



# Halo 35 C & P Smart

Filtration of gases,  
viruses and bacterial pollutants

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## Autonomous and connected IAQ purification system

Laboratory, Controlled environment,  
Indoor air pollution.



### True smart filtration stations

**Halo 35 C and P Smart** ensure clean air by filtering out all gases, inert or living particles, and viral and bacterial pollutants at the source or across the entire volume.

The **Halo 35 C and P Smart** offer a high level of air quality without having to connect to HVAC systems.

All filters meet the highest professional quality standards for molecular and particulate laboratory air filtration.

### SMART TECHNOLOGY

Real-time communication via LED light pulse intuitively alerts the user to the operating status of the device

Internal Port Building Management (BMS)

4 ceiling suspension rings

The exclusive Erlab modular filtration column allows the use of one between the following option:  
3 laboratory-grade molecular filters and 2 HEPA and ULPA particle filters

A dedicated air quality sensor (Halo 35 C only)

Particle prefilter

Access chamber for easy filter and fan replacement

4 clean air diffusers evenly distribute filtered air throughout the room

Ethernet port or wifi connection for remote monitoring of your safety

Particle Post-Filter (Halo 35 C only)

Controller for airflow regulation

## Decontaminated Air

**Halo 35 C and P** ensure that the air in all closed environments (cleanrooms, sensitive environments, laboratories) are decontaminated against all chemical, viral and bacterial pollutants.

**Halo 35 C** stand-alone filtration stations (VOCs, formaldehyde, Chemplus) guarantee complete molecular filtration (in accordance with the safety standard for laboratory molecular filtration NF X15-211) of a wide variety of air pollutants that can pose a threat to the health of all occupants of an enclosed space.

In order to provide the best particle filtration technology, we have equipped our **Halo 35 P** units with a HEPA H14 particulate filter or a ULPA U16 particulate filter for the most critical health risk situations.

In accordance with the EN 1822 particle filtration standard, our HEPA and ULPA filters offer a very low particle penetration factor and achieve a dust-free air filtration efficiency of 99.995 (H14) to 99.9995 % (U16).



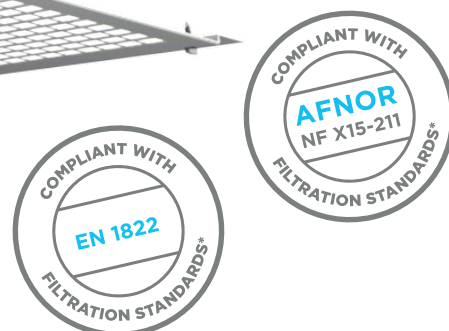
Halo air function.



Proven leak testing methodology allowing the Halo 35 P to integrate the controlled environment qualification procedure.

### Halo 35 C and P are equipped with:

- Particle prefilter
- Particle postfilter (**Halo 35 C**)
- Laboratory-grade solution to VOC, formaldehyde or Chemplus activated carbon filter hat complies with the NF X15-211 molecular filtration standard offering a wide spectrum of gas filtration efficiency. (**Halo 35 C**)
- A dedicated air quality sensor. (**Halo 35 C**)
- laboratory grade particle filter **HEPA or ULPA** compliant with the EN 1822 particle filtration standard offering a filtration efficiency of up to 99.9995% allowing effective capture of all viruses and bacteria. (**Halo 35 P**)





