

Industrial air curtains

 **airtècnics**





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# WINDBOX L XL

For industrial doors  
up to 12 m high

# 01

Whithin the Windbox standard range for commercial and industrial doors, we find its most powerful models: WINDBOX L and XL.

From metallurgical factories, trade fair venues, car factories or sweets factories (with insects entrance control), these models are ideal to cover at perfection all type of industrial doors from 4 to 12 meters high (XL model).

WINDBOX L and XL air curtains can be installed in horizontal or vertical position, also can be mounted suspended, inside ceiling surface or inside false ceiling invisible mounting.

With self-supporting casing made of galvanised plated steel, finished in structural poxy-polyester white RAL 9016 as standard.

Depending on the needs of each installation, air curtains can be manufactured with IP55 protection, with special batteries, for 60 Hz or with special controllers. It has a microperforated front grille with filter funcitons and easy service.



**WINDBOX BL**, multiple installation  
RAPU printer, Granollers (Spain)





**WINDBOX BL**, multiple installation  
Metallurgical Oliva Torras, Manresa (Spain)







## Insects Control

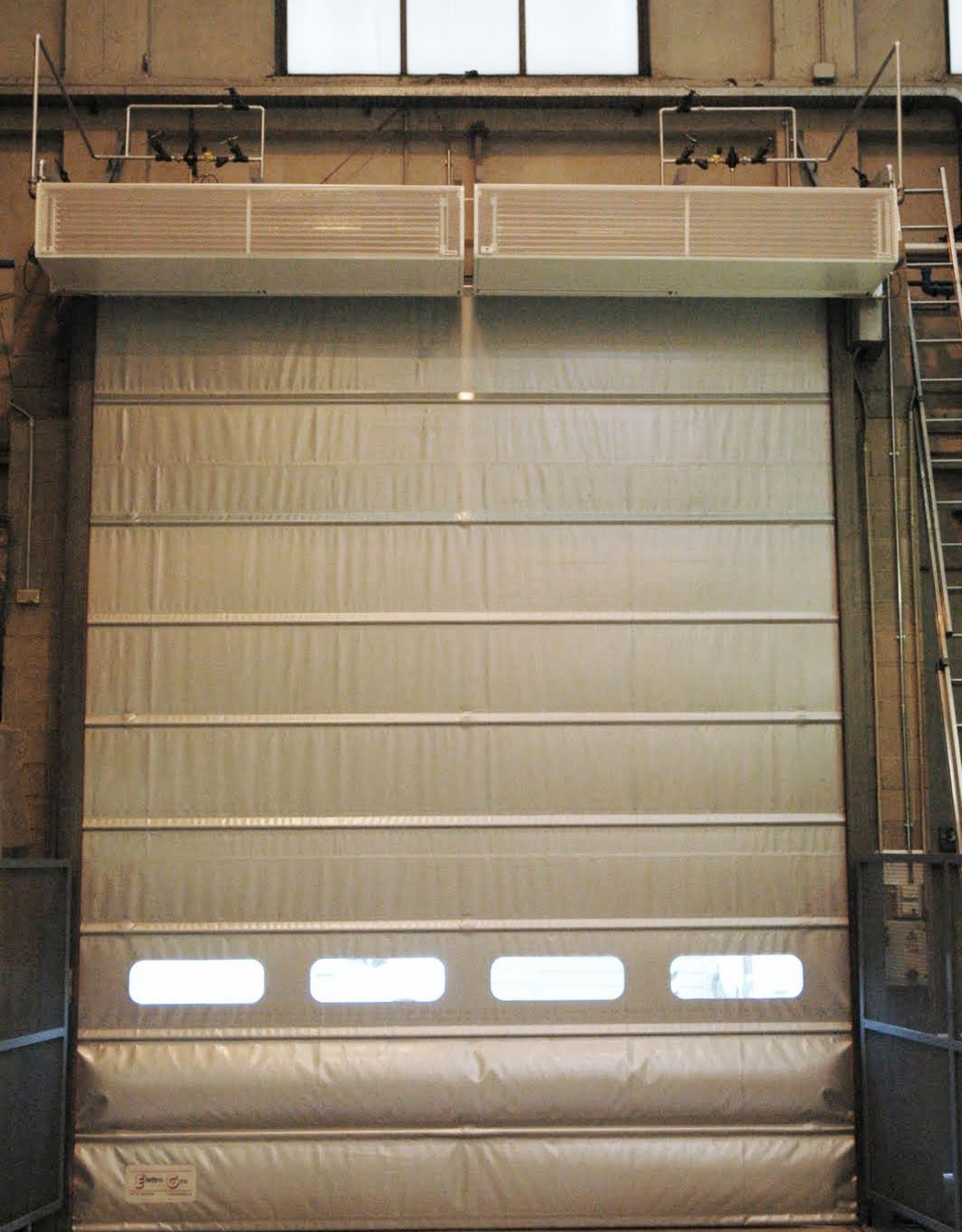
In general, when odors that attract insects scape from a building, it is recommended to install an air curtain at the external part of the doorway so that the air that uses does not contain those odors.

