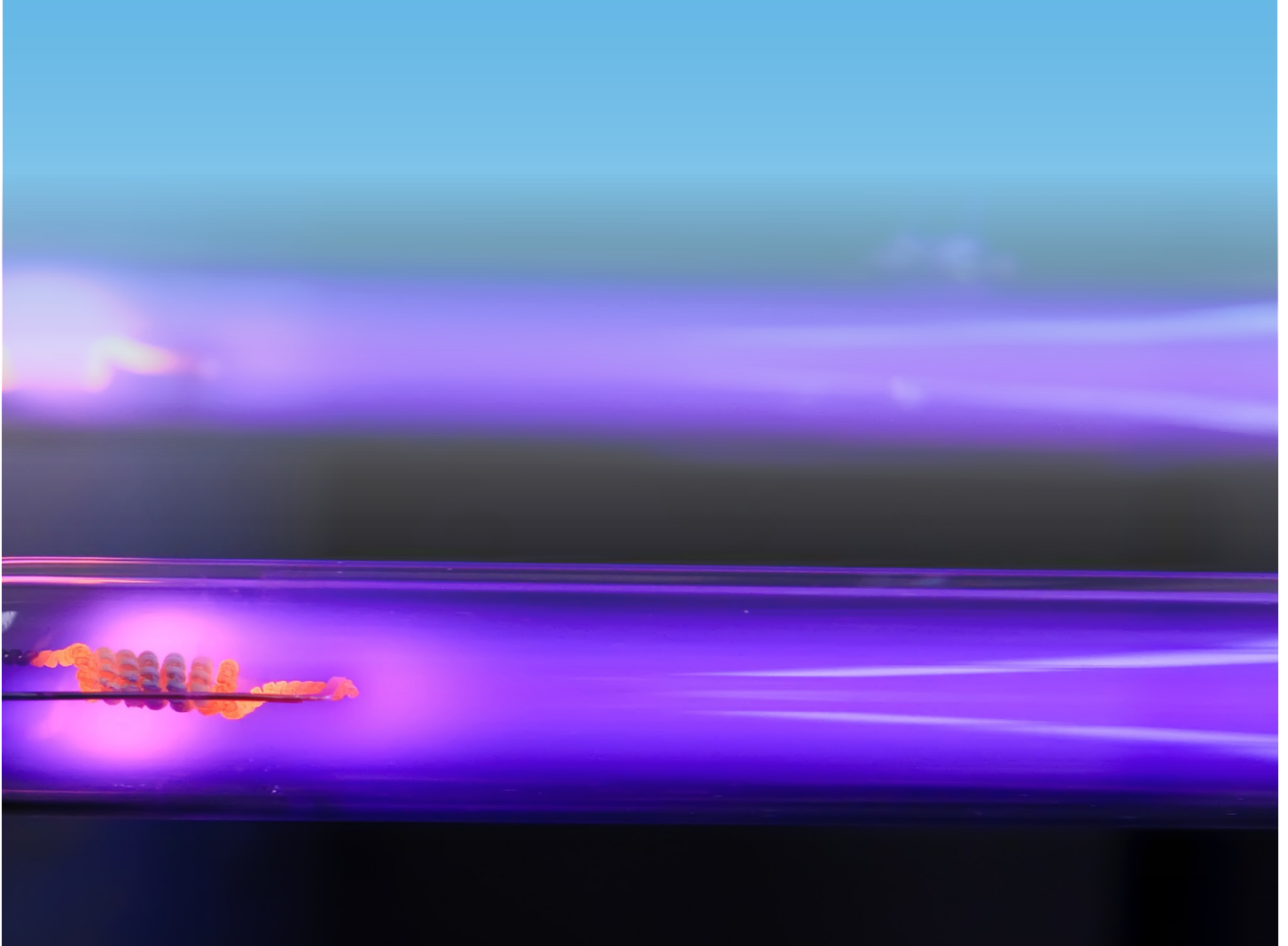
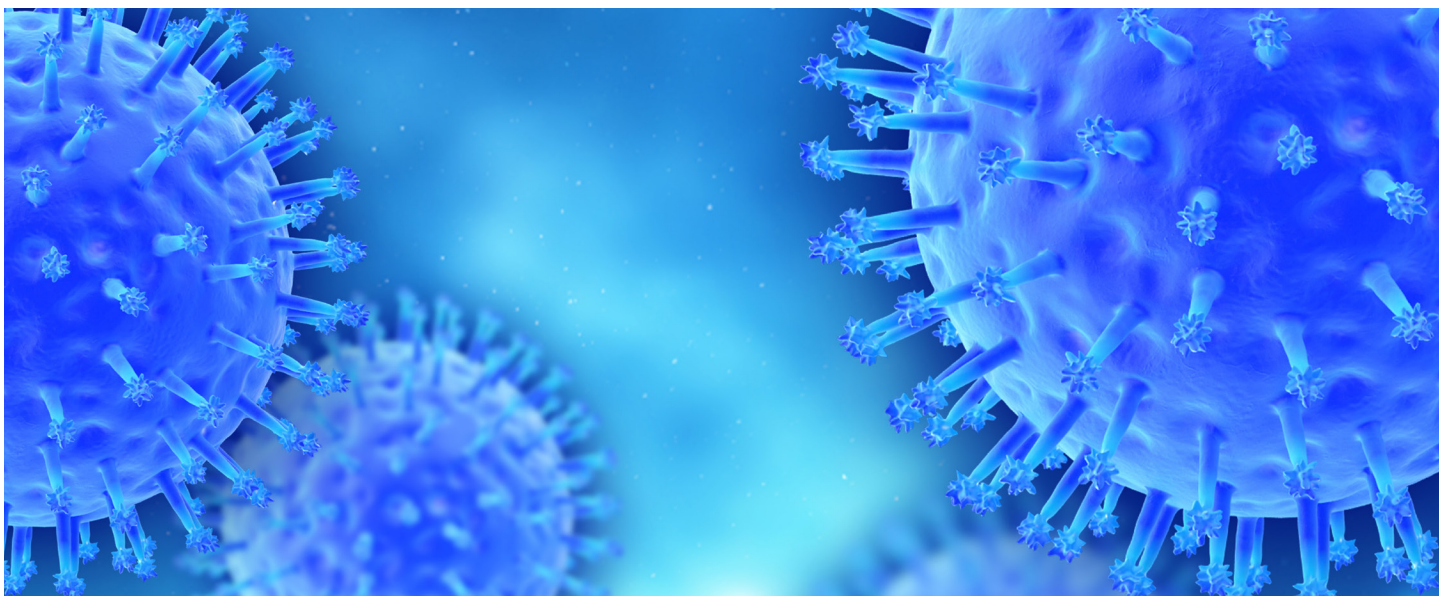


