

UVGI-SA Halton Sentinel™

Air purifiers with UVGI technology (Ultraviolet Germicidal Irradiation)
Mobile (UVGI-SA) or wall installation (UVGI-SA-W)



The Halton Sentinel™ Unit belongs to Halton Safeguard Risk solutions for the fight against virus and bacteria spread and transmission. They directly contribute to the safety of indoor environments occupants, whether customers, guests or employee.

Equipped with UVGI technology (Ultraviolet Germicidal Irradiation), the Halton Sentinel™ air purifiers specifically address the risk of disease transmission by respiratory ways by neutralizing in a very efficient way the airborne pathogen agents.

The large treatment capacity of Halton Sentinel™ purifiers represents an important flow rate of a clean air equivalent which adds to the fresh air brought from outside by the ventilation. The result is a great reduction of the infection probability of occupants in good health by others who may be sick.

Halton Sentinel™ air purifiers strengthen the occupants protection resulting from the stronger sanitary measures adopted during sensible periods such as mask wearing, social distancing, hands and surfaces disinfection etc.

Tested by an independent laboratory, Halton Sentinel™ air purifiers are a cost effective solution to make indoor environments safe for all occupants.

Halton Sentinel™ greatly reduce the probability of airborne infection



Example of a restaurant with a capacity of 30 seats and a ventilation rate of 22 m³/h/person. The Halton Sentinel™ air purifier it is equipped with treats and recirculates 1700 m³/h of clean and disinfected air. The airborne infection probability is then **reduced by 3.0 times***.

Example of a classroom with a capacity of 18 students and a ventilation rate of 15 m³/h/person. The Halton Sentinel™ air purifier it is equipped with treats and recirculates 850 m³/h of clean and disinfected air. The airborne infection probability is then **reduced by 3.2 times***.

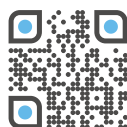
* Based on Wells-Riley risk model associated with airborne transmission of respiratory diseases and on efficiency tests carried out by an independent laboratory on the Halton Sentinel™ air purifiers. Probability for the reported deactivation rate for Corona-type virus $k=0.00377 \text{ cm}^2/\mu\text{J}$ and for a 20 mn exposure to an infected person in the group.

Description

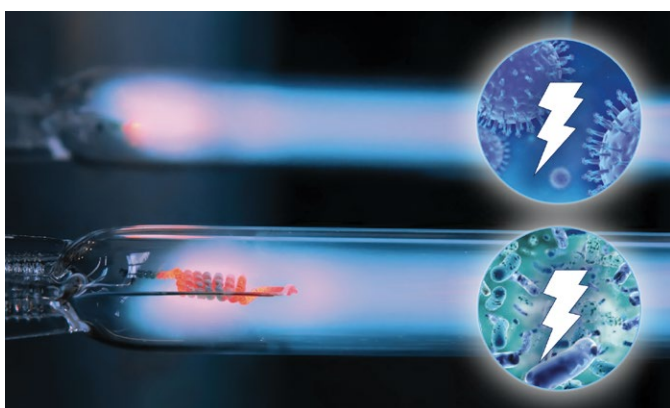


- Tested by an independent laboratory.
- Very efficiently neutralizes the airborne pathogen agents.
- High recirculating capacity with up to 2040 m³/h treated air.
- Important clean air equivalent after treatment (CADR Clean Air Delivery Rate).
- Important reduction of the airborne infection probability in indoor environments.
- 13000 hours lifetime for the UV-C tubes (4,5 years use at 8 hours a day).
- High efficiency UV resistant fiber glass MERV 13 filters (EN ISO 16890, ePM1 50-70%, ePM2.5 >65%).
- Purifier's radiance factor: 152 mm.
- Filters replacement every 6 months or every 1200 hours.
- Filters constantly exposed to the UV-C for a safe maintenance without contamination risk.
- Very low operating and maintenance costs.
- Control by LCD touch screen.

