



TEDDINGTON
AIR CURTAIN SYSTEMS

DOORS MADE OF AIR.



TO KEEP THE HEAT INSIDE.

Teddington air curtain units minimise the exchange of air between the inside and outside of buildings. They offer maximum energy efficiency while simultaneously ensuring a comfortable climate.

- Shops
- Shopping centres
- Industrial and warehouse buildings
- Hotels and airports
- Banks and administrative buildings
- Logistics centres



Open doors are among the highest wasters of energy on buildings. Great amounts of energy get lost here.



FOR MAXIMUM EFFICIENCY.
TEDDINGTON AIR CURTAIN
UNITS.

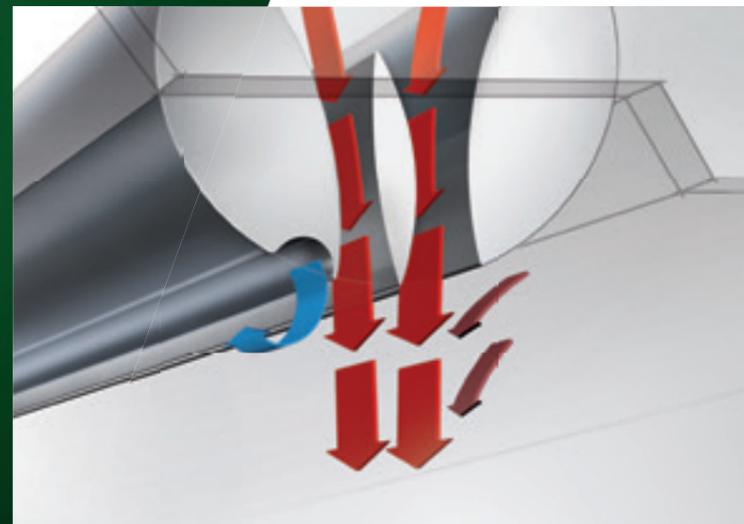
- ✓ Top quality
- ✓ Maximum efficiency
- ✓ Perfect service

THE NOZZLE MAKES THE DIFFERENCE.

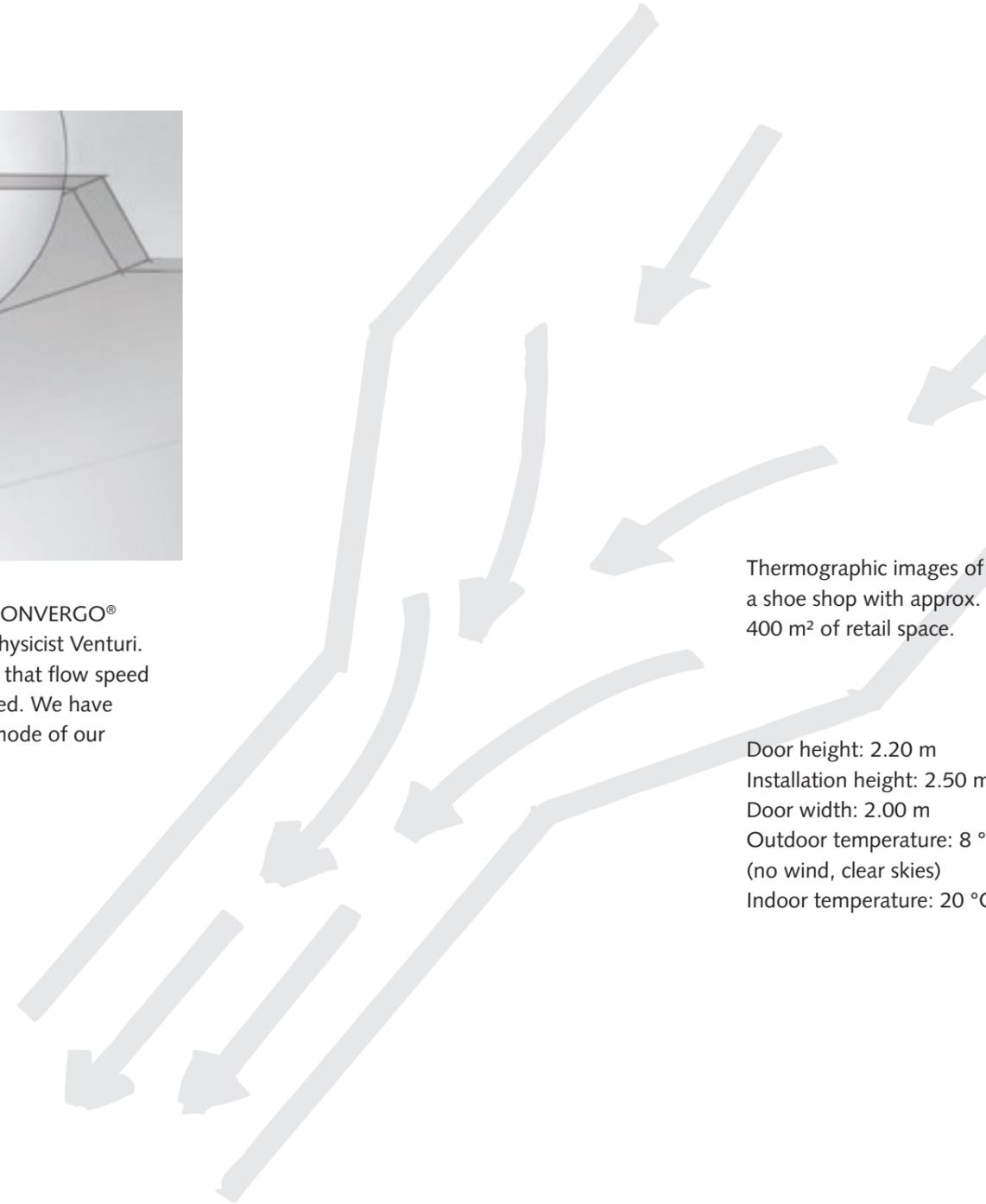
Our patented CONVERGO® pressure chamber nozzle system is based on the Venturi principle. Aerodynamically shaped profiles separate the air jet into a core and a support jet, before finally converging it together again. In addition a fillet on the outer nozzle section deflects undesired outdoor air, while a “soft” edge on the inner nozzle section brings about the desired induction of room air into the air curtain.