A part from flying insects, air curtains can also contribute to avoid the entrance of rodents. Many studies show that rats, mice and other animals don't like the sensation that an air stream produces on their skin and tend to avoid it.



**WINDBOX BL**, installation in many doors  
*DULCES OLMEDO, sweets factory in Estepa, Sevilla (Spain)*





**WINDBOX XL**, multiple installation with heat pump  
PIRELLI automotive factory, Milano (Italy)



# MAX / MAXWELL

The industrial compact and versatile

## 02

MAX and MAXWELL air curtains are ready to adapt to any type of installation and cover long distances.

From industrial buildings, loading docks, hangars, to train stations, the MAX and MAXWELL air curtains can be installed both in horizontal or vertical position and connect several units in a modular way, forming many combinations.

They work with axial fans, equipped with external rotor motor, protected with thermal contact and provided with 5 speed selection.

The casing is made of aluminium profiles and galvanised plated steel panels, finished in epoxi-polyester white RAL 9016 as standard.





*MAX, multiple vertical installation  
Central Station, Viena (Austria)*





*MAX, vertical installation*  
*Airtècnics, Castellar del Vallès (Spain)*





*MAX, horizontal installation  
Parmigiano Reggiano Cheese Factory, Parma (Italy)*





### The new air curtain MAXWELL

Airtècnics launches the MAXWELL air curtain onto the market, a new industrial model that adds to the already existing industrial models; air curtains MAX and Windbox L,XL.

The main characteristic of the MAXWELL air curtain is its double outlet air jet with Coanda effect. With this airflow distribution it is possible to reach longer distances in a more efficient way.

Airfoil shaped blow-out vanes, adjustable from 0 to 15° each side.





*MAXWELL, multiple horizontal installation  
Savsjo Transport factory, Sweden*

# Air curtains for cold chambers

## KOOL / TRIOJET

### 03

Cold chambers and large freezers are one of the main application areas for air curtains.

