



Industries

SHOP & BUSINESS

DESIGN

INDUSTRIES



TEDDINGTON
LUFTSCHLEIERANLAGEN

DOORS
MADE OF AIR.

MAKING SURE THE WARMTH STAYS INSIDE.

Entrances to industrial buildings and warehouses are frequently open. There is then an exchange between the outdoor air and expensively heated indoor air. This uses a great deal of energy and causes unpleasant draughts. On the other hand, the issue may be preventing smells leaking from the premises, and ensuring that these are reliably screened.

Teddington air curtain systems reduce these effects to a minimum while at the same time guaranteeing a comfortable atmosphere.



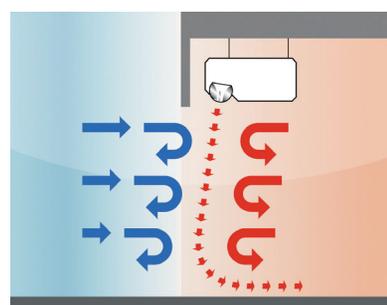
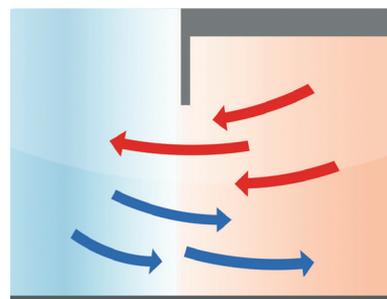


AIR CURTAINS ARE THE ANSWER.

The task of an air curtain system is to prevent unpleasant incoming cold air in the entrance area, and this is achieved using a counter-current.

In order to generate optimal use and comfort, the volume flow rate, speed, temperature and momentum must correspond to the force of the incoming cold air.

It's not a trick, just physics



**HIGH LEVEL
OF EFFICIENCY**



**ENERGY
SUSTAINABILITY**



**OUTSTANDING
QUALITY**

FOR ANY DOOR. FOR ANY SIZE.

Because they are so efficient, Teddington air curtain systems pay for themselves in a very short time, enabling you to save money. Day in, day out.

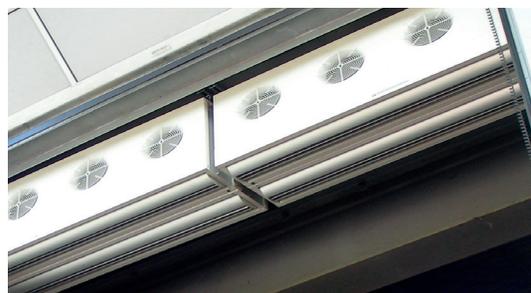
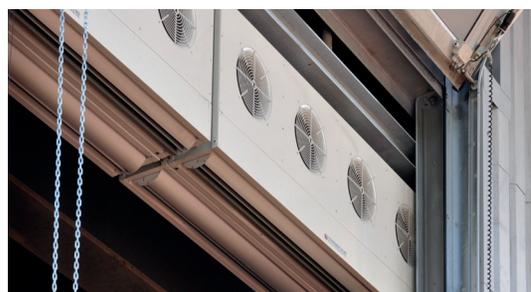