The result is a powerfully directed jet of air requiring very little energy to screen large, high doors.

- This enables our customers to save up to 40 percent of energy compared to conventional devices.
- At the same time our systems offer maximum convenience and a comfortable climate.



The basis for the development of the CONVERGO® system was a discovery by the Italian physicist Venturi. Back in the 18th century he recognised that flow speed increases when a cross-section is reduced. We have applied this principle to the operating mode of our air curtain units.



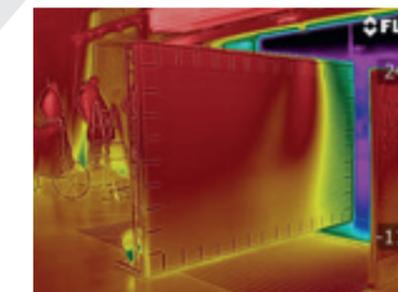
Thermographic images of a shoe shop with approx. 400 m² of retail space.

Door height: 2.20 m
Installation height: 2.50 m
Door width: 2.00 m
Outdoor temperature: 8 °C (no wind, clear skies)
Indoor temperature: 20 °C

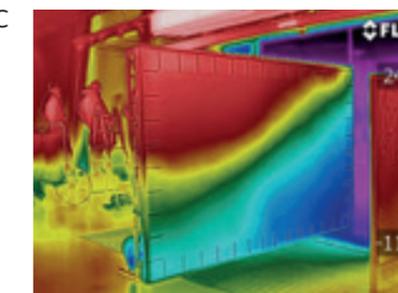
MORE THAN STANDARD.

Teddington is pioneering when it comes to efficiency and reliability under demanding conditions.

CFD simulations by the Dresdner Institut für Luft- und Klimatechnik, thermographic images on the premises of our customers and various tests in our test facilities impressively demonstrate the efficiency of our devices with the patented CONVERGO® pressure chamber nozzle system.



Air curtain system middle operating level



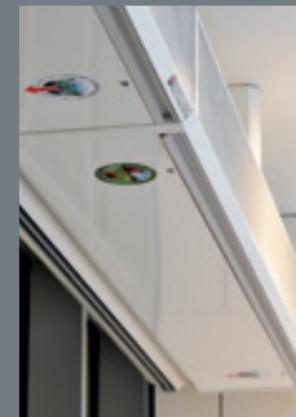
Air curtain system off

TEXTILES SHOP

Consumption without an air curtain was 57,120 kWh p.a. Using the Teddington E-Series air curtain unit with the CONVERGO® system, consumption fell to 34,496 kWh – a saving of 22,624 kWh.

