

High performance in low temperatures.



Consistent temperatures inside.

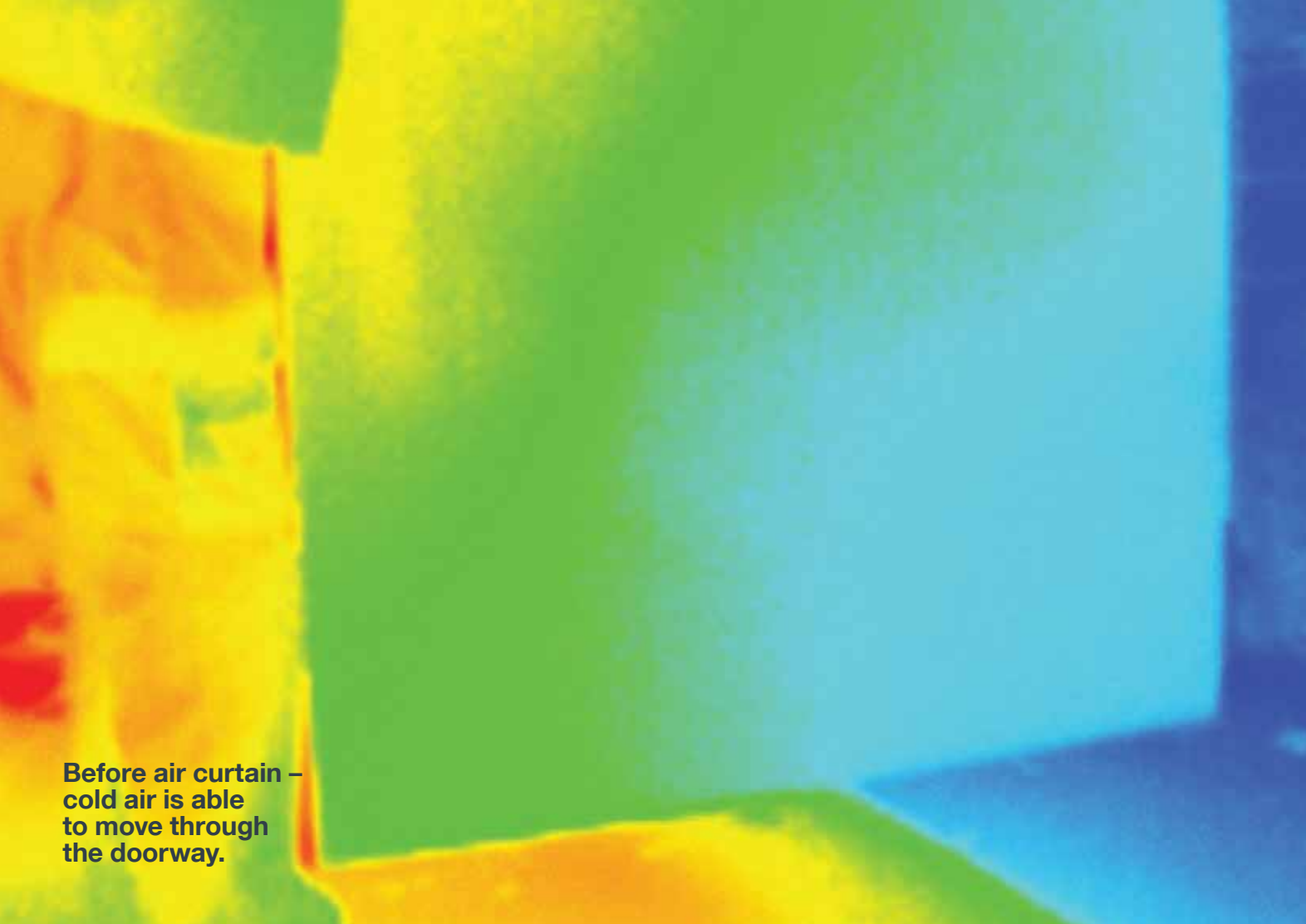
Whatever the weather outside.

In most industrial and retail buildings, large doors are left open for long periods to enable the loading and unloading of goods. This makes it difficult to maintain a consistent indoor temperature, increasing energy consumption and placing added strain on the heating or cooling system.