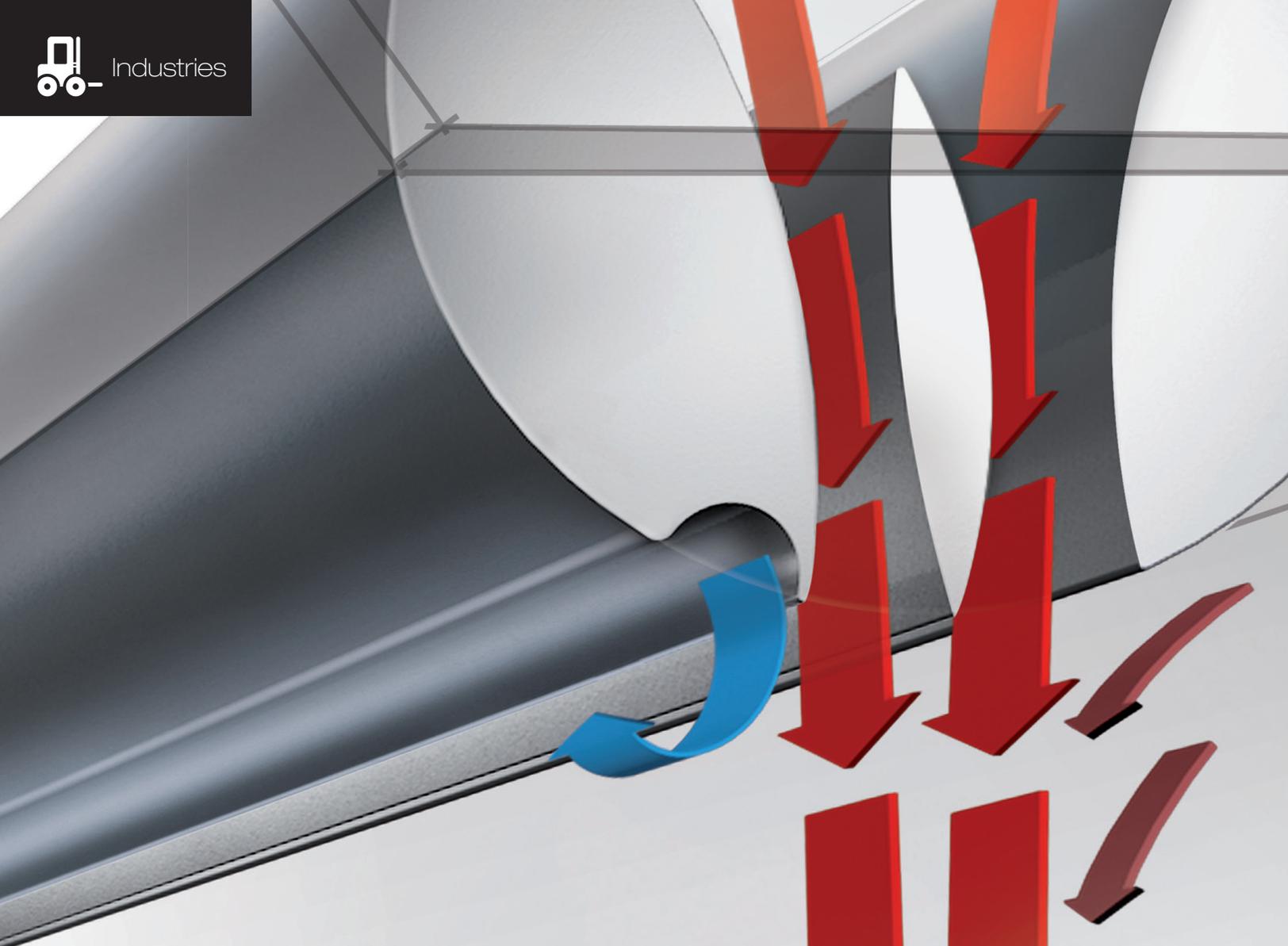


WORK PERFECTLY. CONSIDERABLE SAVINGS.

Nothing should be allowed to interfere with perfect appearance in a sophisticated environment. The air curtain systems must meet the highest design standards in places such as the following:

- Industrial buildings and warehouses
- Workshops and company buildings
- Logistics centres
- Exhibition halls
- Office buildings
- Shopping malls
- Hotels and airports
- Waste incineration plants
- And many other buildings





THE CONVERGO® SYSTEMS

THE TECHNOLOGY MAKES THE DIFFERENCE.

Our patented CONVERGO® pressure chamber nozzle system is based on the Venturi principle. In addition, aerofoil shaped profiles divide the jet of air into a core jet and a support jet, and then bring it back together again. A fillet on the outer nozzle profile deflects the unwanted proportions of outdoor air, while the “soft” edge on the inside of the nozzle profile brings about the desired induction of indoor air into the air curtain.

The result is a powerfully directed jet of air that enables high and wide doors to be screened using little energy.



The discharge angle of the CONVERGO® system may be finely adjusted to adapt the air curtain to local conditions.



HIGH SAVINGS POTENTIAL

Teddington air curtain systems are pioneering when it comes to effectiveness and reliability under demanding conditions.

CFD simulations conducted on our customers' premises by the Institute for Air Handling and Refrigeration (ILK) in Dresden as well as various tests in our laboratories provide convincing evidence of the efficiency of our devices fitted with the patented CONVERGO® pressure chamber nozzle system.

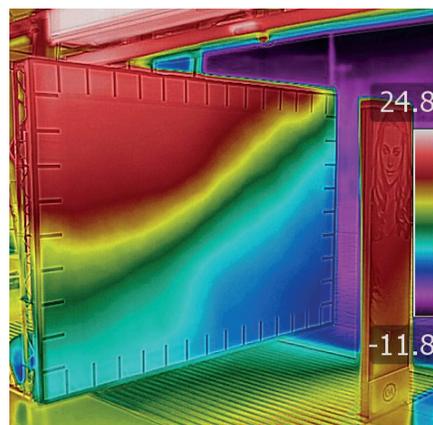
On the right you can see the excellent screening performance of an air curtain system in a store with around 400 square metres of sales space. The doors covered by the air curtain system are 2.20 m high and 2.00 m wide, and the air curtain system is installed at a height of 2.50 m and width of 2.50 m. The temperatures on a clear, calm day were 8 °C outside and 20 °C inside.

