



## UVC Disinfection for Schools

**Rest easy with Safeology™, a comprehensive suite of solutions that create the safest, cleanest classrooms and education spaces.**

# Three reasons schools are turning to Safeology to fight COVID.

## A new paradigm centered around UVC cleaning.

From universities to schools to daycare centers, when students and educators come together their gathering places can become germ generators. Shared classrooms. Shared locker rooms. Shared lunchrooms. And with that, shared viruses and illnesses.

At no time has this become more apparent than during today's COVID crisis. As the pandemic's toll on schools has grown, so too has the now-universal understanding that UVC disinfection can stop deadly viruses like SARS-CoV-2 in their tracks.

A new paradigm of cleaning and disinfection centered around the use of UVC light is now the norm, the new gold-standard. Safeology™ leverages this power of UVC light to keep schools clean and safe by eliminating up to 99.9% of surface and airborne pathogens, including the SARS-CoV-2 virus.

## A comprehensive suite of UVC solutions.

Safeology has developed a comprehensive approach to fighting COVID, one that can be easily customized to your school's unique situation and needs.

**UVC Upper Room Fixtures.** Safeology™ UVC Upper Room Fixtures direct UVC light to the upper room disinfection zone, providing continuous air purification that eliminates 99.9% of viral airborne particulates.

**UVC Mobile Air Purifiers.** Safeology™ UVC Mobile Air Purifiers offer round-the-clock pathogen protection. Simply position them in a room, turn them on, and let our UVC technology remove 99.9% of viruses and germs from the air you breathe.

**UVC Towers.** Safeology™ UVC Towers safely, quickly, and efficiently disinfect and inactivate up to 99.9% of surface pathogens, providing routine scheduled disinfection, as well as episodic disinfection-on-demand.

**Hand Sanitizers.** Our high-visibility, easy to fill sanitizer stations provide ongoing encouragement to students and staff to be wise and sanitize.

**Personal Protective Equipment.** We offer 3-ply face masks, KN95 respirators, and protective plastic face shields to give your staff an extra layer of protection.

**Infection Prevention Guidance.** Our board-certified Infection Prevention and Control experts can help you identify risk factors and develop best-practice protocols to minimize or eliminate the spread of infection.

**Communication Materials.** Our communication materials make it easy for you to reassure students, staff and parents that you've created a clean, safe environment.

## A quick and easy way to get started.

For some schools, CARES Act funding and capital budgets provide the resources to purchase our UVC technology outright. For others, a leasing program makes the most sense. Either way, Safeology will partner with you to determine the best option for your unique situation.



### DID YOU KNOW

While not all are potentially harmful, on average, students come in contact with over 150,000 germs each day while at school.

*Source: safespace.com*



### ACCORDING TO EXPERTS

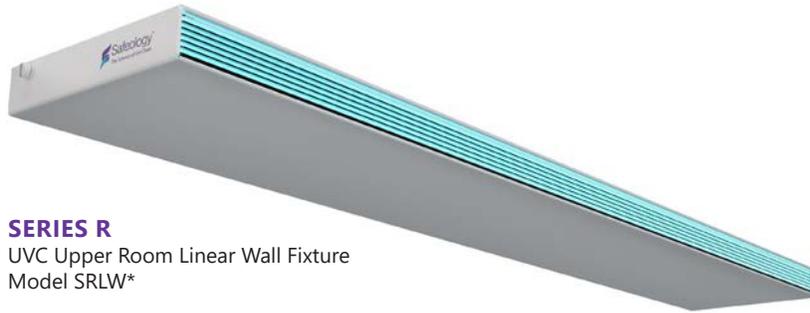
Of all professions, teachers have the most germs on their workspace surfaces, averaging 17,800 bacteria per square inch.

*Source: University of Arizona microbiologist Charles Gerba, Ph.D.*

# Safeology UVC Upper Room Fixtures

**Eradicate 99.9% of airborne viruses.**

Using optimized UVC beam control to clean the air that's circulating through the upper room disinfection zone, Safeology™ UVC Upper Room Fixtures provide continuous air purification that eliminates 99.9% of airborne pathogens. Upper-room placement and silent operation makes them a perfect technology to ensure a clean, healthy environment.



**SERIES R**  
UVC Upper Room Linear Wall Fixture  
Model SRLW\*

Uses CDC-recommended technology to clean and disinfect air

Silent operation

Continuous disinfection in occupied rooms

Large room volume coverage

Optimized beam control to direct UVC to upper room area

Scientifically-based Log 3 reduction of pathogens

Safe operation while people are present

Aesthetic minimalistic design

Light weight construction for easy installation

Wall mount or ceiling installation; ideal for drop ceilings

Patent pending technology

Made in America with U.S. and global components

\*Other UVC Upper Room Fixture models are available. Visit [safeology.com](http://safeology.com) or contact [sales@safeology.com](mailto:sales@safeology.com) for more information.

