energy savings by protecting the refrigeration plant from constant thermal shock.



Visit the Powerstream DSB
Webpage here!



Visit the Powerstream DSB Airlock
Webpage here!



Visit the Powerstream DSB Comfort
Webpage here!

Key Benefits:

1. Eliminates Ice & Fog Hazards

By creating a high-pressure thermal seal, Powerstream® stops humid air from entering cold zones. This effectively eliminates dangerous ice buildup on floors and ceilings and prevents "fogging" at the doorway, ensuring a dry, safe environment for staff and machinery.

2. Maximum Refrigeration Efficiency

Powerstream® acts as an invisible "air lock," preventing heavy cold air from cascading out of the building. By maintaining stable internal temperatures even during high traffic periods, it drastically reduces the workload and energy consumption of refrigeration compressors.

3. Unrivalled Logistics Speed

Unlike mechanical high-speed doors that require seconds to open and close, Powerstream® offers 100% instant access. Forklift operators can move through doorways at peak efficiency with total visibility, significantly increasing pallet per hour movement.

4. Extreme Industrial Durability

Designed for the harshest industrial climates, Powerstream® systems are built with high grade components (often stainless steel) to withstand constant use. These units are "fit and forget" solutions, known to remain fully operational for over 20 years with minimal maintenance.

Hultsteins

Hultsteins is a Swedish-British specialist in hydraulic and electric-drive transport refrigeration, delivering diesel-free cooling solutions since 1962. Their one engine systems harness the truck's own power instead of a separate diesel unit, reducing fuel consumption, emissions and noise across the fleet. To expand their product portfolio further they are now the UK Partner for Masterveil air curtains, allowing them to offer prospects a more comprehensive cold chain solution.

Ecofridge

Ecofridge is a hydraulic drive refrigeration unit - using one engine technology the truck engine powers the fridge using a power take off (PTO). This then eliminates the need for a secondary dirty diesel TRU engine.

Ecofridge Slimline comes in two sizes, HS12 which suits body lengths from 5 to 7 metres in a single and multi-temperature format. As well as HS15 which suits body lengths from 6 to 9 metres in a single, multi temperature or longitudinal format.



Ecogen

Ecogen is a hydraulic electric generator - it is powered by a power take off (PTO) from the tractor unit engine. It allows operators to run diesel TRUs on their electric standby whilst out on the road.

Ecogen can be fitted to most marques and makes of tractor unit from new, but can also be retrofitted to Scania, Renault or Volvo tractor units. This is because they already have the timing gear fitted within the engine.



Ready to Master Your Climate?

Stop letting your profits blow out the door.

Whether you are managing a high-traffic cold store, a sterile pharmaceutical lab, or a busy retail entrance, Masterveil provides the invisible shield your facility deserves.

Take the next step toward 80% higher efficiency:

Request a Site Survey: Our engineers will analyse your airflow and calculate your projected energy savings.

Custom Quote: Get a bespoke solution tailored to your specific architectural requirements.

Visit Our Showroom: Experience the "invisible door" in action at our European headquarters.

For further information please contact:

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Visit the Hultsteins website here!