PRACTICAL EXAMPLE

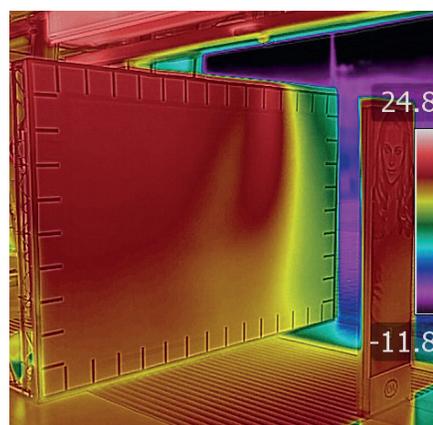
Consumption at a drugstore without an air curtain was 34,681 kWh per annum. With a Teddington air curtain from the Ellipse range with the CONVERGO® System, consumption fell to around 17,000 kWh – a saving of more than 17,000 kWh.

To put this into context, this would provide all of the electricity required by a family of four for around 4.25 years.

Annual CO₂ emissions are reduced by over 3.5 tons.



Without air curtains system



With air curtain system



THE RIGHT SOLUTION FOR EVERY SITUATION.

A unit from our standard range is often exactly the right solution. Simple and effective, cost-efficient with lasting functionality.

The “one size fits all” principle does not always work, however, because the laws of physics are rarely willing to compromise.

A number of individual factors regarding the respective installation situation need to be taken into consideration for an air curtain system to work properly and achieve the desired energy-saving effect.

It is good to be able to trust an experienced partner when making this decision. We use all of our expertise to analyse your situation, and offer you the ideal solution for your requirements.

We are your partner, and provide support from the planning to the commissioning stage.

And we will produce an individual system for you if the situation so requires. Precisely tailored to your needs.

What thermals prevail in the building?

What wind load impacts on the entrance area?

What is the size of the door area to be screened?

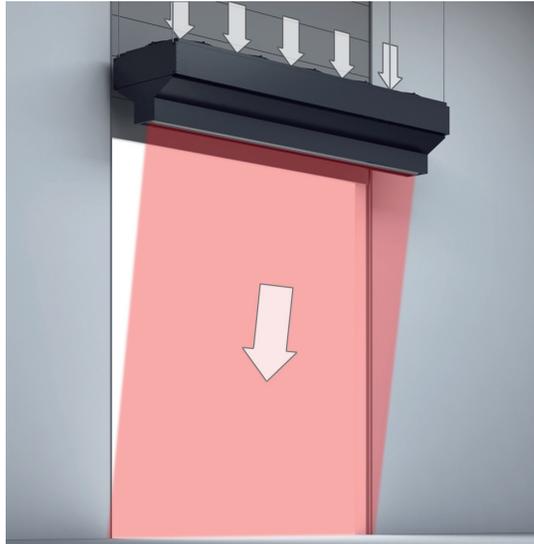
What kind of installation would you like?

**www.teddington.de
You can find our product configurator
and lots of useful information here.**

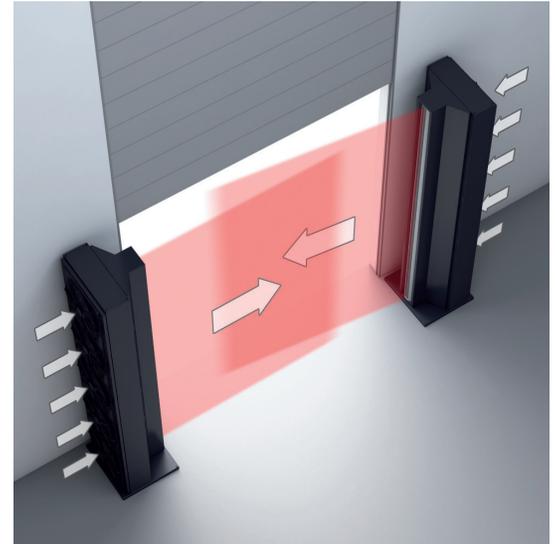


OUR DEVICES ARE AVAILABLE FOR ALL TYPES OF INSTALLATION.