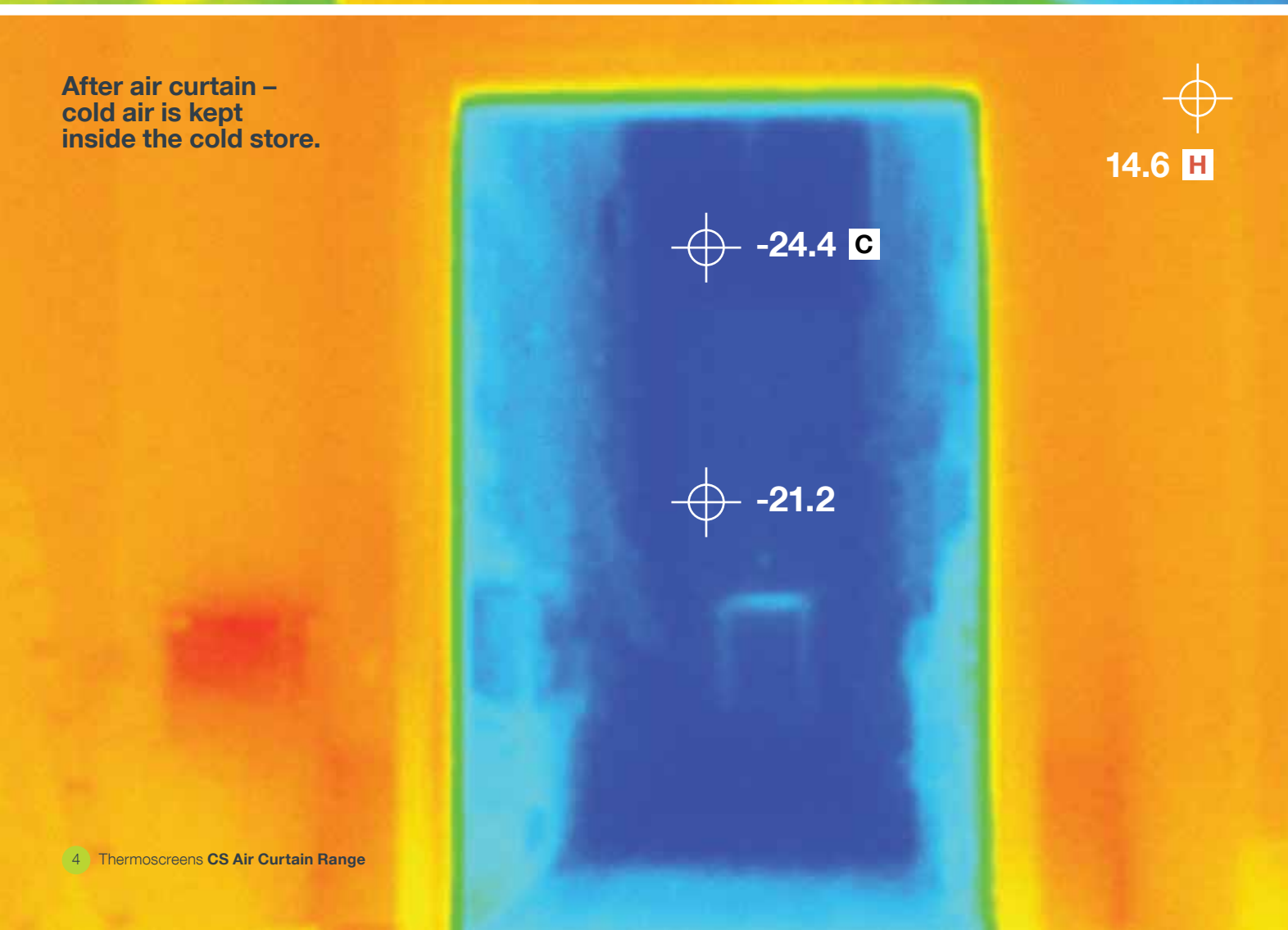
There is a simple solution. Our **CS Air Curtains** provide an invisible barrier that helps prevent warm or cool air entering and leaving the building – saving energy and minimising heating and cooling costs.

In cold stores there is the additional risk of ice formation and build up if doors are frequently opened. Our air curtains are specifically designed for areas where the environment requires higher performance, consistent temperatures and ease of access.

With a range of products suitable for differing cold store size, Thermoscreens can maintain consistent temperatures inside, whatever the temperature outside.



Before air curtain – cold air is able to move through the doorway.



After air curtain – cold air is kept inside the cold store.



High performance in low temperatures. The Thermoscreens CS Air Curtain Range.

Want the highest performance in the lowest temperatures? The **Thermoscreens CS Air Curtain Range** delivers exceptional performance for cold stores. Designed and engineered to maintain climate separation with temperatures as low as -25°.