Model  
**Halo 35 Smart**

Model  
**Halo 25 Smart**





## Air compensation: an aeraulic strategy focused on energy savings

### For example

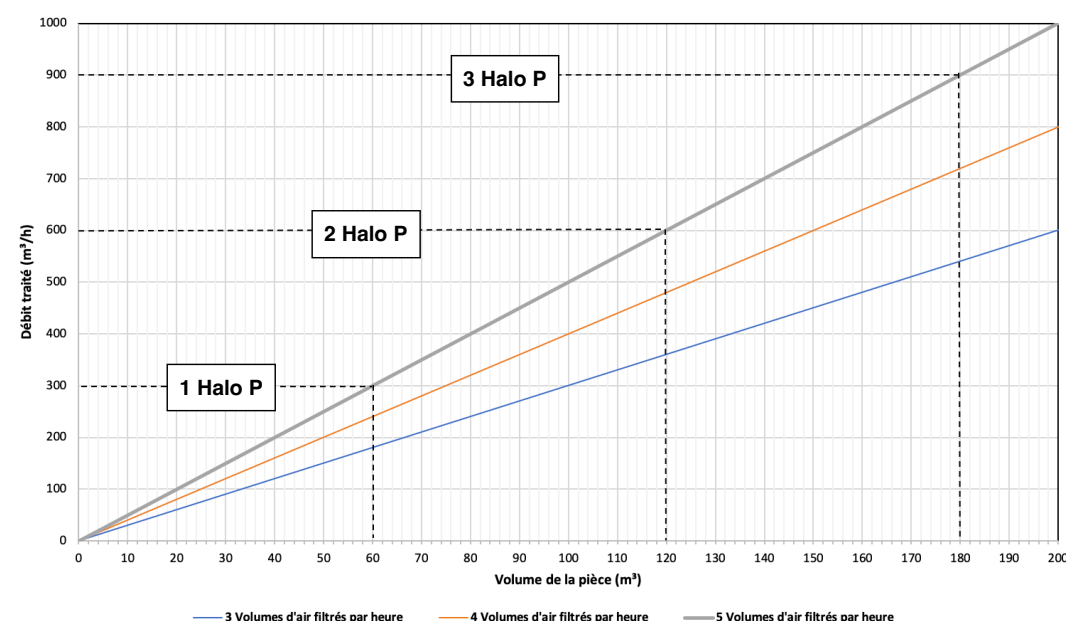
The Halo 35 P has a maximum air flow rate of 300 m<sup>3</sup>/h

- If your premises has a suitable and well-sized ventilation system, 3 volumes of filtered air per hour will therefore be suitable to ensure sufficient comfort and safety.  
A Halo 35 P will be able to cover up to 100 m<sup>3</sup> in this case.
- If your room has an old, unsuitable or even non-existent ventilation system; In this case, it is strongly recommended to opt for 5 volumes of filtered air per hour, according to the recommendations of the High Council of Public Health, in order to ensure sufficient comfort and safety.  
In this case, a Halo 35 P can cover up to 60 m<sup>3</sup>.

For more information: <https://www.erlab.com/apac/air-pollution-control/halo-35-p-smart-apac/>

## Number of Halo 35 P depending on the recirculated air flow rate & the volume of your room

According to the recommendations of the High Council of Public Health of September 3, 2021



## Highlights



### Filtration

Demand the best in filtration quality



### Simple to use and install

Easy to install, works 24/7, easy filter replacement. Simple communication via pulsating light



### Safety

Molecular and particulate lab-grade filtration. Real-time air quality



### Connectivity

Connect your device and track its usage

## Energy Saving and Air Safety

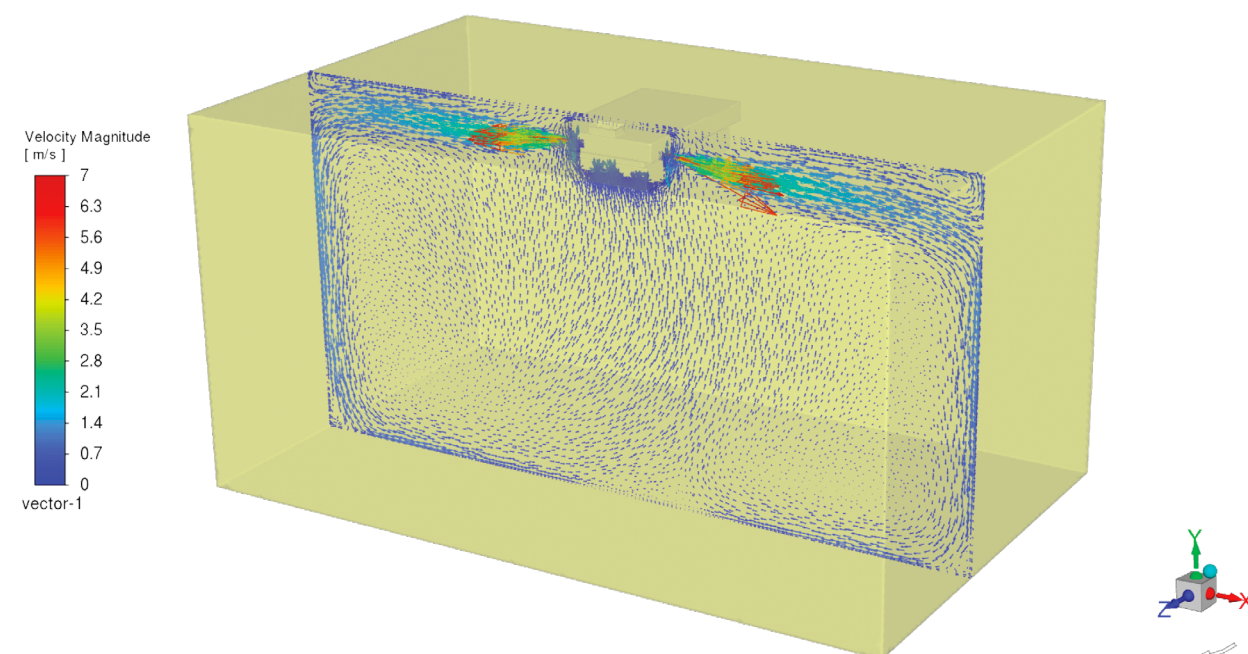
Installing a Halo 35 C or P in an enclosed area ensures a high level of air quality while compensating for the existing ventilation system. The volume of filtered air (VAF) provided by the Halo can allow the air handling unit (AHU) to reduce the air exchange rate while improving the indoor air quality (IAQ).

