



High-speed door for laboratories and clean rooms

ferroflex
industrial access



Safe, airtight and clean work environments

At Ferroflex, we work to offer our clients safe work environments. For this reason, we have developed a new door for laboratories and clean rooms that meets the highest safety standards.


This door features **Class 5 air permeability** certification according to UNE-EN 12426:2000, the highest in its category.

Their design is optimised to maximise the hygiene required in this type of environment, along with the most effective airtightness, working with pressure differences of up to 50 Pascals. Furthermore, on an aesthetic level, the design makes the door blend with its surroundings.


High-speed doors also provide excellent thermal and acoustic insulation, contributing to a comfortable and efficient working environment. Equipped with sensors and safety mechanisms, our doors guarantee safe and reliable operation, protecting both staff and premises.


In addition, depending on the needs of each customer, the fabrics used for high-speed doors can be customised with iconography, images, logos or signage, depending on each case.


Ferroflex doors are the safest, most versatile and efficient solution for your premises.


 **Operational efficiency**

 **Safety**

 **Energy efficiency**

 **Thermal and acoustic insulation**

 **Robustness and durability**

 **Customisation**



Process control and sustainability

This door is designed for installation in environments that require the highest levels of safety, airtightness and cleanliness.

This door has been especially designed for laboratories and clean rooms which require Class 5 certification for air permeability, as well as for facilities that, although not requiring Class 5 certification, want not only safety for their processes, but also optimisation of ventilation and cleaning systems. By minimising air leaks, HVAC equipment can operate more efficiently, reducing energy consumption and, consequently, operating costs.

This model stands out because both the motor and the electronics are integrated within the same head, improving aesthetics as well as cleanliness. In addition, the new motor design reduces the door's operating noise to a minimum.

Option to install IOT Box, for the integration of the door in its environment, by means of Modbus communication protocol. Other protocols to be studied.

Main Features

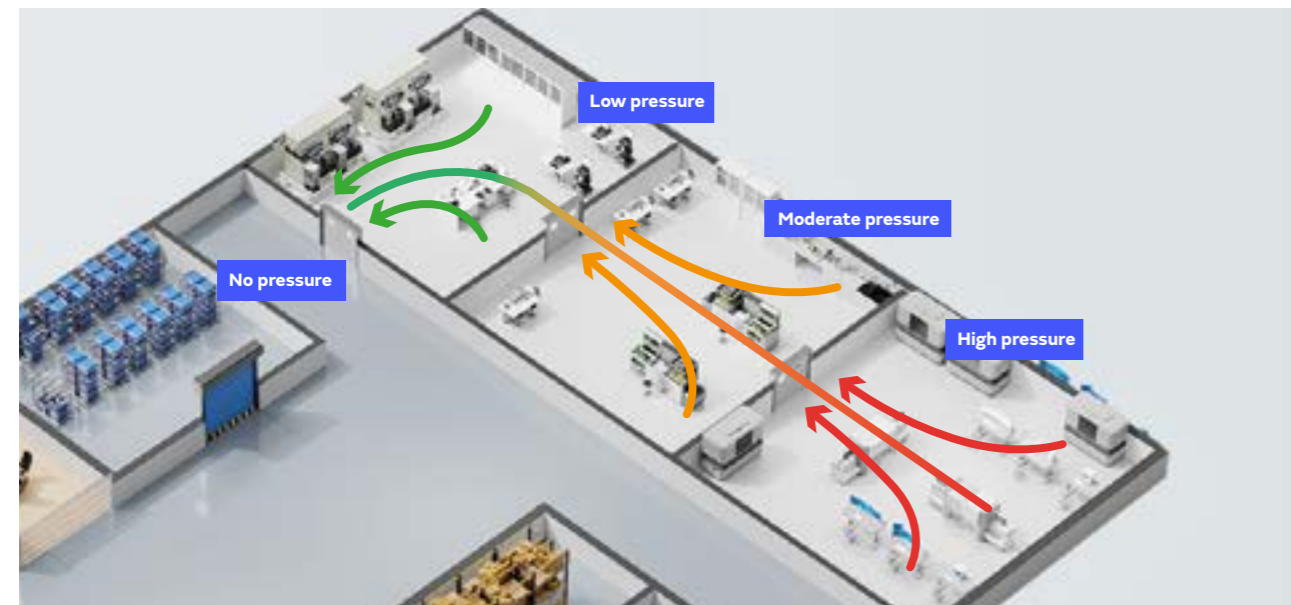
- Exclusive design for clean rooms and laboratories.
- Patented sealing system.
- Specific materials for the sector.
- Buttons integrated into the structure
- Patented mechanical system without springs.
- Double skirt to guarantee an airtight seal.
- Motor equipment and mechanical system for noise reduction.
- Proprietary electronics.
- Easy to clean, as the components are integrated into the head.

Benefits

Class 5 air permeability rating

Class 5 represents the highest level of airtightness achievable, ideal for ensuring the lowest air permeability as well as the greatest safety and efficiency in clean rooms. In these controlled environments, maintaining the overpressure generated by HVAC systems is essential to prevent the entry of contaminants. A door with maximum tightness not only minimises the risk of contamination, but also significantly reduces the energy consumption of HVAC systems. By reducing pressure losses, energy use is optimised, thus achieving great savings in operating costs.