- Possibility of distant control (on, off, speed) by Bluetooth connection from the myPersonify app (iOS and Android).
- Steel construction with baked Powder coat finish.
- Heavy-duty locking casters (UVGI-SA).
- Plug and play, 230 V/60 Hz, 374 W, delivered with plug and cord.
- Available in black or white.






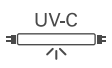
Download the report of the tests carried out on Halton Sentinel™ units by LMS Technologies independent laboratory.



The **Ultraviolet Germicidal light** are known for their ability to neutralize viruses and bacteria. The specific irradiation peak at 254 nm rearrange their genetic information when absorbed by their DNA.

The lesions caused interfere with the cell's ability to reproduce. A virus or bacteria that cannot reproduce is considered dead as it is unable to multiply to infectious numbers.

Features and dimensions

	 Q _R [m³/h]	 Q _R [l/s]	Lp ⁽¹⁾ [dB]		 UV-C		
UVGI-SA	1360 / 1700 / 2040	378 / 472 / 567	- / 55 / 65	4 x MERV 13*	2	374 W @ 230V/50Hz	64 kg
UVGI-SA-W	510 / 850 / 1190	142 / 236 / 330	47 / 57 / 64	3 x MERV 13*	2	374 W @ 230V/50Hz	55 kg

*MERV 13 (ASHRAE 52.2)
 Equal F7 (EN779)
 Equal ePM1 50-65% / ISO ePM2,5 65-80% / ISO ePM10 >85% (ISO 16890)

- 01 - Air inlet - Perforated panel

02 - Air outlet - Perforated panel

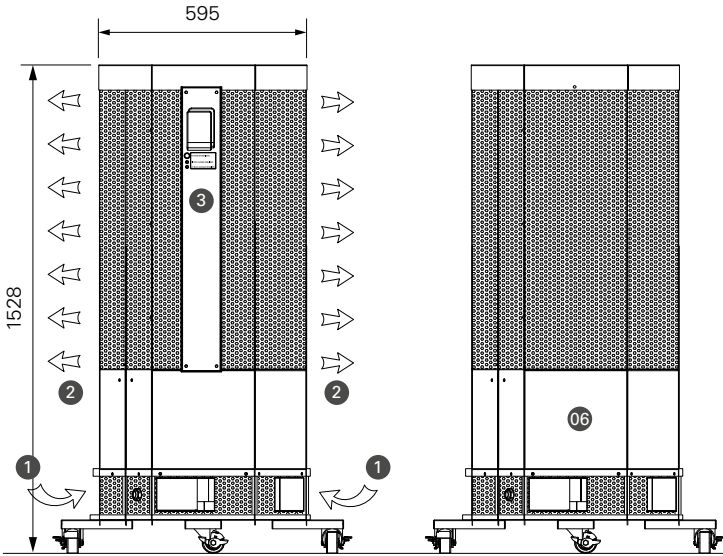
03 - Touch Screen and power indication light