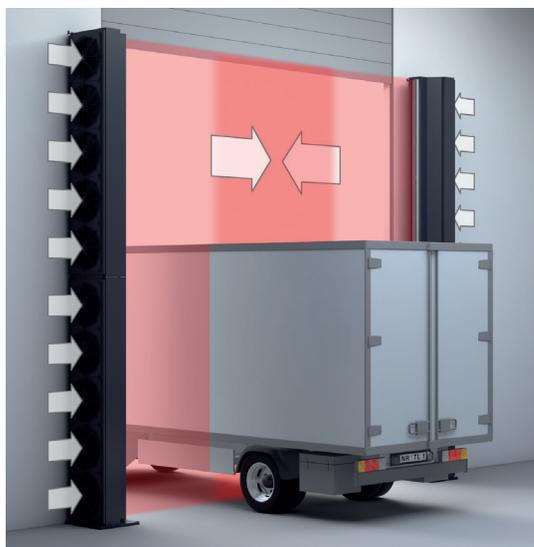
Various models are available depending on the situation or customer wishes:



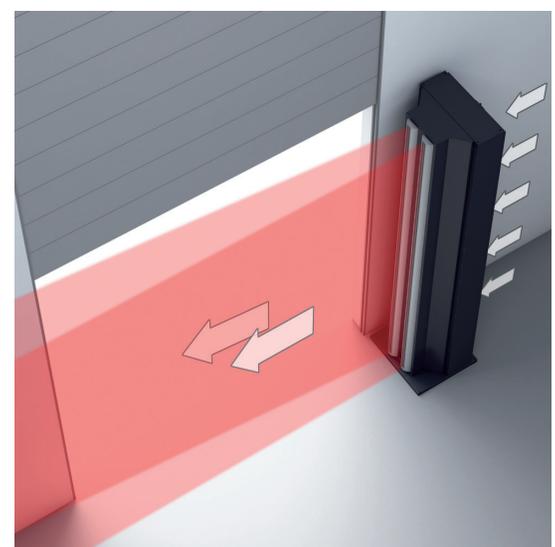
Single unit with single nozzle and horizontal installation.



Double unit with single nozzles in the air discharge area, vertical installation.



Double unit with single nozzles in the air discharge area, vertical installation with two devices on top of each other.



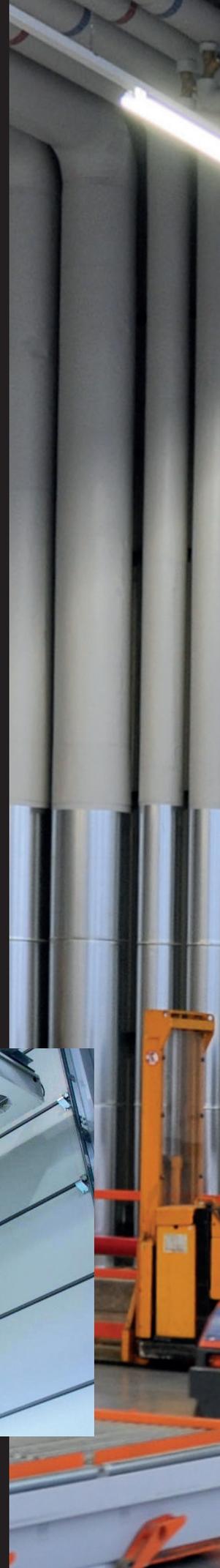
Single unit with double nozzle in the air discharge area, vertical installation.



Industries

Busy halls with high doors cause great draughts with high energy losses. Energy-saving solutions and low draught climate conditions are required here.

We offer specific units to suit applications in every industrial sector.





OUR PRODUCTS IN THE INDUSTRIAL SECTOR





Ratiovent

HIGHLY EFFICIENT AND FLEXIBLE.

The highly efficient and flexible air curtains for all applications in the industrial and logistics area.

Induvent

COMPACT AND POWERFUL.

The compact industrial air curtains for applications that require no heating.

Robuvent

THE INTRODUCTION TO INDUSTRIAL AIR CURTAIN TECHNOLOGY.

Robust and reliable.

Friguvent

FOR CHILLER AND FREEZER AREAS.

The efficient air curtain for demanding use in cooling and deep-freeze zones.