Class 5, therefore, not only protects the environment, but also ensures the greatest energy and economic savings.



Typical clean room situation: system of rooms forming a cascade of overpressures to prevent the entry of contaminating agents. The direction of the air is from inside to outside.

Plug & Play

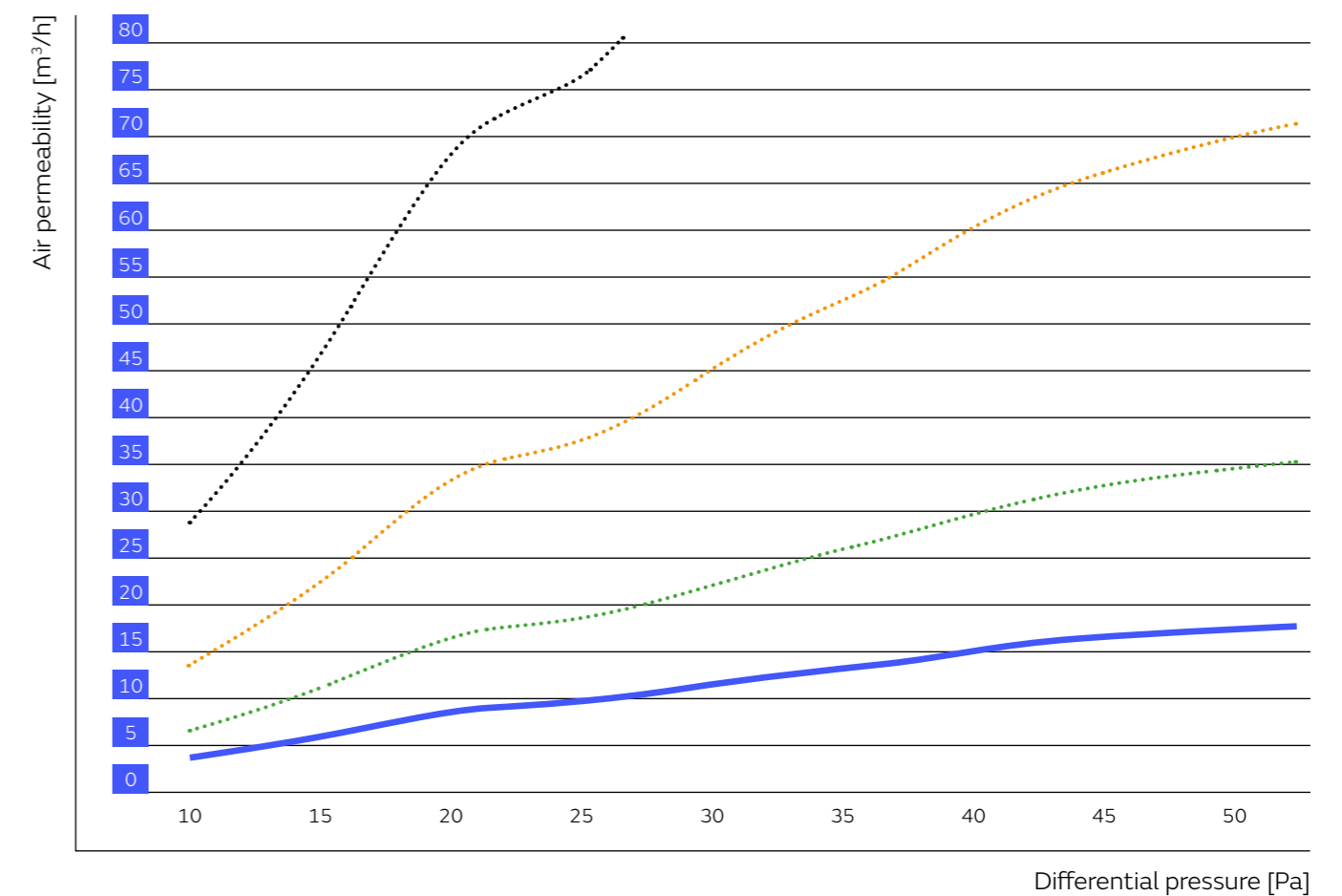
The installation of machinery in clean rooms often requires stopping production temporarily to prevent contamination risks. The faster the installation, the less downtime there will be, which translates into direct savings for the customer.

Our high-speed door incorporates Plug & Play technology, a system designed to minimise installation and commissioning times. All mechanical and electronic assemblies, as well as software configuration, are carried out in advance at the factory.

In this way, the installation only requires the door to be placed and connected, so that traditional on-site assembly becomes a thing of the past. With Plug & Play, we optimise processes, reducing installation and down time costs at the plant.

Air permeability*

Door size 12 m². Non-linear interpolation for different door sizes.



■ Class 2 door ■ Class 3 door ■ Class 4 door ■ Class 5 door (New Ferroflex door)

* All air permeability classes according to UNE-EN 12426.

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