04 - UVGI bulbs
- 05 - Filters

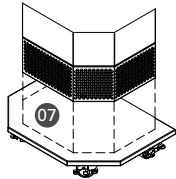
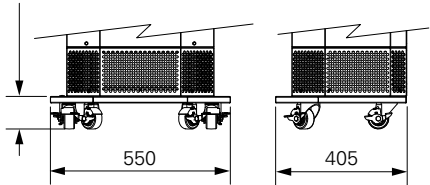
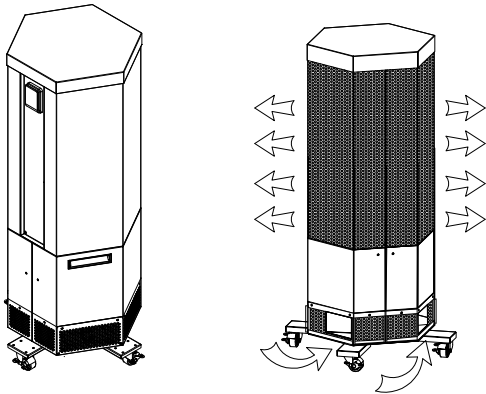
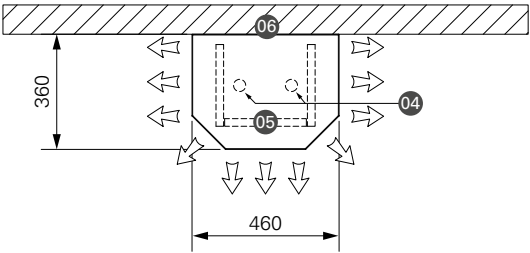
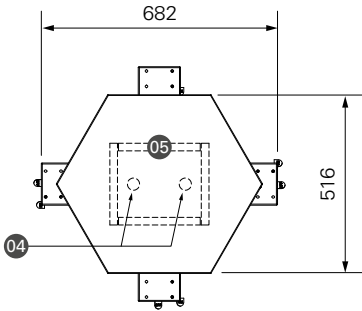
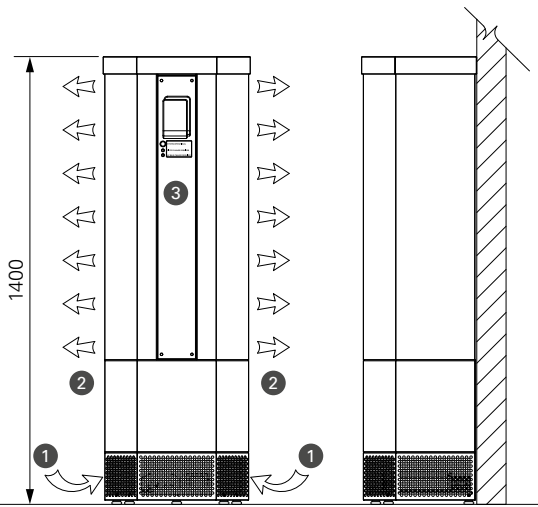
06 - Access for electrical and fan at rear

07 - Optional wheels for UVGI-SA-W

UVGI-SA



UVGI-SA-W



Suggested specifications

The air purifiers shall be Halton Brand, UVGI range. The UVGI-SA purifier is mobile whilst UVGI-SA-W model is designed for wall installation.

The model and number of purifiers shall be determined based on the manufacturers recommendations, depending on the regulatory minimum ventilation rates, the treatment capacity of the purifiers and the infection probability's reduction required by the local authorities or the end users.

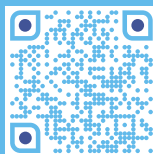
The purifiers shall be plug and play and the following specifications shall be fully observed.

- The air purifiers shall be equipped with UV-C tubes of UVGI type (UV Germicidal Irradiation) with an irradiation peak at 254 nm. UV-C tubes outside of the 254 nm range or producing ozone are expressly prohibited. Their lifetime shall be at least 13,000 hours.
- The action of the UV-C tubes shall be supplemented by disposable fine filters MERV 13 made of fiberglass (EN ISO 16890, ePM1 50-70%, ePM2.5 >65%) whose role is to efficiently capture the aerosols and bioaerosols.
- All filters surface shall be exposed to the UV-C irradiation for an efficient neutralisation of the bacteria and viruses which adhere

to the aerosols to form the bioaerosols. The filters replacement is at the same time safer.

- The unit exterior shall be constructed of stainless steel. It shall be partially perforated at 29% for a low velocity discharge of the purified air in the room.
- The interior of the unit shall be constructed of aluminized steel for corrosion protection.
- The air purifier shall be equipped with a LCD touch screen to switch it on or off and to select the operating speed. The touch Screen shall enable the purifier's control with mobile devices via a bluetooth connection.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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