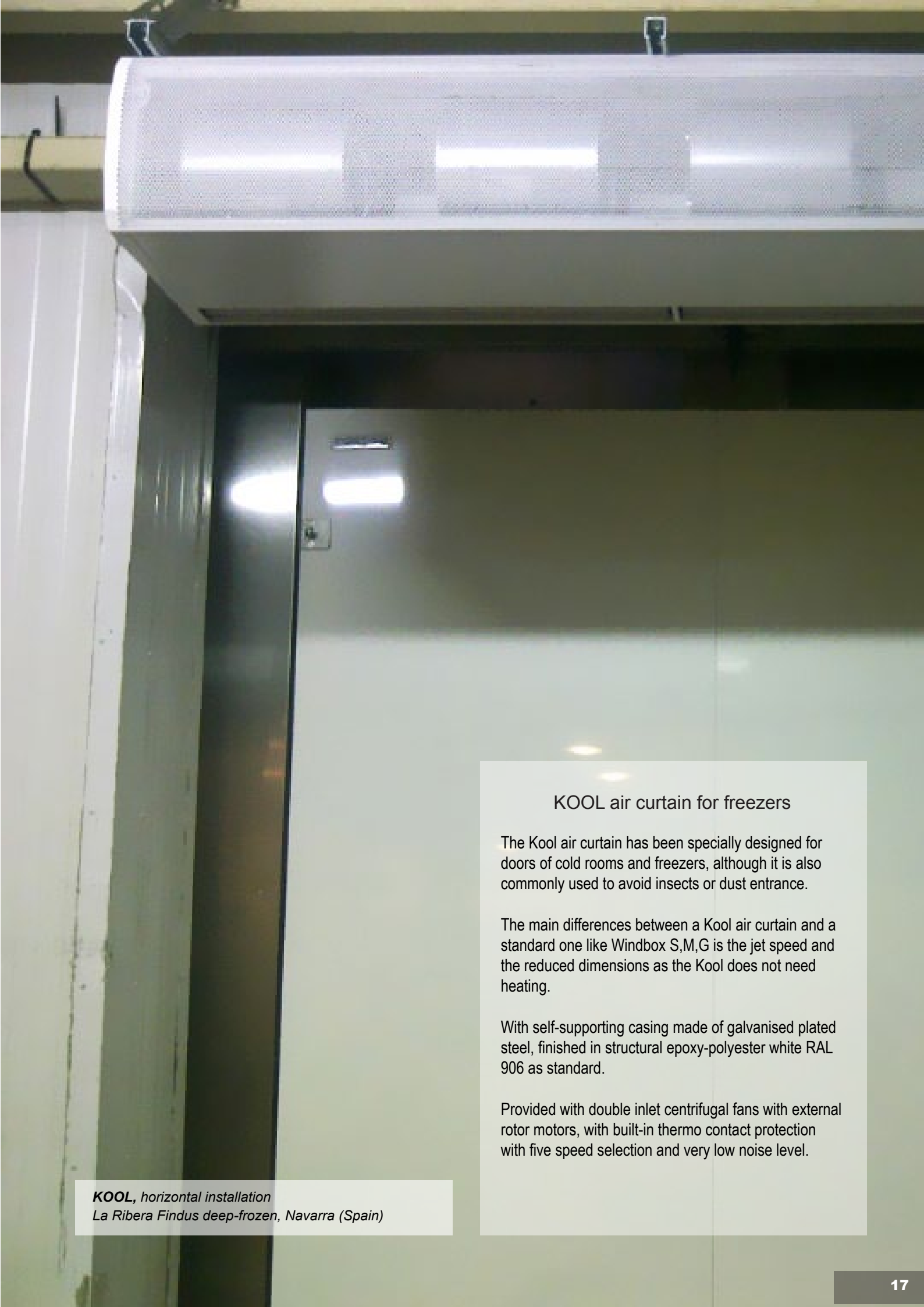
The big difference of temperatures between the inside and the outside of the cold stores requires the design of a specific air curtain for this type of application.

The installation of an air curtain provides many advantages comparing to any other system.

We mention the most relevant:

- Constant energy saving as it avoids heat transfer inside the cold chamber or freezer
- It minimizes snow formation and eliminates mist inside the cold chamber (Triojet air curtain system)
- Avoid ice formation at the entrance of the freezer (Triojet air curtain system)
- Full visibility through the door, improving safety and prevention of accidents
- The clear space that is left free saves a great deal of time in the goods transport and storage.





### KOOL air curtain for freezers

The Kool air curtain has been specially designed for doors of cold rooms and freezers, although it is also commonly used to avoid insects or dust entrance.

The main differences between a Kool air curtain and a standard one like Windbox S,M,G is the jet speed and the reduced dimensions as the Kool does not need heating.

With self-supporting casing made of galvanised plated steel, finished in structural epoxy-polyester white RAL 906 as standard.

Provided with double inlet centrifugal fans with external rotor motors, with built-in thermo contact protection with five speed selection and very low noise level.

