

Why do you need an **air curtain?**

KEYS AND
SOLUTIONS FOR
TERTIARY





What is an air curtain?

The air curtains create an invisible air barrier that avoids the temperature loss through any opening of a room (windows or doors) without obstructing the passage of vehicles or people.

The investment in an air curtain is amortized quickly since they avoid wasting energy.



How does it work?

This provides comfort inside the premises, whose occupants can be workers or visitors.

When an air curtains is running, the air stream is reduced by preventing the hot air from entering in summer, or the hot air (from heating) escaping to the outside in winter.

Another possible practical use is to avoid the entry of flies or other flying insects into the building, as well as small rodents, by supplying a high velocity airflow through the curtain.



VISITORS

When entering the room they do not find any physical barrier and feel the comfort of indoor temperature



EMPLOYEES

Despite having open the door, they do not suffer from annoying air currents or loss of comfort



INSECTS & RODENTS

The jet of air on the skin is unpleasant and they avoid entering inside the building



Type of curtains

High performance and low noise level are very important features in air curtains. They can be installed from small window openings to 6m high large doors.

The type of curtain to be installed will depend on the hole and type of the entry, although other factors are also relevant in this decision such as the amount of transit, the type of location and the wind load that must be supported.

REMOTE CONTROL OR AUTOMATIC

They usually have a remote control that allows to manipulate the type of air (hot or ambient), speed and air flow adapted to the users comfort without obstructing their passage.

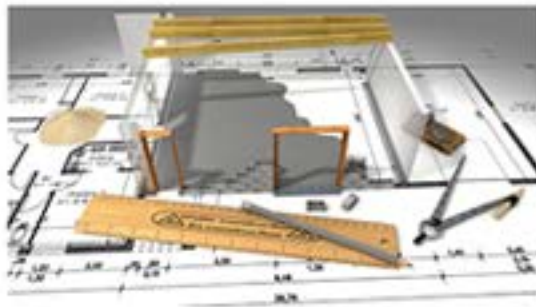
They can also be started with the activation of the automatic doors or by thermostatic regulators.

EXPOSED OR RECESSED

Aesthetically, at installation level, it can be exposed or recessed.

WITH OR WITHOUT HEATING

Electrical heat, water or simply without heat. Depending on the application, it will be more appropriate units that provide temperature, such as offices, loading docks in warehouses, receiving goods, communicated rooms in a factory, etc. or those that only provide air, without heat, to seal refrigerated spaces.



Installation

issues to consider

To get an efficient installation, the best moment is in the building work planning and it must be taken into account that:

- The air curtain unit should cover the entire width of the opening
- It must generate a sufficient air flow to cover the space from the curtain to the floor
- Air outlet must be unobstructed
- Easy access to maintenance of the curtain should be provided

These basic conditions are applicable both in commercial and industrial premises.

If the use of the curtain is to prevent the entry of flying insects or small rodents, the installation must completely cover the width of the door and even exceed it a bit so that no gaps are left free.



It can be placed both on the inside and outside of the door, but if the building leaves attractive odors for insects, it will be convenient to install the curtain on the outside of the door. It will be necessary that the curtain has a discharge diffuser that allows to guide the air with an adjustable angle between 15 and 20° outwards with respect to the vertical.

The air flow must have a minimum speed of 8m/s at 1m from the ground.

Possible applications

The applications of the industrial or tertiary air curtains are multiple



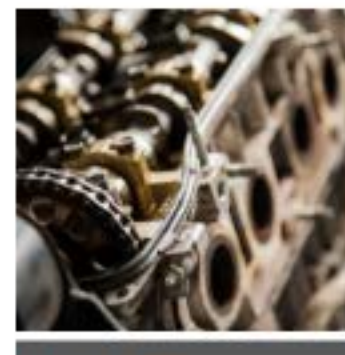
TERTIARY

- Avoid insects and rodents
- Small businesses entries
- Restaurants with open concept kitchens
- Offices
- Lobbies entries



INDUSTRIAL

- Refrigerated spaces
- Avoid insects and rodents
- Greenhouses
- Loading docks and receiving goods
- Between communicated spaces in factories
- Warehouses
- Drying chambers



LITTLE INDUSTRIAL

- Workshops
- Working space cubes

SHOPPING

NOW

Curtains COURSALIS

Casals Ventilación has the optimal and economical solution for tertiary applications and small industrial applications.

MAIN

FEATURES

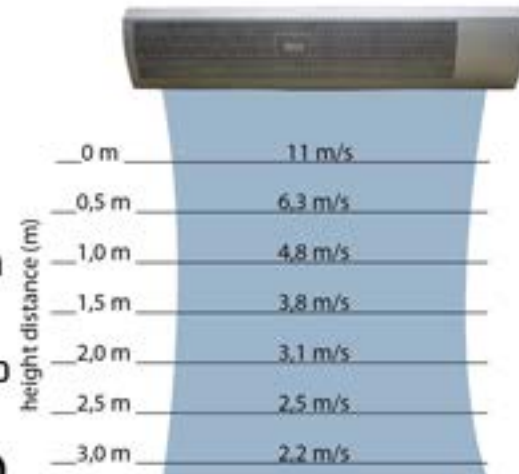
- High performance and low noise level.
- Metallic housing with metallic paint finish in grey colour.
- Any COURSALIS curtain can be installed on doors up to 3m high and in hollow widths of 1000, 1500 or 2000mm, providing a flow rate of up to 2400m³ / h.

2000 mm

1500 mm

1000 mm

2400 m³/h



THE

OPTIONS

The air curtains for tertiary of Casals Ventilación can supply only air, COURSALIS, or carry electric coils COURSALIS E, indicated for those premises equipped with heating, where it is common to lose temperature through windows or doors for the passage of people.





More information



Technical data



www.casals.com

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