Halton SafeGuard Risk Solutions for Food Service

Proven Ultraviolet Germicidal Irradiation (UVGI) Systems, Making Guests and Employees Safer by Reducing Risk of Virus Spread





What are the ingredients of virus spread?

There are a number of factors that can decrease or increase the spread of a viral contagion in an indoor environment.

Proximity to the infected

- Aerosol droplets have shown to travel approximately 3-7 feet from the source
- Smaller aerosols ($<10\text{ }\mu\text{m}$) may stay airborne and infectious for extended periods of time (several minutes, hours or days)
- Social distancing was advised as the first line of defense to minimize the virus spread

Contaminated Surfaces

- Depending on particle size, they deposit on surfaces where transfer can take place to an uninfected party

Risk Mitigation of Viral Transmission

The products presented here are the result of extensive 3rd party and Halton Health Segment documented research regarding the effectiveness of filtration and Ultraviolet light in the 254 nm wavelength on the mitigation of viral contagions.

- These products are not to be construed as a standalone solution.
- These products work in conjunction with other remediation efforts such as sanitizing requirements (wiping down surfaces, social distancing etc.).
- The effect of employing all the recommended methods work to reduce the likelihood of spreading viruses.



Halton Foodservice Anti-Viral Solutions

Healthcare facilities have had established criteria for ventilation design to mitigate airborne transmission of infectious disease, Halton Health Segment has done extensive research in this area. Halton Foodservice is sharing this knowledge to provide proven technology for deployment in the food service environment with our SafeGuard Risk UVGI Solutions.

1. UVGI Mobile Filtration Unit
2. UVGI Overhead Lighting





Ultraviolet Germicidal Irradiation
Halton SafeGuard Risk Solution

UVGI Mobile Filtration Unit

The **UVGI Mobile Filter Unit** is suited where a permanent installation is impractical and can be moved to any area requiring Germicidal Irradiation.

- Recirculates back into space
- Plug and Play, Portable
- 120/1 6' Cord & Plug Set
- Clean air delivery rate up to 1000 cfm

For example, typical classroom of 25 students will have ventilation rate^{1,2} of 250 cfm. (10 cfm of outside air per student) Adding 1000 cfm of clean disinfected air will reduce probability of airborne infection by 4.4 times³

Other infection probability rates can be calculated by application and occupancy

- Estimated Bulb Life is 13,000 Hours



- UV Resistant MERV 13 Air Filter
- Controls Interface - Touch Screen HMI
- Steel Construction with Baked Powder Coat Finish and Heavy-Duty Locking Casters.
- Sound Data: 55dB Normal Operation

¹Based on measured UV dosage and reported deactivation rate for Corona-type virus $k = 0.0038 \text{ cm}^2/\mu\text{J}$

²Per ANSI/ASHRAE Standard 62.1-2019

³Based on Wells-Riley risk model associated with airborne transmission of respiratory diseases



Ultraviolet Germicidal Irradiation
Halton SafeGuard Risk Solution

UVGI OVERHEAD LIGHT

The **UVGI Overhead Light** is a 24" by 48" fixture designed to fit in standard ceiling system. Multiple units throughout the space can be utilized during unoccupied times to disinfect up to 99.99% of all exposed surfaces.

- Multiple Units throughout the space to be energized during unoccupied times to disinfect up to 99.99% of all exposed surfaces.
- UVGI (Ultraviolet Germicidal Irradiation)
- Viral & Bacterial
- Influenza
- Various Salmonella Species
- Halton Control System Main PLC
- Occupancy Sensors
- Timers
- Integrated to Halton Connect



ABOUT US

Halton Group is the global technology leader in indoor air solutions for demanding spaces. The company develops and provides solutions for commercial and public premises, healthcare institutions and laboratories, professional kitchens and restaurants as well as energy production environments and marine vessels. Halton's mission is to provide its end-users with safe, comfortable, and productive indoor environments that are energy-efficient and comply with sustainable principles.

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