



So the cold stays,  
where it belongs



## Climate zones separation – efficient, innovative, individual

### The simply brilliant solution – Veotec climate zones separation

It is not only sensible to separate warm and cold operating areas, but also economically necessary. It is important to apply reliable solutions between production and storage, between inside and outside, between manufacturing and the freezer zone.

It is important to find the perfect combination of maximum energy efficiency and an optimal workflow. VEOTec plans your solution to simply fit in perfectly with your company. Let yourself be convinced!

### This is how quick climate zones separation from VEOTec pays off.

Everyone has the same expectations: save costs, optimize workflow, increase security. But every industry, every company has individual requirements. We plan separation of your climate zones precisely and individually, so that it fits perfectly into your work processes. And brings maximum energy savings. The good thing is: we already measure the savings during the planning phase, so that you know the payback period for your investment.

### Why climate zones separation?

There are many reasons for effective climate zones separation. A key factor is the price development on the energy market, which for a long time is going in only one direction: upwards. Resource conservation is also an important factor in the context of sustainability concepts. In the area of technical facility management, however, many potential opportunities for energy saving are still unused. This also includes climate zones separation. The more effective it works, the higher are the savings, which can make 60% and more! However, aspects such as accelerated work processes and better employee health must also be considered for an optimal solution.

# Goals of climate zones separation

## 1. Reduce energy costs

The major part of the energy losses comes from door and gate openings between work areas with different temperatures. Effective thermal barriers prevent warm air from flowing into cooled areas and cold air from flowing into heated areas. This reduces the use of energy for cooling / heating the air-conditioned zone.

In addition, a highly efficient climate zone separation in the deep-freeze area prevents condensation and, thus, formation of fog, snow or ice at doorways and evaporators. The latter work more effectively and freeze significantly less, which has a positive impact on energy consumption.

## 2. Accelerate work processes

Thermal separation itself is easy to implement: an isolated wall or door is sufficient. However, in case of a barrier-free passage, technically more complex solutions are required

We rely on high-speed doors and / or air curtain systems that do not hinder the rapid shop-floor transportation and still ensure optimal climate zones separation. High-speed doors open and close up to seven times faster than conventional sectional doors. Air curtain systems allow an unobstructed view through the work areas and do not require shop-floor transport to brake. This frees up valuable working time that can be used more efficiently.

## 3. Improve employee health

Especially in sales and logistics centers, the picking and loading areas are often exposed to strong temperature fluctuations. With a functional climate zones separation, the climate is kept constant and cold and drafts are avoided. The result: the sick leave cases in these work areas considerably decrease, employee satisfaction increases – and the issue of staff shortages is no longer an issue for you.





# Achieve personal climate goals with efficient solutions from VEOtec

## Energy efficiency - one of the biggest tasks

Saving resources is essential from both an ecological and an economic point of view. That is why solutions that reduce energy consumption are mandatory for entrepreneurs who want to continue to be successfully represented on the market in the future.

VEOtec provides both effective and economical solutions for climate zones separation. In a few words: we make sure that cold (or warmth) stays where it belongs, and that you can reach your climate goals within a short time

## Our planning services

Our solutions are suitable and easy to implement, because we cover the entire planning spectrum from technical planning to investment optimization. We accompany you during the tender, installation, acceptance and beyond. Trust in our extensive experience!

## VEOtec project process:

- construction analysis
- energy analysis
- technical concept development
- feasibility studies
- implementation planning including support for tenders
- coordination of installation, commissioning and acceptance
- After-Sales-Service

# We trust only the best. High demands can be met. With top quality.

Truly optimal solutions can appear only when planning quality goes hand in hand with product quality. That is why we rely on manufacturers who develop products with great innovation, high quality standards and a clear customer focus that meet both our requirements and requirements of our customers.

Many successful projects and years of trustful cooperation prove that it is always worth working with the best. We are convinced of that.



## Air curtain systems - made by Masterveil

Over 35 years of experience and a high degree of specialization make Masterveil a renowned provider of air curtain and humidity control systems. The Swedish-Belgian company with an international customer base develops cross-sector products for different purposes.

### Masterveil offers air curtains for:

- cooling and deep freezing areas
- indoor and outdoor positions
- industry and retail

### Quality in every way

Masterveil delivers highly specialized solutions, for example for deep-freeze areas that prevent heat and humidity from flowing in. The product portfolio also includes design solutions for demanding end customers.



## High-speed doors – from Aliga-Tor and Troodon

The Aliga-Tor / Troodon group of companies manufactures highly effective high-speed doors for various purposes. The company, based in Melle near Osnabrück, develops and manufactures the innovative high-speed doors in-house according to the highest quality standards.

### Aliga-Tor/Troodon offer high-speed doors for:

- deep -freezer areas up to -30 ° C
- food manufacturers and traders
- discounters
- industrial enterprises
- escape and emergency routes

### Excellent innovation

The innovative power of Troodon Torsysteme GmbH has already been officially confirmed: The state of Lower Saxony awarded the company 2nd place for the EST high-speed door in the innovation competition "Research and development in the field of energy efficiency".

