

UVC Mobile Air Purifier

Harnessing the power of light to protect the world from coronavirus.



Model 1700

102,000 CFH/1,700 CFM
air flow capacity

Includes the following features:

High-output UVC germicidal lamps

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

Activated carbon filter (reduces airborne odors and chemical disinfectant particulates)

Anti-microbial powder coat finish

Wi-Fi wireless cloud-based control and monitoring

8 to 10 ACH (Air Changes Per Hour)



Steel construction

Hospitality grade

Quiet operation due to optimized airflow design

High-performance centrifugal fan and motor

Internal reflectors for maximized UVC intensity

Made in the USA

Safe, fast and effective UVC disinfection to eliminate airborne transmission of SARS-CoV-2 in hospitality spaces.

HOSPITALITY EXPERTISE.

Safeology™ UVC sanitizing and disinfecting products are designed by a global manufacturer of lighting and technology products with a quarter century of experience serving the hospitality industry. Leveraging the expertise built through years working with LED and lamp fixture technology, we've created UVC light products designed and engineered specifically for hospitality use.

EVIDENCE-BASED SCIENCE.

It's well documented through clinical research and long-established medical disinfection practices that when exposed to UVC light, a cell's DNA and RNA are damaged, rendering the cell microbiologically dead and incapable of reproduction. The unique single-strand RNA makeup of SARS-CoV-2, the specific coronavirus that causes the COVID-19 disease, makes it highly susceptible to UVC light, and an effective target for UVC disinfection.

STATISTICAL GENOME MODELING.

Safeology's scientific experts have conducted a computational analysis of the SARS-CoV-2 genome to identify the specific UVC dosage required to achieve a Log 3 reduction and deactivate 99.9% of the virus. The overall effectiveness of airborne disinfection is based upon air's exposure to this dosage of UVC light.

ADVANCED AIR FILTRATION.

Safeology's Mobile Air Purifier uses high-grade HEPA filters, capable of removing at least 99.97% of airborne particles such as dust, mold, bacteria, and pollen from the air.

OPTIMAL AIR EXCHANGE.

In general, CDC guidelines call for 6 to 12 Air Changes per Hour (ACH) to ensure clean, safe air. Safeology's scientists recommend 8 to 10 ACH for typical-use spaces with some high traffic spaces requiring a higher number of air exchanges.

THE TRIFECTA OF AIR DISINFECTION.

Only Safeology combines a precise UVC dosage based on scientific modeling, high-grade HEPA filtration, and high airflow capacity to ensure a Log 3 (99.9%) reduction of the airborne coronavirus.

PEACE OF MIND.

Safeology products help you create clean, pathogen-free spaces your guests will be eager to visit and comfortable to stay in. Because Safeology offers proven protection against coronaviruses and other disease-causing pathogens¹, your guests will have peace of mind knowing their health and safety is your top priority.

Unparalleled UVC air purification technology.

PRODUCT DESCRIPTION

The Safeology UVC Mobile Air Purifier offers you and your guests peace of mind by leveraging the science of light to create clean, pathogen-free spaces. With Safeology, you can safely, quickly and efficiently eliminate up to 99.9% of airborne pathogens¹, helping you create a clean, worry-free environment for employees and guests.

SOFTWARE SOLUTION

Only Safeology offers a proprietary Hospitality Software Suite (HSS), designed specifically for hotel and cruise ship applications. Our HSS offers a cloud-based web solution for back-end systems management, including real-time tracking and control, disinfection validation, remote software updates, lamp efficacy and maintenance data, air quality monitoring, air filter monitoring, and remote on/off. Our mobile app provides a user-friendly interface for easy provisioning and cycle completion notification.

SPECIFICATION STATEMENT

Solution shall consist of a UVC Mobile Air Purifier that uses 253.7 nm UVC light to inactivate pathogens such as SARS-CoV-2 and other viruses, bacteria and spores. Purifier shall use high-grade HEPA filter to remove inactivated pathogens from the air, and an activated carbon filter to reduce airborne odors and chemical disinfectant particulates. UVC dosage must be based on 8 to 10 ACH (Air Changes per Hour) and include SARS-CoV-2 genome modeling with computer-aided computation for time requirements for specific rooms sizes. Purifier must effectively deliver a Log 3 (99.9%) reduction of SARS-CoV-2. Solution must include cloud-based web and mobile software for management, authentication and reporting.



The most complete UVC air purification solution available.

Model 1700



FIXTURE

- Dimensions: 25.5”w x 25.5”d x 48.0”h
- Weight: 80 lbs.
- Made in the USA
- German-engineered centrifugal fan and motor
- Quiet operation due to optimized airflow design
- Optimized static pressure performance
- Four smooth rolling casters (two are locking) for easy mobility
- Durable anti-microbial powder coated metal construction
- Easy access filter replacement

AIRFLOW

- High capacity: 102,000 CFH/1,700 CFM
- Delivers 8 to 10 Air Changes per Hour (ACH) in 1,200 square foot room with 8.5’ ceiling

UVC LAMPING

- Twelve 75-watt ultraviolet lamps
- Amalgam 253.7 nm UVC lamps
- Up to 12,000 hours lamp life at 85% UVC power rate
- Internal reflectors for maximized intensity

ELECTRICAL

- 120V AC, 50/60Hz, 11.7 amps
- 1,400 watts
- 15’ hospital grade three-prong power cord (easily replaceable)
- On/off switch

FILTRATION

- High-grade HEPA filter removes 99.97% of particles $\geq .300 \mu\text{m}$
- Activated carbon filter reduces airborne odors and chemical disinfectant particulates
- Pre-filter to increase HEPA filter life

SAFETY

- Auto off sensor for safe lamp replacement
- No ozone

CERTIFICATIONS

- EPA Registered
- Conforms to UL Standards
- FCC compliant
- Patent pending

SUPPORT

- 3-year warranty
- Implementation training
- Maintenance and Software service plans
- Remote access customer service
- Field service
- Technical support

TECHNOLOGY

- Wi-Fi wireless cloud-based control and monitoring
- Imbedded computer automation for cloud-based management
- Air quality remote monitoring
- UVC lamp remote monitoring
- Variable wireless speed control for smaller spaces

SOFTWARE

- Cloud-based back-end management
 - Programmable start and stop times
 - Remote auto on/off
 - Room-based cleaning validation
 - Real-time tracking
 - Centralized monitoring and control
 - Remote software updates
 - Lamp efficacy and maintenance monitoring
 - Air quality monitoring
 - Filter end-of-life monitoring
- Mobile application operations
 - Easy provisioning
 - Simple control
- Computer-aided modeling
 - Air filter and UVC dosage analysis for various spaces

¹ The term pathogens, as used in Safeology literature, refers to the broader category of disease-producing germs, including viruses, bacteria and spores. While UVC light has been proven effective in inactivating or eliminating various pathogens, the dosage of UVC exposure (UVC intensity over time) required to do so may vary by pathogen type. Pathogens, in general, require different levels of exposure for disinfection. Some can be inactivated relatively quickly, while others require longer exposure to UVC.