**Continuous  
use**

**Silent  
operation**

**Unobtrusive  
placement**

**No ozone  
emissions**

## DID YOU KNOW

Upper Room UVC has the potential to offer significant protection at relatively low cost, and is especially well-suited for retrofitting older buildings.

*Source: National Institutes of health*

## ACCORDING TO EXPERTS

For larger rooms, Upper Room UVC is a more practical and effective approach to achieve high levels of air disinfection compared to traditional air cleaners.

*Source: Singapore Center for Environmental Life Sciences*

# Safeology UVC Mobile Air Purifiers

**Eliminate 99.9% of airborne viruses.**

Safeology™ UVC Mobile Air Purifiers are designed for round-the-clock pathogen protection. Simply position them in the room, turn them on, and let Safeology's UVC technology clean and disinfect the air you breathe. Providing 99.9% elimination of viruses, dust, mold, bacteria, and pollen, you can take a deep breath knowing Safeology UVC Mobile Air Purifiers protect you 24/7.

Exceeds CDC recommendation for minimum MERV-13 air filtration

High-output UVC germicidal lamps

High-grade HEPA Filter (removes 99.97% of particles at .3 microns)

Combined pre-filter and activated carbon filter reduces airborne odors and chemical disinfectant particulates, and extends life of HEPA filter

Delivers 6 to 10 Air Changes per Hour (ACH) in 2,000 ft<sup>2</sup> and 1,200 ft<sup>2</sup> rooms with 9' ceiling, respectively



Steel construction

White powder coat finish

Wi-Fi wireless Cloud-based control and monitoring

Commercial grade

Quiet operation due to optimized airflow design

High-performance centrifugal fan and motor

Made in America with U.S. and global components

## **SERIES M**

UVC Mobile Air Purifier 1800 Model SM18\*

\*Other Mobile Air Purifier models are available. Visit [safeology.com](http://safeology.com) or contact [sales@safeology.com](mailto:sales@safeology.com) for more information.

**Commercial grade**

**Adaptable to room size**

**No HVAC integration**

**Quiet operation**

## **DID YOU KNOW**

Productivity losses stemming from absenteeism cost U.S. employers \$225.8 billion each year, or \$1,685 per employee.

*Source: CDC Foundation*

## **ACCORDING TO EXPERTS**

For optimal air purification, the Centers for Disease Control recommend the simultaneous use of UVC light with HEPA air filters.

*Source: CDC*

# Safeology UVC Towers

## Obliterate 99.9% of surface viruses.

Providing routine scheduled disinfection, as well as episodic disinfection-on-demand, Safeology™ UVC Towers safely, quickly, and efficiently disinfect and inactivate up to 99.9% of surface pathogens. Use them daily for routine disinfection to stop the spread of viruses. And, if needed, use them on-demand to disinfect spaces with suspected or known viral contamination.



**SERIES T**  
UVC Tower Elite  
Model STEL\*

7" touch tablet with integrated wireless charger

Easy provisioning and simple control

Cycle-completion notification

\*Other UVC Tower models are available. Visit [safeology.com](http://safeology.com) or contact [sales@safeology.com](mailto:sales@safeology.com) for more information.

- 76" height for maximum floor to ceiling coverage area
- Status indicator light to signify modes of operation
- 3 PIR sensors for auto shutoff when movement is detected
- Audio start warning
- Six high-output shatter-resistant Philips 253.7 nm UVC lamp emitters
- 360° emittance for optimized coverage and reduced shadowing
- Up to 9,000 hours lamp life at 85% UVC intensity
- Wi-Fi wireless Cloud-based control and monitoring
- Ergonomically positioned grab handles for easy movement
- Powder-coated steel and aluminum construction
- 23" weighted base for superior stabilization
- 4" multi-directional wheels for better mobility
- Locking casters for secure placement
- Patent pending technology
- Made in America with U.S. and global components

Research-proven dosage

5 integrated safety features

Cloud-based system management

Comprehensive data reporting

### DID YOU KNOW

One germ can multiply into more than 8 million germs in one day.

Source: Tri Living Well

### ACCORDING TO EXPERTS

The coronavirus can be detected on plastic and stainless-steel surfaces for up to 72 hours.