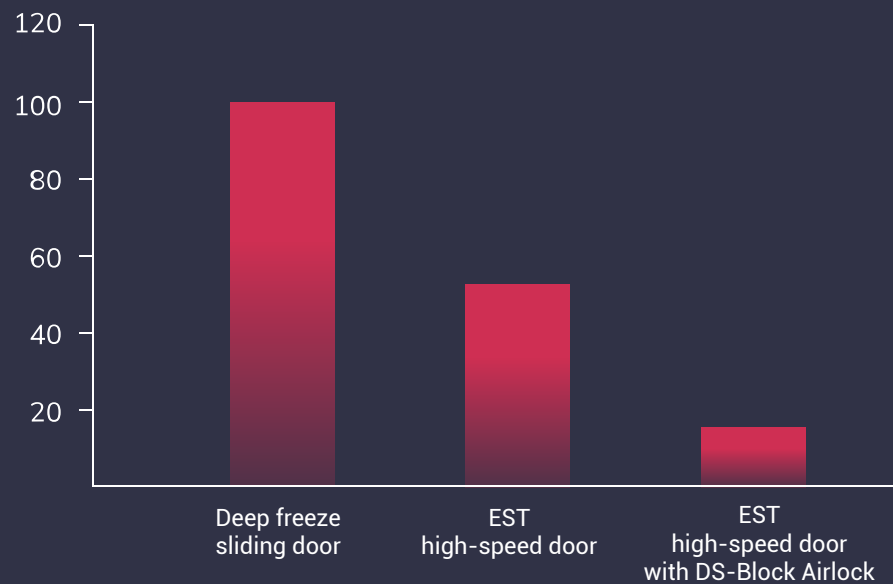
### High-speed doors - speed saves energy and time

Compared to a conventional sliding door, the high-speed doors from Troodon / Aliga-Tor help to save valuable seconds with every door cycle. Depending on the size and the comparison door, this difference may vary between 10 and 30 seconds. This saves between 50 and 150 minutes of working time with 300 cycles per day and per door. The warm air also has less time to spread in the cooling area. The cooling units have to consume less power and save significantly on the electricity costs.

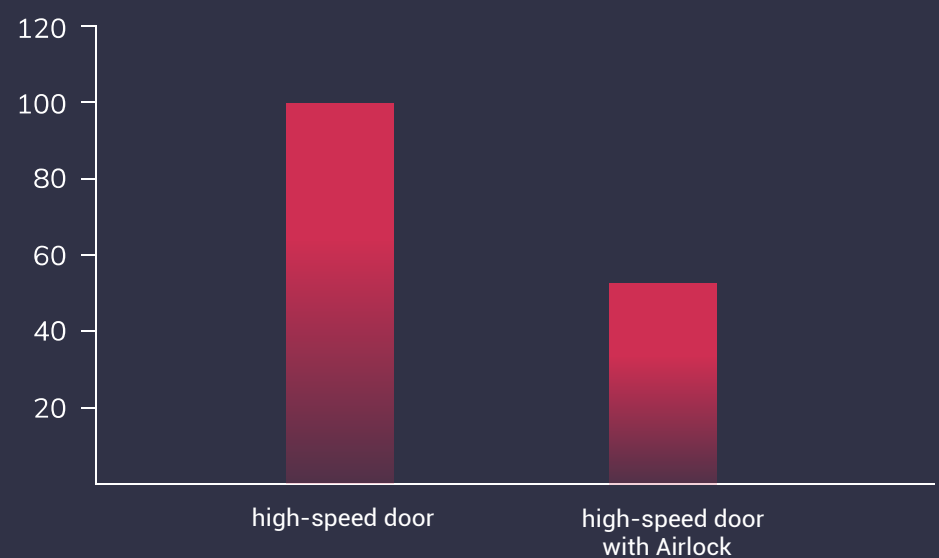
### Combination solutions - because it has to be as effective as possible

People know that two is better than one. This also applies to climate zones separation. With the combination of high-speed door and air curtain, even greater energy savings can be achieved comparing to a single solution. You can decide very quickly whether a combination solution is the best choice for your situation after thorough analysis and calculation. Feel free to ask us!

### Calculation example of deep freeze storage



### Calculation example for cold storage



## Energy efficiency – one of the biggest tasks

### Planning and implementation of efficient climate zones separations

#### **Knowledge, experience and ideas**

These are the three building blocks we use to develop your solution. As an engineering and planning office, we have specialized in climate zones separation for many years, which gives us extensive expertise. We are happy to use this to the advantage of our customers.

Our solutions are based on a comprehensive consultation, which in addition to the structural and process-oriented analysis also takes into account the desired goals of our customers. The following applies to construction of new buildings as well as to retrofitting projects: the earlier we are involved, the better solutions can be developed.

After the planning, we provide you with extensive support on project inspection and are your contact for technical questions even after the project's completion.



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