**KOOL**, horizontal installation  
La Ribera Findus deep-frozen, Navarra (Spain)





**KOOL**, horizontal installation  
*Distinse SA freezer, Vallecas (Spain)*





***KOOL**, with IP55 protection  
Poultry production*





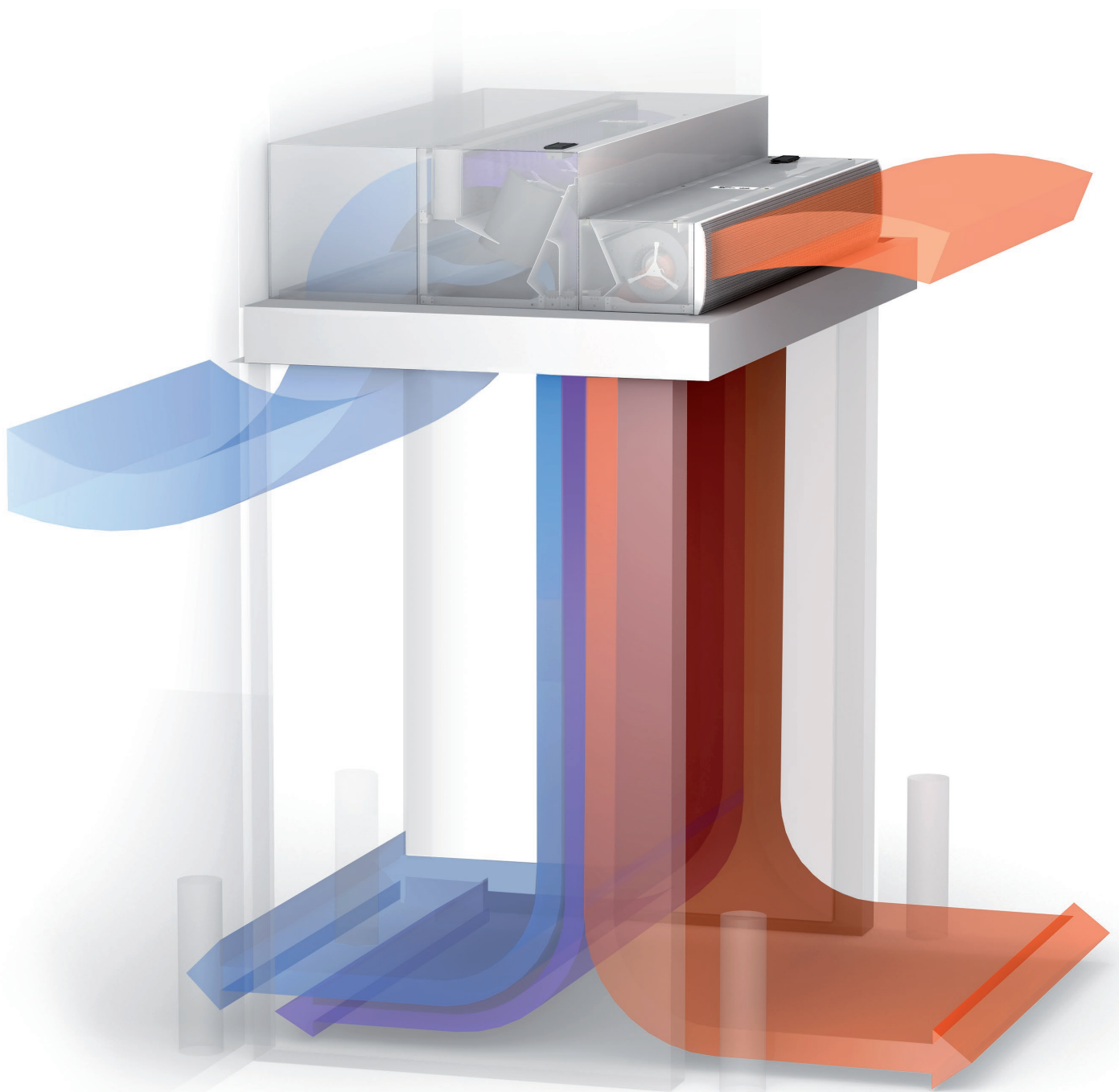
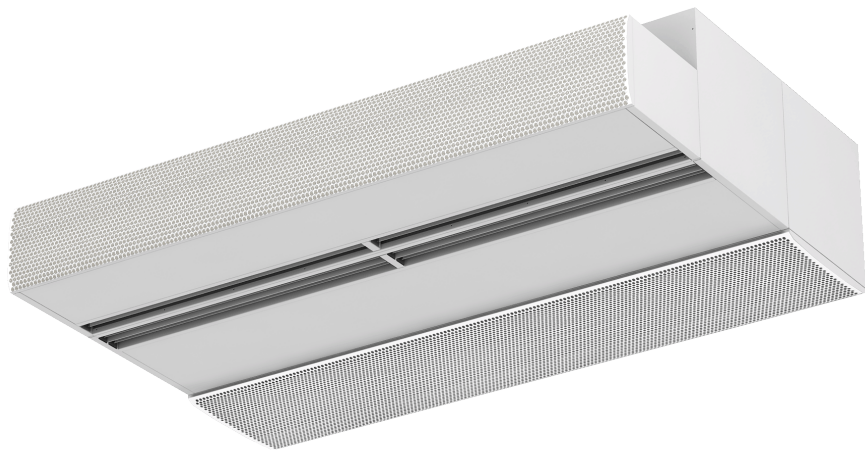
**TRIOJET,**  
REFRICA cold store, Girona (Spain)