As a comparison, this would allow a mid-range car to drive 28,280 km, which is more than the distance between the North Pole and the South Pole!

The CO₂ emissions are reduced by more than 5 tonnes a year. This means that around 400 fewer trees are needed to regenerate our air.



INDUSTRIAL DOOR

Consumption without air curtains was 113,144 kWh p.a. With 2 Teddington Ratiovent industrial air curtain units installed to the left and right of the door, consumption was just 60,492 kWh p.a., a saving of 52,652 kWh p.a.

A mid-range car can drive approx. 66,000 km with the energy saved. This is more than 1.5 times around the globe!

A heating plant would save 5,265 l of heating oil. This equates to a reduction in CO₂ emissions of around 16.5 tonnes or the need for 1,300 fewer trees for regeneration.



NO LIMIT TO APPLICATIONS

We have perfected the principle of “doors made of air”, and developed several applications with it.

Energy-saving air curtain units can be used in the following:

- Shops
- Public buildings
- Shopping centres
- Industrial buildings and logistics centres
- Banks and administrative buildings



You can find a product configurator on our website www.teddington.de/en





Shop &
Business

COMFORT, NOT ONLY WHILE SHOPPING.

No area impresses visitors more than the entrance. And nothing is more important in the Shop & Business sector than a pleasant atmosphere which invites people to come in and stay.

Comfortable atmosphere combined with maximum efficiency.

Whether floor-mounted at the side, suspended or integrated in the ceiling and barely noticeable, our devices in the Shop & Business sector offer subtle comfort and ideal screening performance.



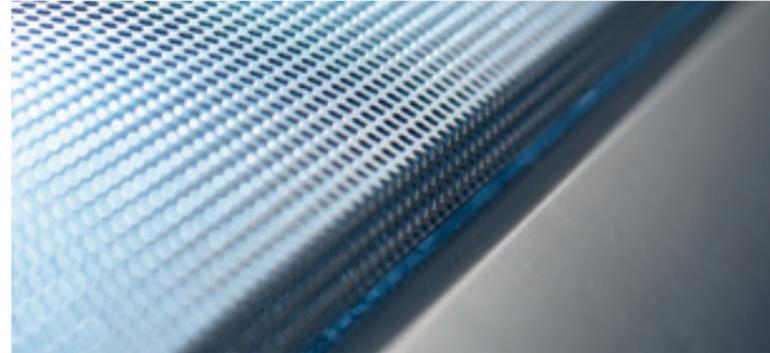
Also extra-silent on request.





Design

SUPERIOR TECHNOLOGY IN AN ELEGANT CASING.



Perfect form and custom-fit.

To ensure that your design unit blends harmoniously into the overall appearance, we customise the air curtain unit to suit your conditions.



TEDDINGTON DEVICES ARE SUITABLE FOR ALL SETTINGS.



WE LOVE THE EXTREMES.



Busy workshops with doors several metres high produce strong draughts with high energy losses. This calls for energy-saving solutions for non-draughty ambient conditions.

Always on the safe side.

Our industrial units have been designed for extreme conditions; for maximum performance and utmost efficiency.

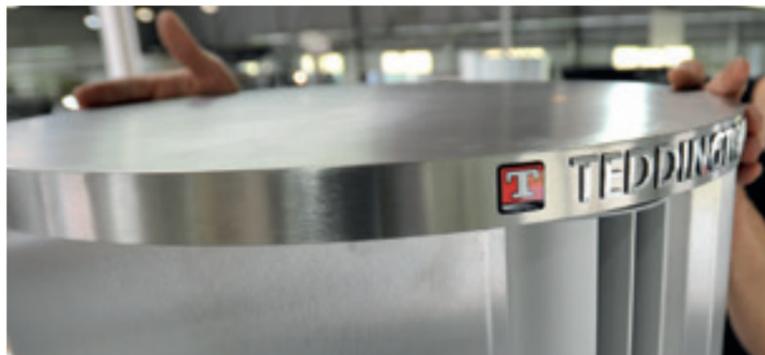
We execute projects for all application areas. From an individual device through to complex system solutions with intelligent control technology for integration into the building management system. Investments that pay for themselves in the shortest time.

Leading companies throughout the world deploy Teddington air curtain units.





SOME REQUESTS CANNOT BE MET BY STANDARD PRODUCTS.



