APPLICATIONS

The presence of insects in food insdustry plants, restaurants, canteens, grocery stores, supermarkets, hospitals and other food premises, can lead to food contamination and consequently endanger public health.

Restaurants

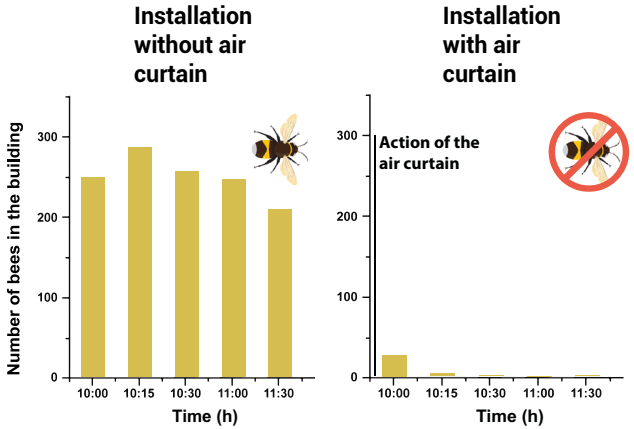
Food industry

Health sector

CASE STUDY: HONEY BEE COLONY

To test the deterrent effect, one of the insects with the highest inertia is chosen as the most unfavourable case.

Specifically, a study is conducted with a colony of 7500 honeybees in a building and a door is opened into a room with a food source.
If the entrance does not have an air curtain, the bees cross over to feed. On the other hand, when the air curtain is turned on and **the air jet speed is increased to over 7,5 m/s,** the bees stop coming in.
This study shows that **air curtains with a high velocity jet** according to **NSF-37 standard** are up to **99,9% effective against insects.**



Kairo, G. & Pioz, M. & Tchamitchian, S. & Pelissier, M. & Brunet, J.L & Belzunces, L.P. (2018) Efficiency of an air curtain as an anti-insect barrier: the honey bee as a model insect, INRA Laboratoire de Toxicologie Environnementale, UR 406 Abeilles & Environnement, Avignon.

www.airtecnics.com

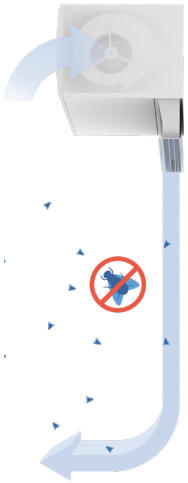
INSECT CONTROL AIR CURTAINS

Complete range of insect control air curtains with high-performance jets to minimize the entry of flies or other flying insects.

INSECT CONTROL AIR CURTAINS RANGE

According to NSF/ANSI 37-2012 "Air Curtain for entranceways for food and food service establishments", the minimum performance depending on the type of door is:

- In **service windows** the air jet must have a minimum velocity of 3,05 m/s at 1/3 distance from the vertical opening above the base of the service window.
- At **service doors** the air jet must have a minimum velocity of 8,1 m/s at 0,91 metres above the floor.
- At **customer entrances** the air jet minimum velocity at 0,91 metres from the floor must be 3,05 m/s.



In case of odours that may attract insects, it is recommended to install the air curtains outdoors to prevent the air stream from containing these odours.

FLY KL /KBB / KXL

High power and efficiency models recommended for **service doors** up to 3/3,5/4 meters high.

FLY K

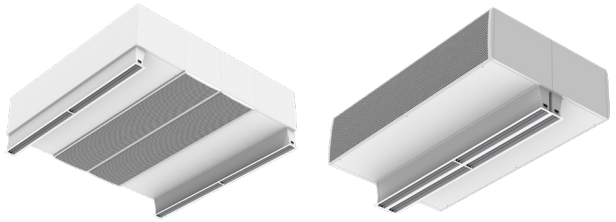
Compact and sleek design for **service doors** up to 2 metres high and for **clients doors**.

COMPACT FLY

Recommended to reduce the passage of insects in **service windows** or small openings.

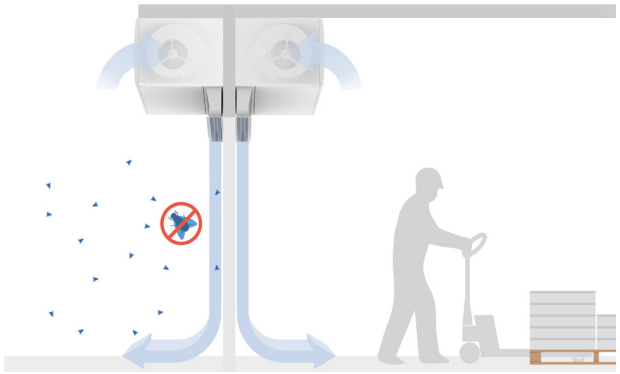
FLY DUO SYSTEM

FLY DUO System consists of double protection barrier with two air jets that increases the insect control effect in the most critical installations.



Fly Duo Without Plenum

Two FLY air curtains without plenum facing each other generate a combined jet whose flow rate and thickness is doubled, increasing the power and range of the air curtains.



Fly Duo With Plenum

A system of two air curtains with a jet at each side and a plenum in between creating a separation zone that is protected by two air barriers.