## Triojet system

For Industrial cold stores and freezers, Airtècnics produces a system formed by a Kool air curtain combined with a Duojet air curtain, which produces 3 different air streams at three different temperatures.

This innovative system, a part from dividing two atmospheres, is intended to avoid mist formation inside the chamber and ice formation on the floor.





# Our air curtains range

The new and attractive Airtècnics air curtains are the ideal solution to control the indoor climate in commercial or industrial premises that need to keep their doors open.

Air curtains create an invisible barrier that efficiently divides the internal atmosphere from the external one. They substantially reduce energy losses through the door, up to 80%, while increasing employees and clients comfort.

For commercial premises, Airtècnics air curtains allow a clear view of the inside, welcoming the client to come in freely. The result is more customers and increase in sales. Moreover, they contribute to create a comfortable atmosphere at the entrances and indoor area, protect from cold and heat, repel insects and avoid dust, fumes and pollution entering the building.

The selection of the appropriate device is very important to obtain these advantages. Factors such as interior drops, strong winds, the door's location, several communicated floors and/or opposite doors and the height of the installation, among others, have to be taken into consideration at the time of choice.



Since year 1993, Airtècnics is fully integrated in the Rosenberg group, an organization specialised in the design, manufacture and distribution of ventilation equipments ,air-conditioning and its components, with production plants, subsidiary companies and partners in more than 50 countries.





# Control & regulation

The control over air curtains is essential to avoid spending more energy than necessary.

Our latest generation controller CLEVER, allows the automatic control of the air curtains performance in each situation, maintaining the comfort with the maximum energy saving.

- Proactive and intelligent regulation
- Many advanced functions and programmes
- Maximum energy savings
- Friendly interface design
- “Plug & Play” installation
- BMS connection

Management: App PC / ANDROID / iOS:



## Accessories

Temperature sensors, door contact, ambient thermostat, anti-freeze sensor, thermostatic valve and Modbus TCP Ethernet.

Airtècnics, as air curtains specialist, can produce units with special requirements under request.

We present some of the possibilities:

- External alarm signals: unit working, heating ON, airflow switch, dirty grille, electronic overheating signal, fans overheating thermo contact TK, electrical heating blocked, etc...
- Water or steam coils for higher temperatures or different power than standard
- Special heating elements at desired power and power supply
- Dummies (empty air curtains) to combine with working units
- Industrial air curtains with ATEX fans

Please consult us for further information or other options





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