Designed to meet your needs and complement your building management, the **Halo 35 C and P** can be easily installed on the ceiling according to the existing air configuration and without connection to any building infrastructure, such as ventilation duct system.

Their position on the ceiling makes it possible to effectively filter inert or microbial particles suspended in the air (PM 1 - PM 2.5 subject to little gravity) and a wide spectrum of chemical pollution. A complete risk analysis is offered to you by our specialists to determine the best implementation strategy. It is accompanied by an airflow visualization, with augmented reality, which makes it possible to **remove resting air zones or dead zones and to provide additional filtered air volume.**

Thanks to its positioning on the ceiling, the Halo effectively filters airborne particles (PM 1 - PM 2.5 subject to low sedimentation) and gases.

In the image below, you will find the **Halo 35 P** self-contained air handler positioned in the center of the room; The movements of the air flows are represented by the blue dots.



Velocity vector in a plane passing through the Halo 35 device.

## Smart: Be informed

The **Halo 35 C and P** air filtration stations are all equipped with **Smart technology**. This simple and intuitive communication technology through light informs about the level of protection. Thanks to the light pulses, room occupants are informed in real time of the performance and status of each Halo 35.

With our in-car service, monitor every **Halo 35** and change the settings.



	Gas / Vapours			Particules / Aerosols	
	VOC	Formaldehyde	Chemplus	HEPA	ULPA
	Halo 35 C			Halo 35 P	
External lenght (mm)	592 mm			592 mm	
External depth(mm)	892 mm			892 mm	
External height (mm)	303 mm			303 mm	
Airflow	220 m³/h			300 m³/h	
Standards compliance	Filtration performance tested according to the conditions of the AFNOR standard NF X 15-211: 2009: France EN 1822: 1998 (HEPA H14 & ULPA U16 filter) - CE marking				
Voltage Frequency (V/Hz)	100-230 V / 50-60 Hz			100-230 V / 50-60 Hz	
Energy consumption	50 W			50 W	
Running modes	24/24h - 7/7, Day / Night, Min Max detection, detection value only			24/24 h - 7/7, Day / Night	
Ceiling Installation	via 4 suspension rings (included)			via 4 suspension rings (included)	
Weight (kg)	31 kg (including filter)			31 kg (including filter)	

## Accessories

Communication Interface	Simple communication by light pulsations: ventilation parameters, fan failure, Air Quality Performance Monitoring			
eGuard® app (Android or iOS)	Alarm App for real-time remote control of security settings - compatible with PC, tablet and smartphone			
Connectivity	Connection via ethernet port (RJ45) or wifi			
Performance sensors for the Air quality	Semiconductor sensor for VOC	Electrochemical sensor for formaldehyde	Semiconductor or electrochemical for a wide range of pollutants	Timer-based

## Options

Carbon Filtration for gases and vapours	For organic vapours	For formaldehyde vapours	For organic vapours and acid vapours	/
Particle Filtration for powders	/			HEPA H14 filtration efficiency: 99.995% according to MPPS standard IN 1822
				ULPA U16 filtration efficiency: 99.99995% according to MPPS method, EN 1822 standard
Prefilter	Particle filter			
Postfilter	Particle filter			/

## Structure

Main unit	Coated anti-corrosion steel (100% polyester)	
Filtration module	Injected polypropylene	Aluminium

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