Advanced EC motor technology also keeps energy consumption to a minimum. Benefiting from built-in frost protection to ensure unhindered access for goods.

Successful installations of Thermoscreens CS Air Curtains have demonstrated real energy savings and temperature stability, with reduced hot spots in numerous installations across the UK. With the number of door openings pre-and post-air curtain installations remaining the same, customers reduced energy consumption in the cold store by up to 30%.

The magic is behind the curtain.

As seen in the thermal images, the air curtain creates a clear barrier between the cold internal environment and the warmer external air. Allowing easy access for employees and maintaining a consistent temperature within the cold store.

Effective climate separation is achieved with the cold store temperature remaining at consistently low temperatures reducing ice build up within the cold store and around the evaporators. This reduces costly downtime, stock loss and maintenance requirements.

Take performance to the CS Max.

Where there's greater air velocity or a higher mounting height is required – you can choose the **CS Max**.

Maximum efficiency in minimum space with Slimline CS.

Specifically designed for applications where there's limited head space above the door, the Slimline CS series is a compact and cost-effective solution.

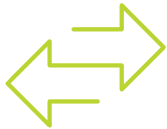
More energy efficient means more energy savings.

The patent pending **Thermoscreens CS Air Curtain Range** uses the most efficient EC fans on the market. Our units only require 1.4 amp running at 1 phase. Resulting in very low energy usage.

Maintaining consistent temperatures within the cold store is a critical challenge, and frequent defrost cycles are a major cost and energy concern in traditional systems. The air curtain's ability to maintain stable temperatures reduces the need for these cycles, while minimising the workload of the chillers and condensers, saving energy and reducing operational costs.



See the benefits of our invisible barrier.



Easy access

No physical barrier ensures easy access for people and machinery, while also improving safety and visibility for employees.



Energy efficient

Enhanced temperature control reduces demand on cooling systems, lowering energy costs.



Less downtime and waste

Lack of ice build up in the room means the cold store up-time is increased.



Minimises hot-spots

Our air curtains facilitate a better mix of air, ensuring less hotspots and temperature fluctuations.



Remote monitoring

Optional BMS connectivity monitors and remotely manages effectiveness.



Minimal maintenance

Designed to deliver high performance with minimal maintenance, even in the most demanding environments.

Problems faced

- Ice build up
- High energy costs
- Accessibility
- Wear & tear of PVC strips
- High installation costs
- Risk of slipping for employees
- Potential stock loss
- High maintenance costs

**Perfect for
cold stores
and food
processing
facilities.**



Thermoscreens solution

- Ice & frost build up reduced significantly
- Reduced defrost cycles
- Reduced hot-spots
- Easy Access for people and machinery
- Reduced downtime
- Significant energy savings
- Temperatures maintained and costs reduced



“The new air curtains in the freezer room have completely eliminated any ice and frost build up around the room, including the evaporators. As the main reason for cold room failure, this will undoubtedly help to reduce costly downtime, stock loss and maintenance calls.”

Gareth Richardson
WM Morrisons Supermarkets



Every doorway. Every facility. We've got it covered.

Now you can maintain a stable temperature in your space. Whether it's a cold store or chilled area. Our air curtains facilitate a better mix of air, ensuring less hotspots and protecting the environment from the impact of frequent door openings and temperature fluctuations.

Our team will work with you to understand the specific requirements of your space and develop a solution that is shaped around your specific needs.

Simple to install. Easy to control.

Our solutions are simple to install and easy to control manually or through an integrated building management system. They are proven to deliver high performance with minimal maintenance, even in the most demanding environments.

Your environment is our expertise.

Thermoscreens were one of the pioneers of modern air curtain technology, and we remain at the forefront of its evolution today. Our sales team works hand-in-hand with an international network of distributors, providing solutions to customers of all types and sizes, in more than 50 countries. Across the globe, our name is synonymous with the highest quality standards; our products renowned for their energy efficiency, reliability and ease of use.

Why choose Thermoscreens?



Dedicated support

Our customer service and technical support teams are committed to your satisfaction, ready to assist with any inquiries or issues.



Expertise and reliability

Leverage our extensive experience in the HVAC industry to gain efficient, innovative solutions.



British quality

All our products are designed and manufactured in the UK, adhering to stringent quality controls.

Get in touch

Connect with us to discover how the Thermoscreens CS Air Curtain can revolutionise your cold storage operations. Our team is ready to provide you with details, support, and the solutions you need to thrive.

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