We develop and manufacture customised solutions tailored to your wishes.



- ✓ QUALITY MATERIALS
- ✓ THE FINEST WORKMANSHIP
- ✓ PREMIUM SURFACES



ADVICE AND SERVICE.

Air curtain technology is a complicated subject, so we provide our customers with support covering all details of it.

- Sound advice even before planning
- Decades of experience in design and production
- Reliable service whenever and wherever you need help



On request we will also manage the commissioning of the air curtain with settings that are ideal for your building situation and requirements.

INDIVIDUAL AND CUSTOM-FIT.



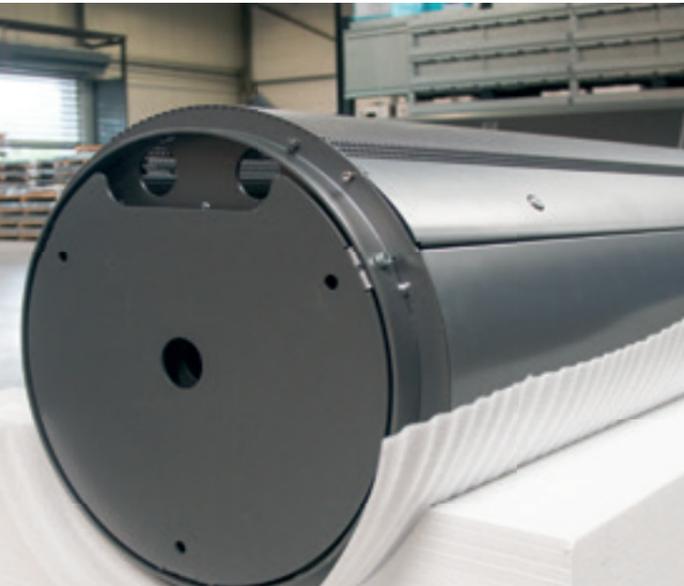
Modern production using CNC technology opens up all options and ensures perfect results.

A team of experienced employees, the most up-to-date production equipment and high quality level form the basis for customer satisfaction.

QUALITY IN PROCESSES AND PRODUCTS.



AIR CURTAIN TECHNOLOGY AT THE HIGHEST LEVEL.



- ✓ Top quality
- ✓ Maximum energy efficiency
- ✓ Perfect service

Whether prefabricated or developed specially for you – we offer you the perfect air curtain unit for your requirements. You will be in safe hands, from receipt of the order through to delivery.

We check every unit mechanically and electronically prior to delivery, and give it an individual test report.

Our quality management is certified in accordance with ISO 9001:2015. Through certification in accordance with ISO 27327 we also offer you certainty regarding the tested and confirmed performance parameters of our products.

INDEPENDENCE GUARANTEED.



Thomas Hennecke



Stephan Hennecke

Since introducing the first air curtain unit developed in Germany, we have repeatedly injected pioneering impetus and set benchmarks.

As a non-affiliated family-run company, we are the oldest German manufacturer operating on the market. Flat hierarchies, quick decision processes and complete in-house production directly benefits our customers.

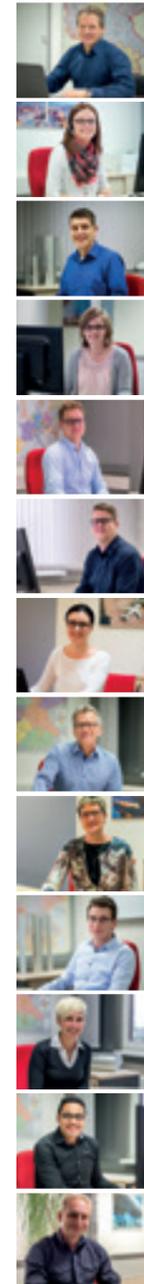
THE REFERENCES FOR
AIR CURTAIN TECHNOLOGY.



NATIONALLY AND INTERNATIONALLY WELL POSITIONED.



FEEL FREE TO
CONTACT US.





TEDDINGTON
AIR CURTAIN SYSTEM

Teddington Luftschleieranlagen GmbH

Industriepark Nord 42 · D-53567 Buchholz (Mendt)
Phone +49 (2683) 9694-0 · Fax +49 (2683) 9694-50
info@teddington.de · www.teddington.de/en/

More
Informations at:
www.teddington.de/en



Teddington. The reference for air curtain technology.