RATIOVENT

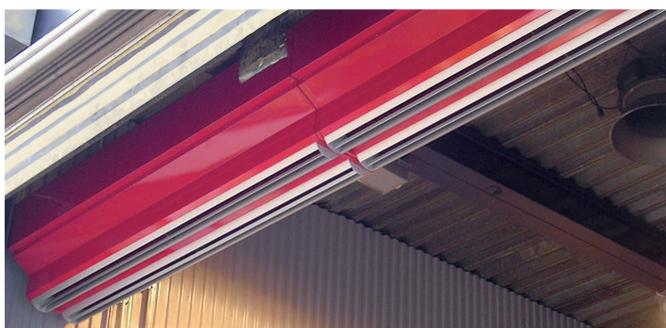
HIGHLY EFFICIENT AND FLEXIBLE.

The Ratiovent air curtain systems for vertical or horizontal installation with and without heating are ideal for all applications in the industrial and logistics area.

They are extremely installation-friendly and low maintenance. Their robust design and powerful performance make them the device most frequently selected for the industrial area.



The technical data
can be found online
or in our technical
data folder.



INDUVENT

COMPACT AND POWERFUL.

The Induvent air curtains for vertical or horizontal installation have been designed for universal recirculation mode in all industrial areas. The wide range of models available enables the devices to be flexibly adapted to all installation situations.



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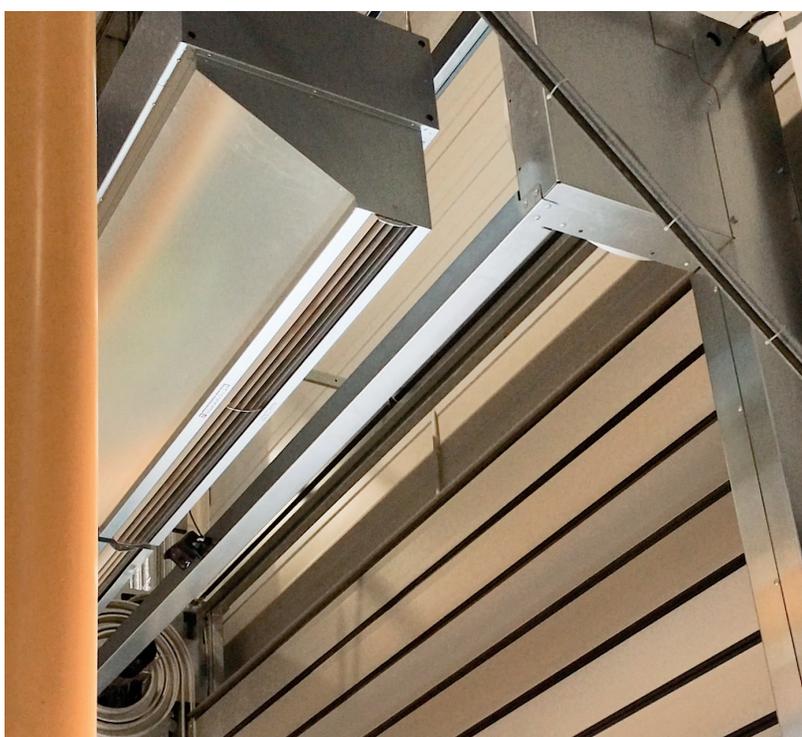
ROBUVENT

THE INTRODUCTION TO INDUSTRIAL AIR CURTAIN TECHNOLOGY

The Teddington product portfolio also includes a solid device with powerful axial fans for moderate industrial requirements. Effective when it comes to performance, reliable and energy-saving in everyday use.



The technical data can be found online or in our technical data folder.



FRIGUVENT

FOR COLD STORAGE AND FREEZER AREAS

Friguvent cold air curtain units are the entrance solution for chiller and freezer rooms. The devices prevent the exchange of air, thereby substantially helping to save energy in places where doors are frequently opened.

They also reduce the formation of mist and frost to a minimum.



The technical data
can be found online
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data folder.





QUALITY IN PROCESSES AND PRODUCTS

- Sound advice during the planning phase
- Decades of experience in design and production
- Modern production facility
- Individual test protocols
- Provision of digital planning data
- Reliable service whenever and wherever you need support
- ISO-certified in accordance with 9001:2015





FAMILY-OWNED AND INDEPENDENT.

Since presenting the first air curtain system developed in Germany, we have continued to set pioneering trends and benchmarks.

As a non-affiliated family enterprise, we are the oldest German manufacturer on the market, and to this day develop and manufacture our products exclusively at the Buchholz (Mendt) site. Flat hierarchies, short decision-making channels and in-house manufacturing at our own premises directly benefit our customers.



Thomas Hennecke



Stephan Hennecke

NATIONALLY AND INTERNATIONALLY
WELL-POSITIONED.



TEDDINGTON
AIR CURTAINS SYSTEMS

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