

# UVC Mobile Air Purifier 1800

**Harnessing the power of light to reduce the spread of SARS-CoV-2.**

**SERIES M**  
UVC Mobile Air Purifier 1800  
Model SM18



## PRODUCT DESCRIPTION

Delivering 6 to 10 air changes per hour, the Mobile Air Purifier 1800™ offers the CDC-recommended standard for effective air cleaning. Designed by lighting technology experts, it harnesses the power of UVC light and HEPA filtration to eliminate up to 99.998% of airborne SARS-CoV-2<sup>1</sup>.

## SOFTWARE SOLUTION

Only Safeology offers a proprietary Software Suite featuring a cloud-based web solution for back-end systems management, including real-time tracking and control, remote software updates, lamp functionality, and remote scheduling.

## SPECIFICATION STATEMENT

Solution consists of a UVC Mobile Air Purifier that uses 253.7 nm UVC light to inactivate SARS-CoV-2, a high-grade HEPA filter to remove virus particulates from the air, and an activated carbon filter to reduce airborne odors. UVC dosage recommendation is 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 delivers a Log 4 (99.998%) reduction of SARS-CoV-2. Solution includes cloud-based web and mobile software<sup>2</sup> for management, authentication, and reporting.

# The most complete UVC air cleaning solution available.

## SERIES M

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### FIXTURE

- Dimensions: 26.0" w x 25.5" d x 52.0" 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 4" multi-directional casters, including a pair of total-lock casters for secure storage
- 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 ft<sup>2</sup> and 1,200 ft<sup>2</sup> rooms with 9' ceiling, respectively (at turbo speed)<sup>3</sup>
- Low speed: 30,000 CFH / 500 CFM / 46dB<sup>4</sup>
- Medium speed: 60,000 CFH / 1,000 CFM / 58dB
- High speed: 90,000 CFH / 1,500 CFM / 64dB
- Turbo speed: 108,000 CFH / 1,800 CFM / 72dB

### UVC LAMPING

- Two Philips 60-watt 253.7 nm UVC lamps
- Up to 9,000 hours lamp life at 85% UVC intensity

### ELECTRICAL

- 120V AC, 50/60Hz
- Low speed: 517 watts / 4.4 amps
- Medium speed: 864 watts / 7.4 amps
- High speed: 952 watts / 8.0 amps
- Turbo speed: 1,410 watts / 11.8 amps
- 15' hospital grade three-prong power cord (easily replaceable)<sup>5</sup>
- Master full-power on/off switch
- Control buttons and indicator lights for airflow levels

### FILTRATION

- High-grade HEPA filter removes 99.97% of particles  $\geq .300 \mu\text{m}$ <sup>6</sup>
- Activated carbon filter with pre-filter increases filter life and reduces airborne odors and chemical disinfectant particulates

### TECHNOLOGY<sup>2</sup>

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

### SOFTWARE<sup>2</sup>

- Cloud-based back-end management
- Easy wireless provisioning
- Programmable start and stop times
- Remote auto on/off
- Room-based operation validation
- Real-time tracking
- Centralized monitoring and control
- Remote software updates
- Lamp monitoring
- Filter end-of-life monitoring

### SAFETY

- Auto off switch for lamp replacement
- Auto off switch for filter replacement

### CERTIFICATIONS

- Certified to UL Standards
- FCC compliant
- Patent pending

### SUPPORT

- 3-year warranty
- Implementation training
- Maintenance and Software service plans
- Remote access customer service<sup>2</sup>
- Field service
- Technical support

### Important Information

The Mobile Air Purifier's effectiveness in the reduction of SARS-CoV-2 is as described above. The Safeology company 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 clean 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.

<sup>1</sup> In laboratory testing, our UVC and HEPA filtration technology has been proven effective at eliminating 99.998% of airborne SARS-CoV-2, the virus that causes COVID-19. Contact sales@safeology.com for additional information.

<sup>2</sup> Available with annual service plan, sold separately.

<sup>3</sup> ACH calculation: CFH / cubic footage of space. E.g. 108,000 CFH / 18,000 ft<sup>3</sup> room = 6 ACH.

<sup>4</sup> Decibel (dB) comparisons: 40 dB = quiet room in home, refrigerator; 50 dB = private office, moderate rainfall; 60 dB = normal conversation, business office; 70 dB = dishwasher, inside running car.

<sup>5</sup> Fixture not compatible with Ground-Fault Circuit Interrupter (GFCI) outlet.

<sup>6</sup> Based on filter manufacturer's specifications.