

UVC Mobile Air Purifier 1800

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



Up to 108,000 CFH/1,800 CFM air flow capacity

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 ft² and 1,200 ft² 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

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

COMMERCIAL 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 commercial 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 commercial 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 UVC 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 6 to 10 ACH for typical-use (non-healthcare) 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 customers and employees will be comfortable in. Because Safeology offers proven protection against coronaviruses and other disease-causing pathogens¹, they'll 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 1800 offers 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.

SOFTWARE SOLUTION

Only Safeology offers a proprietary Commercial Software Suite (CSS), designed specifically for commercial applications. Our CSS 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 recommendation should be based on 6 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.

SERIES M
UVC Mobile Air Purifier 1800
Model SM18



The most complete UVC air purification solution available.

SERIES M

UVC Mobile Air Purifier 1800 | Model SM18



FIXTURE

- Dimensions: 26" w x 25.5" d x 48.0" h
- Weight: 265 lbs.
- German-engineered 40,000-hour 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 white powder coated metal construction
- Easy access filter replacement
- Made in America with U.S. and global components

AIRFLOW

- Delivers 6 to 10 Air Changes per Hour (ACH) in 2,000 ft² and 1,200 ft² rooms with 9' ceiling, respectively (at turbo speed)
- Low speed: 30,000 CFH / 500 CFM
- Medium speed: 60,000 CFH / 1,000 CFM
- High speed: 90,000 CFH / 1,500 CFM
- Turbo speed: 108,000 CFH / 1,800 CFM

UVC LAMPING

- Four 75-watt ultraviolet lamps
- Amalgam 253.7 nm UVC lamps
- Up to 12,000 hours lamp life at 85% UVC intensity

ELECTRICAL

- 120V AC, 50/60Hz
- Low speed: 667 watts / 5.6 amps
- Medium speed: 1,034 watts / 8.6 amps
- High speed: 1,102 watts / 9.2 amps
- Turbo speed: 1,560 watts / 13 amps
- 15' hospital grade three-prong power cord (easily replaceable)
- Master full-power on/off switch
- Control buttons and indicator lights for airflow levels

FILTRATION

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

TECHNOLOGY

- Wi-Fi wireless cloud-based control and monitoring
- Imbedded computer automation for cloud-based management
- UVC lamp remote monitoring
- USB upgradeable software input

SOFTWARE

- Cloud-based back-end management
- Easy wireless provisioning
- 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
- Filter end-of-life monitoring

SAFETY

- Auto off switch for safe lamp replacement
- Auto off switch for safe filter replacement
- No ozone

CERTIFICATIONS

- EPA-registered manufacturing facility
- 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

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.

Important Information

The Mobile Air Purifier's effectiveness in the deactivation of certain viruses, bacteria, protozoa, fungi or other harmful micro-organisms is as described above. Safeology does not warrant or guarantee that the use of the product will protect any user from or prevent infection and/or contamination with any viruses, bacteria, protozoa, fungi, illness or disease. The units are not approved as medical devices by the FDA. As such, the Mobile Air Purifier is not used to disinfect medical devices. Safeology shall not be liable for any claim or damage that may arise from or relate to any use of this product outside its intended use or contrary to operation instructions, user manuals or mounting instructions.

Safety Warning

DANGER: UVC lamps must be installed and used in the correct manner. Direct exposure to UVC can be dangerous and result in serious damage to the skin and corneas (eyes). UVC lamps must be installed in the Mobile Air Purifier in strict accordance with the requirements stated in the user manual or instructions. Safety switches should never be disabled. Unit should not be operated with the top off or with the filters removed. The Mobile Air Purifier must only be sold and installed by professionals.