HALO Smart

Professional Laboratory Grade Air Purifiers

Filtration of Gas, Viral & Bacterial Pollutants

Compliant with GAS or Particulate filtration standards

- Autonomous filtration unit no HVAC connection required

- Real time room and system monitoring technology

- Fast and simple to install

- Does not take floor space

- Very low energy consumption (50w)

- Captures chemical emissions and aerosolized contaminants at the source

- Zero release of pollutants to atmosphere

- Intuitive Smart light communication

- Remote management by app

- Alarm contact for BMS and BAS systems

Laboratory

Office

Classroom

HALO Smart purifiers guarantee laboratory grade air quality by filtering all gas, viral and bacterial pollutants at the source.

HALO Smart purifiers deliver a high level of air quality without having to rely upon central HVAC systems while generating substantial energy savings.

All **HALO** units comply with the most stringent professional molecular and particulate laboratory air filtration quality standards.

SMART TECHNOLOGY

Simple intuitive communication by light ring pulsations shows the status of the **HALO** unit

Alarm contact for BMS & BAS systems

Ethernet port for remote safety monitoring

4 ceiling suspension rings

8 Clean air injectors circulate clean air with Coanda flow dispersion air flow

Filter performance sensor & alarm

Postfilter

Pulse-Width Modulation controlled fan

Prefilter

ERLAB exclusive modular filtration column allows for the use of any one of:

- 4 laboratory grade molecular filters
- 2 laboratory grade particulate **HEPA** and **ULPA** filters

Easy filter & fan replacement access chamber

Compliant with
AFNOR
NFX 15-211
filtration standards

HALO C

Compliant with
EN 1822
filtration standards

HALO P

Installation

Ceiling mounted
HALO C or Halo P

Wall-mounted (optional Wall adapter frame)
HALO HEPA only

Halo air purifier units can either be installed on the ceiling or vertically on a wall and do not take valuable floor space

Simpler to use, safer to operate

Decontaminated air

HALO SMART reduces propagation of all chemicals, viruses, and bacterial pollutants . The Halo works with two filter types, carbon filtration powered by Neutrodine technology ®, and Particulate HEPA H14, or ULPA U17 filters. The Carbon filter "adsorbs" toxic chemical emissions present within the ambient air (compliant with AFNOR NF X 15-211 laboratory grade molecular filtration safety standard), while the HEPA/ULPA filter "absorbs" viruses, allergens, and bacterial pollutants. A combination of Halo's can be installed in any room to provide optimal protection and a cleaner environment, so you can breathe.

In order to offer the best particulate filtration technology, we have equipped our **HALO HEPA** purified air units with a **HEPA H14** laboratory grade particulate filter or when necessary a **ULPA U17** particulate filter for the most critical health risk situations.

According to **EN1822** particulate filtration standard our **HEPA** and **ULPA** offer a very low particulate penetration factor and can achieve dust free air filtration efficiency of 99.99995% which is 10 to 1,000 times more powerful than common air purifier units found on the market.,

These filters are designed for the most complex sanitary situations. They efficiently and significantly reduce the propagation of all airborne viral and bacterial pollutants. These types of filters are found in clean-rooms and in all laboratory grade microbiological safety cabinets for the safe handling of pathogenic microorganisms.

HALO C and HALO P are all equipped with a:

- Prefilter
- Postfilter (**HALO Carbon** only)
- VOC, Formaldehyde or Chemplus laboratory grade carbon filter compliant with molecular filtration **NF X 15-211** standard offering a wide gas filtration efficiency spectrum. **HALO Carbon**
- Dedicated air quality sensor. **HALO Carbon** only

- **HEPA** or **ULPA** laboratory grade particulate filter compliant with particulate filtration **EN 1822** standard offering filtration efficiency of up to 99.99995% offering an efficient capture of all viruses and bacteria. **HALO P**
- Pulse-Width Modulation controlled fan allowing for a 220 to 300 m^3 per hour or 130 to 175 ft^3 per minute of air treatment. The **HALO** unit can treat an area ranging from 25 m^2 or 269 ft^2 of space, up to 35 m^2 or 377 ft^2 of space, depending on the application.

Filtration

Demand the best, industry certified, filtration quality.

Simple to use and operate

Easy to install, runs 24/7, easy filter replacement. Simple communication by light pulsations.