Source: National Institutes of Health

# Frequently Asked Questions

## General

### Is UVC light safe?

Yes, when used correctly. It's important to follow standard safety protocols to protect against direct exposure to UVC light. Our UVC Towers, in which the UVC light is visible, must only be used in spaces when people are not present. Our other products, such as our UVC Mobile Air Purifiers and UVC Upper Room Fixtures, are safe to use around the clock, whether or not people are in the room.

### How do I know which UVC products I need?

Safeology experts will work with you to determine the best UVC products for your facility. Since viruses like SARS-CoV-2 live on surfaces and in the air, we've designed solutions for both. In general, our UVC Towers eradicate surface pathogens, while our UVC Mobile Air Purifiers and UVC Upper Room Fixtures eliminate airborne pathogens. The ideal scenario is to use these products together to create the cleanest space possible.

## UVC Upper Room Fixtures

### How do Upper Room Fixtures work?

UVC Upper Room Fixtures work by taking advantage of the natural rise and fall of air currents that lift viruses into the upper zone of a room, where UVC light can kill the viruses in seconds. For more than 80 years UVC Upper Room Fixtures have proven to be an effective means of disinfection against viruses such as measles and tuberculosis. And now, recent scientific studies are showing UVC Upper Room Fixtures to be equally effective against SARS-CoV-2.

### What are the benefits of using Upper Room Fixtures?

While all UVC products provide effective disinfection, UVC Upper Room Fixtures provide a few distinct advantages. First, they're mounted at, near or recessed into the ceiling, so they don't take up extra space. Second, they're completely silent, so they don't interfere with meetings, or detract from a quiet environment where the ability to concentrate is important. And third, they're ideal for older facilities in which major HVAC updates are challenging and cost prohibitive.

### Are Upper Room Fixtures safe in occupied spaces?

UVC Upper Room Fixtures are specifically designed to disinfect the air when it reaches the upper part of the room, typically 8 feet or higher. As air circulates naturally in the room, it's automatically disinfected when it reaches the upper room zone. Special louvers in the Fixtures direct the UVC light horizontally across the top of the room, and prevent light from shining lower in the room where people are.

### Are Upper Room Fixtures easy to install and service?

Safeology's UVC Upper Room Fixtures are designed for quick and easy wall-mount or ceiling installation, making them ideal for drop ceilings. The integrated auto-off feature ensures complete safety, and the fixture design allows for quick and easy lamp replacement.

## UVC Mobile Air Purifiers

### How many Air Purifiers do I need?

Air Purifiers are intended to remain in the rooms in which they're placed, so each room that needs to be cleaned should have its own unit. Our high-capacity Model SM18 is capable of achieving the CDC-recommended 6 to 10 air changes per hour in 2,000 ft<sup>2</sup> and 1,200 ft<sup>2</sup> rooms with 9' ceilings, respectively.

### Are Air Purifiers quiet enough for an office environment?

Absolutely. Our specially-engineered centrifugal fan and motor offers optimized airflow that minimizes noise. In addition, the variable speed fan allows you to change the airflow to adapt to your sound requirements.

# Frequently Asked Questions

## **How often do I need to replace the UVC lamps?**

Safeology's UVC lamps provide up to 9,000 hours of lamp life. Based on using the Mobile Air Purifier 10 hours a day, 365 days a year, the lamps will last well over two years. Safeology's proprietary software monitors lamp efficacy and lets you know when it's time to replace the bulbs.

## **Do the Air Purifiers use filters as well as UV light to clean the air?**

The Safeology UVC Mobile Air Purifiers include two separate filters to maximize their air scrubbing potential. A HEPA filter removes 99.97% of particles, and the combined pre-filter and activated carbon filter reduce airborne odors and chemical disinfectant particulates, and increase the HEPA filter life.

## **How much does the Air Purifier cost?**

With an expected effective lifespan of five years, depending on the size, UVC Mobile Air Purifiers provide continual 24/7 protection for around three to five dollars a day.

## **UVC Towers**

### **How many Towers do I need?**

The number of Towers needed depends on factors including room layout, square footage, surface angles and fixture and furniture location. Our team will perform a site evaluation and collect all relevant data. A dosage time computation based upon our lab study and the efficacy of our Tower will determine the time required for each room. Our consulting team will provide you guidance on the number of total Towers needed to clean your spaces in your time requirements.

### **How long does it take for the Tower to clean a room?**

It depends on the factors mentioned above. We'll work with you to determine the precise disinfection cycle time appropriate for each room.