Safety

Laboratory grade Molecular & Particulate filtration. Real time air quality gas sensor.

Connectivity

Connect your device and monitor its use remotely via our mobile app solutions.

Energy savings & air safety

Installing a **HALO Smart** in a lab, office or classroom will ensure a high level of air quality without having to rely upon heavy air renewal systems or HVAC which can redistribute chemical or biological airborne pollutants throughout a building. Additionally, by constantly filtering the air in the room, without releasing it back to the atmosphere, substantial energy savings can be achieved.

Easy to install - 24/7 - does not take floor space

HALO Smart air purifier units can easily be installed on the ceiling or on the wall (optional wall adapter frame sold separately) and do not take up valuable floor space unlike other air purifier units on the market. They are directly connected to the building's main powerlines and therefore cannot be accidentally unplugged. **HALO** units are designed to run quietly 24/7 and contribute to a significant level of air treatment per minute or hour .

Smart: be informed

HALO Smart air purifier units are all equipped with **SMART Technology**. This technology allows for a simple and intuitive communication by light interface which informs every user of their level of protection. Through light pulsations room occupants can be informed in real time about the performance and status of every **HALO** unit.

Go further and download the **eGuard**® App and monitor every **HALO** unit, change settings while receiving safety alerts immediately on your mobile, tablet or PC device.

	Gas / vapors			Particulates / Aerosols	
	VOC	**Formaldehyde**	**Chemplus**	**HEPA**	**ULPA**
	HALO C			**HALO P**	
External width (mm / in)	592 / 23$^{1/4}$			592 / 23$^{1/4}$	
External depth (mm / in)	892 / 35$^{1/4}$			892 / 35$^{1/4}$	
External height (mm / in)	260 / 10$^{1/4}$			303 / 12	
Air flow (m3/h / CFM)	220 m³/h / 130 CFM			300 m³/h / 176 CFM	
Safety Standards :	AFNOR NF X 15-211:2009 : France - BS 7989 : England - DIN 12 927 : Germany - EN 1822 : 1998 (HEPA H14 & ULPA U17 Filters) - CE Marking - UL Listed				
Voltage / Frequency (V/Hz)	80-240VAC 50/60Hz			80-240VAC 50/60Hz	
Power consumption	50 Watt			50 Watt	
Operating mode	24/7, day / night, Alerts				
Ceiling mounted	Hung via 4 eye bolts (included)			Hung via 4 eye bolts (included)	
Wall mounted				Wall adapter frame (optional)	
Weight (kg/lbs)	31 kg - 68 lbs (filter included)			31 kg - 68 lbs (filter included)	
Protected surface (m²)	25 m² / 269 ft²			35 m² / 377 ft²	

Features

Communication interface	Simple communication by LED pulsations: fan settings, usage timer, fan failure, automatic filter performance detection				
eGuard® app	App for remote control to monitor HALO units, change the settings, and deliver safety alerts immediately to your devices (mobile, tablet and PC).				
Connectivity	RJ45 ethernet cable connection				
Filter performance sensors	Semiconductor for VOCs	Electro-chemical sensor for Formaldehyde	Semiconductor for a wide array of pollutants	Timer Based	

Options

Carbon filtration for gases and vapors	AS : For organic vapors	F : For formaldehyde vapors	BE+ : For organic vapors and acid vapors		
Particulate filtration for powders				HEPA H14 filtration efficiency: 99.995 % according to MPPS method, EN1822 standard	ULPA U17 filtration efficiency: 99.999995 % according to MPPS method, EN1822 standard
Prefilter	Particulate filter				
Postfilter	Particulate filter				

Structure

Metallic frame	Anti-corrosion steel coated with 100% polyester	
Filtration module	Injected polypropylene	Aluminum

France
+33 (0) 2 32 09 55 80 | ventes@erlab.net

United States
+1 800-964-4434 | captairsales@erlab.com

China
+86 (0) 512 5781 4085 | sales.china@erlab.com.cn

Spain
+34 936 732 474 | ventas@erlab.net

Germany
0800 330 47 31 | verkauf@erlab.net

United Kingdom
+44 (0) 1722 341 940 | salesuk@erlab.net

Italy
+39 (0) 2 89 00 771 | vendite@erlab.net

erlab **www.erlab.com**