### **How do I know it's working?**

The efficacy of UVC light in destroying pathogens has been documented in countless research studies and field applications, including government reports from the CDC, EPA and OSHA. While general effectiveness is dependent on the dosage, UVC is widely acknowledged as being able to eliminate up to 99.9% of harmful pathogens.

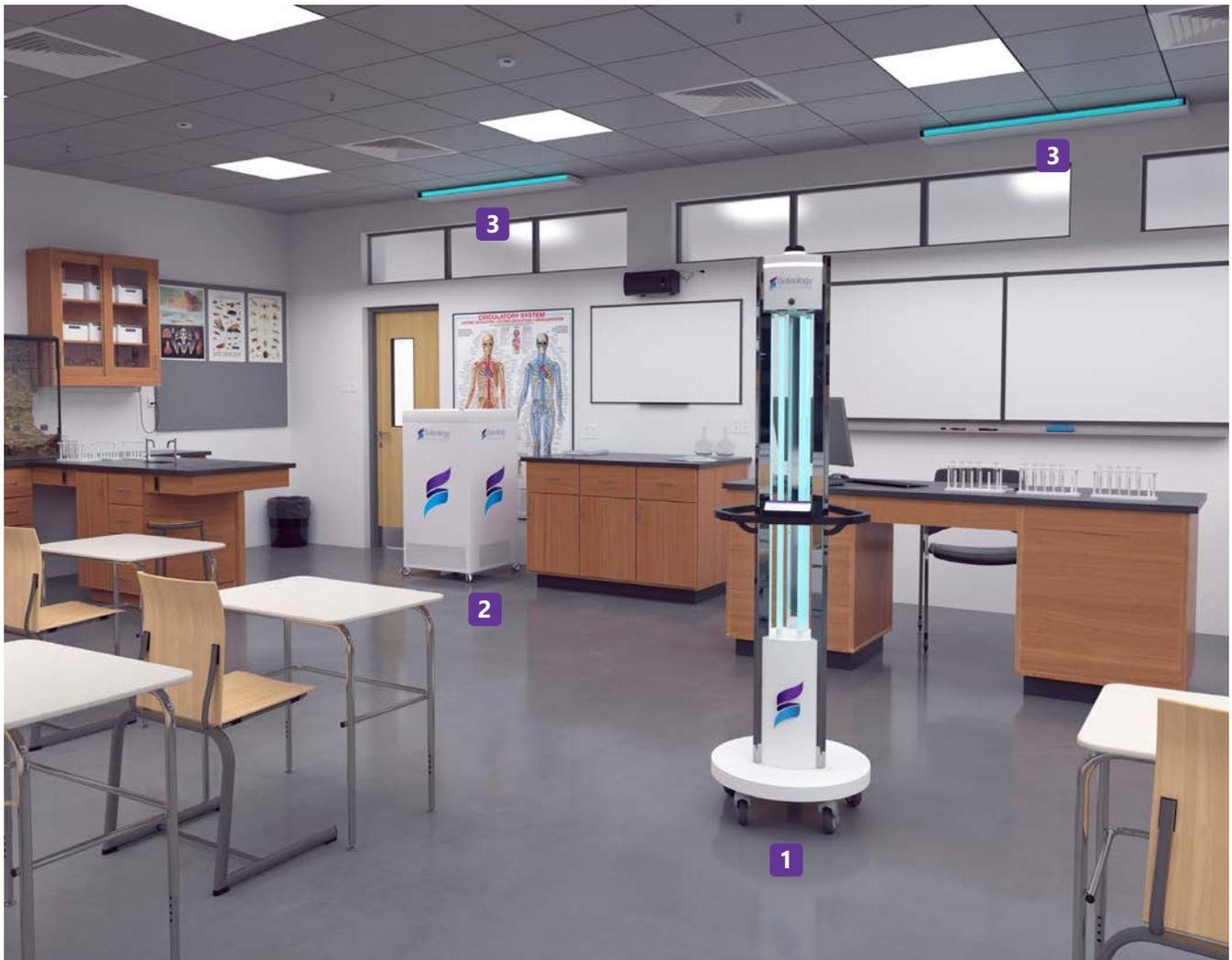
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### **How much does the Tower cost?**

Several variables factor together to determine the daily cost of operation. However, it's generally accepted that a Tower can clean a given space for just a dollar or two a day.





## The Leading UVC Disinfection Products for Schools

- 1** Safeology™ UVC Towers
- 2** Safeology™ UVC Mobile Air Purifiers
- 3** Safeology™ UVC Upper Room Fixtures

Learn more at  
[www.safeology.com](http://www.safeology.com)